

PWOJÈ PLANTE KAFE

Coffee Based Cropping Systems Project

IICA
BIBLIOTECA VENEZUELA
8 - ABR. 2005
REBIDO



Coffee Creole™

Haitian Coffee Creole beans are grown by small farmers in high mountain plantations of Haiti, West Indies. Hand-picked, the ripe Arabica coffee cherries are processed in cooperative centers owned by the farmers. The dried beans are brought to the United States by Penn Caribe, Ltd. This Pennsylvania-based organization was formed to support self-help, economic development initiatives of Caribbean farmers.

Sales of Haitian Coffee Creole expand market opportunities and add economic incentives for small farmers to increase coffee production. This contributes to maintaining critical tree cover which reduces soil erosion on mountain slopes.

Haitian Coffee Creole is possible because of the technical support from numerous public and non-governmental organizations and the sales support of this store.

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VOLUME 2: TECHNICAL ANNEXES

Redesigned Proposal Submitted to USAID

October 30, 1992

INTER-AMERICAN INSTITUTE FOR COOPERATION ON AGRICULTURE

OFFICE IN HAITI

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ANNEX A:

Participation



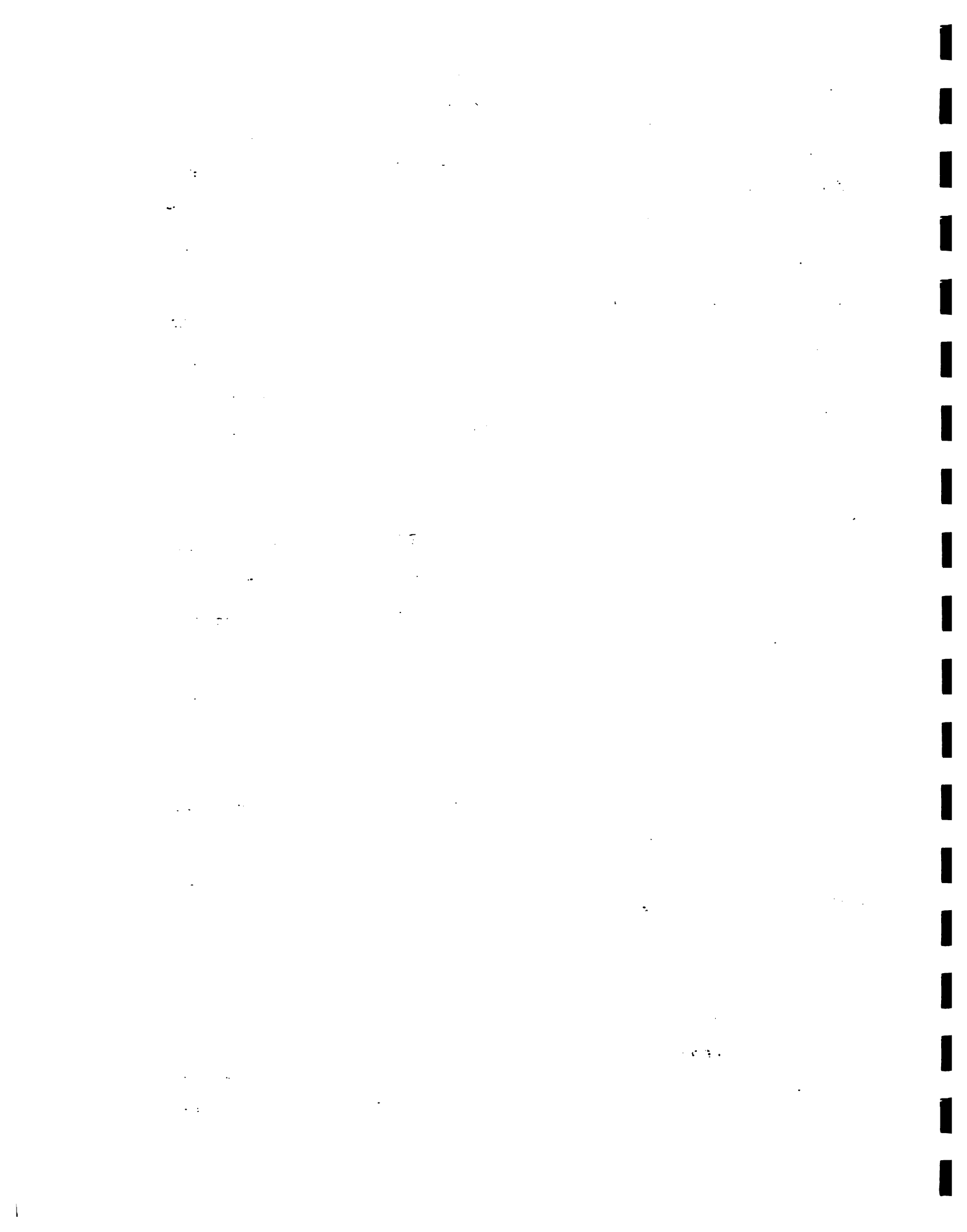
Annex A: Farmer Participation Component

Farmer participation in Pwoje Plante Kafe is indispensable for the success of the project, not only because it is their land, their coffee, their costs, and, in the end, their risks. The true measure of success for a project such as PPK can be seen in the continuation of project-initiated activities and techniques within the community after the project itself has ended. Only genuine and fully integrated farmer participation in project activities can ensure such an outcome.

Prior to the initial phase of the PPK, IICA had already benefitted from previous information and research collected within the context of the swine repopulation program. Because of this previous experience, a fully developed and tested participation methodology could be implemented right from the beginning.

From the outset, farmer participation was envisioned as integral to not only technology transfer, but also in certain aspects of research, in credit and in marketing. Farmer involvement will also be included in both mid-term and final evaluations.

Recognizing the often neglected links of communication necessary between project management and beneficiaries, the PPK was designed to incorporate a mechanism to ensure open



and lively communication from bottom to top, and top to bottom.

The project design was conceived in terms of four levels of participation:

- (a) consultation, whereby project personnel ostensibly control and determine project activities, but they do so in consultation with targeted beneficiaries;
- (b) representation, where farmers assume certain responsibilities through intermediaries, viz., their representatives or organizations;
- (c) incorporation, where farmers' representatives are integrated into decision-making bodies and are accorded greater responsibility; and, finally,
- (d) direction, or responsibility, in which the farmers have full control and management of the project and are well on their way to self-determination and autonomy.

All four of these levels of farmer participation are used during each stage of project planning and execution.

I. During the project planning phase, the consultative level of participation is used in establishing project objectives. Information previously obtained through "formateurs" in the context of the swine repopulation project streamlines this task. An exploratory survey, as well as informal meetings with local farmers, further establishes farmers' own

perspectives on their problems, priorities and possible courses of action.

The planning stage further includes a representative level of participation through the inclusion of representatives from already existing local organizations and their input in regard to beneficiary selection strategies.

Planning also includes the incorporation of farmers as a means of presenting the conditions necessary for certain project activities, and soliciting the farmers' opinions as to ideal locations for research plots, demonstration plots, kinds of crops, and so on.

II. During the actual execution of the project, consultative and representative levels of participation are integrated through the establishment of the Conseil Consultatif pour la culture du cafe (CADCO).

The CADCO conjoins the interests of individual project farmers with the actual management of the project. It consists of four members (two men, two women) chosen as representatives from among the farmer groupements in each pilot zone; and another five members, each representing concerned institutions, viz. IICA, MARNDR, USAID, the international export houses, and Associations Agricoles.

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CADCO has essentially two mandates: one, to make the management of the listed institutions aware of the concerns and problems faced by the coffee producers themselves, and, two, to make the coffee producers aware of the concerns, problems and constraints faced by these higher level organizations.

Incorporation of farmer participation during actual implementation takes place through several venues.

Structurally, CADCO, working together with PPK technicians, plays a responsible part in decisions concerning: the necessity for redesigning project components, scheduling of certain project activities, establishing criteria for the selection of prospective beneficiaries, as well as beneficiaries' contributions to the project and the uses to which these funds will be put.

At the same time, during implementation, farmers' organizations will work together with project staff to establish contracts and understandings as to the conditions and requirements necessary for the establishment of experimental and demonstration plots, and selection of crops.

Individual farmer incorporation during the implementation of the PPK is accomplished through the formation of farmer "groupements."

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support effective decision-making.

3. The third part of the document focuses on the role of technology in modern data management. It discusses how advanced software solutions can streamline data collection, storage, and analysis, leading to more efficient and accurate results.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It provides guidance on implementing robust security measures to protect sensitive information from unauthorized access and breaches.

5. The final part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that data management practices remain effective and aligned with the organization's goals.

This groupement approach, arguably the necessary "motor" of the project, has as its primary objective the continuation of project activities, in the hands of the participants, beyond the life of the project itself. In other words, the object is no less than the sustainability and continued viability of project goals solely under the aegis of the farmers themselves.

The strategy employed is explicitly designed to encourage farmers to organize themselves in order to receive the technological packages, access credit resources and in general arrive at their own ideas and solutions to improving production and marketing.

In the two pilot zones, these groupements emerged naturally from the already existing traditional "eskwad" or "Kwadi" or "korve." Traditional eskwad are loosely organized work groups of more or less stable membership. They do agricultural labor both in each others' gardens or for pay in others' gardens. Intra-eskwad labor is reciprocal, while the cash garnered working for others' gardens is shared equally among the participating members. Thus eskwad are natural social groupings most amenable to establishing participation within the PPK.

The groupements receive training not only in the new technological packages relating to coffee production

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amelioration, but also receive encouragement and assistance, when requested, to consider questions of "development" in general, and begin to arrive at ideas for solving some of the impasses they perceive. Thus some groupements become focused on problems of credit, others on marketing and still other concern themselves with nursery management. In each case the stimulus to engage in one sort of activity or another is the groupement's own, with project staff only providing assistance and advice when asked.

In essence, this methodological approach, while also proffering information, seeks to stimulate dialogue and problem-solving among local groups themselves. Through the use of proverbs, drawings, story-telling and general discussion, farmers begin to establish a new perspective on what they are capable of, what is possible, and what they can reasonably strive for, in all domains of their lives. It is on this basis that the end-goals of improved coffee production, economic autonomy and well-being beyond the life of the PPK will be achieved.

Further participation is encouraged by the dissemination of information and the organization of certain activities conducive to the goals of the project.

The rural animation component organizes sports competitions in each zone, e.g. football games and playoffs, running and

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2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and processing, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure throughout its lifecycle.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that the data management processes remain effective and aligned with the organization's goals.



sack races, horse and donkey races and domino championships. Dramatic groups put on little plays, and singing and song-writing contests are organized around particular themes relevant to coffee production. Agricultural fairs and crop contests are organized around exhibitions and demonstrations of project activities or techniques. Finally, local showings of videos on selected topics are arranged. Local video filming is also done and the results are shown both in the immediate locale and other pilot areas.

Four radio stations broadcasting over the entire country were chosen to disseminate specific agricultural programs. The topics of these programs are selected and prepared to synchronize with the agricultural calendar, and program parts are played by project staff and local people. Radio Soleil, Nationale, Lumiere and 4VEH broadcast these programs on average three times a week.

Additional information is distributed through the "Ti Liv," a series of bulletins published by the PPK concerning agricultural topics of interest to farmers in the pilot zones as well as elsewhere.

The directive level of participation reaches its fullest expression in the implementation of those PPK components concerned with credit and marketing. From the initial stages of the project execution, PPK technicians work closely with

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

2. The second part of the document outlines the specific requirements for record-keeping, including the need to maintain original documents and to keep copies of all supporting documents. It also discusses the importance of ensuring that records are stored in a secure and accessible manner.

3. The third part of the document discusses the importance of regular audits and reviews of records. It emphasizes that audits are necessary to ensure that records are accurate and complete, and to identify any areas where improvements can be made.

4. The fourth part of the document discusses the importance of training and education for staff involved in record-keeping. It emphasizes that staff must be properly trained and educated to ensure that records are maintained accurately and in accordance with applicable laws and regulations.

5. The fifth part of the document discusses the importance of maintaining records for the appropriate period of time. It emphasizes that records should be retained for as long as necessary to meet legal and regulatory requirements, and that records should be destroyed in a secure and controlled manner when they are no longer needed.

6. The sixth part of the document discusses the importance of ensuring that records are accessible to authorized personnel. It emphasizes that records should be stored in a secure and accessible manner, and that access to records should be controlled and monitored to ensure that only authorized personnel can view or modify records.

marketing and credit groupements, but all groupement activities in these domains remain strictly their own responsibility. Even while these activities are initiated under the auspices of the PPK, they are expected to have their own independent existence, thus with the inherent chances of risk and failure as well as success and profit even within the initial "protective" umbrella of the PPK.

III. These various levels of beneficiary participation are also integrated into all aspects of PPK evaluation. The already established venues of communication and dialogue between project participants and project staff will serve as a continuous and informal reference point during the life of the project.

In addition, each year will see a formal evaluation. Utilizing representative groups of respondents, information and opinions will be directly solicited for purposes of the evaluation.

Project farmers will also be asked to participate in decisions regarding evaluation planning, scheduling, selection of representative field sites and interpretation of test results.

Groupements directly concerned with credit and marketing

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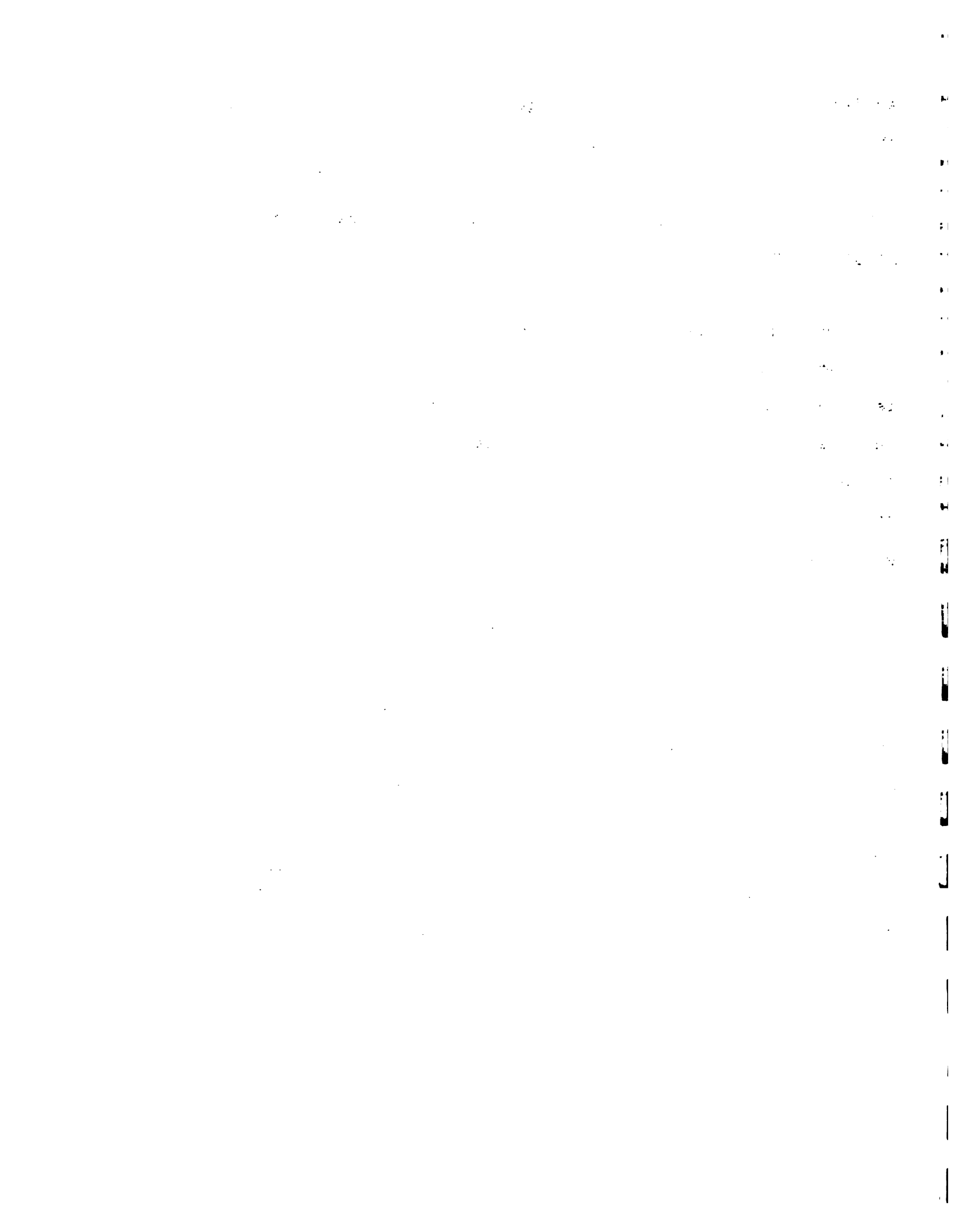


activities will direct and manage their own evaluations with the assistance of project staff.

Finally, all evaluation results will be shared with all project participants.

In sum, the objective the PPK is pursuing, through its thorough integration of all aspects of farmer participation, is to ensure the compatibility of its own activities with the interests of the farmers at all times during the life of the project. At the same time, the PPK hopes to encourage and achieve the empowerment of project farmers through their participation in all aspects of project execution so as to continue on their own the development of improvements in coffee production and their own standards of living.

The basic strategy employed is premised on the training and conscientization of farmers and their local organizations in preparation for them to assume fully both productive and commercial aspects of coffee production. The assumption of responsibility, in terms of signing contracts and financial contributions and actual purchase of agricultural inputs, within the context of the PPK, is fundamental to this end.



Specific Mechanisms

Integrating Farmer Participation Within PPK Activities

1. INFORMATION aux agriculteurs. Depuis la naissance du projet, les techniciens de l'IICA fourniront la plus ample information, tant aux agriculteurs qu'à leurs organisations. Le système de diffusion sera établi suivant un schéma égal à celui des ondes radio. Ainsi, progressivement et régulièrement, dotés d'un support composé par des brochures, dépliants et émissions radiophoniques, les zones pilote d'abord et le reste du pays ensuite, recevront l'information.
2. FORMATION. Pour chaque tâche à laquelle ils devront participer, les intéressés recevront du projet tous les renseignements, la formation, l'entraînement et l'assistance dont ils auront besoin.
3. CONSULTATION. Le personnel technique appliquera périodiquement les instruments spécialement conçus pour recevoir et utiliser l'information fournie par les agriculteurs en vue de l'amélioration de l'exécution du projet. Au fur et à mesure que la quantité d'activités et d'agriculteurs augmenteront, s'élargira la portée des consultations.

1. The first part of the document discusses the importance of maintaining accurate records for all transactions.

2. It is essential to ensure that all data is entered correctly and consistently.

3. Regular audits should be conducted to verify the accuracy of the information.

4. Any discrepancies should be investigated immediately and resolved.

5. The final section provides a summary of the key findings and recommendations.

6. It is recommended that these procedures be followed strictly to ensure compliance.

7. The document concludes with a statement of approval and the date of issuance.

8. All personnel involved in the process should be held accountable for their actions.

9. The information provided here is confidential and should be handled accordingly.

10. For further information, please contact the relevant department.

4. REPRESENTATION DES AGRICULTEURS. Un Comité Consultatif (CADCO) sera créé et sera directement relié à la Direction. Il sera composé par des représentants des groupements des agriculteurs ainsi que par des représentants des organisations et institutions significatives des localités où le projet se déroulera. Les fonctions du Comité sont spécifiées en annexe.

5. COLLABORATION AUX RECHERCHES. Afin d'établir la validité de certaines techniques de production, des recherches agricoles seront menées dans des terrains préalablement choisis. Une partie de l'expérimentation et des dépenses sera à la charge des agriculteurs membres des organisations. Dans le même esprit, une partie des décisions devront être prises de commun accord.

D'autres essais agricoles auront lieu dans des propriétés privées. Dans ce cas, ce sont les propriétaires qui partageront les décisions, les dépenses et les tâches.

6. COLLABORATION A LA PRODUCTION DES PLANTULES. Il est prévu la production de plantules et autres éléments pour la culture du café avec la coopération des agriculteurs dont on utilisera les terrains, ainsi que ceux des organisations.

7. DECISION CONJOINTE. Les personnes et organisations impliquées dans la production de semences participeront à l'organisation et distribution des semences aux agriculteurs.



Cela se fera avec le CADCO et les autorités respectives du projet, tout particulièrement pour l'établissement des critères de sélection des bénéficiaires.

8. DISTRIBUTION DES FERTILISANTS. On prévoit la distribution de fertilisants afin que les plantules distribuées aient plus de possibilité de se développer. L'engrais ne sera pas offert Avec le revenu que les groupements paysans auront obtenu, ils pourront se doter un fonds de roulement pour continuer à fournir des fertilisants aux agriculteurs après la fin du projet. Les règlements pour ces opérations ainsi que pour les quantités désignées seront décidées conjointement entre les techniciens et les dirigeants des organisations.

9. DIRECTION CONJOINTE DU CREDIT. L'opération des services de crédit pour les agriculteurs sera exécutée par certaines organisations d'agriculteurs, choisies et embauchées par le Projet. Ce système contractuel est une forme de placer les partenaires sur le même plan afin que les décisions soient prises conjointement.

10. COMMERCIALISATION. Ils seront pris en charge par les institutions des localités impliquées dans le projet. Elles recevront le soutien du projet à travers des contrats communs.

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11. DIRECTION DU CREDIT. Avant la fin du projet, les organisations responsables du crédit auront commencé à se doter de fonds propres provenant de la récupération de prêts financés par le Projet. La direction et l'utilisation de ces fonds ne dépendront du Projet.

12. DIRECTION DE LA COMMERCIALISATION. Une fois le projet termine, les contrats avec les institutions de commercialisation prendront fin aussi. Ces institutions continueront à opérer selon leurs propres intérêts.

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CADCO

I. QU'EN EST IL?

Le CADCO, comité Consultatif et de Coordination, est un organe consultatif qui fait partie de l'organisation du Projet PPK et se trouve situe a cote du Directeur de projet. Il est compose de representants des diverses entites interessees a la cafeiculture et d'autres unites faisant partie du Projet PPK. Il opere comme un element formel de participation.

II. A QUOI SERT LE CADCO

1. Assurer que les Institutions qui conseillent le Projet PPK recoivent en temps opportun les informations necessaire pour suggerer les actions correspondant a chacune au sein du PPK.

2. Assurer que le directeur du Projet recoive directement et de maniere opportune les informations, opinions et suggestions que les Institutions de participations desirent faire parvenir au PPK.

3. Garantir la coordination desiree des calendriers d'operation avec ceux des institutions participantes concernees.

4. Garantir aux beneficiaires et au personel technique de

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part outlines the various methods and tools used to collect and analyze data. This includes the use of surveys, interviews, and focus groups to gather insights from stakeholders and employees.

3. The third part details the process of identifying key performance indicators (KPIs) and how they are used to measure the organization's progress towards its strategic goals. It also discusses the challenges associated with selecting and tracking these indicators.

4. The fourth part explores the role of technology in data management and analysis. It highlights the benefits of using data analytics software to process large volumes of information and generate actionable insights.

5. The fifth part addresses the importance of data security and privacy. It provides guidelines for protecting sensitive information and ensuring compliance with relevant regulations and standards.

6. The sixth part discusses the need for a data-driven culture within the organization. It encourages leadership to promote the use of data in decision-making and to provide training and support for employees in data literacy.

7. The seventh part concludes by summarizing the key findings and recommendations. It stresses the importance of continuous monitoring and evaluation of the data management process to ensure its effectiveness and relevance over time.

terrain du projet la possibilité de transmettre directement leurs opinions et suggestions au directeur du Projet.

5. Faciliter la communication entre les institutions participantes et les bénéficiaires du Projet.

6. Faciliter la meilleure communication possible parmi les agents travaillant dans la caféiculture.

III. COMMENT EST ORGANISE LE CADCO?

Le CADCO est un corps complexe, constitué d'organes participatifs fonctionnant à 4 niveaux:

1er niveau: Un Comité Central existant auprès du directeur de Projet.

2e niveau : Comité Zonal

3e niveau : Assemblée zonale (locale)

4e niveau : Les groupes de producteurs

1.a Le Comité Central. Adjoint au Directeur de Projet

Il porte le nom de CADCO. Il est composé des représentants suivants:

a) Les agriculteurs bénéficiaires du Projet PPK des zones pilotes de Beaumont et de Jacmel (4 représentants).

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b) Autres agriculteurs et Institutions de Beaumont et de Jacmel liés à la caféiculture. (2 Représentants: 1 homme, 1 femme)

c) Le personnel technique de terrain du Projet à Jacmel et à Beaumont (2 Représentants: 1 homme, 1 femme)

d) La direction du PPK (1 Représentant)

e) Le MARNDR (1 Représentant)

f) Autres institutions en Haiti qui appuient la caféiculture (1 Représentant) par institution sur la base de 6 institutions au total.

1.c Le Comité Zonal

Il y aura un (1) à Beaumont et un (1) à Jacmel. Chacun est représenté:

a) Des agriculteurs bénéficiaires du PPK dans la zone (soit 2 représentants pour chacun des groupes pris en charge par un formateur. Ils constituent au total 50% de l'assemblée zonale).

b) Des autres agriculteurs et institutions de la zone intéressée à la caféiculture. (Ils constituent 25% de

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2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support informed decision-making.

3. The third part of the document focuses on the analysis and interpretation of the collected data. It discusses the various statistical and analytical tools used to identify trends, patterns, and anomalies in the data.

4. The fourth part of the document addresses the challenges and limitations associated with data analysis. It discusses the potential for bias, errors, and misinterpretation, and provides strategies to mitigate these risks.

5. The fifth part of the document discusses the importance of data security and privacy. It emphasizes the need for robust security measures to protect sensitive information from unauthorized access and disclosure.

6. The sixth part of the document discusses the role of data in strategic planning and decision-making. It highlights how data-driven insights can inform the development of effective strategies and the allocation of resources.

7. The seventh part of the document discusses the future of data analysis and the emerging technologies that are shaping the field. It highlights the potential of artificial intelligence, machine learning, and big data analytics to revolutionize data analysis.

8. The eighth part of the document discusses the importance of data literacy and the need for individuals and organizations to develop the skills and knowledge necessary to effectively use data.

9. The ninth part of the document discusses the ethical implications of data analysis and the need for responsible data practices. It emphasizes the importance of transparency, accountability, and respect for individual privacy.

10. The tenth part of the document discusses the role of data in social and economic development. It highlights how data-driven insights can be used to identify and address social and economic challenges, and to promote sustainable development.

l'assemblée zonale).

e) Du personnel technique de terrain du PPK, se trouvant dans la zone. (Ils constituent 25% de l'assemblée zonale).

1.d Les groupes d'agriculteurs

Ils sont constitués de 12 à 20 agriculteurs voisins, se réunissant périodiquement pour bénéficier des services fournis par le PPK, particulièrement en terme de formation. La constitution de ces groupes sera assurée par les formateurs sur la base de 4 groupes par formateurs.

IV. COMMENT SE FAIT LA SELECTION DES MEMBRES?

1. D'abord pour les groupes d'agriculteurs

Les formateurs visiteront les plantations et inviteront personnellement chaque agriculteur à participer aux réunions. Aux cours de ces réunions, se formeront des groupes d'agriculteurs qui décident de participer. A ce stade, le formateur prendra note de ceux qui désirent constituer chacun des groupes.

2. Pour l'assemblée zonale

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Sur proposition du formateur, les agriculteurs membres de 4 groupes éliront 2 délégués à l'assemblée zonale, un homme et une femme, qui seront leurs représentants durant une année.

Les représentants des autres agriculteurs et institutions de la zone seront désignés par leurs institutions respectives sur demande du responsable Régional du Projet PPK (Agr). Ces représentants seront délégués de leur institutions pour autant que celles-ci n'aient autrement décidé de leur mandat.

Les représentants du personnel de PPK et leurs suppléants aux assemblées zonales seront élus par vote direct et simple de tout le personnel de PPK de la zone, par suite du processus établi par l'Agronome de la région. Ces représentants sont élus pour l'année à moins de ne plus être consignés à la zone, auquel cas, ils perdraient automatiquement cette représentation.

3. Pour les comités de zone

L'assemblée de zone élira 4 membres titulaires et 4 membres suppléants pour être membres du comité zonal. Qu'ils soient titulaires ou suppléants, deux (2) seront représentants des agriculteurs de PPK. Leur mandat sera de 1 an. Les institutions locales désigneront des représentants au comité zonal sur demande écrite de l'agronome de région (AR). Ces

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. The text notes that without clear documentation, it becomes difficult to track expenses, revenues, and other critical data points.

2. The second section addresses the challenges associated with data management in a rapidly changing environment. It highlights the need for robust systems and protocols to handle large volumes of information efficiently. The author suggests that organizations should invest in modern technology and training to ensure their data is secure, accessible, and up-to-date.

3. The third part of the document focuses on the role of leadership in driving organizational success. It argues that effective leaders must be able to communicate a clear vision, inspire their teams, and make strategic decisions. The text provides several examples of successful leaders and their approaches, offering valuable insights for aspiring managers.

4. The fourth section discusses the importance of continuous learning and development. It notes that in today's fast-paced world, skills and knowledge can become obsolete quickly. Therefore, organizations should encourage a culture of lifelong learning, providing opportunities for employees to acquire new skills and stay current in their fields.

5. The fifth part of the document explores the impact of technology on various industries. It discusses how digital transformation is reshaping business operations, from marketing and sales to production and customer service. The text also touches on the ethical implications of technology, such as data privacy and the potential for job displacement.

6. The sixth section addresses the topic of sustainability and corporate social responsibility (CSR). It argues that companies have a responsibility to their stakeholders beyond just shareholders, including employees, customers, and the environment. The text provides examples of companies that have successfully integrated CSR into their business models.

7. The seventh part of the document discusses the importance of innovation and creativity. It notes that innovation is a key driver of growth and competitive advantage. Organizations should foster a culture that encourages experimentation, risk-taking, and the development of new ideas.

8. The eighth section focuses on the role of the legal and regulatory environment. It discusses how changes in laws and regulations can impact business operations and strategies. The text provides advice on how to stay informed and compliant with the latest legal requirements.

9. The ninth part of the document discusses the importance of customer experience. It argues that in a competitive market, providing exceptional customer service is a key differentiator. The text provides several strategies for improving customer satisfaction and loyalty.

10. The tenth and final section of the document discusses the future of work. It explores how remote work, automation, and artificial intelligence are changing the way we work. The text offers insights into how organizations can adapt to these changes and prepare for the future.

représentants auront la durée de mandat déterminée par leurs institutions.

4. Pour le CADCO

4.1 Chaque assemblée élira 4 représentants à intégrer au CADCO, de ceux-ci, 2 seront les représentants des agriculteurs bénéficiaires du PPK, 1 des autres agriculteurs de la zone et 1 du personnel de PPK. Ces représentants sont les mêmes à faire partie du comité zonal.

4.2 Les Institutions désignent leurs représentants sur la base de demande écrite du Directeur du Projet PPK. Leur mandat existera pour autant que le décideraient les Institutions dont ils émanent.

V. COMMENT TRAVAILLE LE CADCO

5.1 Le CADCO

5.1.1 Le comité CADCO près de la Direction du Projet se réunira une fois par mois.

5.1.2 A chaque réunion, la Direction présente un rapport comprenant:

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a) des donnees sur ce qui est realise par le PPK durant le mois.

b) des donnees comparatives entre le programme prevu pour le mois et le programm realise.

c) le programme des activites des mois suivants.

d) Une liste des requetes de participation a prévoir pour le suivant.

5.1.3 A chaque reunion, le CADCO prendra les decisions necessaires pour faire face aux besoins exprmes par le Directeur du PPK.

5.1.4 Les representants des autres institutions, des beneficiaires des autres agriculteurs et du personnel PPK presenteront aux cours de ces reunions, les informations, opinions et suggestions considerees opportunes pour le meilleur developpement du Projet. Le CADCO prendra alors les decisions y relatives.

5.1.5 Les decisions du CADCO seront transcrites et envoyees aux representants.

5.1.6 Ces decisions, sans tenir lieu de loi au de reglement,

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and analysis, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure.

5. The fifth part of the document discusses the importance of data governance and the role of various stakeholders in ensuring that data is used responsibly and ethically. It emphasizes the need for clear policies and procedures to guide data usage.

6. The sixth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that the data management processes remain effective and up-to-date.

seront valides dans la mesure où les propres membres du CADCO s'obligent à les mettre en application et que les institutions représentées reconnaissent la capacité de leurs représentants à accepter des engagements en leur nom.

5.2 LE COMITE ZONAL

5.2.1 Chaque comité zonal se réunira une fois le mois. À chaque réunion, le bureau de zone du PPK présentera un rapport qui devra inclure:

- a) Des données sur les activités réalisées dans la zone pilote au cours du mois.
- b) Des données comparatives entre le programme élaboré pour le mois et ce qui a été exécuté
- c) La programmation pour le mois suivant.
- d) Des demandes de participation pour le mois suivant.
- e) Des informations sur l'exécution du PPK dans le reste du pays pendant le mois.

5.2.2 Les représentants des autres institutions, des bénéficiaires, des autres agriculteurs et du personnel PPK,

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy auditing of the accounts.

In addition, it is crucial to review the accounts regularly to identify any discrepancies or errors. This involves comparing the recorded amounts with the actual bank statements and receipts. Any differences should be investigated immediately to prevent them from becoming larger issues.

Furthermore, the document highlights the need for proper categorization of expenses. This helps in understanding where the money is being spent and allows for more effective budgeting. For example, separating business expenses from personal ones is essential for tax purposes.

Finally, it is recommended to use reliable accounting software to manage the records. This can significantly reduce the risk of human error and make the process of recording and reviewing transactions much more efficient.

By following these guidelines, individuals and businesses can ensure that their financial records are accurate, complete, and easy to understand. This not only helps in managing their finances better but also provides a clear picture of their financial health over time.

presenteront au cours de la reunion du comite zonal les informations, opinions et suggestions consideres opportunes pour le meilleur developpement du PPK dans la zone. A ce titre, le comite zonal prendra les decisions correspondantes.

5.2.3 Les representants de la zone du comite CADCO place pres du Directeur du Projet, participeront aux reunions du comite zonal quand ceci semblera necessaire, en accord avec l'Agronome Regional (AR).

5.3 L'ASSEMBLEE ZONALE

5.3.1 Chaque assemblee zonale se reunira une fois l'an. Au cours de ces reunions seront traites les points suivants:

- a) Evaluation de la situation du PPK l'annee anterieure dans la zone et le reste du pays.
- b) Plan du PPK pour la zone pour l'annee suivante;
- c) Election des membres du comite zonal et des representants a envoyer au CADCO

The following table shows the results of the survey conducted in the year 1990. The data is presented in a tabular format, with columns representing different categories and rows representing different sub-categories. The values are given in percentages.

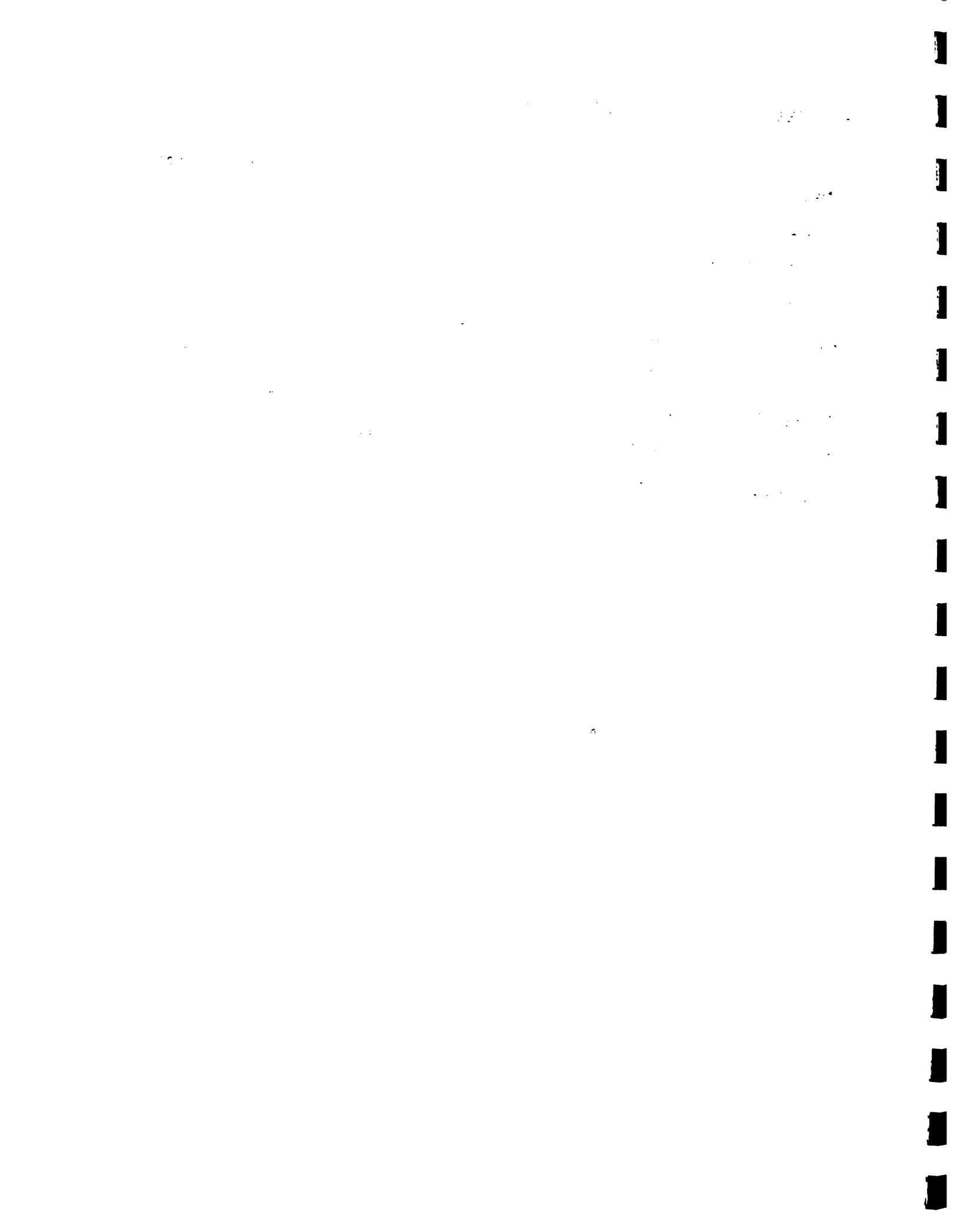
Category	Sub-category	Percentage
Group A	Sub-category 1	15%
	Sub-category 2	20%
	Sub-category 3	25%
	Sub-category 4	30%
Group B	Sub-category 1	10%
	Sub-category 2	15%
	Sub-category 3	20%
	Sub-category 4	25%
Group C	Sub-category 1	5%
	Sub-category 2	10%
	Sub-category 3	15%
	Sub-category 4	20%

The data indicates that Group A has the highest percentage of respondents in all sub-categories, followed by Group B and then Group C. The percentages generally increase from the first sub-category to the fourth within each group.



