

Minutes of The 3rd Joint Committee

1. The 3rd Joint Committee was held on May 27, 1992 at EMBRAPA from 11:00 to 12:00.
2. The results of The Joint Evaluation of the Project were announced by Dr. Hiroaki Yoshikawa, Leader of Japanese Evaluation Team.
3. As for the results of evaluation, The Joint Evaluation Team concluded that good results were obtained through the study of the research topics, however, some sub-topics are still in need of further efforts to achieve "the Concrete Goals for Each Topics" which were established by the Technical Guidance Team, JICA, and authorized by the 2nd Joint Committee on April 15, 1991 at EMBRAPA.
4. Sending of Brazilian counterparts to Japan, and donation of material and equipment by JICA have been done fairly smoothly. However, there had been some delay in dispatching Japanese experts, which caused the necessity of follow-up efforts by the Project.
5. Under the above mentioned circumstances, the Joint Evaluation Team recommended 1 year and 6 months of follow up-cooperation programme with selected research topics.
6. As a results of discussion, the report by the Joint Evaluation Team was confirmed and accepted.



資料 8 暫定実施計画 (1987年 8月 E / N) TENTATIVE SCHEDULE OF IMPLEMENTATION PLAN

ANNEX I - Annual Program

Items	Year of implementation				
	1st year 1987/ 1988	2nd year 1988/1989	3rd year 1989/ 1990	4th year 1990/ 1991	5th year 1991/ 1992
I- Study of breeding and seed production of vegetables in Brazil.					
	1. Development of cabbage, cauliflower, broccoli and carrot etc. varieties adapted to high temperature.				
	2. Development of tomato etc. varieties adapted to processing.				
	3. Collection, introduction, organization, maintenance and utilization of germplasm(including tissue culture).				
	4. Comparison of disease resistance among breeding materials and development of pumpkin, cucumber, melon and cruciferae varieties resistant to diseases.				
II- Study of disease control of vegetables in Brazil.	5. Development of technique of high quality seed production of vegetables.				
	1. Development of antiserum for detecting pathogens (potato, pepper).				
	2. Pathogen survey and identification.				
	3. Evaluation of phytosanitary products on disease control.				

Items	Year of implementation				
	1st year	2nd year	3rd year	4th year	5th year
	1987/ 1988	1988/1989	1989/ 1990	1990/ 1991	1991/ 1992
<p>III- Study on Plant nutrition of vegetables in Brazil.</p> <ol style="list-style-type: none"> 1. Improvement of methods to investigate the effects of green manure, organic residue and nitrogen addition to the soil on vegetable production. 2. Development of more efficient methods to fertilize vegetable crops- major and minor elements. 3. Development of method to --apply nutrient by irrigation water (fertirrigation). 4. Development and evaluation of methods for liming recommendation. 					
<p>IV- Study on mechanization of vegetable culture and soil-plant-water relationship in Brazil.</p> <ol style="list-style-type: none"> 1. Development of methods to recommend timing and water depth for vegetable irrigation. 2. Development of more efficient irrigation methods for vegetable yield. 3. Stabilized vegetable production with the utilization of plastic film. 4. Introduction and improvement of seeder and transplanter in vegetable production. 					

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Items	Year of implementation				
	1st year	2nd year	3rd year	4th year	5th year
	1987/ 1988	1988/1989	1989/ 1990	1990/ 1991	1991/ 1992
5. Development of effective methods for preservation of freshness of harvested vegetables.		<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>

ANNEX II - Technical Cooperation Program

Items	Year of implementation					
	1st year 1987/ 1988	2nd year 1988/1989	3rd year 1989/ 1990	4th year 1990/ 1991	5th year 1991/ 1992	
I. Japanese Contribution	1. Assignment of Experts (Long-term Assignment) 1) Leader 2) Plant Breeding 3) Plant Pathology 4) Plant Nutrition 5) Liaison Officer 2. Assignment of Experts (Short-term Assignment) 1) Agricultural Machinery 2) Soil-Plant-Water Relationship 3) Others* 3. Acceptance of Trainees 4. Provision of Equipment, Machinery and Materials					
II. Brazilian Responsibilities	1. Counterparts and Other Personnel 1) Project Manager 2) Researchers 