5.4 LES GROUPES D'AGRICULTEURS

Chaque groupe se reunira une fois le mois. Au cours de ces reunions, s'executera la formation pour la participation au projet et le soutien aux themes de vulgarisation, de meme que se realisera la coordination en vue de la participation des agriculteurs dans les activites du PPK tels que les journees en plein champ, les visites aux centres d'experimentations, la demande de credit, la reception des plantules, d'engrais ou de pesticides, l'election des representants etc.



DOCUMENT DE REFERENCE

Et Acte de Base du Comité Consultatif et de Coordination du Café (CADCO)

Conscients de la responsabilité qui repose à la fois sur l'épaule de ceux qui assurent la promotion technique et économique de cette culture de base représentée par le Café et aussi de ceux qui traditionnellement produisent cette denrée de base.

Reconnaissant de plus le bien fondé de l'initiative prise par l'Institut Interaméricain de Coopération pour l'Agriculture (IICA) de saisir l'opportunité d'exécution du projet de Revitalisation de la Caféculture (rendue possible par un financement de l'USAID) pour essayer de promouvoir une convergence des efforts en faveur d'une promotion rationnelle du Café à partir de 2 zones pilotes d'action.

Réalisant enfin les effets bénéfiques d'une Coordination des informations techniques et commerciales et de leur diffusion rationnelle au niveau de la production et de l'industrie Caféière, les Représentants des Institutions et Organismes présents à la réunion organisée le 4 Juillet 1990, aux effets de donner naissance à un comité Consultatif et de Coordination du Café (CADCO) s'accordent à donner leur adhésion au mandant suivant proposé pour cette entité et à aider à atteindre les objectifs suivants:



1. Assurer que les Institutions qui conseillent le Projet PPK reçoivent en temps opportun les informations nécessaires pour suggérer les actions correspondant à chacune au sein du PPK.

2. Assurer que le Directeur du Projet reçoivent directement et de manière opportune les informations, opinions et suggestions que les Institutions de participation désirent faire parvenir au PPK.

3. Garantir la Coordination désirée des calendriers d'opération avec ceux des Institutions participantes concernées.

4. Garantir aux bénéficiaires et au personnel technique de terrain du Projet la possibilité de transmettre directement leurs opinions et suggestions au Directeur du Projet.

5. Faciliter la communication entre les Institutions participantes et les bénéficiaires du Projet.

6. Faciliter la meilleure communication possible parmi les agences travaillant dans la caféiculture.

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POUR ACCORD:

Pour les producteurs des 2 zones pilotes (Jacmel et Beaumont)

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**Pour l'Institut Interaméricain de Coopération pour
l'Agriculture (IICA).....**

**Pour le Ministère de l'Agriculture, des Ressources Naturelles
et du Développement Rural (MARNDR).....**

Pour l'Association des Exportateurs de Café (ASDEC)
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Pour l'Association des Producteurs Agricoles (APA)
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Pour la Banque de la République d'Haiti (BRH)
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Pour l'Organisation des Nations Unies pour l'Alimentation et
l'Agriculture (FAO).....

Pour le fonds d'aide et de coopération (FAE)

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Pour la Caisse Centrale et de Coopération Economique (CCCE)

Port-au-Prince, le 19



ANNEX B:

Validation



ANNEX B: TECHNOLOGY VALIDATION COMPONENT

INTRODUCTION

The PPK-proposed cropping system involves technological components which require finer adjustments under farmers' actual agro-ecological and socio-economic conditions in Jacmel and Beaumont in order to facilitate their decision-making process as to whether they will eventually adopt, or partially adopt, the technological package.

OBJECTIVES

As during the initiation phase of PPK, the objective of Technology Validation is to formulate a set of technically and economically viable recommendations regarding coffee-based cropping systems, which project beneficiaries will apply on their farms.

As three (3) high-yielding and rust-resistant or tolerant coffee varieties (Catimors, Caturra and Catuai) were validated and adopted by farmers during the PPK initiation phase, only continued monitoring of the performance of these new cultivars needs to be accomplished during the consolidation phase. Validation of nursery and seedling production management techniques was essentially completed during the initiation phase, and will also require only monitoring during the consolidation phase.

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2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support effective decision-making.

3. The third part of the document focuses on the analysis and interpretation of the collected data. It discusses the various statistical and analytical tools used to identify trends, patterns, and anomalies in the data.

4. The fourth part of the document addresses the challenges and limitations of data analysis. It discusses the potential for bias, errors, and incomplete data, and provides strategies to mitigate these risks.

5. The fifth part of the document discusses the importance of data security and privacy. It emphasizes the need for robust security measures to protect sensitive information from unauthorized access and disclosure.

6. The sixth part of the document discusses the role of data in strategic planning and decision-making. It highlights how data-driven insights can inform business strategy and improve operational efficiency.

7. The seventh part of the document discusses the future of data analysis and the impact of emerging technologies. It explores the potential of artificial intelligence, machine learning, and big data to revolutionize data analysis and provide more powerful insights.

8. The eighth part of the document discusses the importance of data literacy and the need for ongoing education and training. It emphasizes that data analysis is a skill that must be continuously updated and refined to stay relevant in a rapidly changing world.

9. The ninth part of the document discusses the ethical implications of data analysis and the need for responsible data practices. It highlights the importance of transparency, fairness, and respect for individual privacy in the use of data.

10. The tenth part of the document discusses the role of data in public policy and social progress. It highlights how data-driven insights can inform government policy and improve the lives of citizens through more effective service delivery.



The new technological components which will be validated during the consolidation phase, are:

1. Upgrading Soil Fertility/Enhancing Sustainability.
 - 1.1 Transfer of fertility among the different "gardens" worked by the peasants.
 - 1.2 Restoration of fertility on fallow land through use of green manure plants such as Sesbania.
 - 1.3 Alternative annual/perennial crop mixes which absorb nutrients from different soil horizons.
 - 1.4 Evaluating benefit/costs from different combinations of organic and chemical fertilizers.

Five combinations will be validated:

Combination	ORGANIC %	CHEMICAL %
1	100	0
2	75	25
3	50	50
4	25	75
5	0	100

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2. Crop Protection.

2.1 Proper lay-out of crops for enhanced cross-protection against diseases/pests.

2.2 Insect control with neem insecticide in annual crops.

Dosage levels to be validated:

Dosage grs neem powder/liter water

1	50
2	75
3	100

3. Optimal mix of coconut/citrus within cropping system to minimize interspecific competition.

Three combinations coconut/citrus will be validated:

Combination COCONUT CITRUS
 No./ha. No./ha.

1	25	75
2	50	50
3	75	25

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STRATEGY

The strategy employed for the Validation component of PPK will entail three steps:

1. Explanation/Farmer Selection/Protocol Development.

This step involves meeting with farmers to explain to them the objectives of farm-level validations; identifying those farmers interested in participating, and, with their input, develop site-specific experimental protocols.

2. Implementation and Monitoring Protocol.

This step involves the actual establishment of the trial, and the periodic field monitoring required to assure that it is maintained and managed as per the protocol. Observations and data collection are conducted during this period.

3. Data Analysis/Formulation of Recommendations.

During this step, raw data, combined with the on-site observations are analyzed (both technical and economic), and the initial findings are discussed with the participating farmer and other interested parties. After this analysis, which includes direct farmer input, final recommendations can be made and presented for wider dissemination.



ACTIVITIES

The following specific activities are involved for each strategic step previously described:

1. Farmer Contact/Initiation of Validation Trials.
 - 1.1 Meetings with farmers; explanation of the validation exercise; solicit expressions of interest to participate.
 - 1.2 Preselect farmers based on established criteria.
 - 1.3 Make final selections of farmers after site visits.
 - 1.4 Develop site specific protocol and agreement document with farmer; sign agreement.

2. Implementation of Validation Trial.
 - 2.1 Develop site specific work plan.
 - 2.2 Organize, deliver inputs; supervise planting.
 - 2.3 Monitor, according to protocol, work plan.
 - 2.4 Collect data when, and as, specified in protocol.

3. Analysis and Formulation of Recommendations.
 - 3.1 Conduct technical and economic analysis of data.
 - 3.2 Present and discuss initial findings with farmer.
 - 3.3 Prepare recommendations as a combination of the analysis AND farmer commentary.
 - 3.4 Disseminate recommendations.

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END-OF-PROJECT RESULTS

By the PACD, it is anticipated that PPK will have concluded adequate Validation trials to be able to make specific recommendations concerning the topics specified under the objectives.

The following information is provided for your reference:

Item	Description	Quantity	Unit Price	Total Price
1	Item 1	10	1.00	10.00
2	Item 2	5	2.00	10.00
3	Item 3	2	5.00	10.00
4	Item 4	1	10.00	10.00
5	Item 5	1	10.00	10.00

ANNEX C:

Cropping Systems Technology Transfer



ANNEX C: CROPPING SYSTEMS TECHNOLOGY TRANSFER

INTRODUCTION

Sustainability is a one of the key issues addressed in this redesigned PPK project. Coffee-based farming systems, as proposed in the project is a technically, economically and ecologically sound approach towards sustained food, coffee and perennial crop production, and subsequent income generation by the project's direct and indirect beneficiaries.

Multiple cropping is a traditional type of agriculture in Jacmel and Beaumont, as pointed out in the Baseline Study made during the initiation phase of the PPK project (IICA. Baseline Study. Volume 3, 1992). While learning from farmers' experience, this redesigned project will improve the technical and economic performance of coffee-based cropping systems.

Furthermore, IICA Jamaica and CATIE have gone a long way towards establishing sustainable farming systems and have developed experience from which IICA Haiti will learn when implementing the redesigned PPK project.

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3. The third part of the document focuses on the role of technology in modern data management. It discusses how advanced software solutions can streamline data collection, storage, and analysis, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It stresses the importance of implementing robust security measures to protect sensitive information from unauthorized access and breaches.

5. The fifth part of the document explores the ethical implications of data collection and analysis. It discusses the need for transparency in data handling practices and the importance of obtaining informed consent from individuals whose data is being collected.

6. The sixth part of the document provides a detailed overview of the data analysis process. It describes various statistical and analytical techniques used to extract meaningful insights from large datasets.

7. The seventh part of the document discusses the importance of data visualization in communicating complex information. It highlights how visual representations such as charts and graphs can make data more accessible and understandable for stakeholders.

8. The eighth part of the document concludes by summarizing the key findings and recommendations. It emphasizes the need for a data-driven approach to organizational management and the importance of continuous monitoring and improvement of data management practices.

OBJECTIVES

The general objective of the Cropping Systems Technology Transfer component of PPK is to modify as required from farmer feed-back, and transfer an improved multi-crop system with the necessary management technologies, in order to assure the economic and ecological sustainability of coffee production. The technology transfer will be directed towards both the farm level and community level, with the following specific objectives and benefits envisioned:

1. Farmer Level.

At the farmer level, the proposed coffee-based cropping system will permit farmers to increase and stabilize their income, through optimal and sustainable use of their land, labor and natural resources. Specifically:

- a. To optimize land use via improved multi-cropping practices, thus reducing pressure on this scarce resource;**
- b. Natural soil fertility will be optimally exploited through the combination in time and space of different crops with different root systems and nutrients demand;**
- c. Furthermore, the integration in the cropping system, of field beans (one year) and pigeon pea (two years) for one**

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part, and the promotion of organic manure on the other, will contribute to further upgrading soil fertility, while at the same time, increasing food production and income;

- d. Also, the use of natural, neem-based insecticides will contribute to cost-effective control of insect pests, while the incorporation of neem pulp residues will improve soil fertility with corresponding increases in yield and production;
- e. As labor is shared among crops in the system, its additive value increases, with a corresponding reduction in production costs and increase in returns;
- f. Soil will be conserved by contour plantings, and soil retention by the roots of the perennials involved in the system;
- g. Water is conserved by the system, because of increased infiltration and decreased run-off due to more optimal soil cover;
- h. Cost peaks are attenuated through benefits generated at different periods of the year, thus enabling farmers to better handle not only the cropping systems budget, but also, their whole family budget.

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2. Community Level.

The PPK Cropping Systems Technology Transfer, by also focussing on environmental training at the community level, will contribute to the reduction of negative externalities which result from unsound hillside monocropping. These externalities affect the entire populations which reside within the watersheds associated with the targeted Jacmel and Beaumont coffee production zones.

More specifically, the overall life supporting capacity of the Jacmel and Beaumont natural resources will be augmented by improving the hydrologic and nitrogen cycles, regulating soil temperatures and micro-climates, buffering the dessicating effect of winds and restoring soil conditions conducive for beneficial micro-organisms. One obvious benefit, which has been reported from other micro-watersheds where soil conservation and cover crop practices have been installed, is the rapid regeneration of springs. Such results not only have an obvious benefit for the local population, but will also contribute to coffee processing because water for washing will be more readily available.

3. National Level.

On a more limited basis, PPK Cropping Systems Technology Transfer will have a positive impact on national food security due to increased productivity. More directly, via the project's impact on sustainable coffee production,

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8. The eighth part of the document focuses on the integration of data with other organizational systems. It discusses how data can be shared and used across different departments to improve overall organizational performance.

9. The ninth part of the document addresses the future of data management. It discusses emerging trends such as artificial intelligence and machine learning, and how these technologies will shape the way data is collected, analyzed, and used.

10. The tenth part of the document provides a summary of the key points discussed throughout the document. It reiterates the importance of data in driving organizational success and the need for a data-driven culture.

significant contributions to national revenues from agricultural exports should accrue.

STRATEGY

1. Technology Transfer begins with a clear definition of exactly what new, or modified, concept is to be conveyed to the target audience. IICA is proposing a multi-crop system, which is generally known by the local farmers except that some modifications are suggested. Pigeon pea as opposed to field beans, for example, although widely intercropped in Haiti, appears from the baseline studies not to be emphasized in the target localities. Since agronomically the crop is suitable, and it provides such benefits as an additional food source, an off-season crop and nitrogen fixation, IICA has included it in the technical package for a coffee-based cropping system. Similarly, an increased emphasis on perennial food crops such as citrus and coconut as shade trees has been incorporated into the package.

Beyond such simple changes in the crop components, improved management practices such as more efficacious spacing, contour planting and conservation measures, weed and pest control, and the use of fertilizers comprise other components of the package. There is, in essence, only a single "tech pack", although some modifications will be made for agromomic reasons in the different zones and sub-zones, and the

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farmers themselves, in the true spirit of farming systems, will undoubtedly make additional modifications. This "technology package" is described in detail in the section following this Annex.

2. Technology Transfer also entails a systems analysis to determine what other factors might limit acceptance. Both the PPK Baseline Study, and the experience achieved during the first 18 months of project implementation have enabled this analysis to be made.

As pertains directly to PPK, this analysis has revealed specific required actions, which will be addressed via direct linkages with other components of the project. Examples of these actions include the following:

a. Participation/Community Organization.

This component, emphasized strongly during the first 18 months of PPK implementation, greatly enhances the efficiency of training activities, and therefore technology transfer. Efforts directed towards convincing participating farmers that this is THEIR project, will contribute to the feed-back mechanism which is so crucial to effective technology transfer.

The self- and group- reflection process, which is continuously reinforced during training promotes an



enhanced attitude of self-determination. This attitude tends to result in more active dialogues and questioning of new ideas so that the process of technology transfer becomes a real entity, rather than a temporary acceptance of some vague idea because it might entail some minor benefit from "the project".

Finally, increased community organization is vital to the initiation of community banks, which will be the PPK credit delivery mechanism.

b. Credit

Implementation of the technology package requires access to credit with reasonable rates and payback periods. Credit will be used for the acquisition of plant materials and the necessary inputs. The mechanism selected by IICA is the community bank model (See Annex D) and a prototype has already been established in Beaumont.

c. Technology Validation

An on-going aspect of technology transfer is the validation of the technology under actual farmer-managed conditions. Examples of activities which will be conducted in support of Cropping Systems Technology Transfer include: (1) determination of the most advantageous mix of chemical and organic fertilizers;

(2) the efficacy of neem-derived insecticides; and (3) the performance of coconut at the higher elevations within the targeted zones. Details of these trials and methodologies are presented in Annex B.

d. Training

Technology transfer is essentially an exercise in training. Section 4.2 of this proposal presents detailed subject lists for training activities.

e. Processing and Marketing

Methods to augment post-harvest returns will clearly support the transfer and acceptance of technology by increasing the overall economic viability of the cropping system. Both improved processing at the farmer level, and activities to address national and international marketing are included in this revised proposal. Details are presented in Annex E.

3. Technology Transfer also requires a planned methodology for effective execution. Details of this methodology are presented in Section 5 of this Annex, following the description of the proposed cropping system.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial data and for facilitating audits.

2. The second part of the document outlines the various methods used to collect and analyze data. It includes a detailed description of the sampling techniques employed and the statistical tests used to evaluate the results.

3. The third part of the document presents the findings of the study. It shows that there is a significant correlation between the variables being studied, and it provides a clear explanation of the reasons behind this relationship.

4. The fourth part of the document discusses the implications of the findings and offers suggestions for further research. It highlights the need for continued monitoring and evaluation of the system to ensure its long-term effectiveness.

5. The fifth part of the document concludes the study and summarizes the key points. It reiterates the importance of the findings and the need for continued attention to the issues discussed.



DESCRIPTION OF THE PPK-PROPOSED COFFEE-BASED CROPPING SYSTEM

1. The "coffee complex" proposed by IICA includes seven crops. These crops, and their utility within the cropping system, are summarized in Table C-1. A schematic representation of this cropping system is presented in Figure C-1. The reader should note that this cropping system will be installed with appropriate soil conservation techniques (e.g., contour planting, trash barriers on the contour, mulching with detritus when/where appropriate, etc.)

Table C.1: Recommended Crops and Their Utilization within the PPK-Proposed Cropping System

Crop	Uses						
	Shade	Food	Inco- me	Nitro- gen supplier	Orga- nic matter	Feed	Char- coal
1. Beans		x	x	x	x		
2. Pigeon pea	x	x	x	x	x	x	
3. Corn		x	x			x	
4. Plan- tain	x	x	x			x	
5. Ci- trus	x	x	x				x
6. Coco- nut	x	x	x				
7. Cof- fee			x		x		

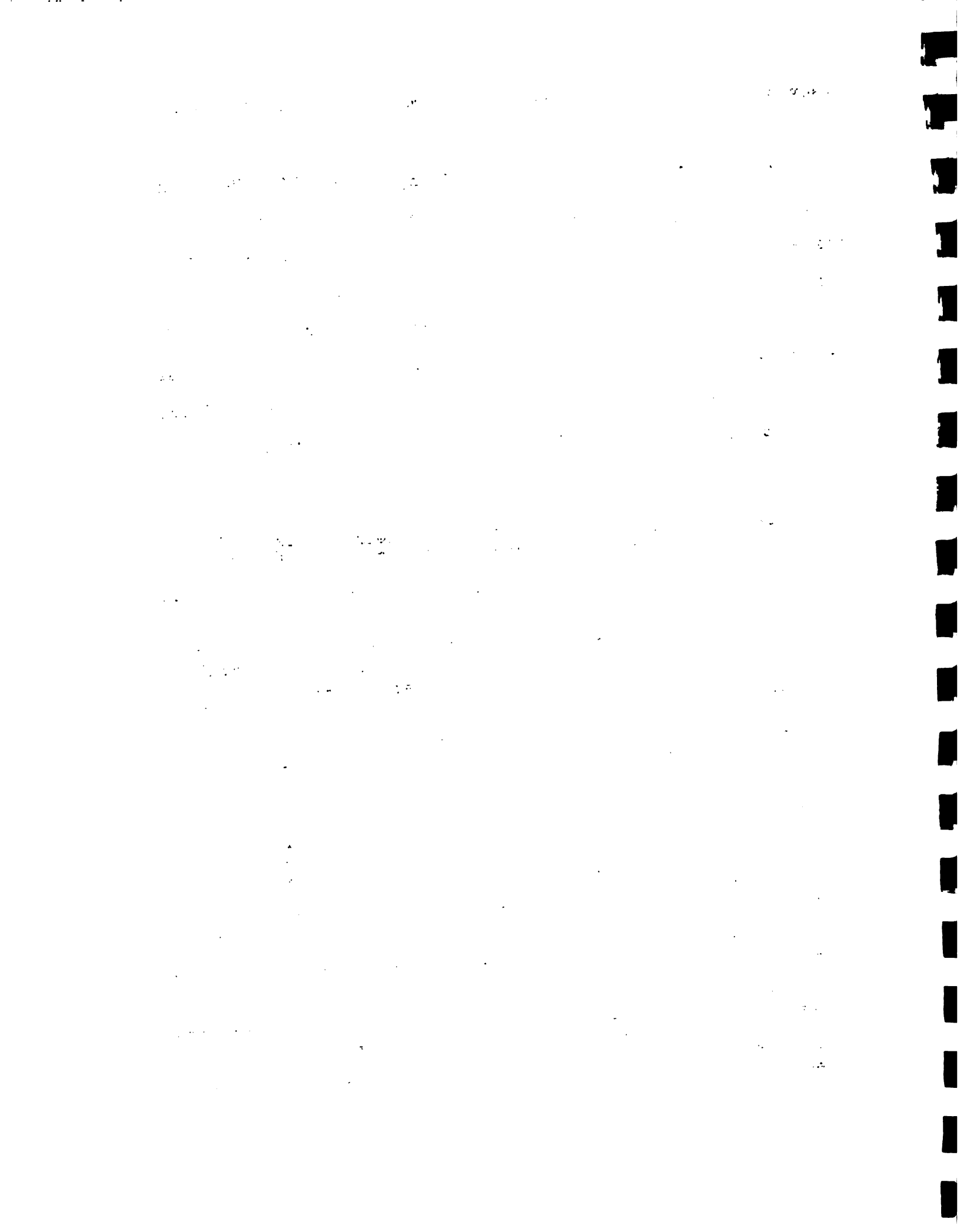
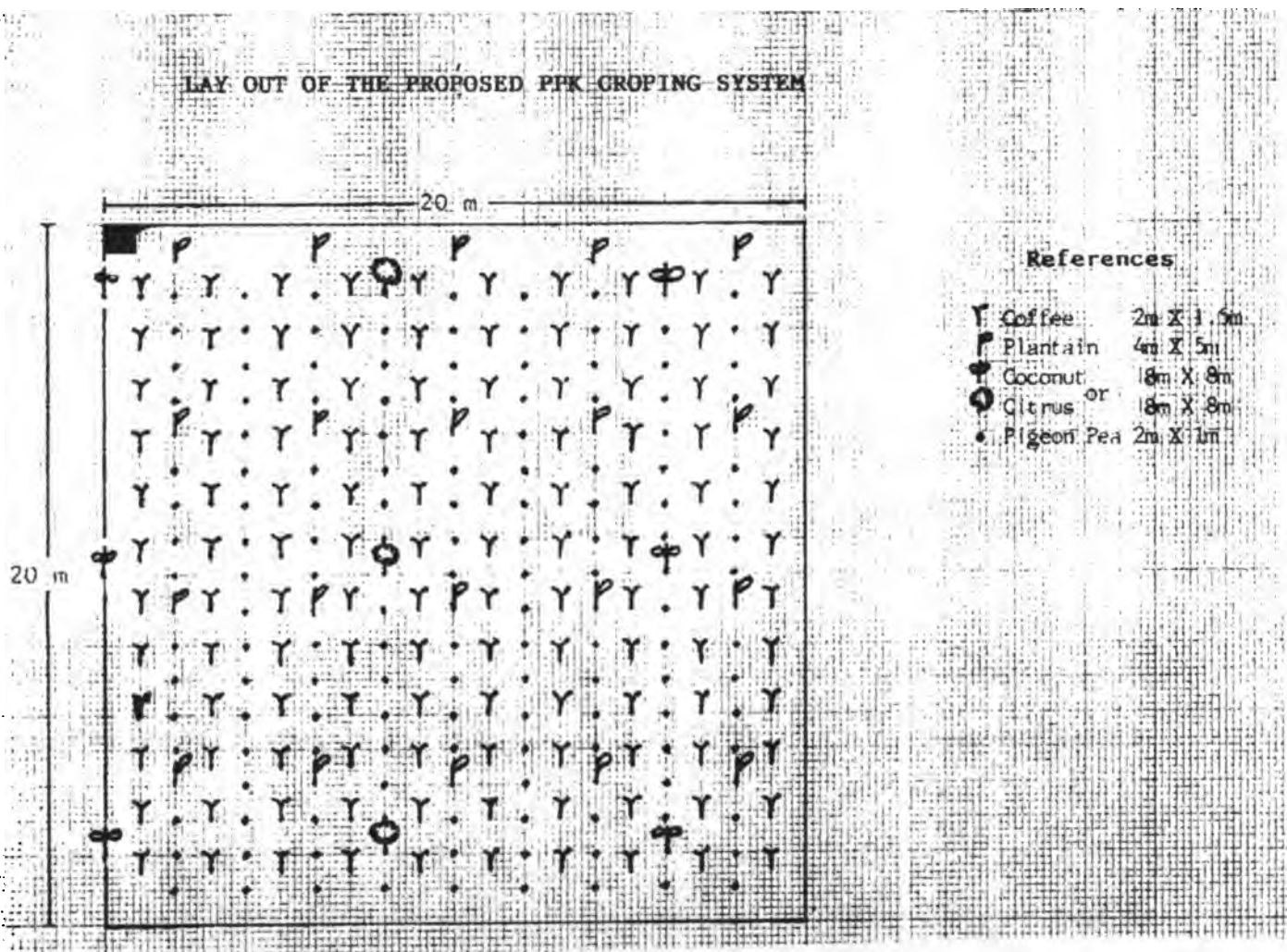
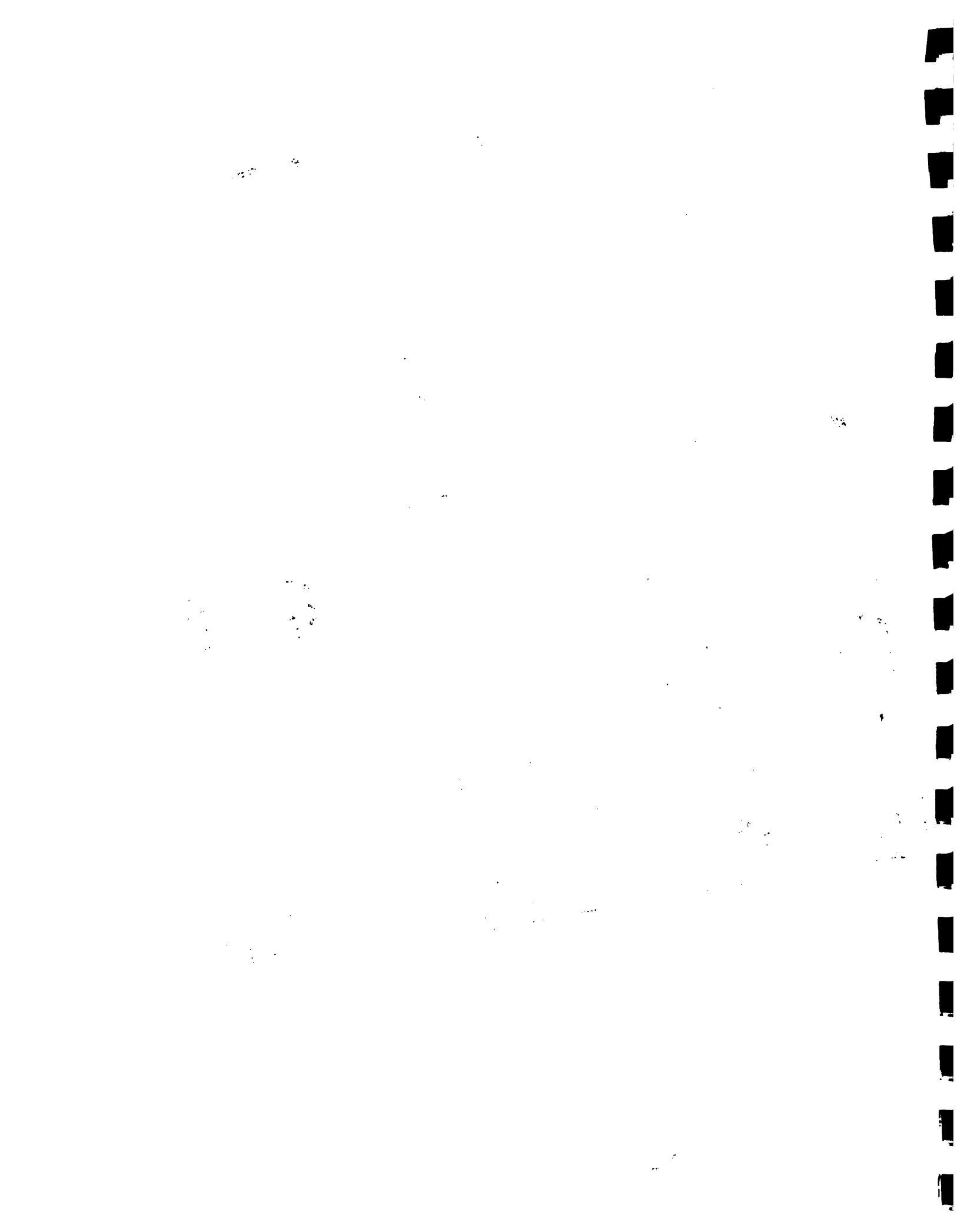


Figure C.1: Schematic Representation of Proposed Cropping System





One of the major advantages of inter-cropping over mono-cropping is the actual increase in effectively available land because multiple crops are grown in a non-competitive manner. In inter-cropping terminology, the term "land equivalent ratio" (LER) is used. Table C.2 presents the relative densities for each perennial crop. At these relative densities, the LER is estimated at 140%.

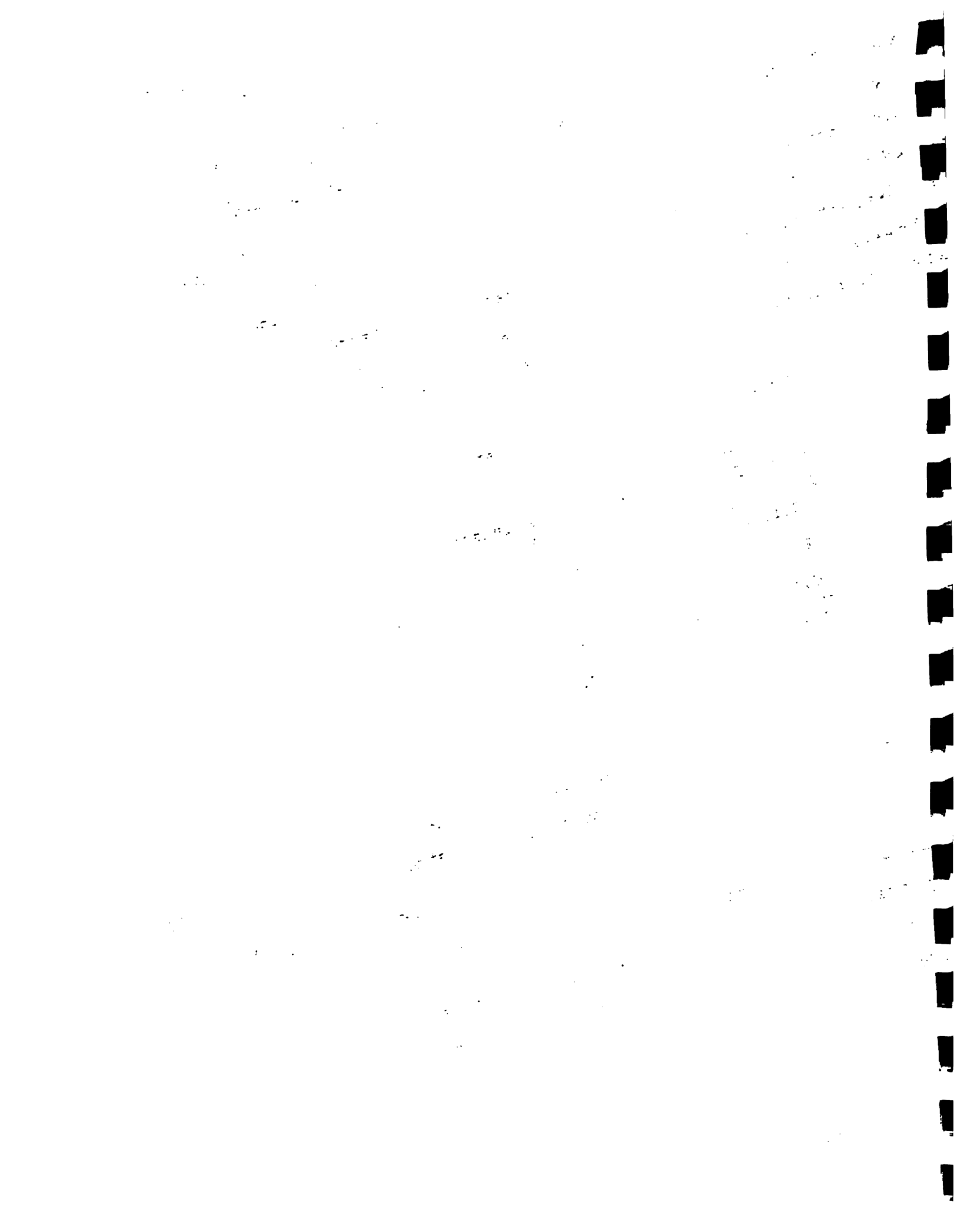
Table C.2: Relative Crop Densities

Crop	Relative density %
Coffee	83.8
Plantain	12.5
Citrus/Coconut	3.7
Total	100.0

2. Rationale for Selection, and Selected Descriptive Parameters for each Crop in the PPK-Proposed Cropping System.

a. Coffee

The rationale for the selection of coffee is that PPK is a coffee improvement project. This section, therefore, presents specific details pertaining to coffee technology and its transfer.



Production and Distribution of Seedlings

During the remaining 33 months, the Project will produce and distribute a total of 1.8 million coffee seedlings of high-yielding, rust tolerant and/or resistant varieties (see Table C-3: Seedling Production and Yearly Cost in US Dollars). The varieties which will be used are Caturra, Catuai and Catimor. The origin of the coffee seeds will be mainly from Haiti, especially from zones with experience in the production of seeds, such as Thiote. Seeds will also be imported from the Dominican Republic and from Central America as required.

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1. The first part of the document discusses the general situation of the country and the progress of the war. It mentions the importance of maintaining the morale of the people and the need for a united front.

2. The second part of the document deals with the economic situation and the measures being taken to improve it. It emphasizes the need for a balanced budget and the reduction of government expenditure.

3. The third part of the document focuses on the social and cultural aspects of the country. It discusses the role of education and the importance of promoting national unity and progress.

4. The fourth part of the document concludes with a call for continued effort and sacrifice from all citizens to achieve the goals of the nation.

Table C.3: Seedling Production and Yearly Cost in US\$

	YEAR 1	YEAR 2	YEAR 3	TOTAL
	500,000	700,000	675,250	1,875,000
Cost/year	85,000	119,000	114,792.5	318,792.5
1. <u>Supplies</u>	21,272	29,714	28,698	79,684
Seed*	4,250	5,950	5,739.6	
Bags	6,800	9,520	9,183.4	
Fertilizer*	4,250	5,950	5,739.6	
Pesticide*	3,825	5,355	5,165.6	
Compost	2,147	2,939	2,869.8	
2. <u>Contract to farmers groups</u> (Rental land, labor).	46,750	65,450	63,135	175,335
3. <u>Equipment</u>	17,000	23,800	22,939	63,739
Equipment	11,900	16,660	16,057	
Shade	5,100	7,140	6,881	
TOTAL/US/YEAR	85,000	119,000	114,792.5	318,792.5

***US\$ costs**

All remaining costs in gourdes

Coffee seedling production will be done in small decentralized nurseries (5,000 to 7,000 seedlings) which will be managed directly by farmer groups who will receive a small subsidy (see Table C-4: Subsidy Phase-

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Out Plan - PPK1).

The plan proposed for PPK1, just prior to the suspension, was to reduce the subsidy every year until the farmer groups were self-sufficient in seedling production. Under the current situation, and a shorter LOP, this subsidy phase-out plan will have to be reconsidered. Table C-5 presents data on nursery costs for the production of 100,000 seedlings. The Project will continue to provide training in nursery production as part of Technology Transfer. Polyethelene bags of 20x25 cms. will be distributed to the nurseries, and two soldiers (seedlings extracted from germination beds) will be planted per each bag. Seedlings will remain in the nursery for 8-10 months prior to distribution for out-planting. Nursery production will also be supervised to assure a high-quality of seedlings.

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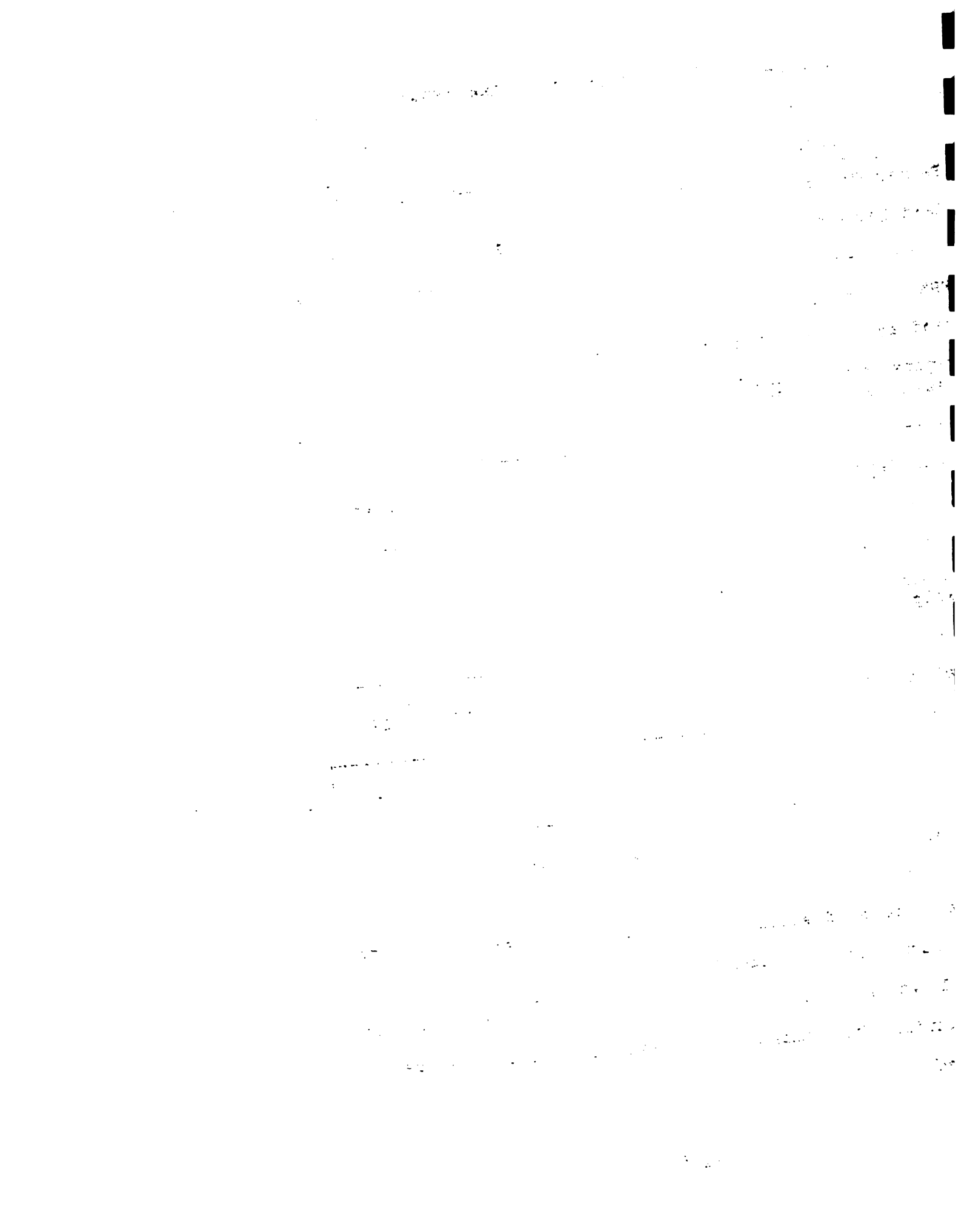
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Table C-4 SUBSIDY PHASE-OUT PLAN (PPK1)

YEAR	I	II	III	IV
a. Farmer Contribution				
Land Labour	0	2	4	6
b. PPK Contribution				
Land and Labour Subsidy	6	4	2	0
Inputs and Equipments (Advances - Seeds)	6	6	6	6
c. Total Seedling Cost	12	12	12	12
d. Farmer Pays/Plant (Payments for inputs/ Equip.)	6	6	6	6
e. Total farmer cont.	6	8	10	12
f. Total PPK cont.	6	4	2	0
g. Subsidy PPK	50%	33%	17%	0

The table above describes the subsidy phase-out program discussed with and accepted by farmers before the coup. It is doubtful whether this phase-out program will be acceptable or viable under the current circumstances. This must be investigated.



**Table C-5 NURSERY COST TO PRODUCE 100,000 SEEDLINGS
IN US \$**

		<u>COST</u>
1. SUPPLIES		4,250
- Seed	850	
- Bags	1,360	
- Fertilizer	850	
- Pesticide	765	
- Compost	425	
2. CONTRACT FOR FARMER GROUPS (Includes labor, rent)		9,350
3. EQUIPMENT		3,400
- Equipment	2,380	
- Shade	1,020	
TOTAL		US \$17,000 =====

The nursery production cost is divided as follows:

- 25% for supplies, including seed, fertilizer, bags, pesticides;
- 55% for farmer groups, contractors;
- 20% for equipment and shade.

The distribution of the seedlings will be done in agreement with the farmer groups in such a way that the group will acquire some benefit. A control sheet will be established to follow up the planting process. Prior to receiving seedlings, planters will have prepared their land as per project recommendations and established the necessary shade trees. Coffee planting will be performed in accordance with the agricultural calendar (planting in the months of August - November in Beaumont; in the Jacmel locality planting will be on a bi-annual basis: March, April and May, and August-November). The intra-specific planting distance will be the

The first part of the report deals with the general situation in the country. It is noted that the economy is still in a state of depression, and that the government is struggling to meet its obligations. The report also mentions the need for a more efficient administration and the importance of maintaining law and order.

In the second part, the author discusses the social conditions. It is pointed out that the majority of the population is still living in poverty, and that there is a need for social reforms. The report also mentions the importance of education and the need for a more equitable distribution of resources.

The third part of the report deals with the political situation. It is noted that the government is still struggling to maintain its authority, and that there is a need for a more stable political system. The report also mentions the importance of a more active role for the citizenry in the political process.

Finally, the report concludes with a series of recommendations. It is suggested that the government should focus on economic development, social reforms, and political stability. It is also recommended that the citizenry should be more actively involved in the political process.

The author concludes that the country is in a state of transition, and that there is a need for a more stable and equitable society. It is hoped that the recommendations made in the report will be taken into consideration by the government and the citizenry.

The report is a valuable contribution to the understanding of the current situation in the country, and it provides a clear and concise analysis of the various issues at hand. It is a must-read for anyone interested in the development of the country.

same that has already been adopted by the producers under PPK guidelines: 2 x 1.5 m., equivalent to 3,333 plants per hectare.

Part of the technology package being transferred by PPK includes the recommendations for minimum quantities of fertilizer to be applied. The Credit delivery system and project support for the timely distribution of these inputs will be part of the technology transfer package.

b. Perennial Food Crop/Shade Trees.

Perennial crops recommended for the coffee-based cropping system are plantain (as temporary shade), citrus and coconut for permanent shade. In addition to providing the necessary shade, these three plants also provide food and will increase income derived from the cropping system. Because the roots of these plants occupy different soil strata, there will be minimal inter-specific competition and the nutrient cycle will be enhanced. It will be recommended that these plants be planted six months prior to planting the coffee seedlings so that adequate shade will already be established.

18. The first part of the document is a letter from the author to the editor of the journal. The letter discusses the author's interest in the topic and the reasons for writing the paper. It also mentions the author's previous work in the field and expresses hope that the journal's readers will find the paper interesting and useful.

19. The second part of the document is the abstract of the paper. It provides a brief summary of the main findings and conclusions of the study. The abstract is followed by the introduction, which sets the context for the research and states the objectives of the study. The introduction also discusses the significance of the research and the contributions it makes to the field.

20. The third part of the document is the main body of the paper, which is divided into several sections. The first section is the literature review, which discusses the existing research on the topic and identifies the gaps in the knowledge. The second section is the methodology, which describes the research design and the methods used to collect and analyze the data. The third section is the results, which presents the findings of the study and discusses their implications. The fourth section is the discussion, which interprets the results and compares them with the existing literature.

21. The final part of the document is the conclusion, which summarizes the main findings and conclusions of the study. It also discusses the limitations of the study and suggests directions for future research. The conclusion is followed by the references, which list the sources used in the paper. The references are arranged in alphabetical order and include the names of the authors, the titles of the articles, and the names of the journals or books.

These crops will be planted 6 months before the planting of coffee, to provide adequate shade to the new coffee plantation.

Additional details, pertaining to each of these three plants is provided below.

(1) **Plaintain:** The varieties selected will be the preferred locally grown varieties. Plant spacing will be 4 x 5 m. (equivalent to 500 plants per hectare). It is anticipated that the majority of the required seedlings can be obtained from farmers within the project localities. Sources for additional seedlings could be from ORE (produced in vitro and disease free) or from similar tissue culture laboratories in the Dominican Republic. Seedlings will be provided to participating farmers as a credit input, with repayments returned to their respective community revolving loan fund (CRLF).

(2) **Citrus:** In the Beaumont region, lime trees will be the used for the variety of citrus. There is a substantial demand for lime from a Les Cayes based industry. The addition increased levels of vitamin-C in local farmer diets will also be beneficial. In Jacmel, PPK will provide grafted oranges. There is a premium market for Jacmel oranges in Port-au-Prince. Seedlings will be established at 8 x 8 m. intervals (equivalent to 156 plants per hectare). These

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for ensuring transparency and accountability in financial operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the implementation of internal controls and risk management strategies. It discusses how these measures can help organizations identify potential risks and implement effective controls to mitigate them.

4. The fourth part of the document addresses the role of technology in modern financial management. It explores how digital tools and platforms can streamline processes, improve efficiency, and enhance data security.

5. The fifth part of the document discusses the importance of regular audits and reviews. It explains how these activities can help organizations identify areas for improvement, ensure compliance with regulations, and maintain the integrity of their financial reporting.

6. The sixth part of the document covers the role of human resources in financial management. It emphasizes the need for a skilled and motivated workforce to effectively manage financial operations and achieve organizational goals.

7. The seventh part of the document discusses the importance of communication and collaboration in financial management. It highlights how clear communication and teamwork can help organizations make informed decisions and respond effectively to challenges.

8. The eighth part of the document addresses the role of ethics in financial management. It discusses how ethical considerations should be integrated into all aspects of financial operations to ensure trust and integrity.

9. The ninth part of the document discusses the importance of staying up-to-date with the latest trends and developments in the financial industry. It emphasizes the need for continuous learning and professional development for all employees.

10. The tenth part of the document concludes by summarizing the key points discussed and providing a call to action for organizations to implement the best practices outlined in the document.

trees will provide permanent shade for the coffee. (Note that the plantain only provides temporary shade.)

The planting material can be obtained from organizations experienced in fruit tree production such as ORE (Camp Perrin), the Rotary Club in Jacmel and other private sector organizations in Port-au-Prince.

(3) Coconut: Coconut will be given as a credit input to the small coffee farmers that wish to integrate this plant within the production system. Coconut is a well known multi-purpose crop in Haiti, providing not only nutritious fruit, but shade and roof materials and wood widely used in construction as well.

The varieties that will be used are Malayan Dwarf and the MayPan (an hybrid species developed in Jamaica and more tolerant of high winds and marginal soil conditions). Both of these improved varieties are resistant to "lethal yellowing disease". Extant tall variety coconuts in Haiti have, or are in process of, being decimated by lethal yellowing. The result has been a substantial decrease in production, and the country is currently importing great quantities of this product.

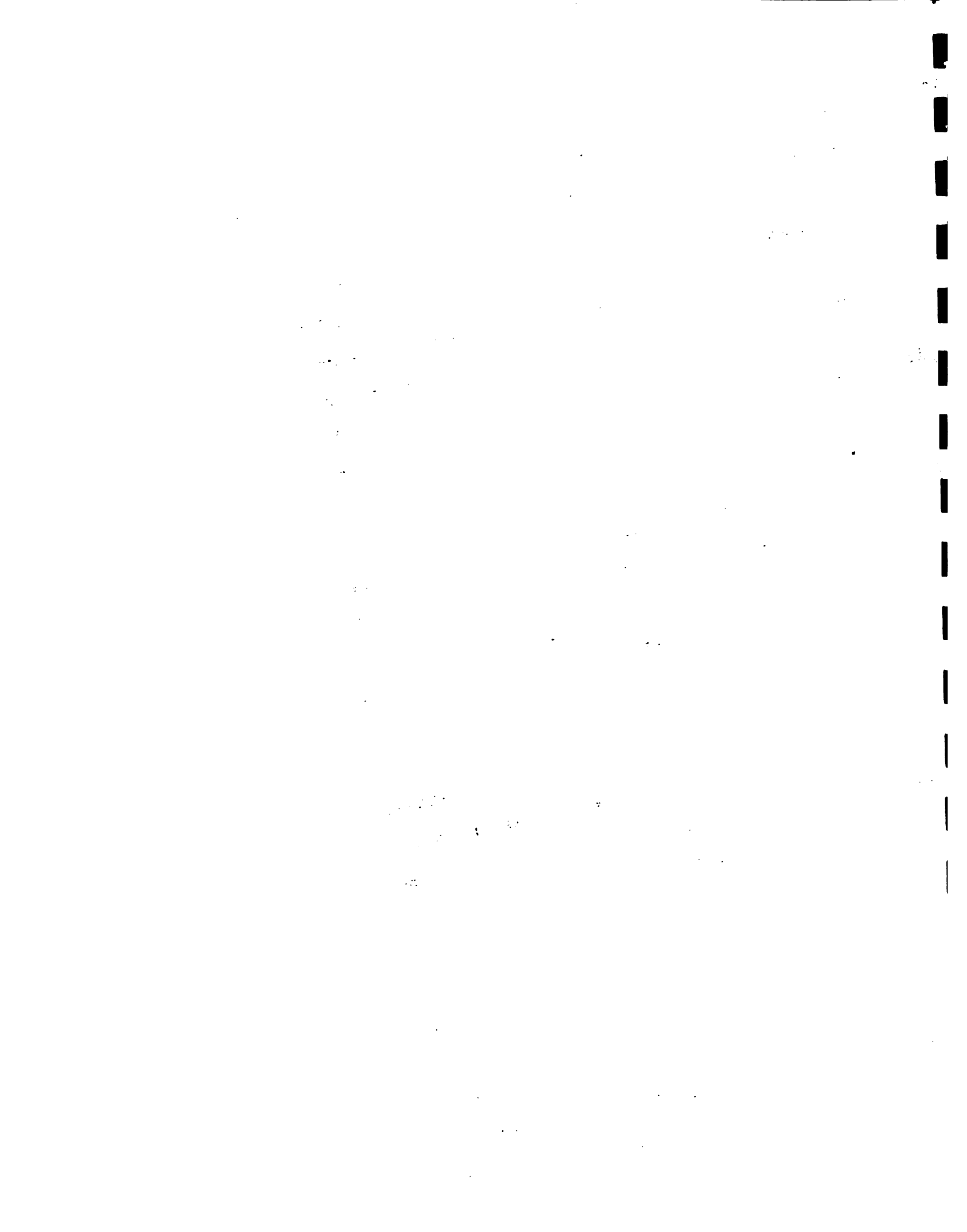
According to the Director of Research for the Coconut Industry Board in Kingston, Jamaica, coconuts can be grown

to an altitude of 600 meters, but there will be a substantial reduction in the number of nuts produced per year. His estimate was at 30 (a good average yield in Jamaica is considered to be 75). This estimated was verified by PPK staff observations at Tozia (ca. 600 meters, Beaumont zone). Furthermore, IICA conducted a benefit/cost analysis using 20 nuts per year and results clearly indicated that this yield would be very profitable for the Haitian farmer.

FAO, in its book "El cocotero arbol de vida" (Coconut, the tree of life), reports that in Malasia, coconut associated with small farm coffee results in yields of up to 1,000 kgs./ha., at elevations not exceeding 600 meters. When coconut is planted at higher levels, there is a delay in the flowering as a consequence of low temperature.

PPK proposes to introduce coconuts into the coffee-based cropping system on a operational basis at altitudes up to 600 meters. Validation trials at higher elevations may be conducted as well if farmers express interest.

Planting material will be imported from the Dominican Republic and/or Jamaica. The project will also investigate the possibility of establishing a hybridization nursery with a responsible organization in order to produce the Maypan hybrid. Given the progressing demise of the tall variety coconuts, such a production nursery for this improved



variety coconut would be a major contribution to Haiti.

Table C-6 presents an estimate of the quantity, unit cost and total cost for the perennial crop seedlings which will be required for the remaining LOP.

**Table C.6: Perennial Tree Crop Seedlings
(Quantity and Cost for LOP)**

Crops	Quantity Required	Unit Price (Gdes)	Total Cost (Gdes)	Total Cost (US\$) *
Banana	282,000.-	1.50	423,000.-	42,000.-
Citrus	84,330.-	6.00	505,980.-	50,590.-
Coconut	3,000.-	15.00	45,000.-	4,500.-
				94,090.-

This table gives the required quantity of perennial crop seedlings and the amount of the total cost in US dollars.

c. Annual/Biennial Food Crops

Two annual crops (corn and beans) and one biennial (pigeon pea) are recommended within the coffee-based cropping systems for the first establishment years of the new plantation. It is virtually assured that farmers will use the available, freshly prepared land between the shade tree seedlings for

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

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3. The third part of the document describes the different types of data that are collected and how they are used to inform decision-making. It notes that a combination of quantitative and qualitative data is often used to provide a comprehensive view of the organization's performance.

4. The fourth part of the document discusses the challenges associated with data collection and analysis. It identifies common issues such as data quality, data availability, and data security, and provides strategies to address these challenges.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It emphasizes the importance of ongoing monitoring and evaluation to ensure that the organization remains effective and efficient in its operations.

these crops anyway. PPK intends to provide better quality seed and selected cultural practises in increase yields, thereby generating additional food and/or income.

1) Field Beans.

Beans are very extensive throughout the project zones, having significant importance as a basic food in the Haitian diet. Nevertheless, farmers lack support to improve bean production which can be accomplished by providing improved planting materials, fertilizer (via credit) and training.

These services will be provided by PPK.

Varieties: The same varieties currently being used by the farmers will be addressed and farmers will be taught to select bean seeds properly.

Planting distance: Planting distance will be .50 cm. x .50 cm. in order to more effectively utilize space within the multi-cropping system.

Planting season: In both project zones, planting will be twice a year according to the agricultural calendar.

Finding good quality seeds: The project will establish contact with other institutions, such as ORE, so that farmers may obtain good quality seeds, financed with PPK credit if needed. The PPK should increase beans production 40% from 500 to 700 Kg/Ha.

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4. The fourth part of the document discusses the challenges and limitations of data collection and analysis. It acknowledges that there are often obstacles to obtaining complete and accurate data, and that the analysis of this data can be complex and time-consuming.

5. The fifth part of the document provides a summary of the key findings and conclusions from the data analysis. It highlights the areas where the organization is performing well and identifies the key areas for improvement.

6. The sixth part of the document offers recommendations and suggestions for how the organization can improve its data collection and analysis processes. It suggests that regular communication and collaboration between different departments is essential for ensuring the accuracy and reliability of the data.

7. The seventh part of the document discusses the future of data collection and analysis, highlighting the potential of new technologies and methods. It notes that as the organization continues to grow and evolve, it will need to adapt its data collection and analysis processes to meet the challenges of the future.

8. The eighth part of the document provides a final summary and conclusion, reiterating the importance of data collection and analysis in the organization's success. It emphasizes that by maintaining accurate records and using this data to inform decision-making, the organization can achieve its goals and improve its performance.

2) Corn

Corn ranks only second to rice as the major grain consumed by the Haitian population. Additionally, it is the principal ingredient in animal (chicken and pig) feed.

The farmers in the project zones normally plant corn along with beans. Corn production suffers from the same lack of services which affects bean yields: lack of improved planting material, fertilizer, and training. The project will offer these services to participating farmers.

Varieties: Selection of good quality local chicken corn seed will be the priority.

Planting distance: As corn is planted with beans, a planting distance of 2m x 1m shall be recommended which should improve upon the current use of land.

Planting season: Planting shall be twice a year according to the agricultural calendar. PPK shall increase corn production 45% from 900 to 1300 Kg/Ha.

3) Pigeon Pea

Pigeon Pea is a leguminous crop which offers a number of benefits to the small farmer cropping system. Pigeon pea provides food for home consumption, and additional cash crop

and shade for the coffee. PPK will support pigeon pea production via training, improved seeds, and fertilizer (via credit).

Varieties: The common local variety will be used.

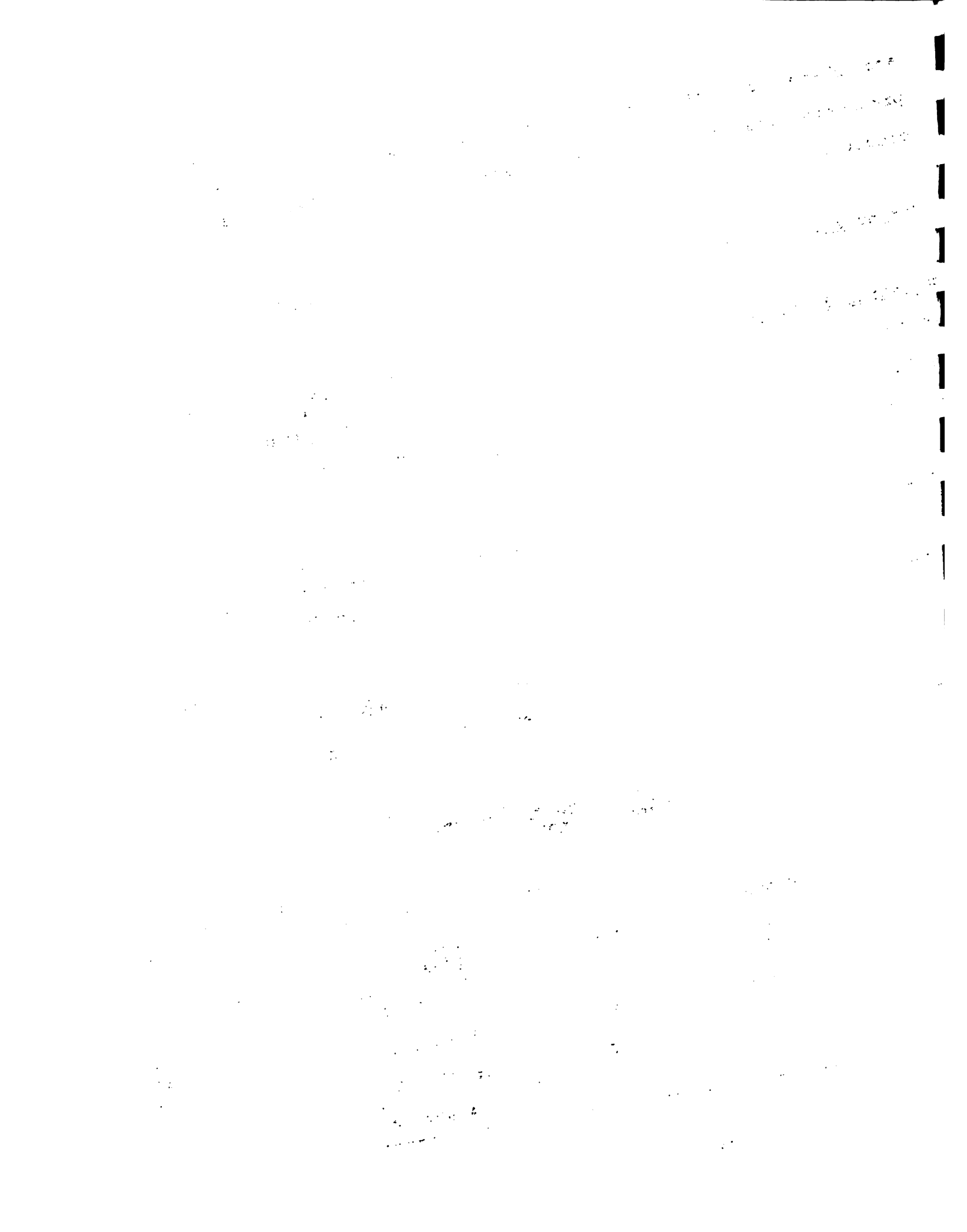
Planting distance: Pigeon pea will be planted at a distance of 2m. x 1m. allowing for other crops to enter the system while using land space efficiently. PPK will improve pigeon pea production by 40% from 500 to 700 Kg/Ha.

Planting season: For both zones, the planting season is March and April. Pigeon pea will remain in the system for two years in both zones.

Table C.7 presents the estimated quantities and costs for the annual and biennial food crop seeds which will be required for the remaining LOP.

**Table C-7 ANNUAL/BIENNIAL FOOD CROP SEEDS
QUANTITY AND COST FOR LOP**

Crops	Quantity of seed (kg)	Unit price (gdes)	Total cost (gdes)
Corn	7,100.00	2.56	18,176.00
Bean	14,000.00	7.00	98,800.00
Pigeon Peas	4,500.00	4.00	18,000.00
			134,976.00



Selected Benefit/Cost Analyses

Numerous iterations of benefit/cost analyses were conducted during the development of this recommended package for coffee-based cropping systems. Enterprise budgets were prepared for each individual crop based on data acquired directly from PPK sources where applicable, other experience in Haiti, and visits to both the Dominican Republic and Jamaica.

An enterprise budget presents in detail both the labor costs of production (e.g., person days for land preparation, weeding, harvesting, etc.), and the costs of inputs (e.g., plant materials, fertilizer, and even sacks for the transport of produce). Benefits accruing are also indicated by year, specifying the estimated harvest quantity and an estimate for the farm gate price.

Examples of these enterprise budgets are presented for a) coffee with inputs; b) coffee without inputs; c) plantain; d) limes - Beaumont; and e & f) coconuts, mid elevation and high elevation, respectively, in Figure C-2/a-f.

It can be seen from these figures that even at 20 nuts per year for coconut production at the higher elevations, the contribution at the farm gate is significant.

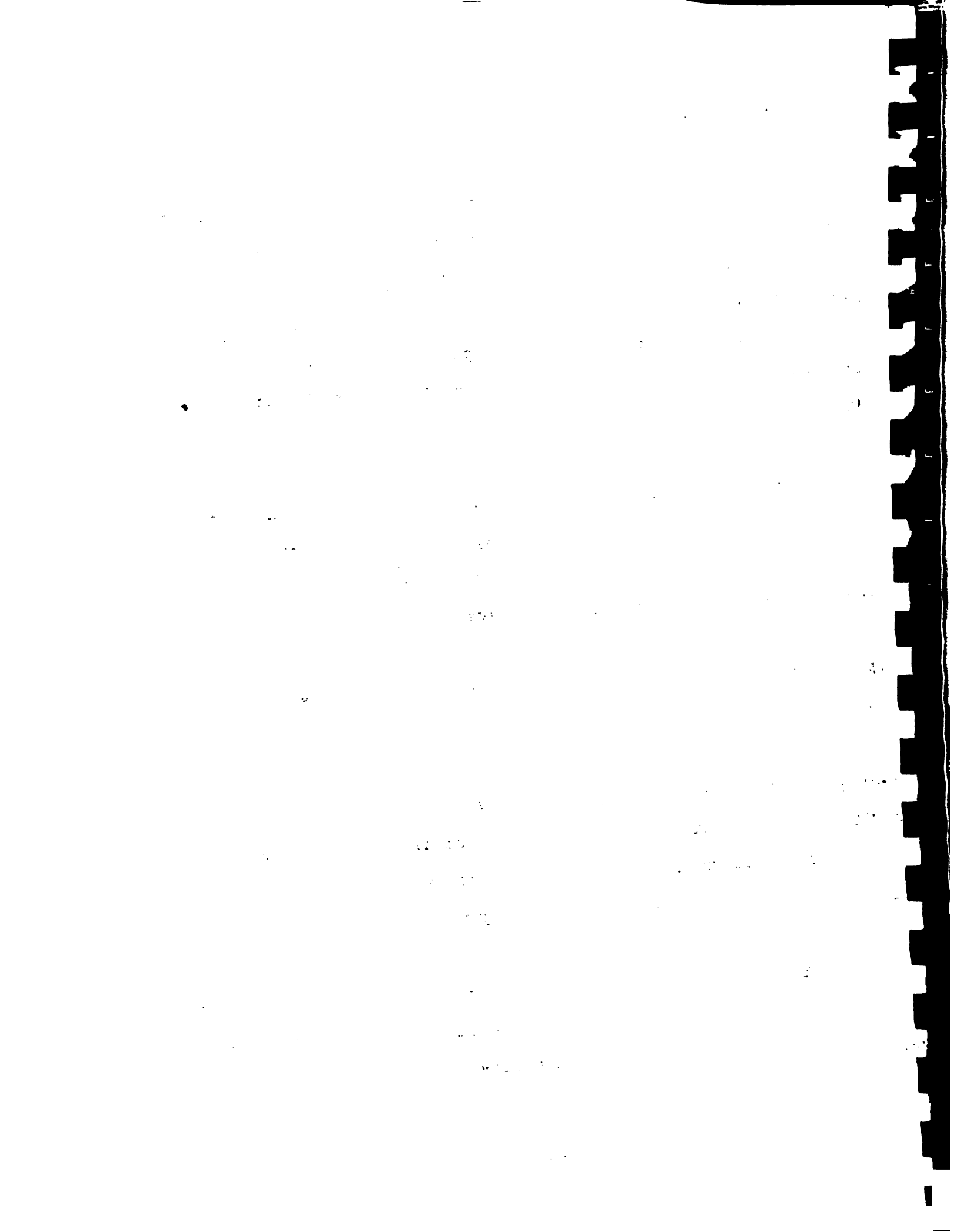


Figure C-2a

ANNUAL BUDGET FOR COPPER WITH INPUTS (2x1.5a = 3333 p/ha)
 4/3 = 132/3

A. Prod/Income	Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		Year 7		Year 8		Year 9		Year 10	
	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes	Yield/ Quantity	Total Cost Gourdes
B. Variable Costs Labor 132/3																				
Land Prep																				
Soles Prep	24 B/J	310	2	26																
Planting	15 "	195	2	26																
Soils Control																				
Weed Control	15 "	195	20	260	15	195	5	65	2	26	5	65	5	65	2	26	5	65	5	65
Pruning																				
Fertilizer Appl Chemical	4 "	52	4	52	4	52	4	52	4	52	4	52	4	52	4	52	4	52	4	52
Organic	4 "	52	4	52	4	52	8	104	8	104	8	104	8	104	8	104	8	104	8	104
Pesticides Appl	2 "	26	2	26	2	26	2	26	2	26	2	26	2	26	2	26	2	26	2	26
Harvesting																				
Banding																				
Transport	10 "	130	2	26			3	39	2	26	2	26	2	26	2	26	3	39	3	39
C. INPUT COST																				
Seedling (0.75gde)	3333	2499	666	499																
Seeds																				
Fertilizer Chemical (3.3gde/kg)	250 kg	825	250	825	250	825	250	825	250	825	250	825	250	825	250	825	250	825	250	825
Organic (0.30gde/kg)	1515	757	1515	757	2272	1136	3330	1515	3330	1515	3330	1515	3330	1515	3330	1515	3330	1515	3330	1515
Pesticides	1	50	1	50	1	50	1	50	1	50	1	50	1	50	1	50	1	50	1	50
Bag (Spines)							6	30	12	60	16	80	25	125	30	150	30	150	30	150
D. Fixed Cost Land		100		100		100		100		100		100		100		100		100		100
E. Total Cost		5191		2679		2436		3092		3356		3441		3551		3654		3654		3654
F. NET PROFIT		-5191		-2679		-2436		-1352		-1156		-361		409		746		746		746

* 20% Less
 ** 1.5 lbs/70ant
 *** 2 lbs/70ant



ENTERPRISE BUDGET FOR COFFEE WITHOUT DEFERS (Znl. 5a = 3333 pl/ha) No Fertilizer Chemical No Pesticides No Fertilizer Organic
 R/J = 12g/l

Prod/Income	Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		Year 7		Year 8		Year 9		Year 10	
	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes	Yield/ Quantity	Total Cost/ Gourdes
Land Prep																				
Roles Prep	24 R/J	310	2	26																
Planting	15 "	195	2	26																
Shade Control																				
Weed Control	15 "	195	20	260	15	195	5	65	5	65	5	65	5	65	5	65	5	65	5	65
Pruning																				
Fertilizer Appl Chemical																				
Organic																				
Pesticides Appl																				
Harvesting																				
Hand Labor																				
Transport	10 "	130	2	26																
IMPLT COST																				
Seedling (0.75gde)	3333	2499	666	499																
Seeds																				
Fertilizer																				
Organic (0.50gde/kg)																				
Pesticides																				
Bag (5gdes)																				
Fixed Cost Land																				
Total Cost																				
NET PROFIT																				



Figure C-2c

ENTERPRISE BUDGET FOR PLANTAIN WITH INPUTS (5.0x4.0m = 500 pl/ha)

1/2 = 13g/j

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
A. Prod/Income		P=60 = 300x20gdes = 6000gdes	P=50x250x20=5000 S=10x50x1 = 50 5050	P=50x250x20=5000 S=10x50x1 = 50 5050	P=25x125x20=2500 S=25x125x1 = 125 2625	P=25x125x20=2500 S=25x125x1 = 125 2625	P=10x50x20=1000 S=15x75x1 = 75 1075	P=10x50x20=1000 S=10x50x1 = 50 1050	P=10x50x20=1000 S=10x50x1 = 50 1050	P=0 S=0 0
B. Variable Costs										
Factor 13g/j										
Boles Prep	7	91								
Planting	5	65								
Shade Control										
Weed Control		5	65	5	65	5	65	5	65	5
Harvesting										
Fertilizer Appl										
Chemical										
Organic										
Pesticides Appl										
Harvesting		39	39	39	13	13	13	13	13	13
Handling										
INPUT COST										
Seedling (1gde/seed)	500									
Seeds										
Fertilizer Chemical (133kg/ha)	113									
Organic										
Pesticides	0.4	48								
Bag (5gdes)										
D. Fixed Cost Land	100	100	100	100	100	100	100	100	100	100
E. Total Cost	1242	243	230	230	191	191	191	191	191	139
F. NET PROFIT	-1242	5757	4920	4920	2434	2434	884	859	859	

• 1/2 lbs/plant



Figure C-2d

ENTREPRISE BUDGET FOR LIME WITH INPUTS (BEAUMONT) (50 pl/ha)

H/j = 13g/j

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
A. Prod/Income					50dc x 50=2500dc x 2gdes = 500gdes	100dc x 50=5000dc x 2gdes = 1000gdes	150dc x 50=7500dc x 2gdes = 1500gdes	150dc x 50=7500dc x 2gdes = 1500gdes	150dc x 50=7500dc x 2gdes = 1500gdes	150dc x 50=7500dc x 2gdes = 1500gdes
B. Variable Costs										
Labor 13g/j										
Land Prep										
Holes Prep	1	13								
Planting	1	13								
Shade Control										
Weed Control			39	39	39	39	39	39	39	39
Pruning										
Fertilizer Appl										
Chemical	1	13								
Organic										
Pesticides Appl										
Harvesting					2	4	6	6	6	6
Handling										
Total					2	4	4	4	4	4
INPUT COST										
Seedling (1gdc/seed)	50	250								
Seeds										
Fertilizer										
Chemical (133kg/ha)	11.4	36								
Organic										
Pesticides										
Bag (5gdes)										
Fixed Cost Land	100	100	100	100	100	100	100	100	100	100
E. Total Cost	438	438	139	139	228	343	394	394	394	394
F. NET PROFIT	-438	-139	-139	-139	272	757	1106	1106	1106	1106



Figure C-2e

EMPIRICAL BUDGET FOR COCONUT MID ALTITUDE WITH INPUTS (100 pl/ha)

W/J = 13g/j

400 - 780 H.S.H.H

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
A. Prod./Income	0	0	0	0	P=150u=1500x2=3000	P=40mu=4000x2=8000	P=40mu=4000x2=8000	P=40mu=4000x2=8000	P=40mu=4000x2=8000	P=40mu=4000x2=8000
B. Variable Costs										
Labor 13g/j										
Land Prep										
Solar Prep	2	0.5	6.5							
Planting	2									
Shade Control										
Weed Control		1	13	13	13	13	13	13	13	13
Pruning										
Fertilizer Appl	1	13	13	13	13	13	13	13	13	13
Chemical										
Organic										
Pesticides Appl	1	13								
Harvesting					3	7	7	7	7	7
Handling					4	10	10	10	10	10
Transport					6	16	16	16	16	16
C. INPUT COST										
Seedling (1gde/seed)	100	150								
Seeds										
Fertilizer	22.7	22.7	75	320	400	480	480	480	480	480
Chemical (113kg/ha)										
Organic										
Pesticides	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bag (5gdes)					30	80	80	80	80	80
D. Fixed Cost Land	100	100	100	100	100	100	100	100	100	100
E. Total Cost	1801	380	391	471	870	1460	1460	1460	1460	1460
F. NET PROFIT	-1801	-380	-391	-471	2130	6540	6540	6540	6540	6540

Fertilizer : 0.75 kg/P
 .. 1 kg/P
 ... 1.25 kg/P
 1.5 kg/P





Using the enterprise budgets as input to the benefit/cost analysis, the economic viability of the proposed cropping systems was determined in collaboration with Dr. Donald Osburn, using the IDB CBDrive program obtained from IICA Jamaica.

For each crop mix (see Table C-8, below) the total benefits and costs from each component crop were entered, and the internal rate of return (IRR) parameter was calculated. Two separate iterations were run. One determined the IRRs at the farm gate, the second determined the IRR for the entire project, which includes the costs of technical assistance and support.

Figure C-3/a-d presents the entire printout from selected benefit/cost analyses. Figures C-3/a-c present the entire project IRR for the cropping mixes a) coffee without inputs, annual crops, plantain and citrus; b) coffee with inputs, annual crops, plantain, citrus and coconut; and c) coffee without inputs, annual crops, plantain, citrus and coconut, respectively. Figure C-3d presents an example farm level IRR for the crop mix coffee with inputs, annual crops, plantain, citrus and coconut. Additional benefit/cost analyses and enterprise budgets are available for consultation at the IICA office. Table C-8 presents only the IRRs for the printouts provided in Figure C-3/a-d.

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Figure C-3a
PROJECT IRR FOR CROPPING MIX:
COFFEE WITHOUT INPUTS; ANNUAL CROPS, PLANTAIN AND LIME

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
ROW/NO.	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	COFFEE	PLANTAIN	LIME	PLANTAIN	LIME	PLANTAIN	LIME	PLANTAIN	LIME	PLANTAIN	LIME	PLANTAIN	LIME	PLANTAIN	LIME	PLANTAIN	LIME
	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52	1000/52
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	4626	6987	5137	6237	4312	4812	3762	4237	4737	4471	4471	4471	4471	4471	4471	4471
15	0	16319	16319	472	472	472	472	472	472	472	472	472	472	472	472	472	472
16	0	6387	1154	354	470	621	736	813	890	967	915	915	915	915	915	915	915
17	0	22706	17472	826	942	1093	1208	1285	1362	1439	1387	1387	1387	1387	1387	1387	1387
18	0	-18080	-18466	4311	5255	3219	3604	2477	2875	3298	3084	3084	3084	3084	3084	3084	3084
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	6000	5050	5050	6625	2625	1075	1050	1050	0	0	0	0	0	0	0
25	0	0	0	0	0	500	1000	1500	2000	2500	2500	2500	2500	2500	2500	2500	2500
26	0	900	900	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	625	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	1014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
31	0	4626	6987	5137	6237	4312	4812	3762	4237	4737	4471	4471	4471	4471	4471	4471	4471
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472
34	0	15847	15847	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	16319	16319	472	472	472	472	472	472	472	472	472	472	472	472	472	472
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	329	637	195	311	402	402	402	402	402	402	402	402	402	402	402	402
38	0	1142	143	130	130	91	91	91	91	91	39	39	39	39	39	39	39
39	0	438	29	29	29	128	243	320	397	474	474	474	474	474	474	474	474
40	0	365	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	719	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	403	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	6387	1154	354	470	621	736	813	890	967	915	915	915	915	915	915	915



Figure C-3b
PROJECT IRR FOR CROPPING MIX:
COFFEE WITH INPUTS, ANNUAL CROPS, PLANTAIN, CITRUS AND COCONUT

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	HOUSEHOLD	COST/BENEFIT ANALYSIS	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52	10/66/52
4 Titulos Escudo... - (ALT) (A) Ayuda para usar el modelo. - (ALT) (Y)																		
5 English Titles... - (ALT) (Y) Help to use model..... - (ALT) (Y)																		
7 I CASH FLOW CONVENTION (END OF YEAR)																		
8 YEAR.....																		
9																		
10 BENEFITS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 INVESTMENT COSTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 OPERATING COSTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13																		
14 TOTAL BENEFITS	0	4626	6987	5137	6677	8412	1-79:	8412	1-79:	14622	13537	16037	15771	15771	15771	15771	15771	15771
15 TOTAL INVESTMENT COSTS	0	16319	16319	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472
16 TOTAL OPERATING COSTS	0	9850	3196	2786	3522	4245	5235	4245	5235	5222	5402	5479	5427	5427	5427	5427	5427	5427
17 TOTAL NET COSTS	0	28169	19515	3258	3994	4717	5707	5694	5874	5851	5899	5899	5899	5899	5899	5899	5899	5899
18																		
19 NET CASH FLOW	0	-21943	-12528	1879	2863	3695	9085	3695	9085	8928	9663	10886	9872	9872	9872	9872	9872	9872
20																		
21 QND/YEAR.....	-0-	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-15-	-15-
22																		
23																		
24 BENEFITS.	0	0	0	0	1540	2200	3280	2200	3280	3850	4400	4400	4400	4400	4400	4400	4400	4400
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41 QND/YEAR.....	-0-	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-15-	-15-
42																		
43																		
44 INVEST. CD	0	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472
45																		
46																		
47																		
48																		
49 TOTALS/TOTAL	0	16319	16319	472	472	472	472	472	472	472	472	472	472	472	472	472	472	472
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Figure C-3d
 FARM LEVEL IRR FOR CROPPING MIX:
 COFFEE WITH INPUTS, ANNUAL CROPS, PLANTAIN, CITRUS AND COCONUT

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ROW/NAME = CODELINE	C	D	E	F	H	I	J	K	L	M	N	O	P	Q	R	S
					10/05/78		COFFEE	INPUTS	PLANTAIN	LIME	COCONUT					BEAUMONT
4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	0	439	690	5059	6580	8325	14765	14535	15450	15850	14900	14900	14900	14900	14900
15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1	0	9650	3196	2786	3522	4345	5235	5222	5402	5479	5427	5427	5427	5427	5427
17	1	0	9650	3196	2786	3522	4245	5235	5222	5402	5479	5427	5427	5427	5427	5427
18	1	0	-5311	3764	2664	3068	4080	9470	5313	18048	18471	9473	9473	9473	9473	9473
19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	1	0	0	0	1540	2200	3080	3580	4400	4400	4400	4400	4400	4400	4400	4400
24	1	0	0	6000	5050	8625	2825	1075	1050	1050	0	0	0	0	0	0
25	1	0	0	0	0	500	1000	1500	2000	2500	2500	2500	2500	2500	2500	2500
26	1	0	0	0	0	0	3000	8000	8000	8000	8000	8000	8000	8000	8000	8000
27	1	0	900	900	0	0	0	0	0	0	0	0	0	0	0	0
28	1	0	8525	0	0	0	0	0	0	0	0	0	0	0	0	0
29	1	0	1014	0	0	0	0	0	0	0	0	0	0	0	0	0
30	1	0	439	690	5059	6580	8325	14765	14535	15450	15850	14900	14900	14900	14900	14900
31	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	1	0	5091	2599	2336	4592	3256	3451	3451	3554	3554	3554	3554	3554	3554	3554
33	1	0	1142	143	130	120	91	91	91	91	91	91	91	91	91	91
34	1	0	438	29	29	128	243	320	397	474	474	474	474	474	474	474
35	1	0	1701	280	291	371	770	1566	1360	1360	1360	1360	1360	1360	1360	1360
36	1	0	385	145	0	0	0	0	0	0	0	0	0	0	0	0
37	1	0	710	0	0	0	0	0	0	0	0	0	0	0	0	0
38	1	0	443	0	0	0	0	0	0	0	0	0	0	0	0	0
39	1	0	9659	3196	2786	3522	4245	5235	5222	5402	5479	5427	5427	5427	5427	5427
40	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table C-8: Internal Rates of Returns of Farming System Alternatives at Project and Farm Gate levels

	Coffee (no inputs) Plantain Corn/Beans Citrus A	Coffee (inputs) Plantain Corn/Beans Citrus/ Coconut B	Coffee (no inputs) Plantain Corn/Beans Citrus/ Coconut C
Project IRR	6.5	15.2	19.4
Farm Gate IRR	227	65	127

TECHNOLOGY TRANSFER METHODOLOGY

Although technology development and transfer are proven instruments for increasing agricultural productivity, it appears as if this approach has not been overly successful within the Haitian coffee subsector during the past 25 years. At present, it is estimated that only 5% of the Haitian coffee farmers actually use improved coffee production technology thus achieving yields as high as 1000 kg/ha (mainly in the Thiote area). The national average varies around 250 kg/ha.

There are two possible explanations for this apparent failure. First, most previous development efforts in the coffee subsector have concentrated on cooperative institution

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. This section also touches upon the legal implications of failing to maintain such records, which can lead to severe consequences for individuals and organizations alike.

2. The second part of the document delves into the specific requirements for record-keeping, including the types of documents that must be retained and the duration for which they should be kept. It provides a detailed overview of the various categories of records, such as financial statements, contracts, and correspondence, and outlines the best practices for organizing and storing these documents to ensure they are easily accessible when needed.

3. The third part of the document addresses the challenges associated with record-keeping, such as the volume of data generated and the risk of data loss or corruption. It offers practical solutions and strategies to overcome these challenges, including the use of secure digital storage systems and regular data backups. Additionally, it discusses the importance of training staff on proper record-keeping procedures to ensure consistency and accuracy throughout the organization.

4. The final part of the document provides a summary of the key points discussed and offers concluding remarks on the overall importance of record-keeping. It reiterates that maintaining accurate records is not just a legal obligation but also a fundamental aspect of good business practice that can contribute to the long-term success and stability of any organization.

building and/or marketing, rather than production. Although new coffee varieties and recommendations for fertilizer and other improved management techniques have been introduced, they have not been the major emphasis of an extension effort, or not fully supported via a comprehensive technology transfer program. Second, as previously noted, part of the technology transfer process entails identifying, and addressing, other factors which function as constraints to the adoption of the technology.

The more comprehensive farming systems approach currently being proposed by IICA, and the expansion of PPK into the domain of coffee processing and marketing, combined with all the original components of PPK (Participation/ Community Organization; Research/ Technology Validation; and Credit), will allow the project to address virtually the entire spectrum of the coffee subsector in Haiti for the two targeted zones. (NB - continuation of project activities in both original target zones, or even more, is important to provide a countercheck on the models and technologies being developed and transferred; what works in one area, may well require modifications to be accepted in another.) Perhaps the only significant factor not directly addressed by the redesigned PPK is the issue of land tenure. While this issue is known to be extremely important with regard to the adoption of agricultural technologies (especially those dealing with long-term perennial crop systems) it is as

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in enhancing data management and analysis. It discusses the benefits of using cloud-based storage solutions and data visualization tools to improve the efficiency and effectiveness of the data analysis process.

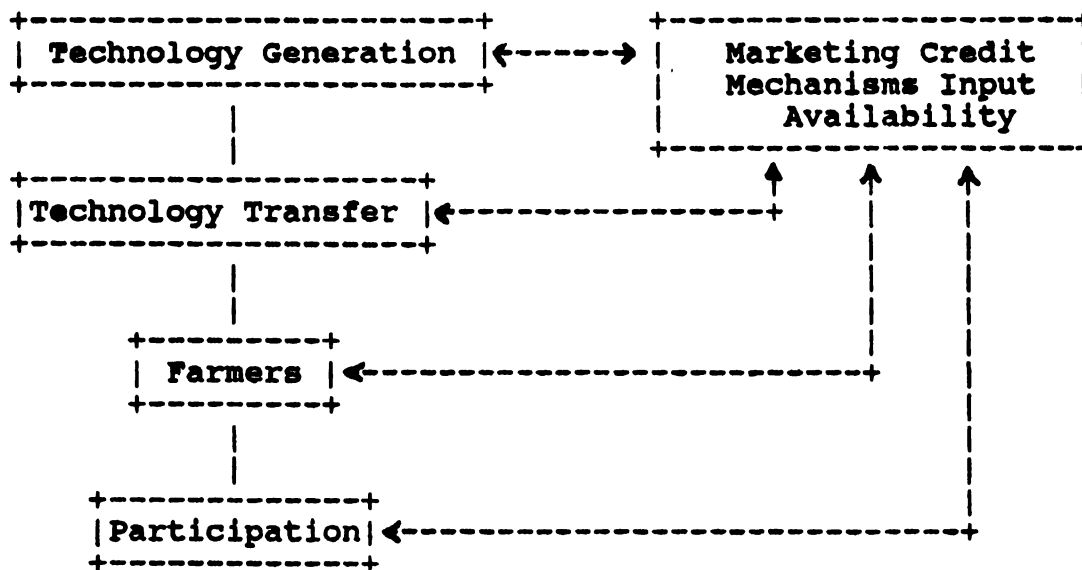
4. The fourth part of the document addresses the challenges associated with data security and privacy. It provides recommendations for implementing robust security measures and ensuring compliance with relevant data protection regulations.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that the data analysis process remains effective and up-to-date.

extremely complex issue which is beyond the scope of project level intervention. Land tenure was addressed in the Baseline Study, and the information from this study can be used to evaluate the adoption of project technologies as influenced by the type of land holding.

1. Technology Transfer Flowchart.

The experience accumulated by IICA in the development of its Technology Generation and Transfer Program (Program II) throughout its member countries, and PROMECAFE (Coffee Improvement program for Central America and the Dominican Republic) has resulted in the following process flowchart for Technology Transfer:



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Note that each component within the process is linked via bi-directional arrows. This underscores that the process is iterative and has a constant feedback mechanism. The individual steps which are addressed by each component, i.e., the activities required and the methodologies employed, are presented below, commencing with the needs of the farmer clients.

a. Farmers.

a.1. Problem Identification.

It is vital to the process that the real needs and problems as perceived by the farmers are identified, as well as the constraints with which they must deal.

b. Methodologies.

At this stage (consolidation) of PPK, the identification of problems has been accomplished by:

b.1. Analysis of the Baseline Study.

b.2. Regular meetings and direct access to communications with, and technical assistance from, the formateurs. Because of monthly reporting requirements, the problems identified via these mechanisms have been transmitted to the highest levels of PPK project management.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud. The text notes that without reliable records, it would be difficult to track the flow of funds and identify any irregularities.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps involved in entering data into the system, including the use of standardized codes and the requirement for double-checking entries. The text also discusses the importance of regular audits and reconciliations to ensure that the records are up-to-date and accurate.

3. The third part of the document addresses the issue of data security. It highlights the need for robust security measures to protect sensitive financial information from unauthorized access and theft. The text discusses the use of encryption, firewalls, and other security protocols to safeguard the data and ensure its confidentiality.

4. The fourth part of the document discusses the role of technology in modern financial record-keeping. It explores the benefits of using automated systems and software to streamline the recording process and reduce the risk of human error. The text also mentions the importance of staying up-to-date with the latest technological advancements in the field.

2. Technology Identification & Generation.

a. Based on analysis of the identified problems and constraints, PPK technical staff and consultants have identified the coffee-based cropping systems technology package described in Section 4 of this Annex. The methodologies employed for the development of this package included interdisciplinary team discussions; input by specialized consultants; review of pertinent literature; visits to similar projects in the Dominican Republic, Jamaica, Guatemala, Costa Rica, and Honduras; and benefit/cost analyses.

b. Certain aspects of the technology package require further refinement based on actual field studies. These are presented in the Technology Validation annex, along with the methodologies which will be used for this Technology Generation activity. Note that farmer involvement in the validation trials, and the subsequent site visits organized to present the results to other farmers, constitutes a direct method of technology transfer.

3. Participation, Credit Mechanisms, Input Availability.

a. Communications between project staff and farmer clients is absolutely vital for successful Technology Transfer. The PPK Organization Chart (Chapter 5) presents the PPK staffing

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pattern and the number of project staff at each hierarchical level. At the level of direct farmer contact, the ratio of Technology Transfer Formateurs to farmers is 1:40. In terms of extension systems, this is considered a high level of personal contact. Lower ratios (i.e., more intensive) begin to approach an inefficient use of project personnel. Communications are further enhanced because farmers are organized into groups. Dialogue within these groups serves to reiterate messages and consensus decisions derived during Formateur led meetings. Details of methodologies used to animate and motivate farmers in the participation aspect of Technology Transfer are presented in above section and Annex A.

b. Access to Credit has long been known to limit adoption of higher input technologies, and this was underscored by both the Baseline Study and the benefit/cost analyses conducted during the Technology Identification exercise. Credit delivery systems have proven to be problematical in Haiti, and this was also true for the mechanism originally programmed for PPK during the initiation phase. The mechanism proposed in this redesigned PPK (i.e., the development of farmer-managed community banks using the FINCA and/or CRLF models) has already been successfully tested in Beaumont, and will be expanded during this PPK Consolidation Phase. Methodological details are presented in Section 4.1.5 and Annex D.

The following table shows the results of the experiment. The first column is the number of trials, the second column is the number of correct responses, and the third column is the percentage of correct responses. The fourth column is the number of errors, and the fifth column is the percentage of errors. The sixth column is the number of omissions, and the seventh column is the percentage of omissions. The eighth column is the number of correct responses per trial, and the ninth column is the percentage of correct responses per trial. The tenth column is the number of errors per trial, and the eleventh column is the percentage of errors per trial. The twelfth column is the number of omissions per trial, and the thirteenth column is the percentage of omissions per trial.

Trial	Correct	% Correct	Errors	% Errors	Omissions	% Omissions	Correct/Trial	% Correct/Trial	Errors/Trial	% Errors/Trial	Omissions/Trial	% Omissions/Trial
1	1	100	0	0	0	0	1	100	0	0	0	0
2	1	100	0	0	0	0	1	100	0	0	0	0
3	1	100	0	0	0	0	1	100	0	0	0	0
4	1	100	0	0	0	0	1	100	0	0	0	0
5	1	100	0	0	0	0	1	100	0	0	0	0
6	1	100	0	0	0	0	1	100	0	0	0	0
7	1	100	0	0	0	0	1	100	0	0	0	0
8	1	100	0	0	0	0	1	100	0	0	0	0
9	1	100	0	0	0	0	1	100	0	0	0	0
10	1	100	0	0	0	0	1	100	0	0	0	0
11	1	100	0	0	0	0	1	100	0	0	0	0
12	1	100	0	0	0	0	1	100	0	0	0	0
13	1	100	0	0	0	0	1	100	0	0	0	0
14	1	100	0	0	0	0	1	100	0	0	0	0
15	1	100	0	0	0	0	1	100	0	0	0	0
16	1	100	0	0	0	0	1	100	0	0	0	0
17	1	100	0	0	0	0	1	100	0	0	0	0
18	1	100	0	0	0	0	1	100	0	0	0	0
19	1	100	0	0	0	0	1	100	0	0	0	0
20	1	100	0	0	0	0	1	100	0	0	0	0
21	1	100	0	0	0	0	1	100	0	0	0	0
22	1	100	0	0	0	0	1	100	0	0	0	0
23	1	100	0	0	0	0	1	100	0	0	0	0
24	1	100	0	0	0	0	1	100	0	0	0	0
25	1	100	0	0	0	0	1	100	0	0	0	0
26	1	100	0	0	0	0	1	100	0	0	0	0
27	1	100	0	0	0	0	1	100	0	0	0	0
28	1	100	0	0	0	0	1	100	0	0	0	0
29	1	100	0	0	0	0	1	100	0	0	0	0
30	1	100	0	0	0	0	1	100	0	0	0	0
31	1	100	0	0	0	0	1	100	0	0	0	0
32	1	100	0	0	0	0	1	100	0	0	0	0
33	1	100	0	0	0	0	1	100	0	0	0	0
34	1	100	0	0	0	0	1	100	0	0	0	0
35	1	100	0	0	0	0	1	100	0	0	0	0
36	1	100	0	0	0	0	1	100	0	0	0	0
37	1	100	0	0	0	0	1	100	0	0	0	0
38	1	100	0	0	0	0	1	100	0	0	0	0
39	1	100	0	0	0	0	1	100	0	0	0	0
40	1	100	0	0	0	0	1	100	0	0	0	0
41	1	100	0	0	0	0	1	100	0	0	0	0
42	1	100	0	0	0	0	1	100	0	0	0	0
43	1	100	0	0	0	0	1	100	0	0	0	0
44	1	100	0	0	0	0	1	100	0	0	0	0
45	1	100	0	0	0	0	1	100	0	0	0	0
46	1	100	0	0	0	0	1	100	0	0	0	0
47	1	100	0	0	0	0	1	100	0	0	0	0
48	1	100	0	0	0	0	1	100	0	0	0	0
49	1	100	0	0	0	0	1	100	0	0	0	0
50	1	100	0	0	0	0	1	100	0	0	0	0
51	1	100	0	0	0	0	1	100	0	0	0	0
52	1	100	0	0	0	0	1	100	0	0	0	0
53	1	100	0	0	0	0	1	100	0	0	0	0
54	1	100	0	0	0	0	1	100	0	0	0	0
55	1	100	0	0	0	0	1	100	0	0	0	0
56	1	100	0	0	0	0	1	100	0	0	0	0
57	1	100	0	0	0	0	1	100	0	0	0	0
58	1	100	0	0	0	0	1	100	0	0	0	0
59	1	100	0	0	0	0	1	100	0	0	0	0
60	1	100	0	0	0	0	1	100	0	0	0	0
61	1	100	0	0	0	0	1	100	0	0	0	0
62	1	100	0	0	0	0	1	100	0	0	0	0
63	1	100	0	0	0	0	1	100	0	0	0	0
64	1	100	0	0	0	0	1	100	0	0	0	0
65	1	100	0	0	0	0	1	100	0	0	0	0
66	1	100	0	0	0	0	1	100	0	0	0	0
67	1	100	0	0	0	0	1	100	0	0	0	0
68	1	100	0	0	0	0	1	100	0	0	0	0
69	1	100	0	0	0	0	1	100	0	0	0	0
70	1	100	0	0	0	0	1	100	0	0	0	0
71	1	100	0	0	0	0	1	100	0	0	0	0
72	1	100	0	0	0	0	1	100	0	0	0	0
73	1	100	0	0	0	0	1	100	0	0	0	0
74	1	100	0	0	0	0	1	100	0	0	0	0
75	1	100	0	0	0	0	1	100	0	0	0	0
76	1	100	0	0	0	0	1	100	0	0	0	0
77	1	100	0	0	0	0	1	100	0	0	0	0
78	1	100	0	0	0	0	1	100	0	0	0	0
79	1	100	0	0	0	0	1	100	0	0	0	0
80	1	100	0	0	0	0	1	100	0	0	0	0
81	1	100	0	0	0	0	1	100	0	0	0	0
82	1	100	0	0	0	0	1	100	0	0	0	0
83	1	100	0	0	0	0	1	100	0	0	0	0
84	1	100	0	0	0	0	1	100	0	0	0	0
85	1	100	0	0	0	0	1	100	0	0	0	0
86	1	100	0	0	0	0	1	100	0	0	0	0
87	1	100	0	0	0	0	1	100	0	0	0	0
88	1	100	0	0	0	0	1	100	0	0	0	0
89	1	100	0	0	0	0	1	100	0	0	0	0
90	1	100	0	0	0	0	1	100	0	0	0	0
91	1	100	0	0	0	0	1	100	0	0	0	0
92	1	100	0	0	0	0	1	100	0	0	0	0
93	1	100	0	0	0	0	1	100	0	0	0	0
94	1	100	0	0	0	0	1	100	0	0	0	0
95	1	100	0	0	0	0	1	100	0	0	0	0
96	1	100	0	0	0	0	1	100	0	0	0	0
97	1	100	0	0	0	0	1	100	0	0	0	0
98	1	100	0	0	0	0	1	100	0	0	0	0
99	1	100	0	0	0	0	1	100	0	0	0	0
100	1	100	0	0	0	0	1	100	0	0	0	0

e. The availability of, and access to, the inputs required for the recommended technology package are a necessary step to address in the transfer of the technology. During the Initiation Phase of PPK, nursery production and management technologies were successfully transferred to farmer groups. This aspect of the technology transfer program will be continued in the Consolidation Phase, and expanded to address the other plant materials. Other inputs, e.g., fertilizers, will be facilitated through community organization already in-place, and supported via the Credit program.

4. Technology Transfer

The actual process of Technology Transfer, in addition to the necessary linkages between Technology Identification, Participation, and the Farmer clients, is essentially that of training and agricultural extension. The following methods will be employed to accomplish Technology Transfer:

a. Preparation of Training Seminars and Support Materials.

For each topic to be covered, the training program must be prepared in a logical sequence to convey the message and answer the specific questions of why, when, and how. It is especially important to devise training seminar outlines in a

manner that they solicit interactive participation by the farmers, rather than a direct lecture mode. Similarly, visual support materials must be designed in advance and be made available to the formateurs. It is understood that, via the hierarchy of PPK project staff, that formateurs are also trained to train the farmers.

b. Oral Training Sessions

Given the literacy rate of rural farmers, oral techniques constitute the predominant training methodology. These include the scheduled training sessions, as well as informal "ti kose" (chats), and direct technical assistance provided by periodic formateur visits to farmer fields. Visual aides are used as appropriate. Radio extension constitutes another oral training method more fully described below. Table C-9 summarizes the general topics which will be covered during oral training seminars.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in enhancing data management and analysis. It discusses the benefits of using cloud-based storage solutions and data visualization tools to improve the efficiency and effectiveness of the data analysis process.

4. The fourth part of the document addresses the challenges associated with data management and analysis. It identifies common issues such as data quality, data security, and data integration, and provides strategies to overcome these challenges.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It emphasizes the importance of ongoing monitoring and evaluation to ensure that the data management and analysis processes remain effective and up-to-date.

Table C-9 Technology Transfer Training: Topics and Years

<u>TOPIC</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>
1. Coffee: Management of New Plantation	x	x	x
2. Coffee Shading and Pruning	x	x	x
3. Coffee Pest and Disease Control	x	x	x
4. Coffee Harvesting and Processing	x	x	x
5. Artisanal Compost and Neem Insecticide Production	x	x	x
6. Corn Production	x	x	
7. Bean and Pigeon Pea Production	x	x	
8. Plantain Production	x	x	
9. Coconut and Citrus Production	x	x	
10. Seed Selection and Nursery Production	x	x	
11. Soil Conservation and Environmental Protection	x	x	x
TOTAL TOPIC/YEAR	11	11	6

This table shows the number of selected topics that will be taught to the field personal and farmers in two pilot zones during the life of the project.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in enhancing data management and analysis. It discusses the benefits of using cloud-based storage solutions and data visualization tools to improve the efficiency and effectiveness of the data analysis process.

4. The fourth part of the document addresses the challenges associated with data management and analysis. It identifies common issues such as data quality, data security, and data integration, and provides strategies to overcome these challenges.

5. The fifth part of the document discusses the importance of data governance and compliance. It emphasizes the need for clear policies and procedures to ensure that data is managed and used in a responsible and ethical manner, and that the organization remains compliant with relevant regulations and standards.

6. The sixth part of the document concludes by summarizing the key findings and recommendations. It reiterates the importance of a data-driven approach to decision-making and provides a call to action for the organization to continue to improve its data management and analysis practices.

c. Written Training Support Materials ("Ti Livs")

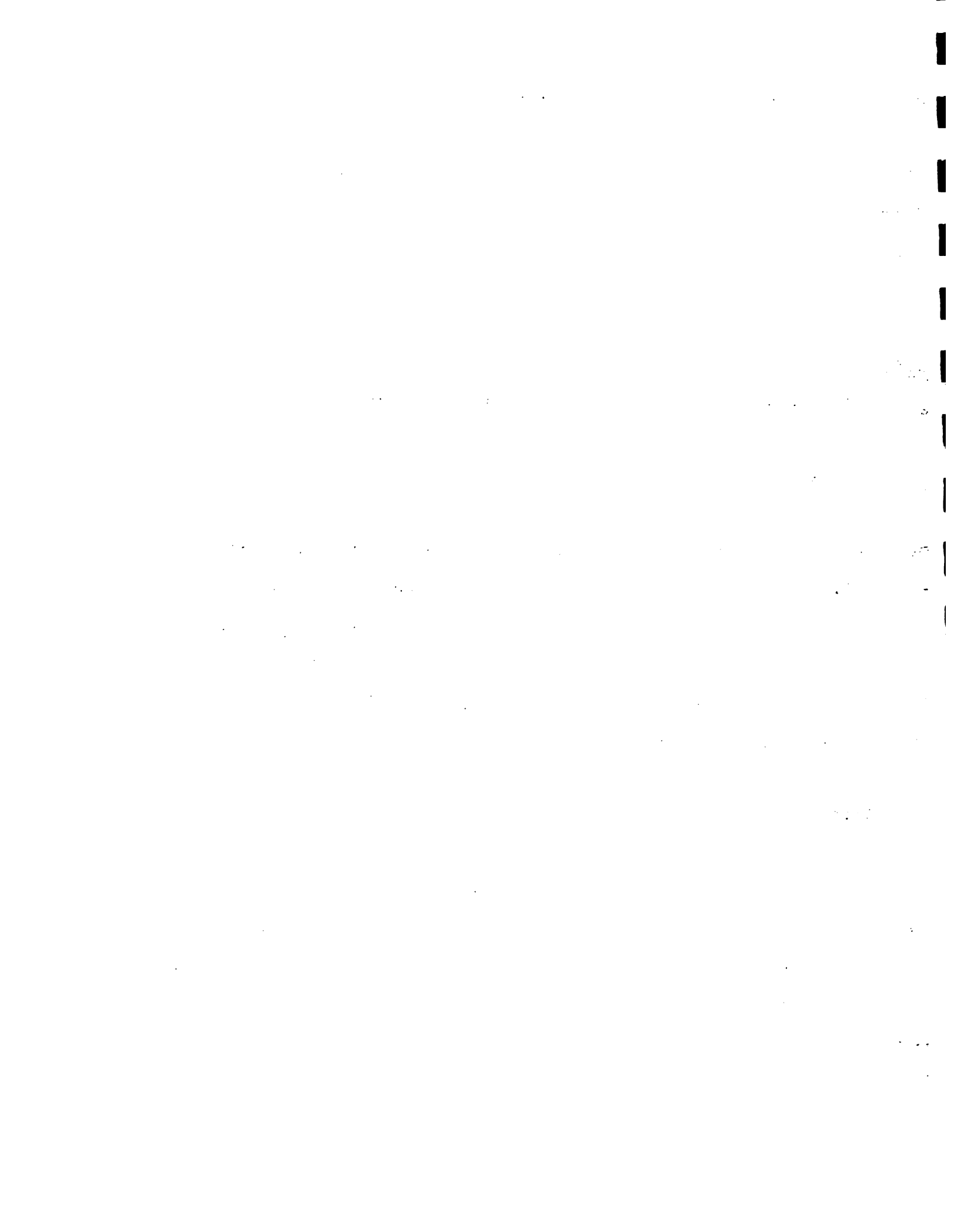
Although overall literacy is low, there are certainly many farmers (or their children) who can read and write. It is well known that written materials are well conserved by the recipients, and are shared amongst themselves, further expanding the transfer of technology. PPK has already prepared two extension booklets, and others will be prepared as appropriate for the Technology Transfer process.

d. Demonstrations

Demonstrations as a technology transfer tool can be accomplished in two manners. The first is the establishment of demonstration plots, which are co-managed by both the farmer and the project. The second is actual demonstration of a technique in a setting which allows participating farmers to acquire hands-on practice.

e. Site Visits/Field Trips

Pre-arranged and organized visits by farmers from one locality to another have proven to be an extraordinary Technology Transfer tool in Haiti. While there may always be some doubt as to messages conveyed by project-paid technical staff, facilitating farmers from one area to interact directly with farmers from another (in essence the host



farmer conducts the training) and to ask questions and receive answers from their direct peers, has proven to be extremely effective.

f. Validation Trials

As described in Annex B, Validation Trials are a special category of demonstration plots, which, although implemented by participating farmers, have additional project staff supervision in order to assure that the protocols are followed and all data are collected accurately. For these participating farmers, and others involved or paying close attention throughout the process, the trial and its analyzed results constitute technology transfer. The Validation trial also has value as an additional demonstration plot to which visits by farmer groups can be organized by the Formateur.

g. Radio Extension

Although radio extension is a form of oral training, it will serve two specialized roles in PPK. The first will be to reinforce all technical messages conveyed by the project. The second will be to inform the local populace concerning any information which might aid them with the management (e.g., reminders to apply fertilizer, where it is available and at what price) and the marketing (local and regional price information) of their agricultural products. The radio

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extension will expand the Technology Transfer of PPK to a national audience (see Table C-10).

Table C-10 Radio Broadcasting/PPK Program

RADIO STATIONS	BROADCASTING DAYS	LISTENING TIME	FREQUENCY	AREA COVERED
Radio Soleil	Mon-Wed-Fri.	8:00-8:15AM	1170AM	Entire Country
Radio Nationale	Tues-Thur-Sat	5:00-5:15AM	1400AM	Entire Country
Radio 4VEH	Wed-Fri-Sun	6:00-6:15PM	92FM	North-South Center
Radio Express	Mon-Wed-Thur.	2:30-2:45PM	1200AM	Southeast
Radio Lumiere	Sat-Sun.	6:00-6:15AM	700AM	Entire Country

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support effective decision-making.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and reporting, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that data is used responsibly and ethically.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that data management practices remain effective and aligned with the organization's goals.

6. The final part of the document provides a list of references and resources for further reading. It includes links to relevant articles, books, and industry reports that offer additional insights into data management best practices.

7. The document also includes a section on the future of data management, discussing emerging trends such as artificial intelligence, big data, and cloud computing. It offers perspectives on how these technologies will shape the way organizations manage and utilize their data in the coming years.

Detailed information on the operations of the radio extension program is presented in Table C.11: Media Activities.

Table C-11 MEDIA ACTIVITIES

The Media Activities have been developed according to the following 8 step strategy:

1. Analysis of the socio-cultural environment

- Audience research has been done to establish characteristics of the basic cultures.
- Religions in broadcast areas, their distribution and attitude
- Levels of education among listeners
- Social and economic characteristics of listeners
- Estimated number of radios and distribution by geographic areas
- Areas covered by broadcast stations
- Audience listening habits derived from surveys
- Sex of targetted listeners

2. Definition of clientele

- Identification of targeted communities
- Interviews of possible participants to have clear
 - Audience's preoccupations
 - Audience's preferences
 - Audience's desire to participate

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support informed decision-making.

3. The third part of the document focuses on the role of technology in modern data management. It discusses how advanced software solutions can streamline data collection, storage, and analysis, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It stresses the importance of implementing robust security measures to protect sensitive information from unauthorized access and breaches.

5. The fifth part of the document explores the ethical implications of data collection and analysis. It discusses the need for transparency in data handling practices and the importance of obtaining informed consent from individuals whose data is being collected.

6. The sixth part of the document provides a summary of the key findings and recommendations. It reiterates the importance of a data-driven approach and the need for continuous improvement in data management practices.

7. The final part of the document concludes with a call to action, encouraging all stakeholders to embrace a culture of data-driven decision-making and to work together to achieve the organization's strategic goals.

3. Occupation of time frame

- What are the most popular programs
- What are the sizes of the audiences at different times
- Adequate broadcast time chosen

4. Acquisition, processing, and storage of relevant coffee information to be broadcast

Basic PROMECAFE information was adapted for radio programs.

5. Definition of cooperation domains and modalities

Contact was established with local institutions to determine the extent of cooperation available such as: being in charge of contacting radio stations for program broadcast, assistance in selection of themes and/or modifications of certain programs.

6. Production of adapted broadcast materials

Types of programs to be produced were determined jointly with farmers and local institutions

- Planning, writing, and developing programs that are to be broadcast
- Devising, planning, and arranging for guest appearances in programs such as: farmer leaders, coffee experts.
- Devising, planning, writing, and developing spot announcements to:
 - a. Sell new ideas

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and processing, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure throughout its lifecycle.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of a data-driven approach in decision-making and the need for continuous monitoring and improvement of the data management process.

3. Occupation of time frame

- What are the most popular programs
- What are the sizes of the audiences at different times
- Adequate broadcast time chosen

4. Acquisition, processing, and storage of relevant coffee information to be broadcast

Basic PROMECAFE information was adapted for radio programs.

5. Definition of cooperation domains and modalities

Contact was established with local institutions to determine the extent of cooperation available such as: being in charge of contacting radio stations for program broadcast, assistance in selection of themes and/or modifications of certain programs.

6. Production of adapted broadcast materials

Types of programs to be produced were determined jointly with farmers and local institutions

- Planning, writing, and developing programs that are to be broadcast
- Devising, planning, and arranging for guest appearances in programs such as: farmer leaders, coffee experts.
- Devising, planning, writing, and developing spot announcements to:
 - a. Sell new ideas

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for ensuring transparency and accountability in financial operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the challenges and risks associated with data management. It identifies common pitfalls such as data loss, corruption, and unauthorized access, and provides strategies to mitigate these risks through robust security measures and backup protocols.

4. The fourth part of the document discusses the role of technology in modern data management. It explores how cloud computing, big data analytics, and artificial intelligence are transforming the way organizations handle their data, offering both opportunities and challenges.

5. The fifth part of the document addresses the legal and ethical considerations surrounding data collection and use. It stresses the importance of obtaining proper consent from individuals and ensuring that data is used in a manner that complies with applicable laws and regulations.

6. The sixth part of the document provides a detailed overview of the data lifecycle, from initial collection to final disposal. It outlines the key stages and best practices for each stage to ensure the integrity and security of data throughout its entire lifespan.

7. The seventh part of the document discusses the importance of data governance and the role of a data governance framework. It explains how a well-defined framework can help organizations establish clear policies, roles, and responsibilities for data management.

8. The eighth part of the document focuses on the importance of data quality and the impact of poor data quality on decision-making. It provides strategies for identifying and addressing data quality issues, such as data cleansing and validation processes.

9. The ninth part of the document discusses the role of data in driving business growth and innovation. It highlights how data-driven insights can help organizations identify new market opportunities, optimize their operations, and develop innovative products and services.

10. The tenth part of the document provides a concluding summary of the key points discussed throughout the document. It reiterates the importance of a comprehensive data management strategy and the need for ongoing monitoring and improvement.

- b. Inform listeners
- c. Promote new techniques
- d. Convince farmers of truth of viewpoint or policy of PPK
- e. Reach farmers
- f. Urge action (What's to be done about rust, soil erosion where coffee stands are being eliminated).

7. Evaluation and adjustment of programs

Joint evaluation with farmers every 6 months of effectiveness of programs (language, quality, value, relevancy and others)

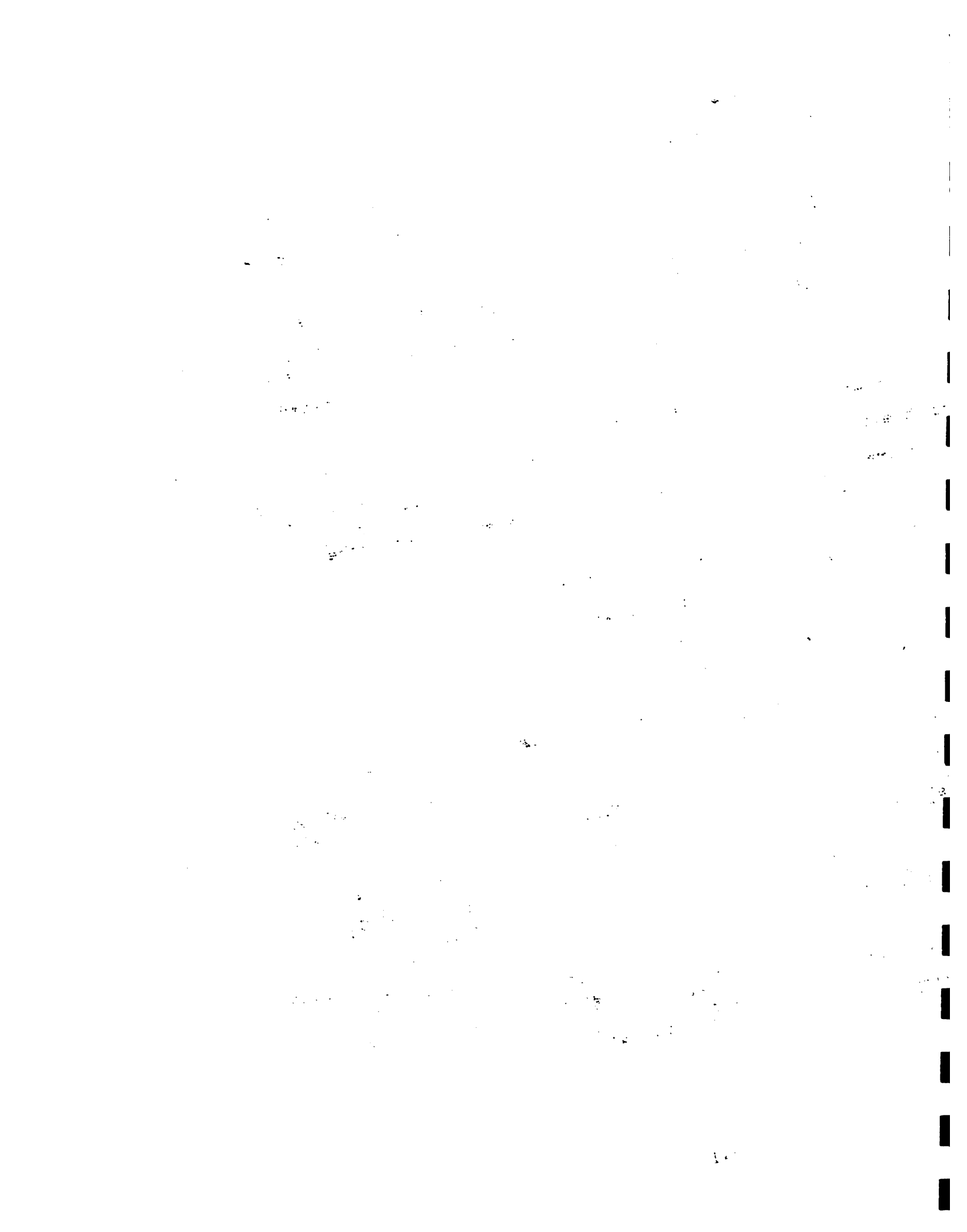
8. Evaluation of cooperant performance

- Sensitivity to farmer'problems
- Degree of program execution.

6. Regular Farmer Group Meetings - Feedback.

In addition to the regular meetings organized by the Formateur, farmer groups are encouraged to schedule their own meetings. This provides a free forum to discuss technology transfer issues from which conclusions can be presented to the Formateur during the next regular meeting.

This activity constitutes an important feedback mechanism in the Technology Transfer process flowchart.



ANNEX D:

Credit



ANNEX D: CREDIT

INTRODUCTION

A credit review was conducted during project initiation (Jan.91) by an international team of experts. The Credit Study Team, in reviewing the original design for project credit, found no argument with the "original" assumptions for this component; namely, that credit is important for Project PPK success in two areas:

... availability of credit to local organizations in order for them to acquire and maintain adequate inventories of PPK inputs.

... availability of credit to producers to enable them to acquire the recommended inputs designed to increase production.

In its analysis of the original credit component, the Study Team did document several critical constraints relative to project assumptions. These constraints severely limit the ability of project technicians to implement credit activities as they were originally designed:

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... small farmers are risk adverse and are not inclined to obligate themselves under significant debt loads for the cultivation of coffee until they have more assurance that the return will be sufficiently adequate to support such risks.

... there is a dearth of local organizational structure in the pilot zones, particularly in Beaumont, for implementing and managing any form of credit delivery services.

... The earlier coffee improvement programs (PPC, PPCC, etc.) have left a very negative impression in the minds of both farmers and former technicians of agricultural lending institutions (BCA, IDAI, etc.) regarding the feasibility of sustaining any form of agricultural production lending in the present economic/political environment of Haiti.

OBJECTIVES

Given the numerous constraints found in the project environment which mitigate against the potential for easily and quickly mounting a significant credit delivery system in

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support of PPK objectives, and given the fact that it is not the role of IICA to place itself in the position of agricultural production lender, it becomes evident that the credit component should pursue the following objectives:

- (1) To establish with fertilizer wholesalers and local private and cooperatively-owned shops, a network that ensures producer access to adequate inventories of PPK inputs at fair market value. PPK will facilitate this process with a combination of credits administered by local organizations to retailers or guarantees to repurchase unsold inventories in cases of retailers using their own capital to purchase input inventories.
- (2) To assist PPK producers, where critically important, in obtaining short term loans of fertilizer and other coffee production inputs. Initially, in Year 1, IICA shall assist in administering such loans which will then be passed to local financial institutions as they are identified or created. Eventually the producer lending program shall be expanded on a pilot basis to address the broader needs of farmers's integrated agricultural production systems.
- (3) To assist in strengthening or creating local financial institutions capable of managing medium term loans to producer associations where farmers cooperatively own and manage their own coffee processing centers; to



assist the local financial institutions to develop other services related to savings and lending.

- (4) To collaborate with FINCA (Foundation for International Community Assistance) in introducing its community-based and managed, micro-enterprise oriented credit delivery system to the Beaumont and Jacmel zones. The FINCA community bank methodology will be the test and alternative credit model in Haiti which has been successfully implemented with rural women in numerous Latin America countries as an effective rural credit delivery system.

Alternatively, to establish Community Revolving Loan Funds, using the model successfully implemented by IICA in the Village de la Montagne since 1990, based on IICA's work with 18 communities in Jamaica.

STRATEGY

The objectives of the credit component will be addressed following a strategic plan that will involve a partnership with a broad array of participants.

- (1) negotiations will be conducted with Haitian fertilizer importers and a contract signed on a basis of sealed

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bids to ensure timely deliveries of required PPK inputs to retail centers in the project zones.

- (2) a network of input retailers will be established by PPK and such collaborating organizations as CECOPASSE to ensure timely inventorying of inputs at sites convenient to PPK producers.
- (3) joint planning should be initiated with representatives from NGO's and local organizations already working in Jacmel regarding their interests and capabilities to manage short and medium term lending activities to input retailers, producers and coffee processing associations.
- (4) planning activities should be initiated with representatives from the Beaumont area, FINCA and any other interested NGO's in order to develop institutional credit delivery systems appropriate to that area, in order to apply the FINCA and/or CRLF model..

ACTIVITIES

Numerous project activities will be conducted to ensure accomplishment of the objectives of the credit component. They include the following:

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- (1) Ongoing discussions with representatives of the CECOPASSE/SODECOVI program in Jacmel to work out and implement cooperative programs related to savings mobilization and loans that address PPK project requirements in that zones.
- (2) Monitoring of cooperative stores supported by the CECOPASSE program, by PPK field staff, to ensure that adequate and correct inventories of PPK inputs are being maintained.
- (3) Development of additional privately owned retail shops with persons demonstrating entrepreneurial skills, to handle the inventorying and sales of PPK inputs in areas not serviced by cooperative stores.
- (4) Implementation of a longer term process with the Caritas Committee and other interested leaders in the Beaumont area to develop a local organization capable of managing programs of savings mobilization and delivery of credits.
- (5) Provide liaison and coordination with the FINCA staff as it develops and implements a series of "Community Banks" in the two Project zones of Beaumont and Jacmel. This will include the identification of micro-enterprise activities related to the interests of the PPK Project,



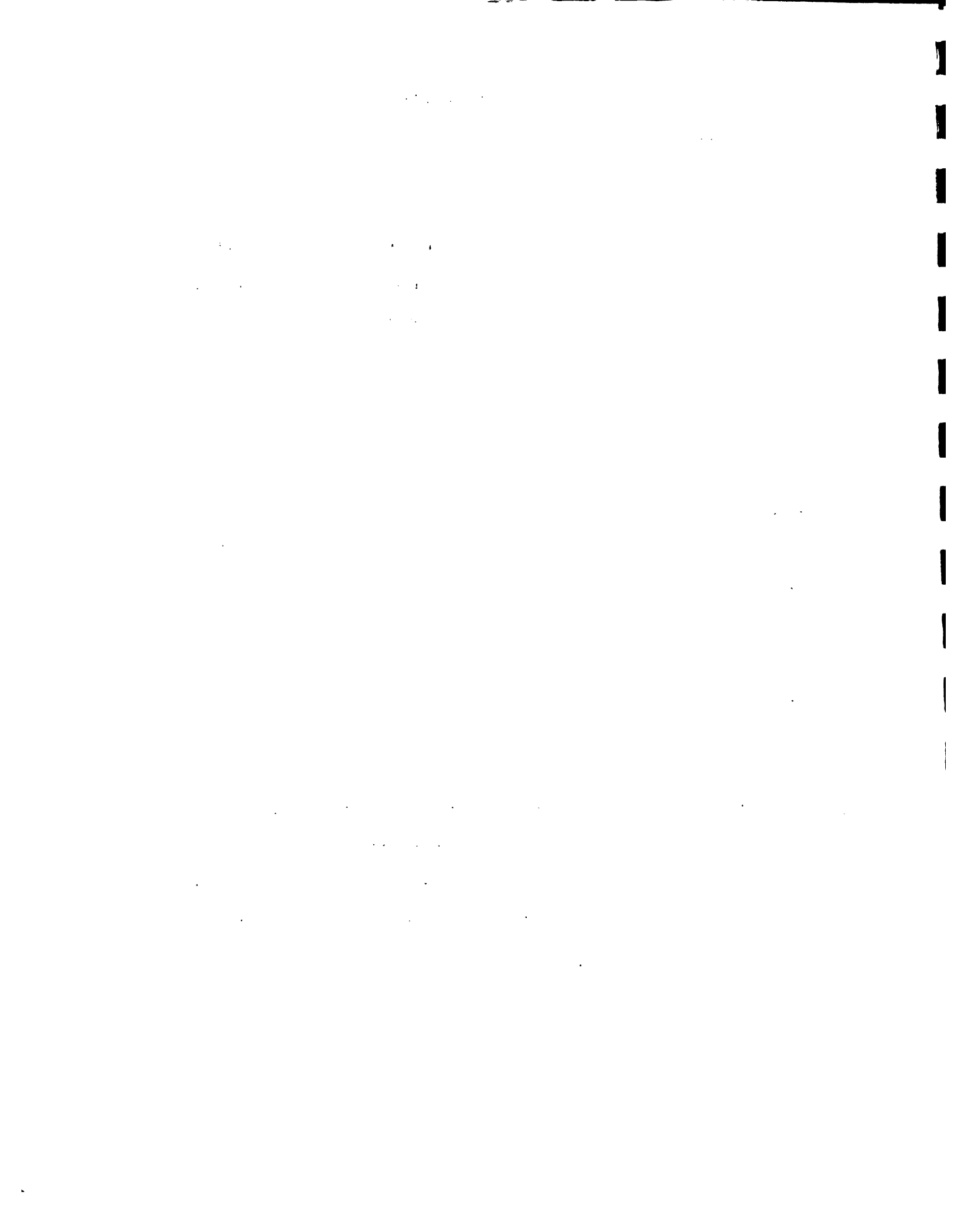
such as retail shops for inputs, preparation and sale of coffee, citrus and other seedlings, etc.

- (6) Ongoing discussions with representatives of Caisses Populaires in the Project zones, particularly in Jacmel, to determine in what ways these local financial institutions can assist PPK producers in addressing their needs for convenient and safe savings mobilization structures and for timely loans related to their integrated farming systems.

- (7) Assistance to local financial organizations to prepare project funding proposals for submission to donor organizations that will assist in the further capitalization of their institutions.

END-OF-PROJECT STATUS

During the next four years of project PPK, the emphasis for the credit component will be on the development of viable, self-sustaining local financial organizations capable of administering programs of savings mobilization and loans related to agriculture, micro-enterprise activities and other critical farm family needs (school loans, emergency needs related to illness or death in the family, etc.).



some measurable evidence of goal achievement should be visible in the following ways:

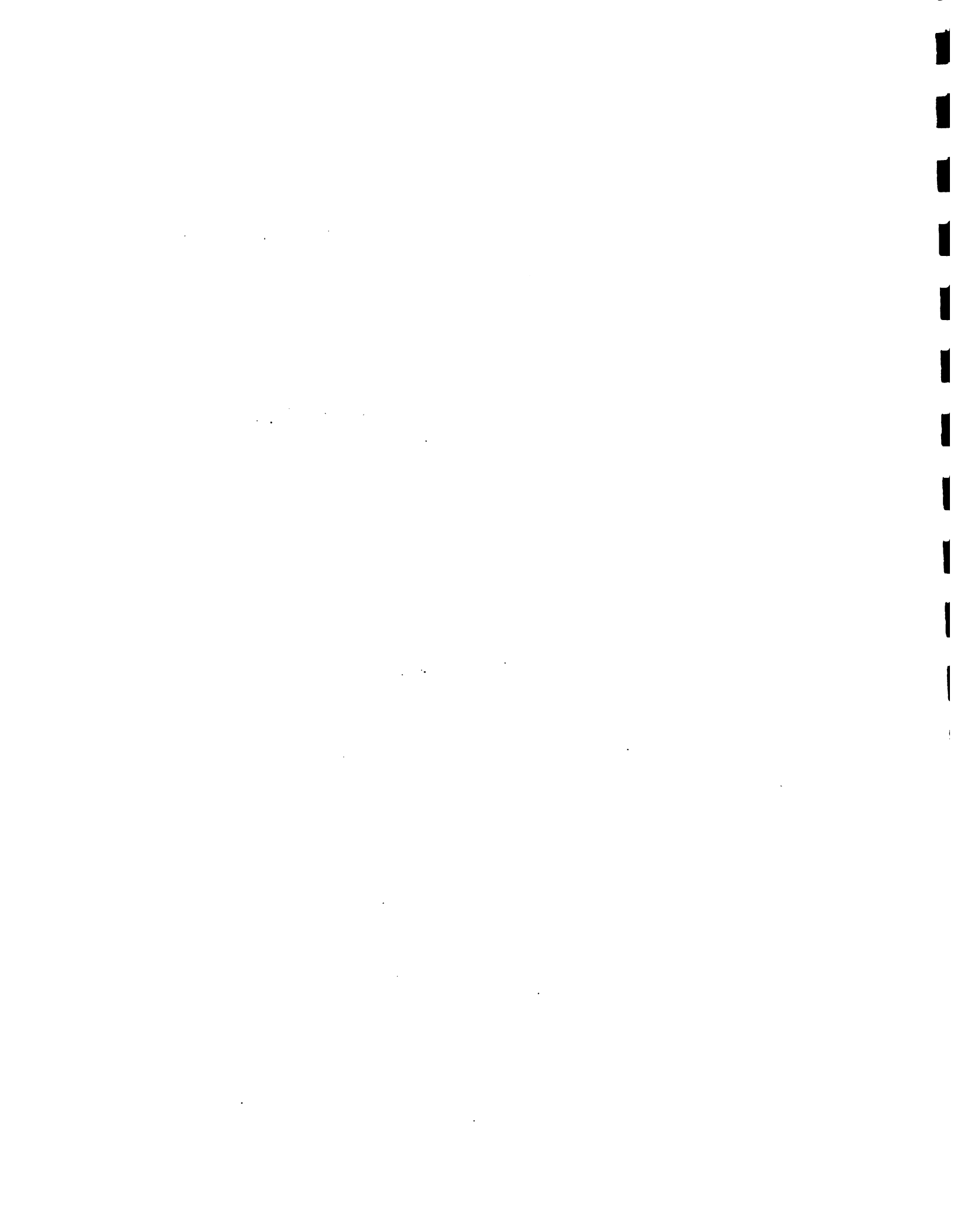
- (1) Ongoing lending activities between CECOPASSE and cooperatively owned stores in each of the four localities of the Jacmel zone.
- (2) Caisses Populaires in the Jacmel zone making loans to privately owned retail merchants who are in the business of selling PPK inputs.
- (3) Small Caisses Populaires being formed in the more rural localities of Jacmel and Beaumont, or branches of town-based C.P.'s being established to provide services to local farmers.
- (4) The existence of a Center for Financial Affaires in Beaumont, owned and managed by the Community and jointly supervised by representatives of local Caritas Committee and IICA, capable itself or through other local organizations, to administer on a limited scale, programs of savings mobilization and loans to PPK participants.
- (5) The existence of four FINCA and /or CRLF "Community Banks" in Beaumont and Jacmel, and six in surrounding localities making micro-enterprise oriented loans to their members.



- (6) Regular meetings held for members and scheduled democratic election of leadership taking place in each location where local financial institutions are operating.
- (7) A regular program of membership education taking place in each local financial organization, particularly focussing on issues of group solidarity and individual responsibility for payment of debt obligations.
- (8) Loan delinquency by PPK producers not exceeding 15% loan defaults not exceeding 5% on an annual basis.

FINCA (Foundation for International Community Assistance)

FINCA's credit methodology is based on the creation of rural community banks for women. Community banks are self-managed support groups of up to 30 members each. They meet weekly to discuss small enterprise opportunities in agricultural production, product elaboration and marketing activities. These meetings are also used to reinforce values concerning individual and group responsibilities and accountability on loan repayment, among others. Members make individual payments (a previously agreed upon formula which includes capital, interest and savings), to the democratically-elected administration committee. FINCA-trained local promoters will



provide periodic supervision to the banks as well basic skills training to the members in accounting, budgeting, marketing, and improved agricultural practices, among others.

FINCA's community banking methodology fits well within overall goals and objectives of PPK to increase farmers' income in and around the target areas in southern Haiti. The community banking concept also supports IICA's development approach to encourage farmer participation, leading to the emergence or strengthening of viable local institutions.

CRLF (Community Revolving Loan Fund) methodology

The definition of a Community Revolving Loan Fund is a community managed and owned fund which provides loans for individuals or groups in the community. As funds are repaid, new loans can be made, enabling the fund to revolve.

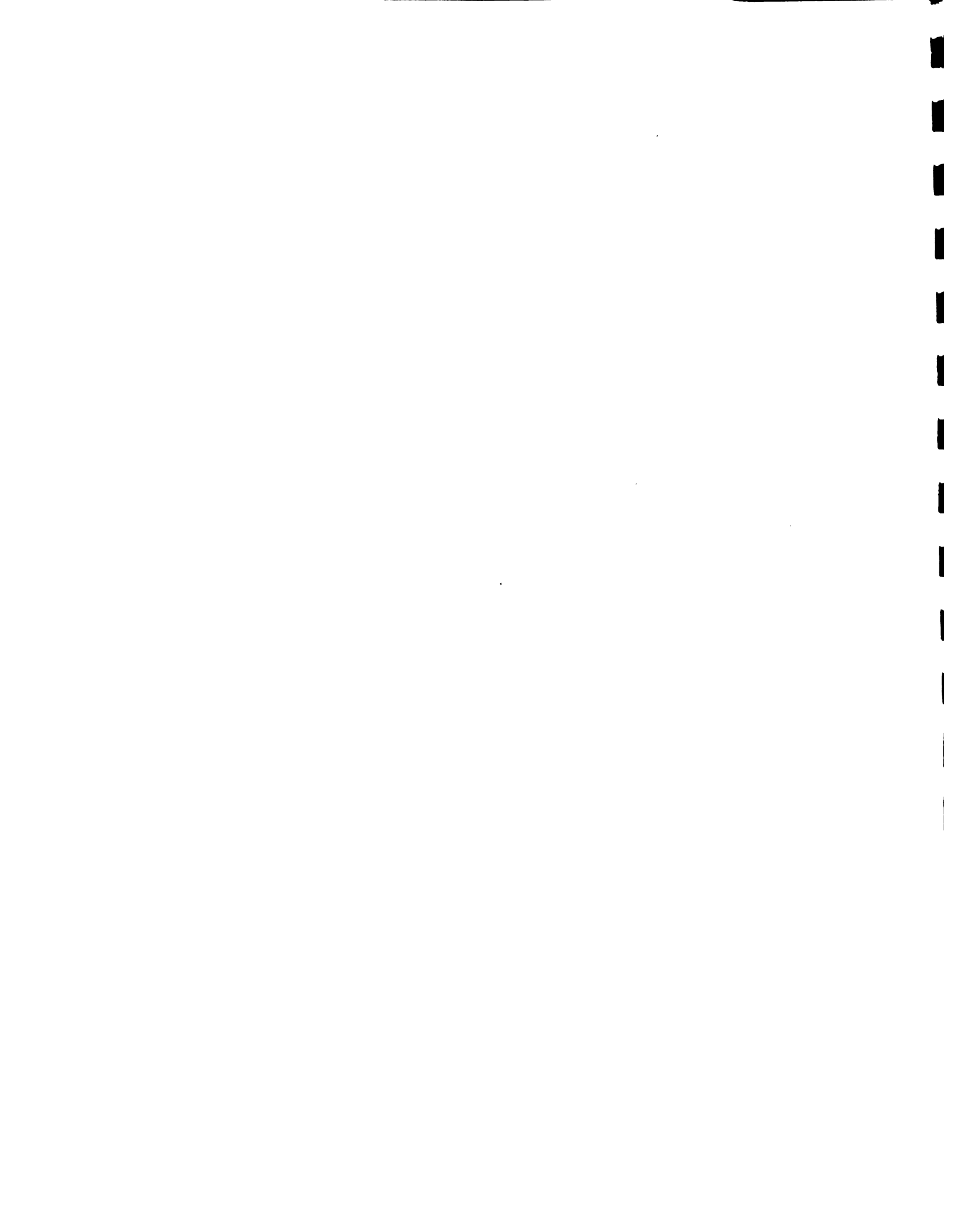
The concept of the community revolving loan fund (CRLF) is one of providing credit, outside of the commercial banking system, to individuals or groups who would have difficulty securing a loan from a private bank.

The CRLF is established by a community, operated by the community for community members. Initial funds to create the CRLF may come from project grants, loans, individual donations, or savings.



Another aspect of revolving funds can be developed for individual institutions within the community. For example, a church may decide to collect funds from church members or from outside sources and make this money available to establish a CRLF. A 4-H Club, a Women's group, or a Farmer's group may creatively seek funding to start a revolving loan fund.

In addition to providing capital at key moments to serious individuals and production groups, the CRLF draws community members closer together. Production training and business management may also become important community services attached to the CRLF.



ANNEX E:

Marketing



ANNEX B: COFFEE PROCESSING AND MARKETING

INTRODUCTION

During an assessment of the credit situation conducted by a team of international experts commissioned by IICA in January 1991, a critical constraint to economically viable coffee production was identified. This constraint was the absence of coffee pricing incentives for coffee producers. The study team concluded that this constraint might impede the achievement of the PPK goal.

This constraint presents itself in two ways. First, when compared to alternative crops, the low prices obtained for coffee could be perceived not only as a disincentive for the maintenance of coffee production, but also as a justification (from the farmer's perspective) for not investing in coffee production improvement. For example, the Team found in Beaumont that dried coffee beans sold for Gdes 12.50/marmite (Gdes 2.50/pound), while field beans sold in the range of Gdes 18.00 -19.00/marmite. The Team concluded that lower prices for coffee (vs.) other crops functions as a disincentive to farmers in accepting debt obligations for coffee improvement, particularly when the (understood) potential benefits of those improvements are at least three years "down the road". Faced with a decision, it is logical that the farmer will opt to invest in a crop

such as field beans, which can be expected to return the investment, with profit, in only a few short months.

Second, part of the problem appears to be associated with a weak internal marketing system. Small farmers lament the lack of differentiation in farm gate prices between well dried, well processed coffee on the one hand, and wet, mouldy lots, partially filled with unripened and broken beans, small stones and other "filler" material on the other hand. And without doubt, the buyers have every right to reduce farm-gate prices when they know in advance they will lose 25 -30% of the purchase due to losses from moisture (poorly dried beans), sorting and cleaning (removal of broken beans, filler, etc.)

These problems are not new. For years consultants and local observers have clearly identified these and other problems in the coffee processing and marketing systems of Haiti. What became particularly apparent to the Credit Review Team, was that for PPK to achieve its objectives, these issues must be addressed.

Resolution of these issues, however, requires that the project devise a way to break a proverbial vicious circle.

At present, it is not possible to identify a delivery system in either project zone that can consistently provide a well-

[The page contains extremely faint and illegible text, likely bleed-through from the reverse side of the document. The text is scattered across the page and does not form any recognizable words or sentences.]

processed, high grade of green coffee beans attractive enough to international roasters to command a premium price. If exporters cannot obtain a premium price, then they can not pay producers more, and there is no incentive driving an improved coffee production/processing system at the local level. Accordingly, even increased production from PPK introduced varieties and technologies will be purchased at the same low prices (because it will arrive at the export centers in the same "sorry" condition), and farmers will continue to find alternative crops such as field beans more attractive. The problem facing PPK is well reflected in the Haitian proverb which says, "wash one's hands and dry them on the ground." Until it is demonstrated to producers that significant value can be added to Haitian coffee, allowing it to be more competitive with other agricultural activities, it appears the prospects for their overwhelmingly agreeing to higher technological production practises cannot be achieved. It appears that for small Haitian producers, "price" represents the "horse" that must precede the "cart".

Another part of the problem lies in the breakdown of international pricing agreements, although this is obviously well beyond the scope of any project or any small nation to address. However, this is not currently the major limiting factor. Haitian coffee itself has a good international reputation. The large beans produced from high elevations are considered premium quality, when properly processed.

Accordingly, it is the processing, and the ability to deliver a promised quantity (e.g., one container) on a promised date, which limits Haiti's participation in the most profitable levels of the international coffee market. Once this reliability can be demonstrated, Haitian coffee can be traded as a futures commodity, rather than at "spot" prices. These are the prices which will allow the exporter to pay the higher price to the producer, which in turn will elevate the status of coffee in the cropping system of the farmer.

2. Objectives of the Coffee Processing/Marketing Component.

The objectives of this new component shall be four-fold:

- (1) To design and introduce to farmers and local organizations, through education and training programs, coffee processing methodologies that will result in producers practising selective harvesting of ripe cherries, efficient processing (particularly to produce "washed coffee"), sanitary drying and proper storage of their coffee crop.

- (2) To assist farmer groups to form local associations that will construct, own and manage coffee processing centers. The centers will be equipped (with project support) in a manner to prepare efficiently a high

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It is essential to ensure that all data is entered correctly and that the system is regularly updated.

3. The second part of the document outlines the various methods used to collect and analyze data.

4. These methods include surveys, interviews, and focus groups, each with its own strengths and weaknesses.

5. The third part of the document provides a detailed overview of the data analysis process.

6. This process involves identifying patterns, trends, and outliers in the data, and then interpreting these findings.

7. The fourth part of the document discusses the challenges associated with data analysis.

8. These challenges include data quality, sample size, and the complexity of the data itself.

9. The fifth part of the document offers several strategies to overcome these challenges.

10. These strategies include improving data collection methods, increasing the sample size, and using advanced analytical techniques.

11. The sixth part of the document provides a summary of the key findings of the study.

12. These findings highlight the importance of data analysis in understanding complex phenomena and making informed decisions.

13. The seventh part of the document discusses the implications of these findings for future research.

14. These implications include the need for more rigorous data collection and analysis methods, and the importance of interdisciplinary collaboration.

quality of washed coffee.

- (3) To develop and implement national marketing activities designed to enable producer associations to deliver consistently and in a dependable manner to Haitian export centers a grade of green coffee beans which meets international roasters' specifications. The improved product will be sufficiently upgraded so as to command a \$0.05 - \$0.10/pound "premium" to producers over N.Y. "spot" prices.
- (4) To develop further linkages and contractual agreements between Haitian export centers and international roasters and specialty coffee sources. (This work was initiated under USAID Contract #521-0000.1, with the objective of re-invigorating competitive interest in Haitian coffee.)

3. Strategy

The strategic plan for this component of PPK places a high priority on farmer participation in a process of development. The following plan will be used to achieve this process:

- (1) Specialized training for Participation Formateurs and the newly created Processing/Marketing Formateurs by senior IICA staff. This training will prepare

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Formateurs for organizing throughout the two zones, groups of small producers interested in improved coffee processing as a means to add value to their coffee.

- (2) Formateurs, with assistance of the PPK Deputy Project Coordinator and the Credit/Marketing Supervisor will take leadership for the further organization of the small producer groups into local associations which will cooperatively own and manage coffee processing centers capable of producing a higher grade of washed coffee beans.
- (3) Though IICA linkages with small producer models throughout Latin America, a unique Haitian model will be developed for the installation of improved coffee processing technologies and procedures at the local organization level.
- (4) With the price risk reductions accruing to Haitian exporters (due to improved processed coffee being shipped from the coffee processing centers), the project will function as a mediator between the more progressive coffee export houses and the farmer associations so that the producers can gain price "bonuses" for their better quality coffee.

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2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support informed decision-making.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and reporting, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It provides guidance on implementing robust security measures to protect sensitive information from unauthorized access and breaches.

5. The fifth part of the document explores the importance of data quality and integrity. It discusses strategies for identifying and correcting errors in data collection and ensuring that the information used for analysis is accurate and reliable.

6. The sixth part of the document discusses the ethical considerations surrounding data collection and analysis. It emphasizes the need for transparency, informed consent, and the responsible use of data to protect individual privacy and rights.

7. The seventh part of the document provides a summary of the key findings and recommendations. It reiterates the importance of a data-driven approach and offers practical advice for implementing effective data management practices.

Rather than attempt to develop alternative export systems, it appears that the best solution is to facilitate and develop the actual inter-dependancy which exists between the exporter and the producer. The Port-au-Prince export houses have unique capabilities and expertise, but at the same time they need a better product to increase their market share and obtain higher prices. The farmer producers can produce and process a better product, and can be expected to do so, if they receive an equitable share of the benefits.

It must be underscored that the project does not intend to replace the traditional speculator system, which is both integral and vital to the rural socio-economic system. Rather, PPK will concentrate on convincing producers to select and process ripe cherries initially, with the remainder of the harvest going through existing channels.

- (5) Identifying and integrating representatives of North American and European roasters into the commercialization process. The objective of this strategic activity, which will be accomplished through semi-annual field visits and other follow-up activities, is for the representatives to develop a high level commitment to actively promote Haitian coffee in their own markets.

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3. The third part of the document describes the different types of data that are collected and analyzed. It includes information on both quantitative and qualitative data, as well as the various sources from which the data is gathered.

4. The fourth part of the document discusses the various statistical methods and techniques used to analyze the data. It covers topics such as hypothesis testing, regression analysis, and correlation analysis, among others.

5. The fifth part of the document describes the different types of results that are obtained from the data analysis. It includes information on the various statistical measures and indicators that are used to interpret the data.

6. The sixth part of the document discusses the various factors that can influence the results of the data analysis. It highlights the need for careful consideration of these factors to ensure the accuracy and reliability of the findings.

7. The seventh part of the document describes the different types of conclusions that can be drawn from the data analysis. It includes information on the various ways in which the results can be used to inform decision-making and policy-making.

8. The eighth part of the document discusses the various challenges and limitations of data analysis. It highlights the need for careful attention to detail and a thorough understanding of the data to overcome these challenges.

9. The ninth part of the document describes the different types of data analysis software and tools that are available. It includes information on the various features and capabilities of these tools, as well as the benefits and drawbacks of each.

10. The tenth part of the document discusses the various ethical considerations that must be taken into account when conducting data analysis. It highlights the need for transparency, honesty, and integrity in the reporting of results.

1. 首先，我们要明确的是，任何一项工作的完成，都离不开团队的协作。在团队合作中，每个成员都扮演着重要的角色，只有大家齐心协力，才能克服重重困难，达成目标。

其次，沟通是团队合作的基石。有效的沟通能够消除误解，增进理解，使团队成员能够更好地配合。在沟通过程中，我们要学会倾听，尊重他人的意见，同时也要清晰地表达自己的想法。只有建立起畅通的沟通渠道，团队才能高效运转。

此外，信任也是团队合作不可或缺的因素。只有当团队成员之间建立起相互信任的关系时，大家才会愿意为团队付出，才会敢于承担责任。信任的培养需要时间和耐心，但一旦建立起来，将对团队的凝聚力产生深远的影响。

最后，面对挑战时，团队需要具备强大的抗压能力。在遇到困难和挫折时，团队成员不能轻易放弃，而是要保持积极的心态，寻找解决问题的办法。通过共同的努力和坚持，团队一定能够战胜困难，实现最终的胜利。

总之，团队合作是一种强大的力量，它能够汇聚个体的智慧，创造出超越个人的成就。在未来的工作中，我们要不断加强团队合作能力的培养，为团队的繁荣和发展贡献自己的力量。

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4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure throughout its lifecycle.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that the data management processes remain effective and aligned with the organization's goals.



1-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

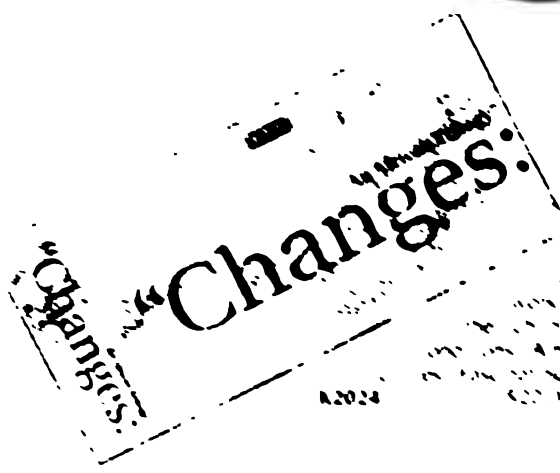


The 5-ounce CARE Package

Since the Carter-Coincidence has earned a national reputation for its quality and value, it is now available in a new 5-ounce package. This new package is perfect for the individual who wants to enjoy the quality of the Carter-Coincidence without the expense of the larger package. Each package contains 5 ounces of the finest quality CARE.

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The Carter-Coincidence is a unique blend of the finest quality ingredients. It is a true taste of the South, and it is a true taste of the Carter-Coincidence. Each package contains 5 ounces of the finest quality CARE.



Changes 44-100-100

The Carter-Coincidence is a unique blend of the finest quality ingredients. It is a true taste of the South, and it is a true taste of the Carter-Coincidence. Each package contains 5 ounces of the finest quality CARE.



MILLSTONE®



6 Single Pot Packs
of Ground Gourmet Coffee

COFFEE POT



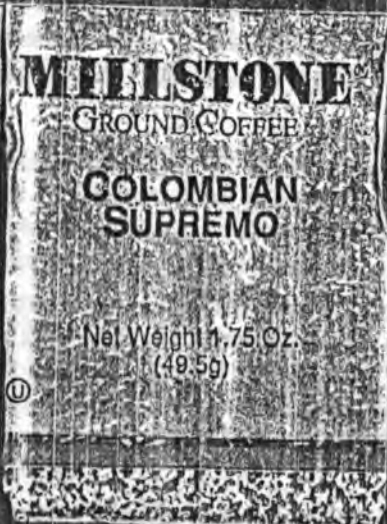
SINGLES™



MILLSTONE®
GROUND COFFEE

**BED & BREAKFAST
BLEND®**

Net Weight 1.5 Oz.
(42.5g)



MILLSTONE®
GROUND COFFEE

**COLOMBIAN
SUPREMO**

Net Weight 1.75 Oz.
(49.5g)



MILLSTONE®
GROUND COFFEE

**HAZELNUT
CREAM**

Net Weight 1.75 Oz.
(49.5g)



MILLSTONE®
GROUND COFFEE

IRISH CREAM

Net Weight 1.75 Oz.
(49.5g)



MILLSTONE®
GROUND COFFEE

**VANILLA NUT
CREAM**

Net Weight 1.75 Oz.
(49.5g)



MILLSTONE®
GROUND COFFEE

**SWISS
CHOCOLATE
ALMOND**

Net Weight 1.75 Oz.
(49.5g)





hey say good things come in small packages.

In our business, we usually mean the coffee bean when we use that phrase. After all, the coffee bean is nature's most clever package. When you buy gourmet whole bean coffee, you get the best, right?

Up until now.

Introducing Millstone® Coffee Pot Singles™. We've taken our best product (the gourmet coffee bean) and found a way to make it convenient for you . . . without sacrificing taste or quality.

The patented vacuum-sealed package we've used for our Coffee Pot Singles means we can fresh-roast our best beans, grind them for your coffee pot . . . without losing any of the qualities that have made Millstone the top-selling gourmet whole bean coffee in America.

Try our convenient Millstone Coffee Pot Singles. We think you'll agree, it's a great way to get to know Millstone whole bean coffees.

Gourmet Coffee. The Best. To Go. From people who know how to package quality.

**Distributed by
Millstone Coffee, Inc., Everett, WA 98208
Toll-Free Customer Hotline 1-800-SAY-JAVA
Pacific Time M-F 8am-5pm**



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(b) facilitating binding contractual arrangements between exporters and producer processing centers for sale of increasing volumes of quality coffee; this should include some exporter's investment into PPK activities.

(c) facilitating business arrangements between Haitian exporters and a more diversified cadre of international specialty coffee brokers willing to pay "bonus" prices for superior grades of PPK coffee.

4. Activities

Numerous project activities will be conducted to ensure accomplishment of the objectives of this component. They include the following:

- (1) Regular "animation" visits by Formateurs to every significant coffee-producing area in the project zones.
- (2) Formation of producer groups interested in cooperating in improved coffee processing activities. (Many of these groups will be made up of the same persons now working cooperatively in tree nursery production.)
- (3) "Cercle d'Etude" sessions conducted by Formateurs, with significant involvement by the PPK Deputy Coordinator,

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Participation Specialist and Credit/Marketing Supervisor.

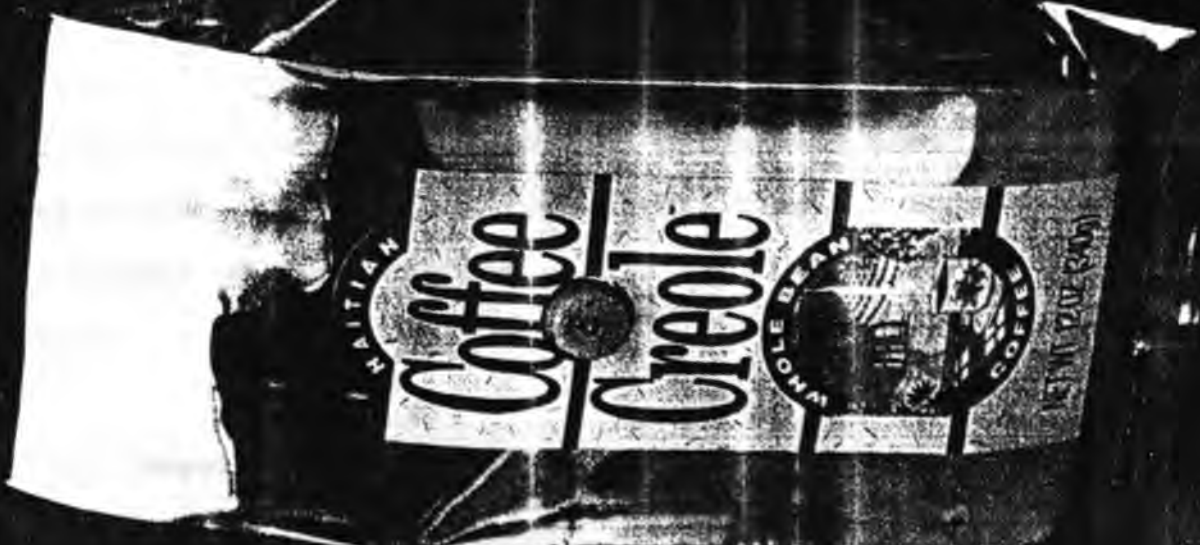
(4) Monthly meetings of representatives and members of all groups within a geographical proximity for the purpose of reporting on activities being carried out by each groups.

(4) Installation of a model improved processing facility in Tozia and possibly a second site if appropriate. (Note that negotiations were already at an advanced stage for the Tozia facility just prior to project suspension.) Even if only the Tozia facility is installed, representatives of farmer associations from other project localities can be brought to visit this facility to encourage their own organization.

Partial facilities, (i.e., drying platforms, cisterns, depulpers) will be installed with community participation in other sites if the associations have advanced to an appropriate stage of development.

(5) Monthly meetings of representatives and members of all groups within a geographical proximity for the purpose of reporting on activities being carried out by each group.

- (6) Regular, participatory planning sessions with market sources representing Port-au-Prince export houses and international roasters, designed to result in improving delivery systems that provide maximum returns to producers. This activity will entail travel by PPK staff to investigate the international markets of interest to the project, and reciprocal visits by representatives of international coffee enterprises.
- (7) Working relationships in place that result in regular consultations with international experts available through IICA, for the purpose of technologically updating project personnel on new developments in coffee processing and marketing.
- (8) On-going training services available on a national basis to other NGO's and local organizations interested in linking up to the improved coffee processing and marketing program, as time permits.
- (9) Continued development and promotion of the copyrighted PPK developed gourmet coffee, "Haitian Coffee Creole", (see sample A), within the US market once the embargo is lifted and opening of new markets in Europe and Japan.



SAMPLE A



5. End-of-Project Status

Rather than measuring the end-of-project status on the basis of material objects in place, the primary end of this process in the two pilot zones will be the establishment of a system of stable, self-reliant local organizations having member participants possessing a better quality coffee, and assured sense of understanding and of responsibility for the importance of proper coffee processing and honoring of marketing contractual responsibilities. Some measurable evidence of this outcome should be visible in the following ways:

- (1) Regular meetings of producer groups on a self-sustaining basis.
- (2) Democratic election of leadership in the various groups.
- (3) Installation of appropriate coffee processing, drying and storage technology where each producer association is located.
- (4) Local "transfer stations" established where associations' inventories of properly processed and dried coffee are gathered, inspected, and stored, prior to moving to export centers.

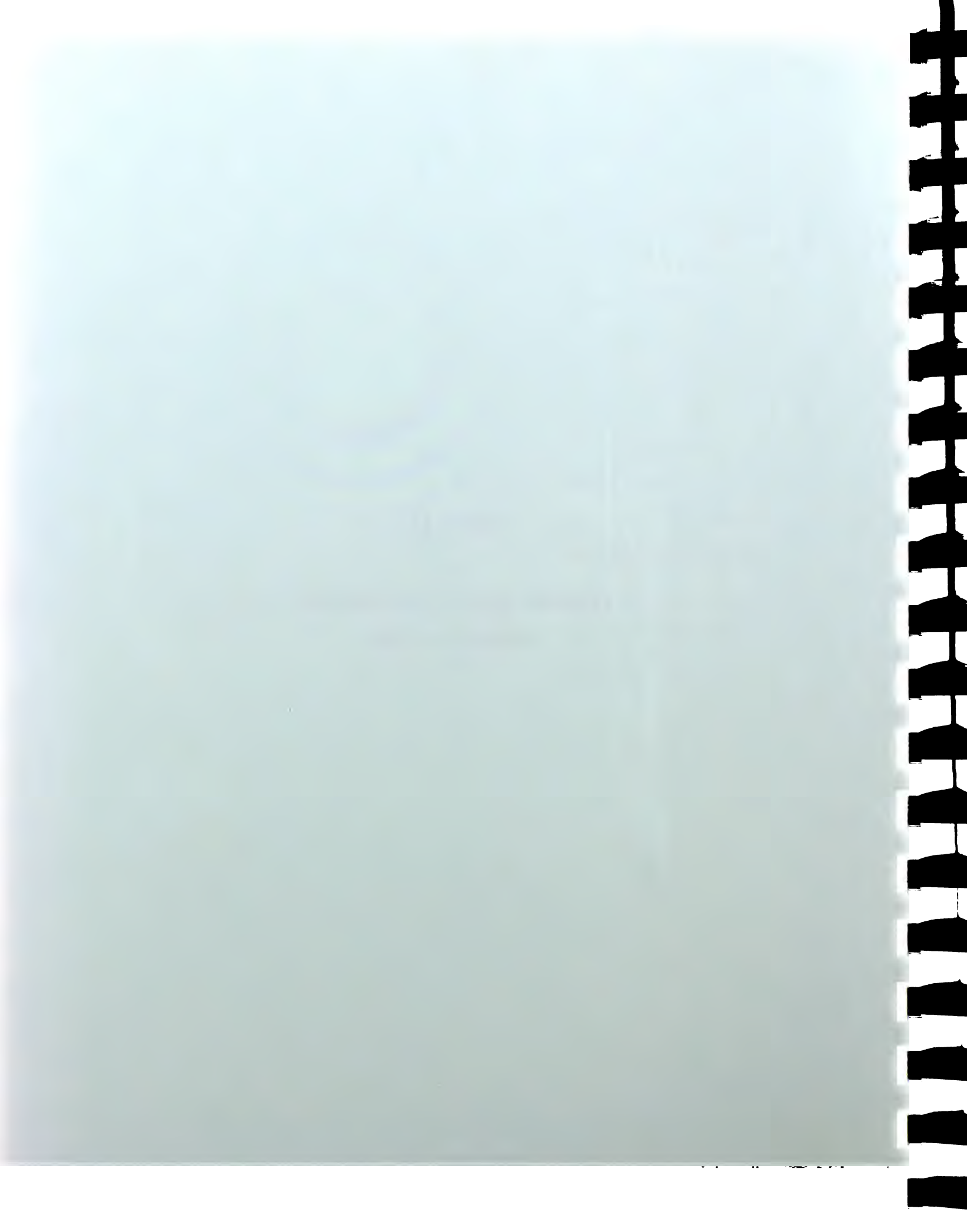
- (5) An identifiable "name brand" of green coffee, with guaranteed specific characteristics for specialty coffee and blending purposes being established from the project zones, and other coffee producing regions having similar conditions. This coffee will be going to international roasting sources on a consistent basis, qualitatively and contractually, commanding a \$0.05 - \$0.10/pound premium over N.Y. "spot prices".
- (6) As a result of the educational process and demonstrated higher return for producers, the majority of these producers participating in the improved coffee processing/marketing activities will be progressively adopting higher technological levels of the production improvement program.

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ANNEX F:

Planned, Actual and Proposed
Outputs of PPK



ANNEX F: PLANNED, ACTUAL AND PROPOSED OUTPUTS OF PPK

The chart on the following two pages depicts the PPK planned, actual and proposed outputs. The planned and actual outputs refer to PPK1 outputs planned for the original LOP; the proposed outputs refer to PPK2 outputs proposed both for the LOP and for the "next six months": January to June 1993.

PLANNED, ACTUAL AND PROPOSED OUTPUTS OF PPK

MAJOR OUTPUTS	PLANNED		ORIGINAL PPK ACCOMPLISHED 30/09/91		PROPOSED PPK2	
	LOP	CUM TO DATE	% OF LOP	LOP	LOP	JAN-JUNE 93 NEXT 6 MONTHS
1. Propagation of high yield & rust tolerant varieties	4.5 Mil.	1.2 Mil.	26		1.875,000	500,000
2. Coffee Technology introduced to small farmers in two pilot zones:						
- Direct	9,000	2,500	27		3,500	2,244
- Indirect	6,985	1,746	24		14,000	2,800
3. Development of technical packages for coffee based farming system	4	2	50		4	1
4. Local organization capacity strengthened to support improved coffee cultivation	30	6	20		5	2
- Farmers groups organized (20 x each.)	--	208	--		175	110
5. Training						
a) Overseas (short-term for technicians) p/day	806	27	8		96	16
b) In country (field personnel) p/day	11,076	3,322	30		601	80
- Sessions	1,026	108	10		28	5



PLANNED, ACTUAL AND PROPOSED OUTPUTS OF PPK

MAJOR OUTPUTS	PLANNED		ORIGINAL PPK ACCOMPLISHED 30/09/91		PROPOSED PPK2	
	LOP	CUM TO DATE	% OF LOP	LOP	LOP	JAN-JUNE 93 NEXT 6 MONTHS
1. Propagation of high yield & rust tolerant varieties	4.5 Mil.	1.2 Mil.	26		1.875,000	500,000
2. Coffee Technology introduced to small farmers in two pilot zones:						
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3. Development of technical packages for coffee based farming system	4	2	50		4	1
4. Local organization capacity strengthened to support improved coffee cultivation	30	6	20		5	2
- Farmers groups organized (20 x each.)	--	208	--		175	112
5. Training						
a) Overseas (short-term for technicians) p/day	806	27	8		96	16
b) In country (field personnel) p/day	11,076	3,322	30		601	80
- Sessions	1,026	108	10		28	5

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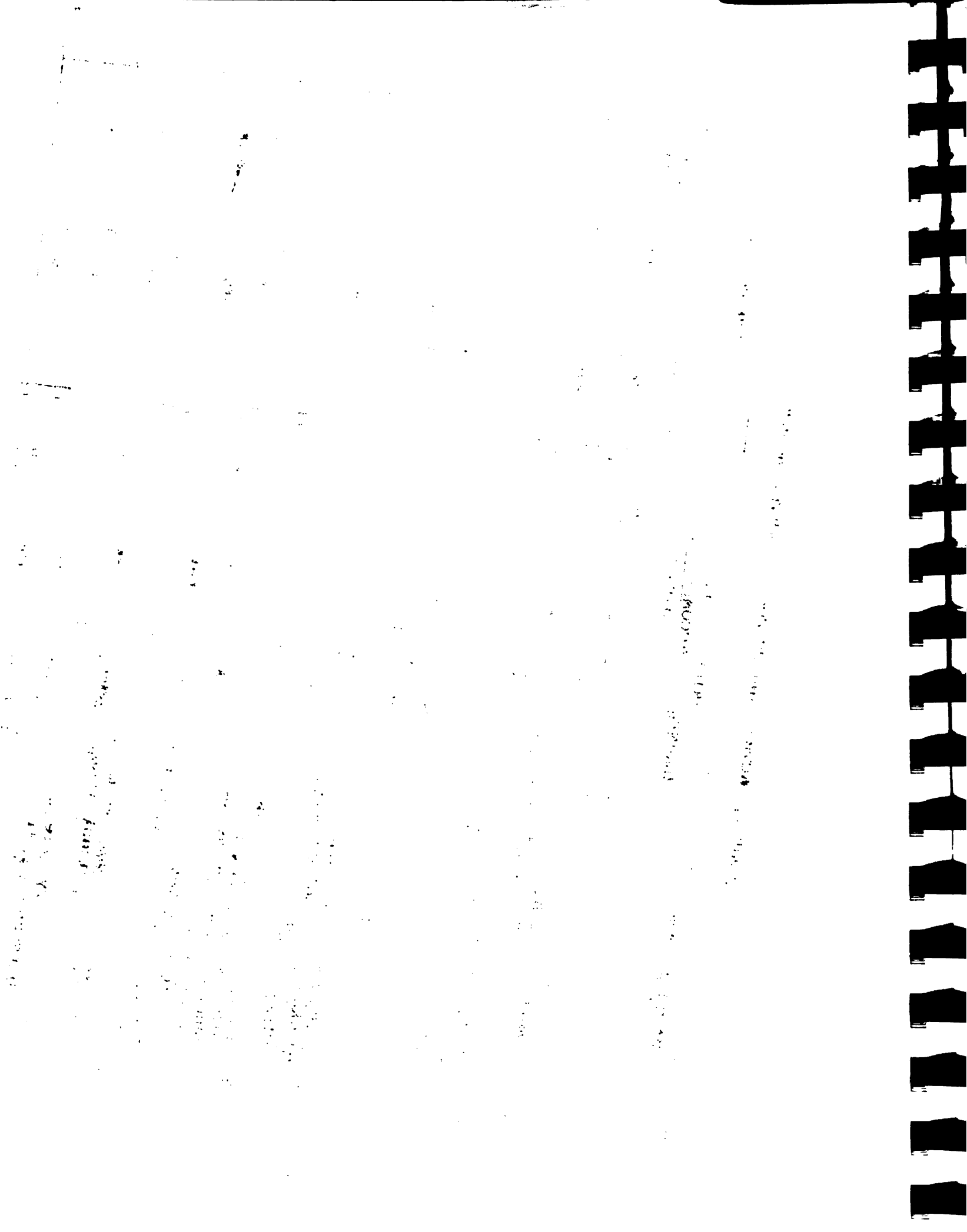
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PLANNED, ACTUAL AND PROPOSED OUTPUTS OF PPK

MAJOR OUTPUTS	ORIGINAL PPK			PROPOSED PPK2	
	PLANNED	ACCOMPLISHED 30/09/91	LOP	LOP	JAN-JUNE 93 NEXT 6 MONTHS
1. Propagation of high yield & rust tolerant varieties	4.5 Mil.	1.2 Mil.	26	1.875,000	500,000
2. Coffee Technology introduced to small farmers in two pilot zones:					
- Direct	9,000	2,500	27	3,500	2,244
- Indirect	6,985	1,746	24	14,000	2,800
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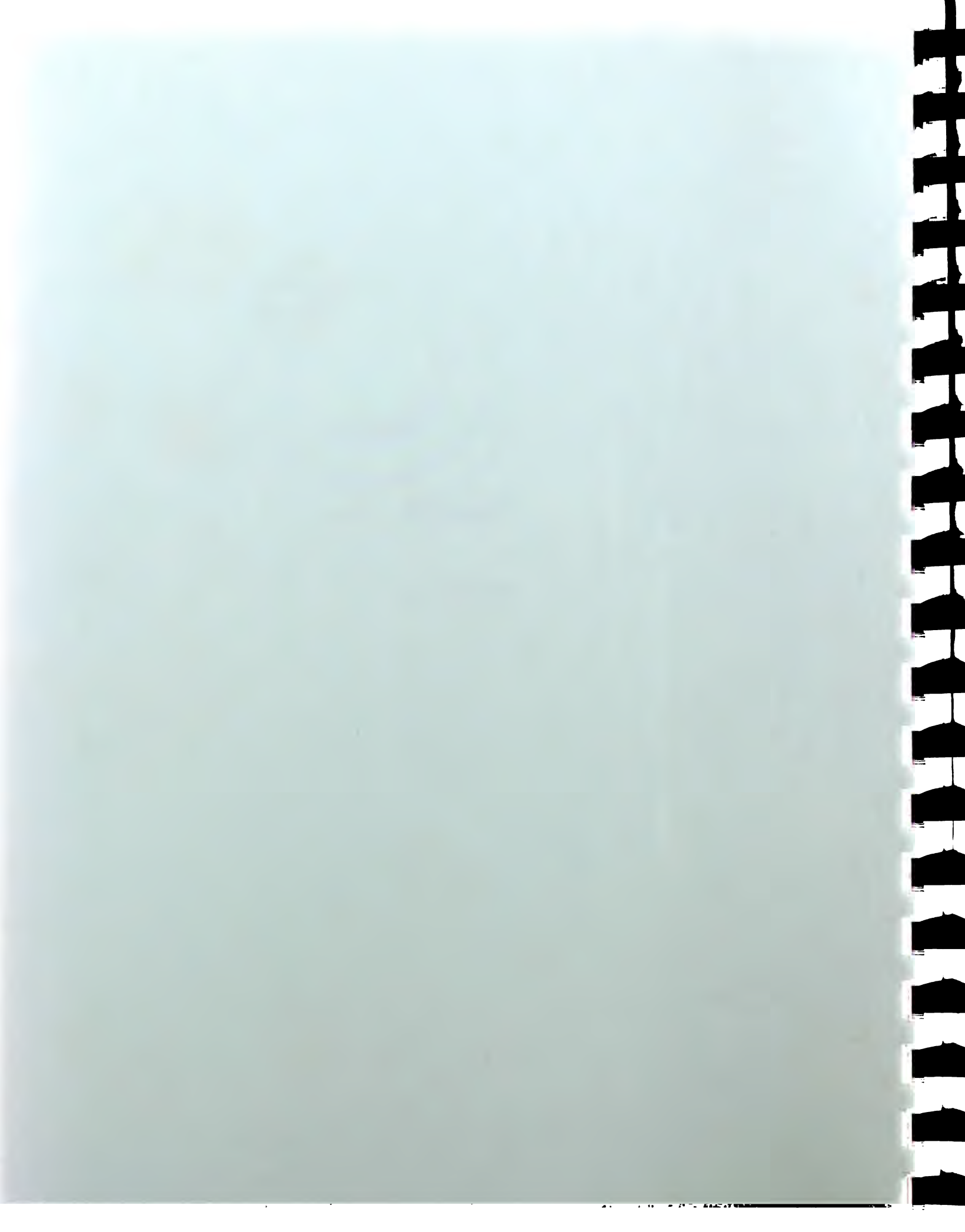


MAJOR OUTPUTS	ORIGINAL PPK ACCOMPLISHED 30/09/91			PROPOSED PPK2	
	PLANNED LOP	CUM TO DATE	% OF LOP	LOP	JAN-JUNE 93 NEXT 6 MONTHS
- Training for Formateurs p/day	8,856	660	7.5	60,709	6,175
- Sessions	54	12	22	28	5
- Training for Farmers p/day	11,076	2,500	22	84,140	11,200
- Field days for Farmers p/day	200	6	3	28 560	5 100
d) Radio Broadcasting					
- Radio programs	1,944	432	22	1,152	182



ANNEX G:

Monitoring



ANNEX G: MONITORING AND EVALUATION

INTRODUCTION

A well-conceived project must have objectives, a strategy, activities and an end of project status, or project results. Milestones, benchmarks, or SPI's (USAID) indicate the accomplishment of certain tasks on the way to achieving project results.

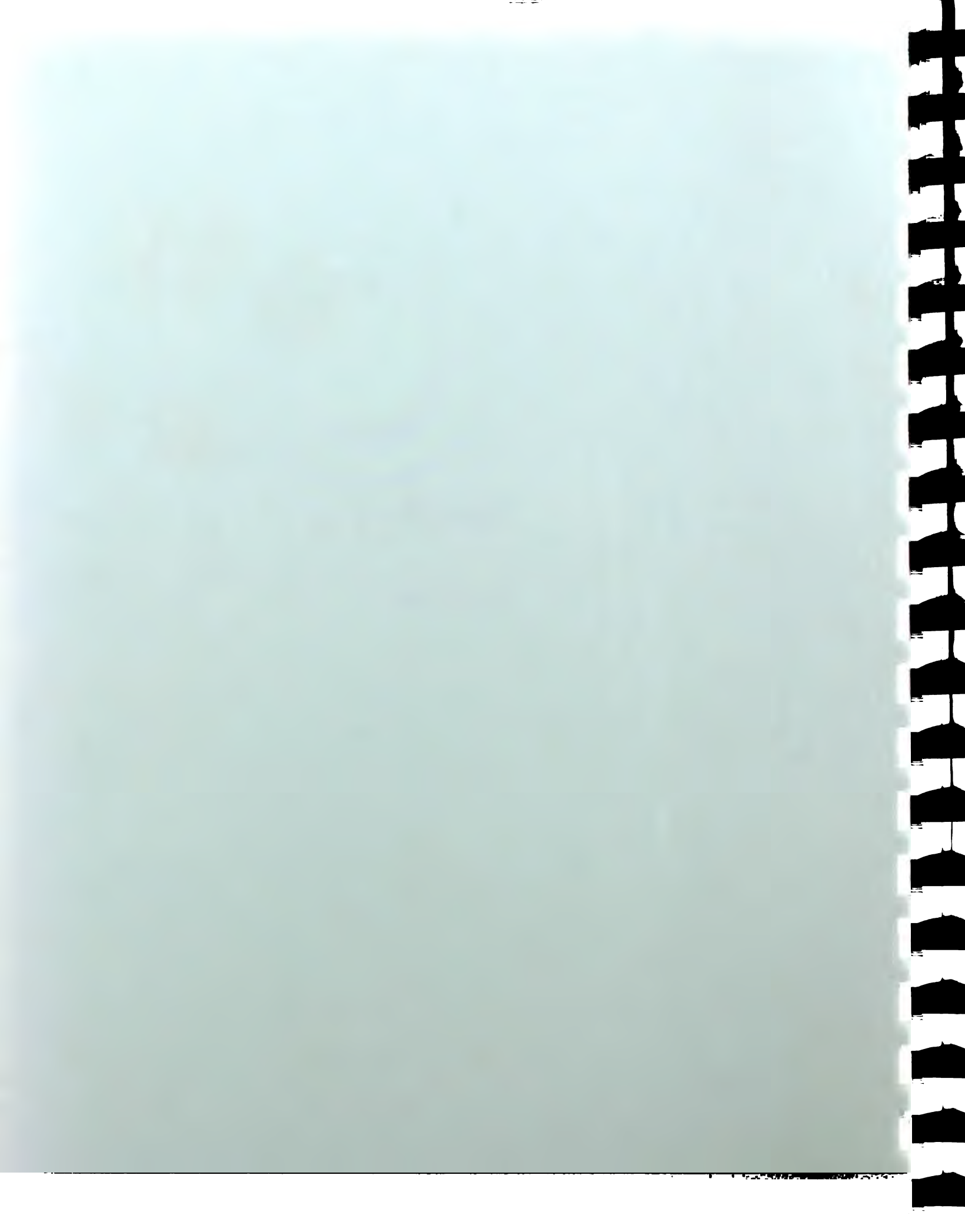
In order to assure that milestones are being met, within the time frame allocated, a monitoring system must be in place. Monitoring is collecting, recording, analyzing and reporting information regarding all aspects of project performance.

PPK will use the Harvard Project Manager II computerized system to support its monitoring activities. All project components will be monitored, both technical and management, these being: Data collection, Farmer Participation, Technology Validation, Cropping Systems Technology Transfer, Credit, Marketing, Institutional Linkages, Internal Administration and Monitoring and Evaluation.

OBJECTIVES

The objectives of the monitoring and evaluation system are:

1. To provide information, via a baseline study, of the agro-socio-economic situation of the two pilot zones. Data generated from this study describes the state-of-the-art with



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OBJECTIVES

The objectives of the monitoring and evaluation system are:

1. To provide information, via a baseline study, of the agro-socio-economic situation of the two pilot zones. Data generated from this study describes the state-of-the-art with



regard to farming systems, farmer participation in pre-cooperatives, access to credit, social and economic conditions and production and cultural practices.

2. To feed ongoing information into PPK decision-making levels in order to readjust the technical and management activities as needed.

3. To conduct mid-term and final evaluations in order to determine whether the project is meeting its goals, thereby yielding the anticipated results.

4. To establish a successful project-level monitoring system which can then be used in other IICA-Haiti projects, building a new monitoring system for IICA from the grassroots up, rather than from the grassroots down, as currently exists.

STRATEGY

The strategy involves:

1. Establishment of the planning-monitoring-controlling cycle using the Harvard Total Project Manager II. This cycle integrates requirements of the existing IICA and USAID systems.

2. Data collection for the baseline study. This farm-level information serves as a data base for comparing project impact, as well as forming a framework for guiding planned interventions into the farming system.



3. Data collection and analyses for the mid-term and final evaluations.

ACTIVITIES

1. With the Harvard Total Project Manager II:

- 1.1 Create work calendars
- 1.2 Create work breakdown structures
- 1.3 Create PERT charts
- 1.4 Create GANTT charts
- 1.5 Analyze resources
- 1.6 Analyze costs
- 1.7 Provide monitoring information
- 1.8 Complete reports
- 1.9 Readjust project activities

2. Complete the baseline:

- 2.1 Design questionnaire
- 2.2 Apply questionnaires (see end of this annex for a copy of a completed questionnaire)
- 2.3 Analyze completed questionnaires
- 2.4 Complete baseline study (see volume 3 for the baseline study).

3. Complete the evaluations:

- 3.1 Design questionnaire
- 3.2 Apply questionnaires
- 3.3 Analyze completed questionnaires
- 3.4 Complete evaluations

4. Examples of the types of analyses to be performed

- 4.1 Re-conduct the baseline study questionnaire within the target communities and compare the results with the original baseline study as a means of determining project impacts.
- 4.2 Monitor (on a selected basis) survival and growth rates of perennial crops under different conditions of management (e.g., with and without weeding; with and without fertilizer) to better evaluate the longer term impact of the PPK proposed cropping system technology package and technology transfer



methodology. Although actual harvests and income from crop sales will not be achieved for all crop types within the LOP, this monitoring system will be in-place for future reference.

- 4.3 Devise specific techniques for monitoring project impact on indirect beneficiaries. Given the total numbers involved (i.e., 3,500 direct project beneficiaries; 14,000 indirects) it is conceivable that the overall project impact may be much more substantial than estimated in this proposal. These techniques will include Formateurs maintaining name-lists for those non-project participants attending training sessions, and requesting farmer-group nurseries to maintain similar lists with regards to sales of seedlings. On a stratified, random sample basis, project staff can then follow-up with visits to the farms of some of these indirect beneficiaries and tabulate exactly which technologies have been successfully adopted. The randomized sample will allow extrapolation of this monitoring survey to the entire population of the targeted zones. A similar sampling strategy can be devised (on a less intensive basis) to determine the impact of the national radio extension program.

END-OF-PROJECT STATUS

Measurable evidence that the monitoring and evaluation system has operated successfully will be:

1. A baseline study
2. Project readjustments made based on information flow
3. Mid-term evaluation
4. Final evaluation



PWOJÈ PLANTE KAFE
PROJET DE REVITALISATION DU CAFE

**DIAGNOSTIC DE LA SITUATION
DANS LES ZONES PILOTES**

QUESTIONNAIRE

Port-au-Prince, Haiti
Juin 1990

BUREAU DE L'IICA EN HAITI



CONFIDENTIAL - SECURITY INFORMATION

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QUESTIONNAIRE A REALISER AU NIVEAU DES FERMES

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- b. Zòn plante ak kafe

1 Car

- c. Aire destinee a la production des graines de base
- c. Zòn ki fèt pou pwodiksyon grin'n de baz yo

4

- d. Aire destinee a la production des tubercules et racines.
- d. Zòn ki fèt pou pwodiksyon plant anba tè ak rasin'n

1 Car

- e. Aire destinee a la production de banane.
- e. Zòn ki fèt pou pwodiksyon bannan'n

1 Car

- f. Disponibilite d'arbres fruitiers. Citer les?
- f. Ki kantite pye fwi ki genyen. Site yo

100 ft



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g. Aire destinee a d'autres cultures.
 g. Zòn ki fèt pou lòt kilti

h. Aire destinee au paturage.
 h. Zòn ki fèt pou zèb (patiraw)

i. Animaux disponibles dans les fermes. **Quantite**
 i. Zannimo ki rete nan fèm yo (kantite)

14 animaux

- Bourriques → *non*
- Bourik
- Chevaux → *non*
- Chwal
- Mules → *non*
- Milèt
- Boeufs + *oui 3*
- Bèf +
- Vaches + *oui 2*
- Toro Bèf *oui 1*
- Cabris + *oui 3*
- Kabrit
- Moutons + *oui 6*
- Mouton
- Porcs → *non*
- Kochon
- Canards → *non*
- Kana
- Poules + *oui 2 coques*
- Poul
- Dindons → *non*
- Kodin'n

1.2 Aspects generaux de la culture du cafe par fermes
 1.2 Fason jeneral nan kilti kafe pou chak fèm

a. Densite de la population
 a. Kantite popilasyon

 ----- *12.5 0 fèl/la*



b. Age approximative des cafeieres
b. Laj apeare pye kafe yo genyen

c. Mode de semis des cafeiers dans les cafeieres
c. Fason yo simen kafe nan fèm yo

d. Etat physiologique des cafeiers
d. Kouman kafe yo ye

e. Type de maladies des cafeiers
e. Ki maladi ki nan kafe yo

Moins de 25% de la ferme. 10%
Pipiti pase 25% nan fèm la
De 25 a 50 % de la ferme. 10%
25% a 50% nan fèm la

Total de la ferme. 0
Total fèm la _____

f. Variete predominante
f. Varyete kafe ki pi plis la

g. Types d'arbre utilises pour l'ombrage
g. Ki pye bwa ki sévi pou lombray

h. Systemes de cultures (autres cultures produites)
h. Sistèm kilti (lòt/kilti kap (èt).



- i. Mode de conservation de sol.
- i. Fason ke yo pwoteje tè yo

----- *Pluie, etc* -----

- j. Combien de recolte de cafe obtiennent-ils par annee et quand?
- j. Ki kantite rekòt kafe ke yo fè nan yon lanne e ki lè yo fè-l'

----- *1. 500 kg de cafe en 3. Quantite* -----
 ----- *de cafe en octobre, 2. Janvier* -----
 ----- *3. en mai, fin de l'annee* -----

- k. Calendrier de travaux agricoles
- k. Kalandriye travay agrikòl yo

----- <i>culture</i> -----	----- <i>1978</i> -----
----- <i>Eclaircissage</i> -----	----- <i>Avril</i> -----
----- <i>Sanclage</i> -----	----- <i>Avril</i> -----
----- <i>Recolte</i> -----	----- <i>Janvier</i> -----

- l. Date de floraison du cafe
- l. Dat ke kafe yo fleri

----- *Janvier* -----

- m. Date de maturite du cafe
- m. Dat ke kafe yo mi

----- *Fin de Mars* -----

- n. Quand faut-il emonder
- n. Ki lè pou yo debranche pye kafe yo

----- *Fin de Mars* -----

- o. Comment secher la recolte
- o. Ki lè pou rekòt la seche

----- *A Tasse* -----



b. Origine des semis

c. Quantite de nouvelles plantes senees l'annee precedente

d. Surface de nouveaux cafeiers senees l'annee precedente

e. Pratiques culturales qu'il realise. Indiquer les mois

- Nettoyage des mauvais herbes
- Engrais
- Fongicide
- Paille

f. Pratique de conservation de sols.

Oui Non



- p. Comment et ou emmagasiner le cafe
 p. Ki jan ak ki bò pou yo sere kafe yo

In me

Dans la maison

- q. Quand doit on vendre le cafe
 q. Ki lè pou yo vann kafe-a

Maw

1.3 Techniques de production utilisees par le producteur
 1.3 Teknik ke plantè yo itilize

- a. Origine des plantules.
 a. Ki kote plantil yo soti

- Cafe rat
- Kafe rat
- Pepinieres en pots
- Pepinyè nan po
- Pepinieres sur plate bande
- Pepinyè sou plat bann

- b. Origine des semis
 b. Ki kote semans yo soti

Dans les jardins

- c. Quantite de nouvelles plantes semees l'annee precedente

- c. Kantite plant ke yo fèk simen nan lanne ya

- d. Surface de nouveaux cafeiers semes l'annee precedente

- d. Kantite tè ke yo mete kafe la dan-li lanne pase

- e. Pratiques culturales qu'il realise. Indiquer les mois

- e. Ki sa ke yo rive fè. Bay mwa yo

Aucun

Mars

Après l'année Juin

- Nettoyage des mauvaises herbes
- Retire move zèb yo

- Engrais
- Angré

- Fongicide
- Fonjicid

- Paille
- Pay

f. Pratique de conservation de sols.
 f. Ki jan ke yo konève tè yo

Oui X Non _____

Wi X Non _____

Non

g. Fertilisation des vivres et des cafeieres
 etablis.
 g. Eske nou fètilize viv yo ak kafe yo

Oui X Non _____

Wi _____ Non _____

Avec paille cafe

Quand et quelle quantite appliquee?
 Ki lè epi tou aki kantite

En l'anne 1984

1.4 Commercialisation du cafe. *oui*

1.4 Komès kafe ya

a. Specifier la quantite vendue et la quantite
 utilisee

a. Ki kantite kafe ke nou vann et ki kantite ke nou
 itilize

VENDU 500 kg. Utilise 200 kg.

b. Indiquer a qui a-t-on vendu le cafe l'an dernier.

b. Ak kilès ke nou te vann kafe ya l'anne pase

Tratement
 1.5 ~~Benefice~~ du cafe. *non*

1.5 ~~Benefis~~ ke nou fè sou kafe ya



- a. Type de ^{traitement} bénéfice realise.
 a. Ki jan de ^{traitement} benefice nou fè sou kafe ya
pas de traitement
- Sec
 - Seche
 - Humide
 - Mouye

- b. Qui realise le ^{traitement} benefice.
 b. Ki lès ki fè ^{traitement} benefis la. *+ yo*
- personne*
- Producteur
 - Pwodiktè
 - Commerçants
 - Kòmèsan

- c. Modes de sechage du cafe.
 c. Ki jan yo seche kafe
- Sechage en ciment
 - Sou siman
 - Sechage en terre *A tè ya.*
 - A tè ya

- d. Qui s'occupe de faire secher le cafe?
 d. Ki lès ki seche kafe yo
- La femme *oui*
 - Madamn-nan
 - Les enfants *oui*
 - Ti moun yo

- e. Lieu ou l'on conserve le cafe apres sechage.
 e. Ki kote ke yo sere kafe ya lè li fini seche
- Depot *oui*
 - Nan depo
 - Silots *non*
 - Nan silo *non*

1.6 Besoins en main d'oeuvre dans la culture du cafe
 1.6 Moun ke yo bezwen pou travay nan fem yo

Activites Aktivite	Mois Mwa	Hommes/Jour Gason/Jou	US\$/Hommes/Jour \$/Gason/Jou
<u>Pepinieres</u> Pepinyè <i>Am</i>	<i>Nov</i>	<i>1700</i> <i>1700</i>	<i>1700</i>
Semis Semans	-----	-----	-----
Arrosage Awosay	-----	-----	-----
Transplantation Transplatasyon	-----	-----	-----
Traitement phytosanitaire Tretman maladi	-----	-----	-----
Sarclage, Binage Saklay, Binay	-----	-----	-----
Remplissage de sachets Plen sache	-----	-----	-----
Construction de tonnelles Fè tonèl	-----	-----	-----
<u>Cultures cafeieres</u> Kilti kafe			
Preparation de terrain	-----	<i>Nov</i>	-----
Preparasyon te-a	-----	-----	-----
Plantation Plantasyon	-----	-----	-----
Sarclage Saklay	<i>Dec</i>	<i>25 Hommes</i>	<i>13 goll</i>
Emondage Emondaj	-----	-----	-----
Eclaircissage Ekleraj	-----	-----	-----
Control couvert Kontrol lonbray	-----	-----	-----

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and processing, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure throughout its lifecycle.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of a data-driven approach in decision-making and the need for continuous monitoring and improvement of the data management process.



Activites Aktivite	Mois Mwa	Hommes/Jour Gason/Jou	US\$/Hommes/Jour \$/Gason/Jou
Fertilisation Fertilizasyon	<i>Non</i>	<i>Non</i>	<i>Non</i>
Traitement phytosanitaire	<i>Non</i>		
Tretman maladi	<i>Non</i>		
Recolte Rekot	<i>Janv.</i>	<i>15 Hommes</i>	<i>15 gds</i>
Sechage Sechay			
Preparation du cafe			
Preparasyon Kafe			
Mise en sac Mete kafe ya nan sak			
Transport Transpò			

Indiquer si quelques une de ses activites sont realisees en groupe formel ou informel.

Indike si kèk nan aktivite sa yo fèt an gwoup

Informel

1.7 Utilisation de la pulpe, dechets ou nature organique par les producteurs?

1.7 Ki sa ke yo fè ak pay kafe ya. Yo jete yo ousnon eske yo itilize tankou angrè

engrais



a. Utilisent-ils ces sous-produits comme engrais organique.

a. Eske yo itilize li tankou dechè òganik

b. Comment s'y prennent-ils?

b. Ki jan yo fè li?

à la volée

c. Quand le font-ils?

c. Ki lè ke yo fè li?

Au moment de la vente au marché

d. Pourquoi le font-ils?

d. Pouki sa ke yo fè li?

pour vendre le sol.

2. Determinants socio-economique.

2. Enfomasyon socio-ekonomik

2.1 Education

Producteur

Epouse

Fils

2.1 Edikasyon

Pwodiktè

Madamn

Pitit

a. Alphabétise -

Nin
[]

Nin
[]

Nin
[]

a. Alfabetize -

[]

[]

[]

b. Niveau d'étude -

[] -

[] -

[] -

b. Nivo etid *N.M.*

[]

[]

[]

2.2 Informations sur la famille

2.2 Enfomasyon sou fanmi-ya

a. Combien de membres y a-t-il dans la famille, leur age?

a. Kombyen moun ki genyen nan fanmi-a, e ki lay yo?

7 membres

65 ans - 2 17 ans

RECEIVED

RECEIVED

- Combien d'hommes?
- Kombyen gason ki genyen?

----- 1 -----

- Combien de femmes?
- Kombyen fann'?

----- 1 -----

- Combien d'enfants?
- Kombyen ti moun ki genyen?

----- 1 -----

- b. Combien de chambre contient la maison? / 8cc
- b. Kombyen pyès ke kay la genyen?

----- 1 -----

- c. Type de toiture? / tôle
- c. Ki jan kay la kouvri?

----- tôle -----

- d. La famille dispose t-elle d'un appareil radio?
- d. Eske yo genyen yon radyo?

----- oui -----

- e. Produits qui entrent dans l'alimentation.
- e. Pwodwi ke yo manje

Produits Pwodwi	Achetes Achete	Recoltes Rekòt
Riz Di ri +	<input checked="" type="checkbox"/> oui <input type="checkbox"/>	<input checked="" type="checkbox"/> NM <input type="checkbox"/>
Mais + Mayi +	<input checked="" type="checkbox"/> oui <input type="checkbox"/>	<input type="checkbox"/> NM <input type="checkbox"/>
Sorgho + Pitimi +	<input checked="" type="checkbox"/> oui <input type="checkbox"/>	<input type="checkbox"/> NM <input type="checkbox"/>
Pain + Pen +	<input checked="" type="checkbox"/> oui <input type="checkbox"/>	<input type="checkbox"/> NM <input type="checkbox"/>
Haricots + Pwa	<input checked="" type="checkbox"/> oui <input type="checkbox"/>	<input type="checkbox"/> NM <input type="checkbox"/>
Banane Bannann'	<input checked="" type="checkbox"/> NM <input type="checkbox"/>	<input type="checkbox"/> oui <input type="checkbox"/>

Pwodwi	Achete	Rekòt
Igname	[]	[]
Yann	[]	[]
Huile	[]	[]
Lwil	[]	[]
Sel	[]	[]
Sel	[]	[]
Lait	[]	[]
Lèt	[]	[]
- Liquide	[]	[]
- Likid	[]	[]
- Poudre	[]	[]
- An poud	[]	[]
- Concentre	[]	[]
- Konsantre	[]	[]
Oeufs	[]	[]
Ze	[]	[]
Viande	[]	[]
Viann	[]	[]
Hareng	[]	[]
Aran	[]	[]
Sardines	[]	[]
Sadinn'	[]	[]
Spaguettis	[]	[]
Espageti	[]	[]
Poisson	[]	[]
Pwasson	[]	[]
Autres		
Lèt pwodwi		

f. Mode de preparation des aliments
 f. Fason ke yo kwit ranje

- Charbon []
- Chabon []
- Bois []
- Bwa []
- Four a gaz []
- Fou a gaz []

g. Approvisionnement en eau.
 g. Ki jan yo fe genyen dlo

- Aqueduc []
- Tiyo []
- Citerne []
- Sitèn []
- Puits []
- Pi []
- Riviere []
- Rivyè []

h. Ecoles []
 h. Lekol []

- Nombre de jour de classe par semaine?
- Ki kantite jou ke yo genyen lekol pa semenn?

- Qui paie les professeurs?
- Kiles ki peye pwofèsè yo?

- Niveau d'etude?
- Nivo etid?

- Dispose t-on d'un champ pour pratiques agricoles?
- Eske yo genyen yon teren pou yo travay late?

- a. Tenure de la terre. (A)
- a. Eske yo posede tè?

Hypothèque — (A)

Ipoték

Heritage

Eritay

Achat

Acha

Affermage — (A)

Afèmay

Metayage — (A)

De mwaye

- b. Valeur de la terre par hectare.
- b. Ki kantite te ya pa ecta?

----- 3 CARRÈT LITRA

- c. Pourcentage de revenus obtenus sur la production cafeire.
- c. Benefis ke yo fè sou pwodiksyon kafe

----- 10%

- d. Pourcentage de revenus obtenus sur d'autres cultures
- d. Benefis ke yo fè sou lòt kilti

----- 10%

- e. Pourcentage de revenus obtenus sur l'elevage.
- e. Benefis ke yo fè sou'gadinay

----- 10%

- 2.4 Fonctionnement de la ferme.
- 2.4 Oganizasyon fèm la-a

6 heures par semaine

- a. Qui administre la ferme?
- a. Kiles ki dirije fèm-nan?



b. Indiquer si le proprietaire de la ferme travaille en tant qu'ouvrier? *non*

b. Di si mèt fèm-nan ap travay tankou ouvriye

c. Indiquer si la femme du proprietaire travaille en tant qu'ouvriere?

c. Di si madanm' mèt fèm la ape travay tankou ouvriye?

- Combien de jour par annee?

- Konbyen jou pa lanne? *140 jours*

- Specifier les activites qu'elle realise?

- Di ki sa ke li fè? *elle est au champs*

d. Indiquer si les enfants travaillent dans la ferme?

d. Di si ti moun yo ap travay nan fèm la tou? *non*

- Combien d'enfants a-t-il?

- Konbyen ti moun ke li genyen? *2 enfants*

- Combien d'enfants travaillent dans la ferme? *non*

- Konbyen ti moun kap travay nan fèm la? *non*

- Combien de jour par annee?

- Konbyen jou nan yon lanne? *non*

- Specifier les activites qu'ils realisent?

- Di ki sa ke yo fè? *non*



ANNEX H:

Women in PPK



Annex H: Women in PPK

Recognition of the role women occupy in agriculture is contingent upon understanding the integrity of an agricultural cycle which unites all phases of production, processing and marketing of a particular crop. Inherent in this understanding is the recognition that the operational unit is not an individual farmer, male or female, but rather the household.

The household as a unit of analysis can be defined as:

"one or more persons voluntarily living together and sharing at least one meal in general, father, mother, children and other relatives, as well as other persons sharing their household arrangements" (UNESCO - 1983).

Once the household is defined as the unit of analysis, women are no longer "invisible" in the agricultural, or developmental, process and the integrated nature of all aspects of agricultural activities becomes evident.

Following from such an understanding of the role of women and the agricultural enterprise, IICA explicitly incorporates certain conceptual premises in all its undertakings:

- development interventions need to be interdisciplinary, and multisectoral in order to address the multiplicity of

roles and tasks that women typically undertake;

- institutional action should be predicated on the equal participation of both men and women;

- only through organization and equal access to the decision-making process can women achieve autonomy and equal benefits;

- recognition and understanding of the nature of gender roles in the rural milieu is essential to enhancing the efficacy and impact of modern agricultural interventions.

For the Haitian case, a sexual division of labor in the agricultural domain is conventionally assumed. Thus men are primarily responsible for the purely productive aspects of a particular crop cycle, are usually heads of households and landholders and form the ranks of crop speculators in the marketing sector. While women are responsible for bulking and selling crops, are not major decision-makers in their households nor usually landholders, and occupy the relatively low echelons of the marketing sector.

While there is a dearth of studies on these specific questions for the Haitian context, the observable reality in any Haitian rural community belies these assumptions. Thus in coffee production, men tend to be primarily responsible for planting, pruning and weeding, while women tend to be most visible in the harvest, processing and sale of the crop.

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There is a series of studies on stress reactions
for the hearing impaired, the research indicates
that they commonly believe they are responsible
for the problem, and tend to be primarily responsible
during periods of hearing loss, while some tend to be
less in the process, recognizing the role of the group.

By utilizing the operational premises articulated by IICA, the PPK has not only apprehended the integral role of women in the production of coffee, but has also incorporated women into project activities as significant actors. The recognition and integration of women within the project is predicated on the understanding of the unity of the entire coffee cycle, from garden to market, and the place of coffee production within the overall production strategies of Haitian farmers.

Women are represented in the PPK in all aspects of its activities. Women are visible as landholders, as groupement members, as pepinière workers, in addition to their more expected presence in processing, marketing and credit.

Despite the smaller actual number of women enlisted as project beneficiaries, they are present in equal proportions to men during the course of project activities.

The PPK was only able to field one baseline survey prior to project suspension. However, building on that initial inquiry, future surveys will be able to address specific issues in their relation to women. Indeed, the potential importance of this information cannot be underestimated, given current insufficient Haitian data for the entire agricultural sector as regards women.

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The parameters of women's involvement and benefit from project activities will be mapped through the collection of information on the following items:

1. Project inputs and outputs:

- percentage of women among beneficiaries receiving direct project benefits, by age, by marital status, and by size of farm and tenure;
- percentage of women receiving agricultural inputs;
- percentage of women being trained by the project.

2. Adoption of technology:

- attitudes of women towards introduced technologies;
- types of technologies most readily adopted by women;
- crop production alterations pursued by women;
- changes in volume, rate and venue of crop sales;
- changes in yields per crop.

3. Impacts:

A. Income, expenditures and savings:

- income differentials between men and women;
- income levels of the target population by sex;
- expenditure and savings differentials between men and women.

B. Health and nutrition:

- food consumption differentials between men and women;
- access to health facilities for men and women;



- changes in the nutritional status of children ages 1 through 4;
- changes in the health status of the farmer by gender.

C. Access to land and productive resources:

- proportion of land held by women;
- legal and traditional practices with regard to the ownership, inheritance and use of land, houses, other property and other production assets by women;
- decision-making within households with respect to production and its disposal, including marketing.

D. Employment and labor time allocation:

- total employment in major agricultural tasks in project area, and division by socio-economic status and gender;
- economic activity of women, including unpaid work in family holdings;
- part-time and seasonal employment of women;
- secondary occupations of rural women.

E. Participation in beneficiary organizations and decision-making:

- number and nature of beneficiary institutions for men, women and joint;
- leadership, decision-making practices and effectiveness of the institutions with respect to men and women;
- percentage of women in these participatory institutions;

- participation of women in project-related meetings,
including those with project officials.

In sum, not only does the PPK incorporate women, equitably in both idea and action, it promises to benefit women in the same degree and manner as men. At the same time, the PPK will be in a position to garner in-depth knowledge and understanding of the actual contributions women make to the coffee sector, with clear practicable implications for Haitian agriculture in general.

ANNEX I:

List of Acronyms



Annex I: List of Acronyms

ACRONYM	NAME
ADRA	Adventist Development and Relief Agency
ANK	Afe Neg Konbit
AEDC	Alliance pour l'Enfance et le Developpement Communautaire
AS	Armee du Salut
ANSH	Association Nationale des Scouts d'Haiti
AEM	Association des Eglises Missionnaires
CP	Caisse Populaire
CADCO	Coffee Advisory Committee
CECOPASE	Centrale de Cooperatives du Sud-Est
CECI	Centre Canadien d'Etudes et de Cooperation Internationale
CHPF	Centre Haitien pour la Promotion Feminine
CRLF	Community Revolving Loan Fund
FINCA	Foundation for International Community Assistance
MCC	Comite Central Menonnite
CHADEV	Comite Haitien de Developpement
CBP	Comite de Bienfaisance Pignon
CPB	Comite Paroissial de Baintet
COHAN	Cooperation Haitiano-Neerlandaise
CARE	Cooperation for American Relief Everywhere
NOCAT	Cooperative Nocat
CODEVA	Coude a coude pour le Developpement Valleen
CRS	Catholic Relief Service



ACRONYM	NAME
EWDH	Eglise Wesleyenne d'Haiti
GOH	Government of Haiti
ICI	Intermerdiary Credit Institution
IIEA	Interamerican Institute for Cooperation on Agriculture
IHPCADE	Inst. Haitien de Promotion du Cafe & des Denrees d'Exportation
IPP	IICA International Personnel
IMO	International Mission Outreach
MEDA	Mennonite Economic Development Associates
MBCH	Mission Baptiste Conservatrice d'Haiti
MP	Mission Possible
NGO's	Non-governmental organizations
OPRODEX	Office pour la promotion des Denrees Exportables
PADF	Pan American Development Foundation
PIP	Plan International de Parrainage
PPK	Coffee Revitalization Project (Pwoje Plante Kafe)
PROMECAFE	Programe Cooperatif Centre Americain pour la Modernization de la Cafeiculture
RT	Reboisement Total
SCH	Service Chretien d'Haiti
UNAPEL	Union Nationale pour la Promotion de l'Elevage
UNHAD	Union Haitienne de Developpement



ANNEX J:

IICA Institutional and Farming Systems Background



Annex J: IICA INSTITUTIONAL BACKGROUND

NATURE AND PURPOSES OF IICA

The Inter-American Institute for Cooperation on Agriculture (IICA) is the specialized agency for agriculture of the Inter-American system. With its present structure, it is the institutional continuation of the Inter-American Institute for Agricultural Sciences, which was created by the Council of Directors of the Pan-American Union in October of 1942.

The Convention governing the institute states that IICA's purpose is to "encourage, promote and support the efforts of the Member States to achieve their agricultural development and rural well-being". IICA is an International Organization, with full legal capacity. It is governed by its Member States, which are responsible for providing guidance, following up on activities and evaluating the Institute's actions. The Inter-American Board of Agriculture (IABA) is the Institute's highest governing body, and the General Directorate, its executive body.

The Inter-American Board of Agriculture (IABA) is composed of representatives of all the Member States. It meets every two years, and its responsibilities include approving policy guidelines and the two year programme budget. In order to perform these duties, the Board has the Executive Committee as an executive body, acting on its



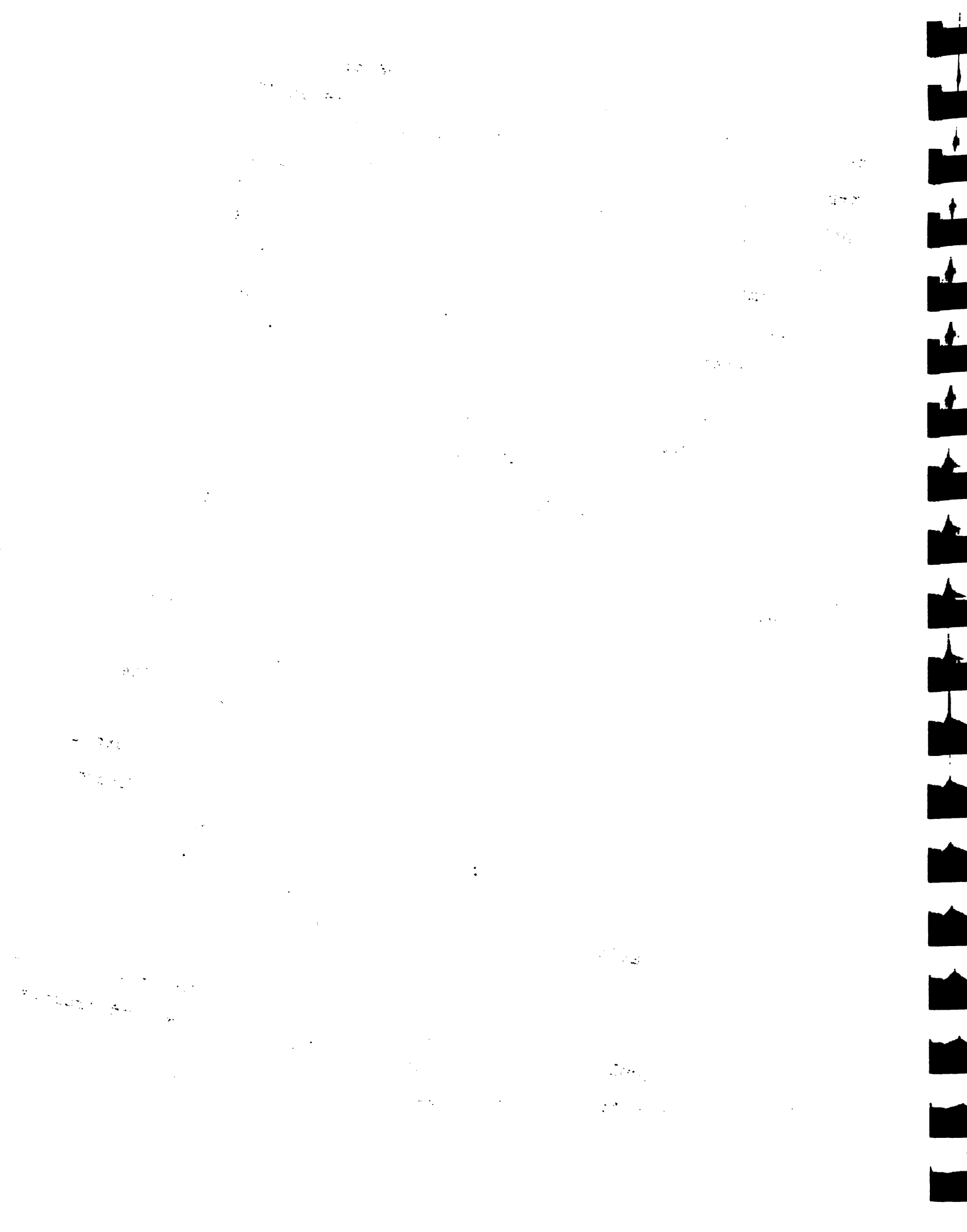
behalf. The Executive Committee is composed of representatives of twelve Member States, elected on the principle of rotation and geographic distribution. Its functions include examining proposals for the biennial programme budget, submitted to the Board by the Director General, and making preliminary comments and recommendations to the Board, in its role as a preparatory body.

The General Directorate is comprised of technical and administrative units responsible for coordinating and implementing of the Institute's actions, in accordance with policies established by the Board.

HISTORY OF IICA'S ACTIVITIES AND PRIORITIES

IICA is an organization dedicated to meeting the needs of its Member States, which derive from their efforts for agricultural development and rural well-being. The Institute's actions and priorities have gradually shifted over the course of the years, fitting themselves to new problems and meeting new needs in the countries. The process of change is noticeable both in the issues targeted through Institute action and in its approach to technical cooperation.

Initially, the Institute concentrated on developing agricultural sciences. In accordance with the mandate of its 1944 Convention, IICA's action was to encourage and promote



the development of agricultural science in the countries through research, graduate training and the dissemination of agricultural theory and practice. To meet its objectives, the Institute focused on two lines of action: training and research. It carried out activities in five major areas: agronomy, animal health and production, entomology, plant science and soils. At that time, the Institute was organized to meet the need for a training and research center; operationally and structurally, it was divided into units specializing in research and graduate instruction.

During the 1950's IICA expanded its sphere of activities, adding a third line of action for rural development. Regional offices were opened in Montevideo, Uruguay in 1951; and in Lima, Peru and Havana, Cuba in 1952.

This marked the beginning of the Institute's shift of focus toward the countries. At that time, the regional offices were used as the base for regional cooperation projects with the countries. The key component of IICA's new operating approach was the performance of regional actions by a group of experts concentrating on areas in which the countries lacked native technical capacity. The countries' technical teams were still being developed at the time, and international experts were required to fill national needs and to help develop capacities in the countries through the graduate training programme in Turialba.

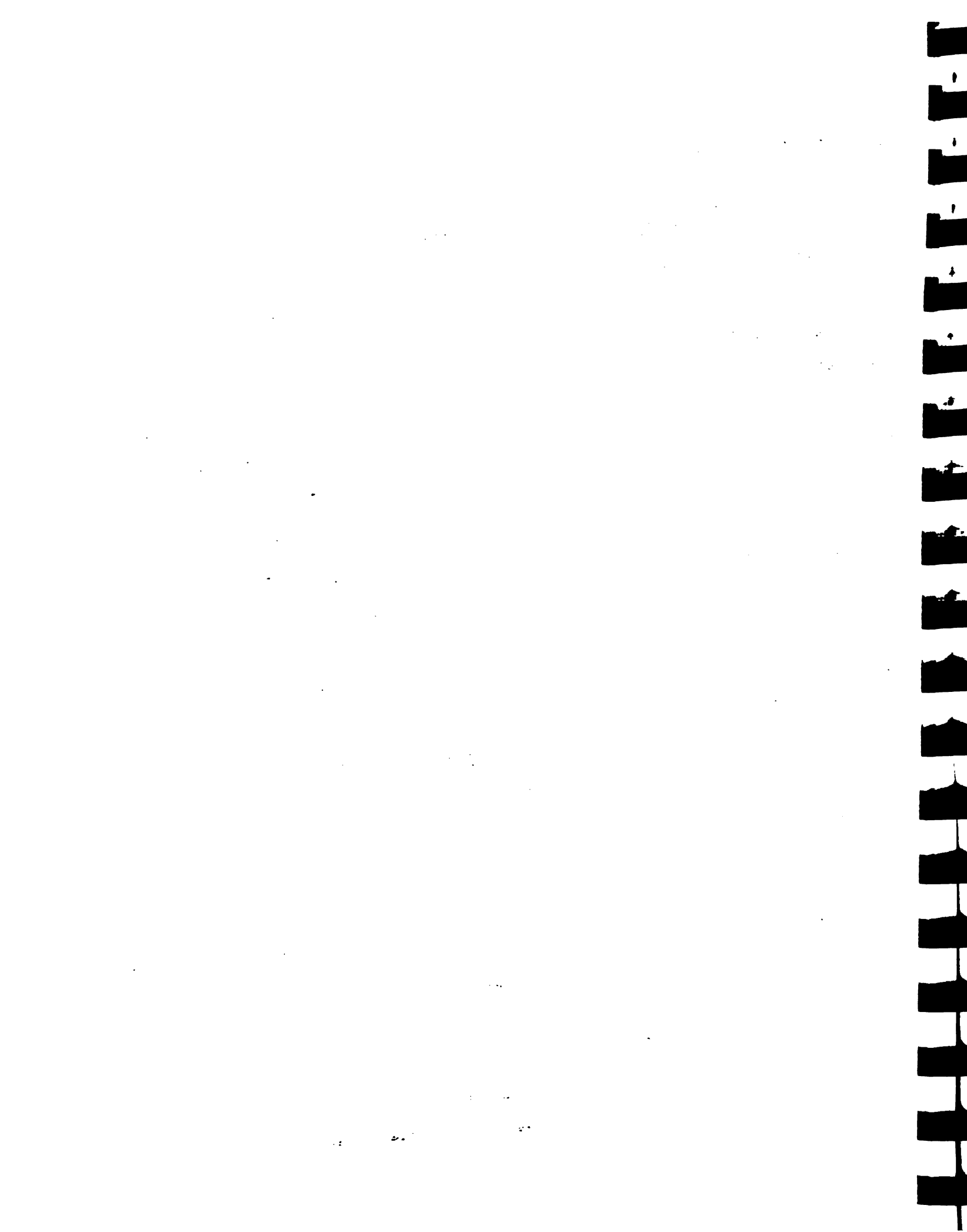


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During the 1960's profound changes occurred in international relations. Many countries assumed new commitments and geared themselves for development in the framework of the Alliance for Progress. Studies forthcoming from ECLA influenced intellectual currents of the time, which raised awareness of the problems of underdevelopment and helped redefine the role that should be played by government institutions.

The countries undertook agrarian reform and began to develop public institutions, which rapidly grew. IICA had a new administration and had received a number of recommendations from the fifth and sixth meetings of the Technical Advisory Council (Lima, March 1960 and San Jose, March 1961). The Institute revised its programmes with the assistance of external experts and its own staff members, and in consultation with national authorities in the countries. New directions and priorities were adopted for the 1960's calling on IICA to project its action throughout the hemisphere and establish general projects to benefit all of the Member States.

IICA took on a new dimension, requiring substantially increased resources to extend its programme and this was "achieved" with a contribution from the Special Fund of the United Nations. IICA's three lines of action from the previous period grew to six: rural development; institutional strengthening; utilization of the tropics;



agriculture in arid and humid regions; the regional cooperative programme for graduate training and research in crop breeding and livestock production; and agricultural communication.

The "new dimensions" of IICA's action induced major structural change: the Institute was transformed from a research and training center into an Inter-American Agency designed to provide technical assistance to its member countries. The regional offices were consolidated, the Institute's General Directorate moved from Turrialba to San Jose, and the Latin American Agricultural Credit Center was set up in Mexico where it would operate from 1961 until 1966, under OAS Project 201. Finally, the process of expanding and decentralizing the Institute's geographic coverage began with the establishment of offices in the Member States. All of these actions produced a diversification of IICA's technical teams and gave the Institute a permanent presence in the countries.

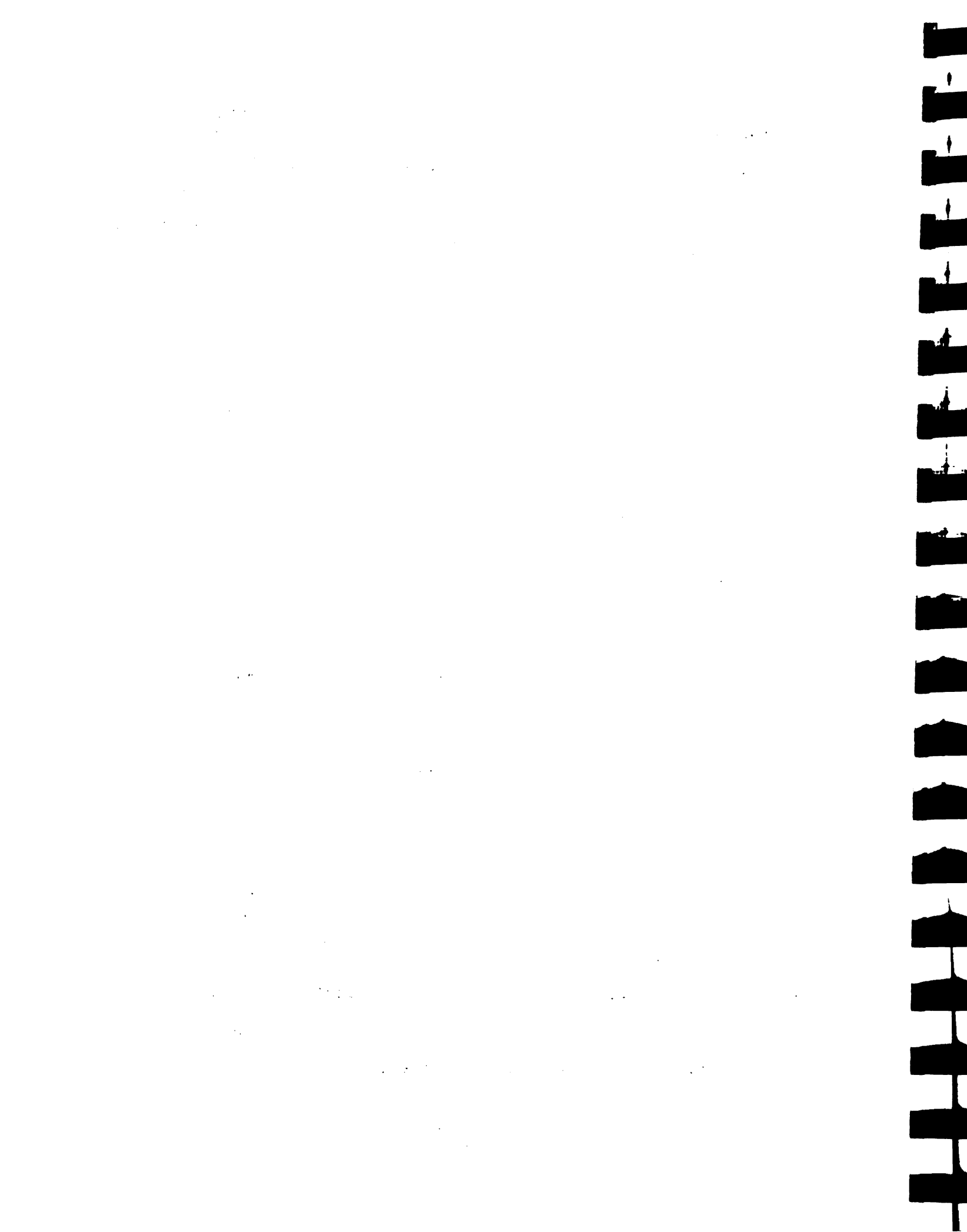
The changes experienced during the 1960's were incorporated into the Institute's first General Plan, approved in 1970. This plan established a new programme structure based on seven lines of action designed to expedite the consolidation and improvement of institutional systems for agricultural and rural development in the Member States.



The lines of action were: information and documentation for rural development; agricultural research and technology transfer; agricultural production, productivity and marketing; regional rural development; structural change and campesino organization; and development and administration of agricultural policy.

Each one of these lines of action in turn contained one or more programmes. Thus, the Institute had a total of 28 technical programmes by the end of the 1970's. During this period, IICA experienced rapid growth in its budget and in the number of Member States. Once again, growth sparked a process of renewal and expansion of the Institute's technical team, a trend which slowed toward the end of the decade.

Significant changes which occurred during the 1970's included the assignment of high priority to cooperation in the countries and the consolidation of a network of offices in all the Member States. These changes shifted emphasis to regional directorates, which were now made responsible for coordination and supervision. IICA's actions focused on strengthening the capacity of other institutions playing an important role in the guidance of agricultural development and supporting organizations sectoral planning and for policy implementation. The Institute also contributed by developing operational models for agrarian reform and



supporting the countries in efforts to change patterns of land tenure and to organize farmers.

Area directors were transferred back to San Jose in 1980 as a means of overcoming difficulties inherent in their widespread geographic distribution, streamline operating procedures, and allow them to provide more efficient support for the offices.

IICA's process of gradual change eventually transformed the Institute into an organization for technical cooperation and institutional strengthening in the agricultural sector; the process culminated with the ratification of the new Convention by the Member States in 1980.

The Convention introduced essential changes. It clearly defined the relationship between the Institute and the countries, specifically established IICA's functions and organs, programmes and operations and consolidated the Institute's role as the specialized agency for agriculture of the OAS system.

IICA's functions as established by the new Convention are to:

- 1) Promote the strengthening of national education, research and rural development institutions, in order to give impetus to the advancement and the dissemination of science and technology applied to rural progress.

- 2) Formulate and execute plans, programmes, projects and activities, in accordance with the needs of the governments of the Member States, that will help them meet their objectives for agricultural development and rural welfare policies and programmes.
- 3) Establish and maintain relations of cooperation and coordination with the Organization of American States and with other agencies or programmes, and with governmental and non-governmental entities that pursue similar objectives.
- 4) Act as an organ for consultation, technical execution and administration of programmes and projects in the agricultural sector, through agreements with the Organization of American States, or with national, Inter-American or international agencies or entities.

The Inter-American Board of Agriculture, at its first regular meeting held in Buenos Aires, Argentina, in August of 1981, decided it was necessary to review the Institute's policies and operations to make them consistent with the new Convention. Consequently the Board requested the Director General to form a group of five external experts in agricultural and rural development to conduct a general review of IICA's operations and policies.

The group of five experts studied the problems affecting agricultural and rural sectors in the countries and



recommended that the Institute adopt basic programmes, with the approval of the Member States, that would anticipate problems in Latin America and the Caribbean during the following decade. The group of experts suggested that programmes be designed to complement policies for agricultural and rural well-being defined by the countries themselves.

The Board adopted the 1983-1987 Medium Term Plan, written after careful consideration of the study of problems affecting countries in the region, and following consultation with the governments of the Member States. This plan replaced the earlier seven lines of action with ten programmes to serve as a support structure for IICA's action.

These programmes were (i) formal agricultural education; (ii) support of national institutions for the generation and transfer of agricultural technology; (iii) conservation and management of renewable natural resources; (iv) animal health; (v) plant protection; (vi) stimulus for agricultural and forest production; (vii) agricultural marketing and agro-industry; (viii) integrated rural development (ix); planning and management for development and rural well-being; (x) information for agricultural development and rural well-being.



Changes were made in IICA's organization and operational structure to provide more effective and responsive technical cooperation to the countries. In 1983, the Institute adopted a matrix structure with technical channels and operational channels and divided the hemisphere into four areas: Central, Caribbean, Andean and Southern. It set up 27 national offices and established CEPI, CIDIA, and CATIE as specialized centers, the latter being an associated unit. Area directorates were once again located in the countries to conduct functions of supervision and coordination.

From 1986-1989, four more countries joined IICA bringing the total Member Countries to 31. (See inside back cover for IICA's Member Countries)

Rapid development in the countries, especially in technical areas and in human resources, made it necessary to review the Institute's approach to technical cooperation and its areas of action. It soon became evident that a technical cooperation model based primarily on the work of specialists with limited operating resources and acting in relative isolation from one another was no longer responding to the needs of the countries. The countries had developed their own capacities in many fields, and this obliged the Institute to find ways of maximizing its impact in solving the problems.



Today the Institute needs to make better of scarce resources, of continuous and rapid change in its environment and of the growing move toward regional and sub-regional integration. Not only should it concentrate resources and activities in a smaller number of areas, but it also needs more effective instruments and procedures for cooperation so as to increase its technical expertise and exercise effective leadership in Latin America and the Caribbean.

IICA EXPERIENCE IN FARMING SYSTEMS

IICA's experience in farming systems generation and technology transfer is eighteen years old and covers work in Costa Rica, Guatemala, El Salvador, Nicaragua, Jamaica and Panama, as depicted in the table which follows.

TABLE J-1 : IICA CROPPING SYSTEMS PROJECTS

Country	Year	Project
Costa Rica	1974	Small Producers and Agrosilvopastoral Systems
Panama	1980	Cropping Systems Technology Transfer (CATIE -ROCAP)
El Salvador	1980	Appropriate Technology for Small Farmers (CATIE -CENTA)
Nicaragua	1982-1992	Technology Validation and Transfer for Small Farmers





noticeable in the traditional agricultural practices pursued on the thousands of hillside farms which account for 78% of the total number farms, 15% of the land area in farms, and produce over 85% of food grown for domestic consumption as well as a significant portion of crops grown for export.

IICA's experience in solving this specific problem in Jamaica relates to its involvement in four projects:

- Allsides Project in the parish of Trelawny (1976-1979).
- Olive River Project, also in Trelawny (1978-1981).
- Farming Systems Research in the parish of St. Catherine in the Guy's Hill and Watermount areas (1984-1987) Phase 1, 1988-1990 Phase 2).
- Hillside Agriculture Sub-Project (1988-1992)

ALLSIDES PILOT DEVELOPMENT PROJECT (1976-1979)

In general terms IICA's first assignment in Jamaica involved activities which were associated with the improvement of agriculture on hillside lands in which the conservation of land and water resources was of prime national interest. This assignment related to the Government of Jamaica formulating a specific project to overcome the problem concerning the inadequacy of appropriate cropping systems.



IICA was requested by the Government of Jamaica to assist in:

- i) developing a body of knowledge on hillside farming and cropping systems which is conducive to changing the pattern of traditional farming practices on steep hillside lands, and generating acceptable levels of income; and
 - ii) disseminating the knowledge gained as widely as possible.
- National efforts to resolve the problem were predicated on studies and major finding which indicated that:

Very high soil loss occurred on unprotected soils:

- 136 tons per hectare, equivalent to 54 tons per acre, per annum
- an associated and continuing heavy soil loss, together with significant reduction in production and productivity.

Very low or tolerable soil loss on land which was protected by bench-terracing:

- 18 tons per hectare, equivalent to less than 8 tons per acre per annum; and
- an associated retarded rate of soil erosion associated with enhanced production and productivity.

Allsides, in the parish of Trelawny, was selected as an appropriate project area, and MINAG in cooperation with IICA prepared a project titled:



"Hillside Farming Study and Implementation Project in Jamaica- The Allsides Pilot Development Project".

The project was accepted for financing by IICA through its Simon Bolivar Fund, in December 1976, the first phase of which was to last for 3 years.

Specific Project Objective

The specific objective of the project was to:

"Develop production systems for bench-terraced farmlands, based on multiple cropping and efficient utilization of land and water resources", which will result in:

- increased level of production and productivity;
- increased net-farm income;
- enhanced nutritional profiles for hillside farm families;
- increased opportunities for rural employment;
- an institutional framework capable of implementing similar changes in other areas of the country; and
- reliable production data for commodities produced by small farmers.

Activities related to the specific problem

- 1) Assisting the Ministry of Agriculture in formulating the Allsides Pilot Development Project for financing and co-implementation by IICA.



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2) Assessing fertility of soils of project area, determining limiting factors and crops which may be economically produced.

3) Establishment a of 3-acre research and demonstration plot on bench-terraced land to:

- determine and demonstrate food crop production techniques;
- study and develop new techniques and production systems, including their economic analyses.

4) Collaboration with MINAG staff in designing and analyzing systems of production.

5) Collaboration with MINAG staff in the elaboration and execution of soil conservation projects on bench-terraced land.

6) Maintenance of demonstration plots, data collection and analysis.

7) Undertaking applied agronomic and economic research into cropping systems during a process of annual development and re-validation.

8) Training and transfer of technology, using results from research and demonstration activities, through seminars,



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production and extension materials, workshops, field trips as part of overall technology development.

9) Providing in-service training for Jamaican nationals in areas such as soil fertility assessment.

10) Carrying out a case study of the domestic marketing situation with particular reference to "Higglering".

11) Assisting farmers in adopting new technology through on-farm demonstration plots, provision of production inputs, etc.

12) Studying the institutional framework necessary for delivering production to consumers, and making recommendations for improving organizational performance.

13) Undertaking studies in the marketing of principal hillside crops produced in areas surrounding the project site.

14) Determining critical problems and needs of farmers, and establishing the Allsides Pre-Cooperative.

15) Assisting MINAG in developing methodologies for formulating a National Hillside Farm Development Program (NHFDP)

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the implementation of data-driven decision-making processes. It discusses how data can be used to identify trends, forecast future performance, and optimize resource allocation across different departments and projects.

4. The fourth part of the document addresses the challenges associated with data management and analysis. It identifies common issues such as data quality, integration, and security, and provides strategies to overcome these challenges effectively.

5. The fifth part of the document discusses the role of technology in enhancing data management and analysis capabilities. It explores the use of cloud computing, big data, and artificial intelligence to streamline data processes and improve decision-making accuracy.

6. The sixth part of the document emphasizes the importance of data governance and compliance. It outlines the necessary policies and procedures to ensure that data is handled in a secure and ethical manner, in accordance with relevant regulations and standards.

7. The seventh part of the document discusses the benefits of data-driven decision-making. It highlights how data can lead to improved operational efficiency, increased customer satisfaction, and better overall organizational performance.

8. The eighth part of the document provides a summary of the key findings and recommendations. It reiterates the importance of a data-driven approach and offers practical advice for implementing such an approach within the organization.

9. The ninth part of the document discusses the future of data management and analysis. It explores emerging trends and technologies that are expected to shape the data landscape in the coming years.

10. The final part of the document concludes with a call to action, encouraging the organization to embrace a data-driven culture and to continuously invest in data management and analysis capabilities to stay competitive in the market.

- providing a descriptive and quantitative diagnosis of hillside agriculture;
- defining and applying criteria for selecting watershed areas needing priority rehabilitation;
- preparation of NHFDP - objectives, goals, strategy, and recommendations for implementation.

16) Preparing an agricultural research position paper as a basis for increasing national research capability.

17) Preparing and presenting a technical paper on hillside agriculture at the XVI Annual Convocation of the Caribbean Food Crops Society held in the Dominican Republic in 1979.

18) Preparation of project "Pilot Hillside Agricultural Project", with IDB financing assistance, for extending the scope of the Allsides project in the Southern Trelawny area of Jamaica.

19) Diagnosis of farming systems for Allsides and surrounding areas, and undertaking agro-socio-economic surveys in collaboration with the Ministry of Agriculture.

20) Designing and implementing non-bench terrace conservation methods at Olive River for protecting lands on slopes similar to those at Allsides using successful cropping systems developed at Allsides.



21) Preparation and presentation of paper titled: "The Allsides Project Case Study" at the Inter-American Congress of Food and Agricultural Production, in Sao Paulo, Brazil, September 1981.

22) Preparing initial proposals for IFAD projects to assist with the improvement of hillside farming in Jamaica which culminated in the IFAD/IDB Small Farmer Program in Jamaica.

23) Designing and testing alternative models of farmers' organizations.

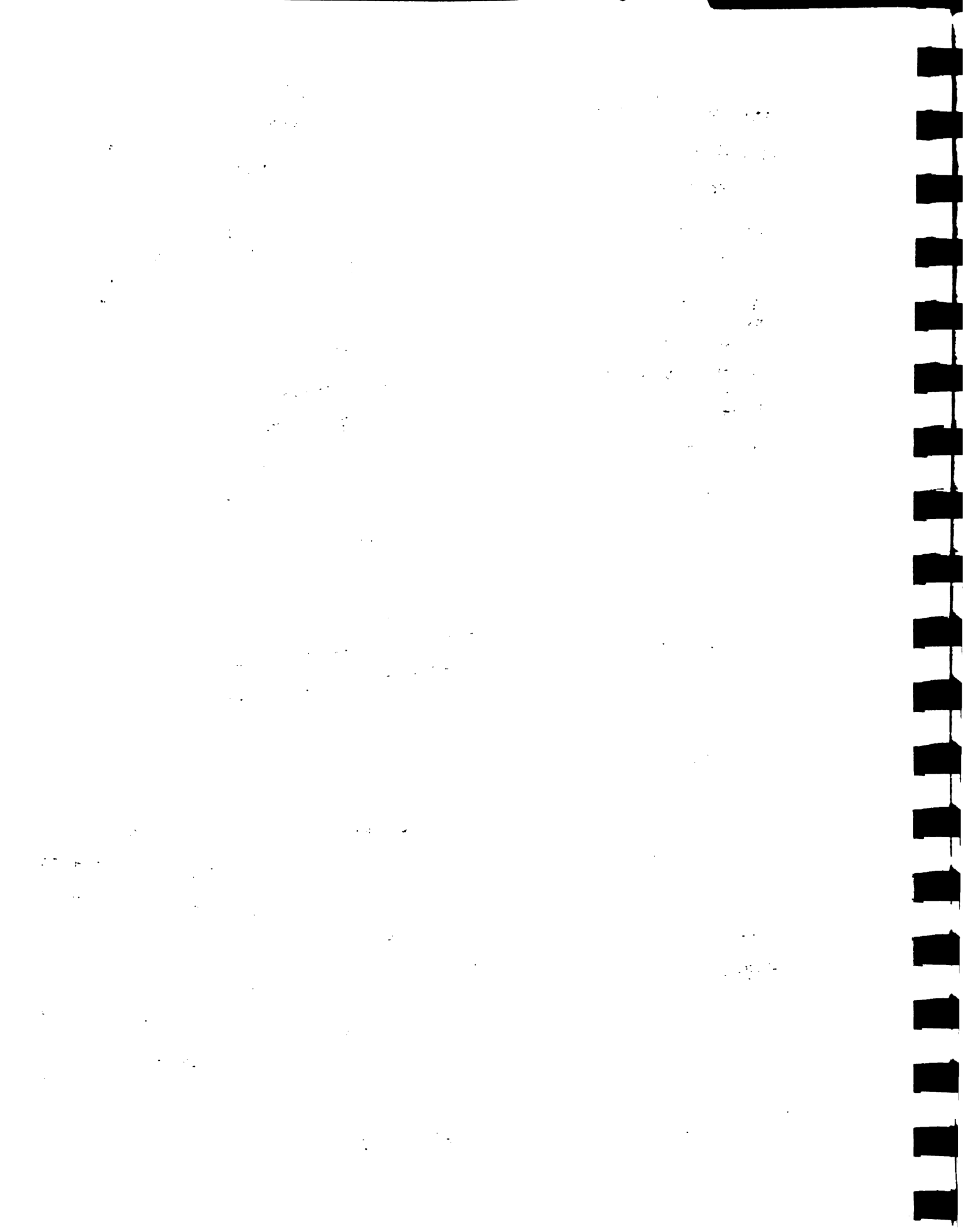
24) Re-inforcement of the operative unit at Allsides with respect to project programming, coordination, management and implementation.

THE OLIVE RIVER PROJECT (1978-1981)

(Developing and Testing Alternative Approaches to Bench-Terracing)

The Olive River Project, which was a sub-project of the Allsides Project, was designed to test alternative approaches to bench-terracing, in view of its very high capital cost for the construction of infrastructure. The activities involved:

i) Identifying land not too far distant from the Allsides research station, having similar slope categories, rainfall



profile and soil types to those off Allsides, and in an area in which crops included in the cropping systems developed at Allsides could be economically produced.

ii) Construction of infrastructure for quantifying soil loss and developing measures other than bench-terracing for restricting accelerated soil erosion. These measures were:

- individual hills with hillside ditches;
- contour mounds with hillside ditches;
- contour mounds with a grass buffer strip; and
- individual hills (used as the check)

iii) Establishing crops and analyzing the results in terms of volume of production and of soil loss.

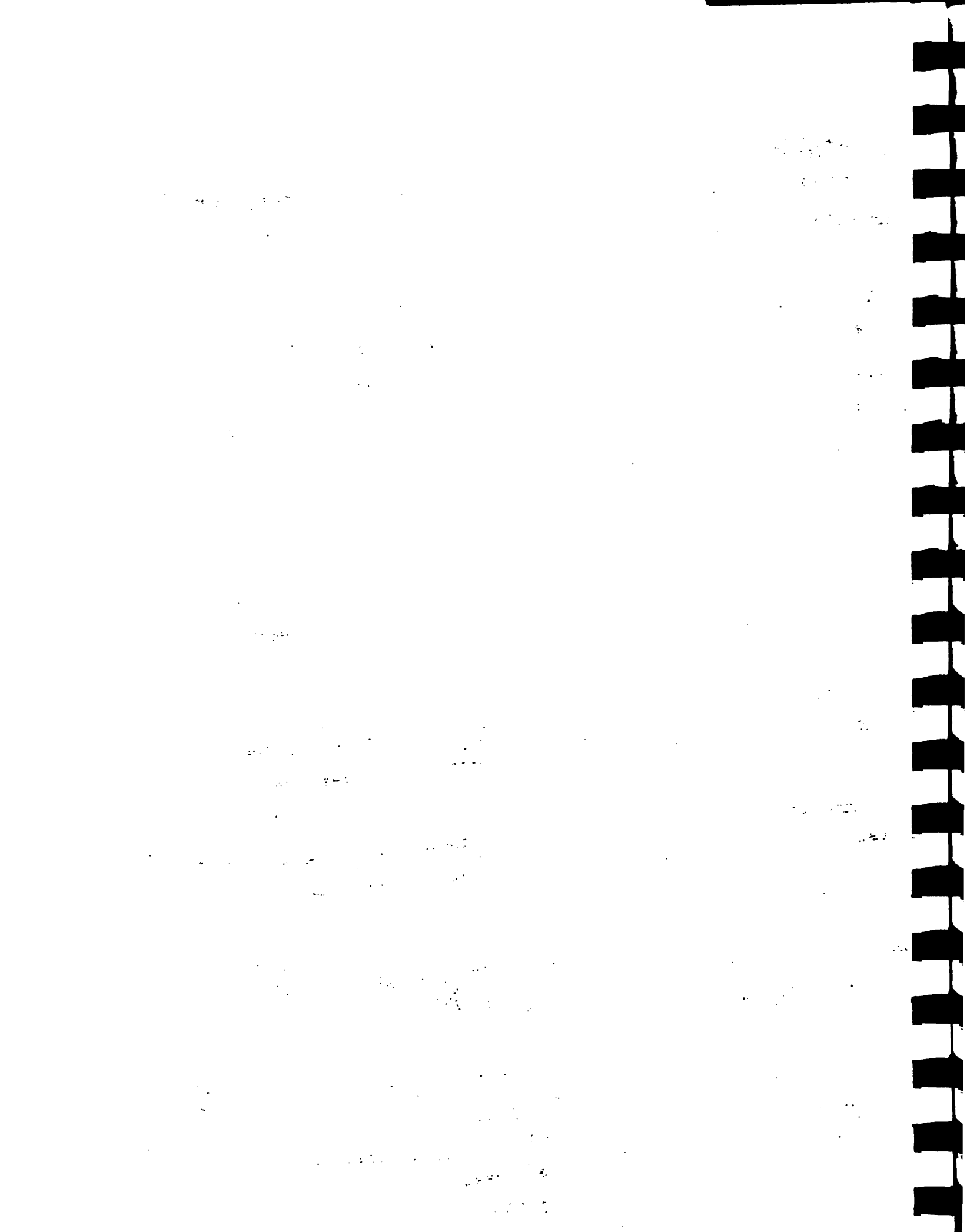
iv) Assessing and undertaking measures for reducing heavy nematode damage associated with yam production in general.

v) Initiating cropping systems other than those used at Allsides including crops such as coffee and tetraploid banana.

FARMING SYSTEMS RESEARCH IN THE CROPPING SYSTEMS PROJECT

(1984-1987 Phase 1, 1988-1990 Phase 2)

The lag in the development of adaptive research (appropriate technology) and the low rate of adoption by farmers of even that technology which is available occasioned a search for



corrective measures for overcoming these deficiencies, especially in the interest of small farmers.

In November 1964, MINAG, through its Research and Development Division, with assistance from ICDA and funding by the CDFC of Canada, formulated the Cropping Systems Project to test the appropriateness of the Farming Systems Research Approach for improving the major cropping systems in the Guy's Hill and Watermount areas of the St. Catherine Land Authority. ICDA was assigned the responsibility for technical support, monitoring services and administration of the funds while MINAG undertook responsibility for on-farm research.

PROJECT OBJECTIVE (1964)

Overall Objective

"to initiate and implement a structured farming system research project in two different ecological zones of the St. Catherine Land Authority".

Specific Objective

(a) To identify improved production methods for the major cropping systems of the Guy's Hill and Watermount areas that are acceptable to farmers.

(b) To conduct in-service training of project staff and associated personnel in on-farm research techniques.



(c) To initiate and support adaptive research and a program for technology transfer to small farmers, with reference to the farming systems research being undertaken in the project area.

(d) To obtain a more detailed understanding of the farming systems in the two project areas.

The results obtained in the Cropping System Project indicate that the Farming Systems Research Approach was an appropriate methodology for adapting technology to the small-farmer environment since it resulted in a more rapid assimilation of beneficial technology by small-farmers than had been experienced through other approaches.

ACHIEVEMENTS

The major achievements of the program in which IICA has been involved in Jamaica since 1976 include:

1) Development of a body of technical information for use in undertaking the program of work pursued at Allsides.

2) Development and testing of 20 cropping systems for Allsides from which 8 were replicated, re-tested and validated.



- 3) Identification and development of alternative soil conservation measures to that of bench-terracing (at Olive River).
- 4) Quantification of soil loss under non-bench terraced measures of soil conservation.
- 5) Preparation and distribution of technical information covering various aspects of cropping systems on soil-conserved land.
- 6) Considerable data and information related to the hillside agricultural project procured through experimental work, case studies, surveys, workshops and seminars.
- 7) Creation of the Allsides Pre-Cooperative.
- 8) Preparation of the Pilot Hillside Agricultural Project.
- 9) Preparation of the National Hillside Farmer Development Program.
- 10) Determination of soil loss from cropping systems developed on land protected with non-bench terraced measures.
- 11) Provided a catalytic effect to other organizations undertaking projects in the area of developing cropping



systems on soil-conserved lands, as a means for solving the specific problem.

HILLSIDE AGRICULTURE SUB-PROJECT (1988-1992)

IICA and the Ministry of Agriculture in Jamaica jointly manage a Hillside Agriculture Sub-Project.

The sub-project and benchmarks achieved to date are outlined below:

Title: IICA/MINAG Farming Systems Project

Implementors:	Ministry of Agriculture & IICA
AP Grant:	US. \$1.2 million
Duration:	5 years
Commencement date:	November 15, 1988
Termination date:	December 31, 1993
Beneficiaries:	HAP/ and 168 farmers; 170 achieved
Anti-erosion training:	Yes
Primary outputs:	1) Economically efficient tree crop-based farming systems. 2) Improved watershed management practices. 3) Farmer organizations which support production and marketing activities of individual farmers. 4) Recommendations on improved marketing systems. 5) Recommendations for research, extension, and agricultural policy to increase productivity and expand acreage of perennial crops. 6) Farming systems methodology institutionalized within MINAG R&D Division.
Cocoa:	7,088 seedlings distributed. 6,223 resuscitated.
Coffee:	5,499 seedlings distributed. 2,795 resuscitated.
Fruit Trees:	10,795.
Coconut Trees:	3,861.



The Hillside Agriculture Project, funded by USAID, was evaluated by Tropical Research and Development, Inc. in June 1992. Their summaries, conclusions and recommendations follow:

EXECUTIVE SUMMARY

The Hillside Agriculture Project officially started in February 1987 with a life-of-project of seven years. USAID obligations are authorized up to US\$ 10 million. Technical assistance and physical inputs for tree crops are provided to farmers in the Rio Cobre and Rio Minho watersheds through sub-projects funded and supported by a central Project Management Unit.

HAP has introduced technical packages which typically include farm planning, fertilizers, increases plant density, improved plant stock, pest and shade management and weed control, as well as low-cost soilconservation techniques. The aftermath of Hurricane Gilbert in September 1988 reoriented the project towards rehabilitation of trees and away from the planting of new seedlings. Cocoa and coffee figure as the two most important crops in the Hillside Agricultural Project (HAP), but fruit, timber and coconut enterprises play a lesser role.

The impact of HAP on both productivity and production is clearly positive. Pre-project productivity levels of participating farmers were on the order of 8 to 12 boxes per

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

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3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and processing, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure throughout its lifecycle.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that the data management processes remain effective and aligned with the organization's goals.



acre for coffee and 6 to 12 boxes for cocoa, well below national, average yields of about 50 boxes per acre for both coffee and cocoa. Taking 50 boxes as a reasonable estimate of yields after HAP assistance, participating farmers should realize increases of 300 percent to 400 percent for these crops.

As of December 1991, some 4,444 farmers have received benefits from 13 sub-projects. Data on farm and non-farm income, input costs and demographic characteristics are sparse. Nevertheless, by using available information and "best guess" estimates, a 14-percent increase in income is a reasonable expectation ofr the average farm family.

Up to the end of 1991, cocoa planting for all sub-projects was 517 acres, cocoa resuscitation 1,949 acres, coffee planting 163 acres, and coffee resuscitation 232 acres. The net present value of incremental production forthcoming from these activities is estimated at Ja\$24.2 million, evaluated in constant, 1990/91 Jamaican dollars. This is a crude estimate of the contribution of HAP to the Jamaican economy; it also is a very tentative estimate because of the previously mentioned lack of good data and because of ongoing changes in the macro economy.

The project areas were chosen because they are composed of hilly, easily erodible terrain and because degradation of



these lands due to agricultural practices is readily apparent. HAP has promoted both "engineering" and "agronomic" measures to reduce degradation of the environment in the targeted watersheds. Participating farmers clearly have adopted these practices, resulting in a positive environmental impact.

HAP has focused its data-collection efforts on agronomic variables. Information on farmers and farm characteristics is sketchy. Physical and biological measures used to reduce soil erosion, and the measures used to manage and reduce pesticide use are the most meaningful environmental indicators; data on these measures could be extracted from administrative files or collected in sample surveys. All these types of data could be organized and entered in a management-information system for easy access, analysis and reporting. Development of the MIS began as early as 1988, but has lagged badly. Consequently, the wealth of data already collected by the various sub-projects cannot be effectively analyzed without an inordinate expenditure of time on the part of the analyst.

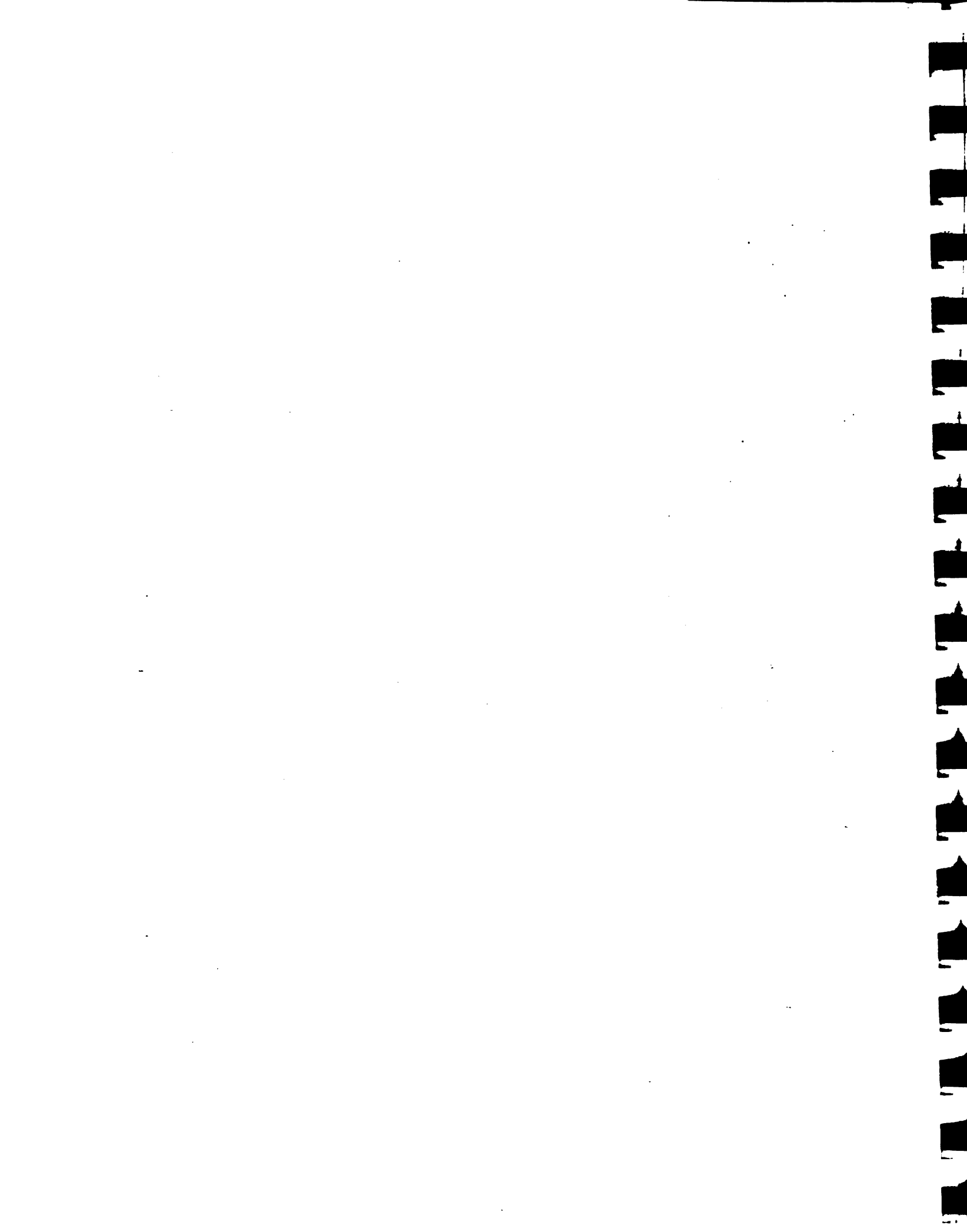
Participating farmers' production undoubtedly will increase over the next several years as newly planted and resuscitated trees reach maximum yield levels. Also, some "spread" effects are occurring and are likely to increase in the next few years. In the long run, however, we do not believe that



higher production levels will be sustained without the presence of HAP or similar assistance to hillside farmers. Cocoa and coffee production, in the absence of continuing assistance, probably will peak about five to ten years from now and begin a gradual decline.

To assure sustained production growth, two actions are recommended. First, extend the live of HAP to February 1997. This extension will enable the project to serve more farmers in the Rio Cobre and Rio Minho and possibly in other watersheds as well. Second, HAP should develop detailed plans and try to institute a permanent, self-sustaining system to provide technical assistance and possibly capital infusions to small tree-crop farmers. At this point, what organizaional forms or funding mechanisms will be feasible, let alone optimum, is impossible to determine. HAP, however, is in an unique position to study this issue, put forth a plan and help implement it. As an intermediate target, HAP should develop a detailed plan within the next year and circulate it for discussion to all interested parties.

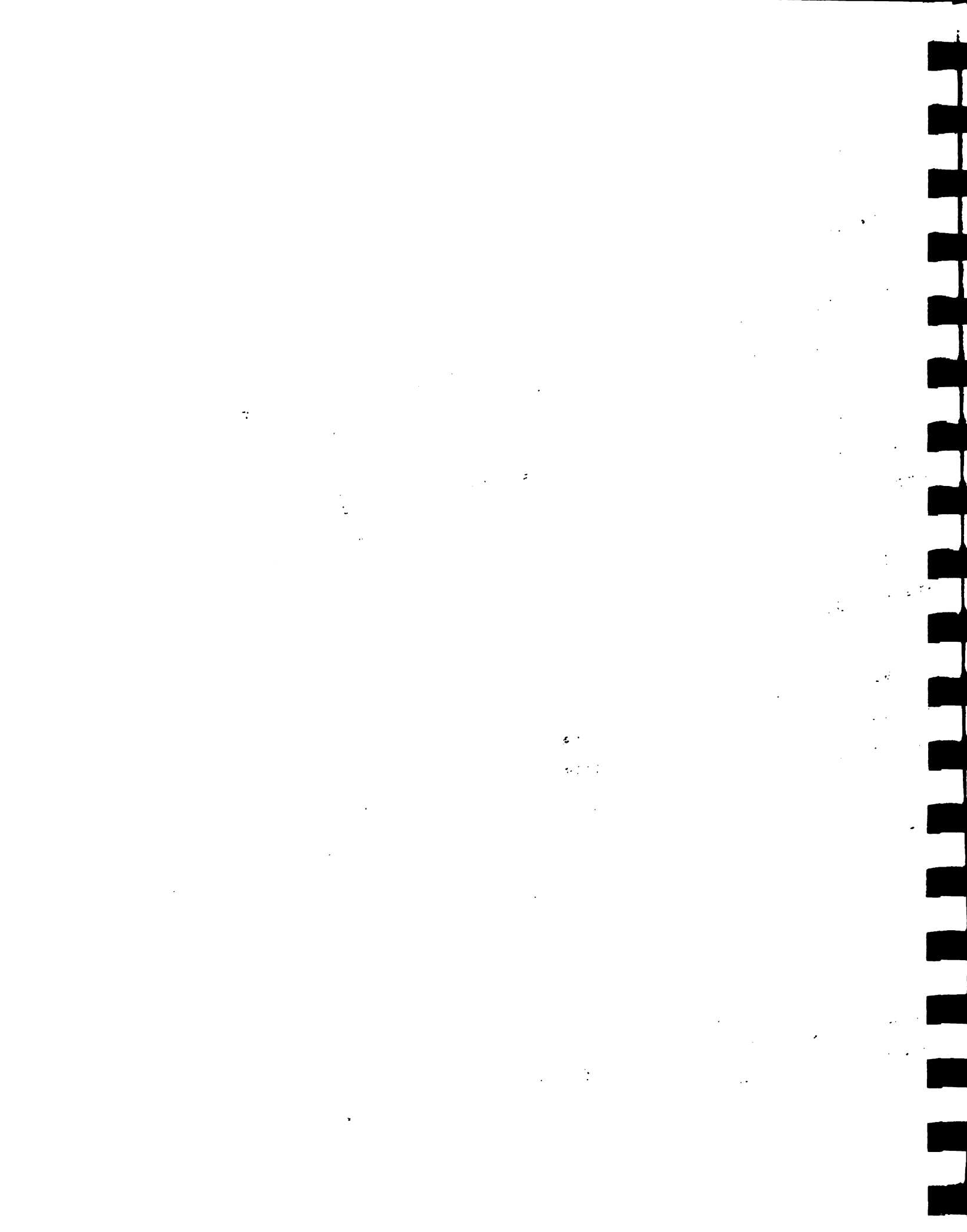
To support this initiative, HAP must make a special effort to improve its socioeconomic data collection and analysis and put in place a systematic, comprehensive and up-to-date MIS as soon as possible.



CONCLUSIONS AND RECOMMENDATIONS

Lessons learned

1. Sub-projects should have clear objectives and progress indicators, but implementation should remain flexible.
2. Needs of the clients, who are small tree-crop farmers, are paramount in the design and execution of effective sub-projects.
3. Introduce new technologies only when client farmers are able to adopt and effectively use them.
4. Use proven, effective techniques to teach recommended production practices. Use of demonstration plots to show the effect of fertilizer on cocoa production is a good example.
5. Sub-projects must be relatively small and manageable to ensure large production increases on participating farmers' fields.
6. Accountability of sub-project implementors can and should be ensured by a combination of required, periodic reports and site visits by HAP managers.



7. While the average age of participating farmers is greater than 60, involving youth in sub-projects is still possible, and UNITAS provides a good example.

8. Farmers of all ages will participate in sub-projects if they are convinced of the profitability of technical packages.

Recommendations

1. Extend the PACD of HAP to February 1997, with no change in authorized funding.

2. USAID should authorize HAP to assist hillside farmers in some new geographical areas, but the PCC should give greater attention to possible conflicts with other projects.

3. The PMU should consider development of new sub-projects in the Wag Water and Yallahs watersheds, but not should change the Rio Cobre and Rio Minho watersheds.

4. While cocoa and coffee will probably continue to be important, the PMU should consider devoting more resources to economic fruit trees and associated processing facilities.

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5. The PCC and PNC should focus more on topics of interest to women, particularly marketing, processing and cottage.

6. HAP should lead a cooperative effort to institute a permanent, self-sustaining system to provide technical assistance and possibly capital infusions to small tree-crop farmers.

7. HAP should be more actively involved in policy debates relating to the provision of technical assistance and other inputs to small farmers, but not involved in commodity-pricing issues.

8. Because socioeconomic data collection and analysis have lagged, the PNU should make a special effort to bring them up to speed.

9. The PNU also should as soon as possible develop and implement a systematic, comprehensive and up-to-date management-information system.

Conclusions

HAP, working through its sub-projects, has improved the well being of many hillside farmers by enabling them to improve their cocoa and coffee plantations and thereby ensure higher



levels of income for many years to come. This accomplishment is the result of providing technical advice that is responsive to farmers' needs and supplying appropriate physical inputs.

A need will continue for technical advice tailored to the needs of hillside tree-crop farmers, and this advice will not be adequately forthcoming from existing extension services. Furthermore, capital in the form of seedlings, fertilizer and pesticides for the first year or two after planting should be provided to small tree-crop farmers. To perform these functions on a continuing basis, HAP would, in essence, evolve from a successful, but impermanent, donor-financed project into a permanent, self-sustaining system, dedicated to the support of hillside tree-crop farmers.

If HAP is extended, as recommended, it will have nearly five years to extend assistance to more farmers and refine its delivery systems. But at the same time, if it is to evolve into a permanent institution, HAP must do a much better job of analyzing, evaluating and disseminating information to the wider community of scholars, administrators and decision makers.

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ANNEX K:

IICA Coffee Technology Background



Annex K: IICA Coffee Technology Background

PROMECAFE * Ten Years of Work

Background

PROMECAFE was created at the request of a number of Central American countries, which concerned by the appearance of coffee leaf rust in Brazil in 1970, organized a meeting with the support of IICA. At this meeting, the concept of a regional project, financed by the participating countries based proportionally on their coffee production, was presented by Dr. Pierre G. Sylvain, a Haitian Specialist working at CATIE, IICA's sister research organization.

Although Dr. Sylvain's proposal was not supported at the 1970 meeting, it was again considered in 1977 and became a signed agreement between Panama, Costa Rica, Honduras and El Salvador in 1978. They were later joined by Nicaragua, Guatemala, Mexico and the Dominican Republic. This agreement focussed not only on addressing the problem of plant protection (coffee leaf rust and coffee berry borer), but also on integrated improvement of coffee production.

* Regional Cooperative Program for the Protection and
Modernization of Coffee Production



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The five year agreement, which has been twice renewed, had as its general objective "to promote, through regional cooperation, agronomic research and coffee production technology in order to increase coffee productivity in the member countries".

Small donations and member country dues kept PROMECAFE activities operating from 1978 to 1981, when ROCAP made a \$3.5 million grant which enabled technical activities to be broadened extensively.

PROMECAFE Strategy

The overall PROMECAFE strategy included the following medium-term objectives:

1. Strengthening the technical and scientific capability of member country coffee institutions in order that these may address their own problems more effectively.
2. Generation of scientific information to combat leaf rust and coffee berry borer efficiently , and to detect and control pesticide residues in coffee.
3. Evaluation of coffee genetic material for the purpose of selecting and reproducing rust resistant, high-yielding, high-quality varieties.



4. Methodological development of coffee technology generation, adaptation, validation and transfer.

5. Creation and/or strengthening of documentation centers and data banks for the purpose of developing a regional coffee information system.

6. Strengthening of the research infrastructure.

This general strategy became operational through an implementation agreement signed by IICA, the member countries, CATIE, OIRSA and USAID/ROCAP. At the extra-regional level, the following agencies also cooperated with the technical activities:

French Institute of Coffee and Cocoa Research (IRCC-CIRAD)
International Center of Coffee Rust, Oeiras, Portugal (CIFC)
Vicosa Federal University, Brazil (UFV)

PROMECAFE is structured very simply with representation from each member country, which is organized into an Advisory Committee. This committee relates to the Project Director who is responsible for project implementation. The Project Director is an IICA employee who works within IICA's institutional framework.

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Activities and principle results

PROMECAFE project activities have been organized into seven basic activities, these being:

1. Coffee Leaf Rust control and research

Research led to the development of a methodology to study the epidemiology of the disease. The results showed that three, sometimes only two applications of fungicide are sufficient to control rust, while the preferred application of copper-based fungicides has been reduced from 3.0 kg/ha to 1.5 kg/ha, based on the research recommendations. These results have been disseminated through publications and meetings, and they have proven extremely helpful to other countries, particularly those in the Caribbean, which have identified rust only recently.

2. Coffee Berry Borer control and research

Field research has been conducted in order to understand the life cycle of the berry borer under different conditions. Studies have shown that Thiodan is the most effective product, applying from 0.75 to 1.0 kg/ha three times a year.

Research has also shown the advantage of taking sanitary measures to ensure the protection of coffee stands, such

as collecting fallen berries after harvest.

Meetings and seminars have been held to disseminate the recommended techniques.

3. Research on Pesticide Residues and its control

Experiments were conducted to determine the accumulation of pesticide residues. The analysis uncovered the existence of lead residues. Some copper-based fungicides contain a high content of lead impurity, the acceptable level being 250 ppm of lead.

This research was carried out jointly with USDA experts, as was training in residue analysis.

4. Development and reproduction of rust-resistant varieties

PROMECAFE has concentrated on producing a high-quality and high yielding coffee variety which is resistant to rust and other coffee diseases. The best improved, rust-resistant material in the world has been evaluated at CATIE and then, through adaptive research in all participating countries, via farm-level experiments. All research results have been computerized for easy identification of improved varieties. Each country shall soon place at the disposal of its coffee



farmers a high-yielding variety which at the same time is rust-tolerant.

The technology has also been generated for easily and efficiently producing exceptional plants through micro-cutting reproduction.

5. Information systems and data bases

PROMECAFE has also concentrated its efforts on documented information about coffee and plant protection information. IICA's documentation center, CIDIA, has collaborated in this effort more than 7000 documented citation on coffee have been electronically deposited.

6. Development, adaptation and transfer of appropriate technology

PROMECAFE's priority has been the small and medium sized farmer and for this reason it worked to develop a methodology which could transfer technological advances to over 200,000 small farmers, using appropriate technological packages.

In a number of the member countries, different technological packages were transferred through grassroots organizations.

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Special mention should be made of the success of working, in Guatemala, with the "Work and Friendship Groups".

7. Training

One of the key instruments for PROMECAFE's success has been training of key staff in the different member countries.

Short courses, seminars, travel study and workshops have all played an important part in developing a corps of over 5000 technical staff working with coffee.

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ANNEX L:

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ANNEX L: BIBLIOGRAPHY

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and processing, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure throughout its lifecycle.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of continuous monitoring and evaluation of the data management process to ensure it remains effective and aligned with the organization's goals.

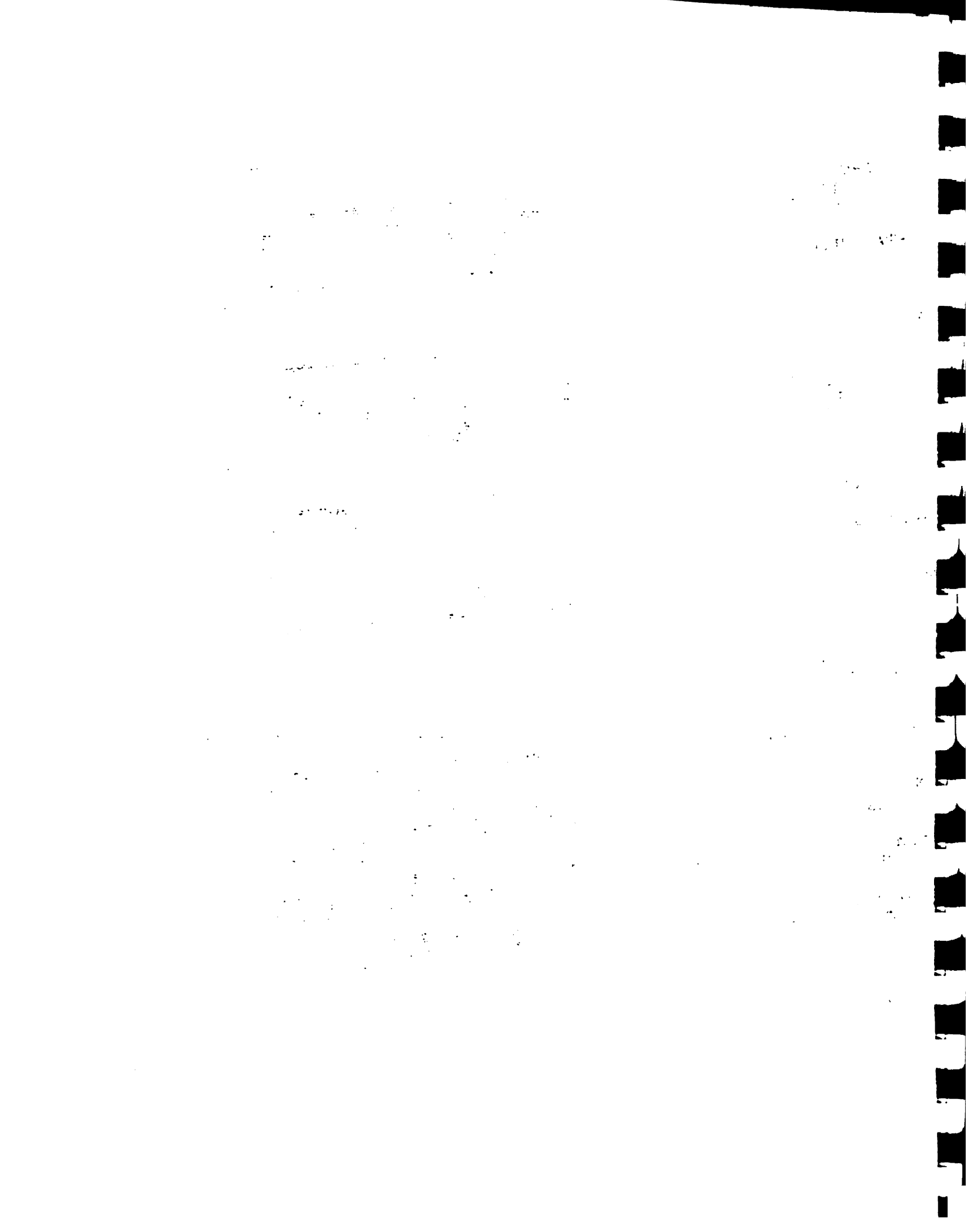
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IICA focuses its activities on five Programs: Agricultural Policy Analysis and Planning; Technology Generation and Transfer; Organization and Management for Rural Development; Trade and Integration, and Agricultural Health.

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In addition to its 33 Member States, it has 14 Permanent observers: Arab Republic of Egypt, Austria, Belgium, European Communities, Federal Republic of Germany, France, Israel, Italy, Japan, Kingdom of the Netherlands, Portugal, Republic of Korea, Romania and Spain.

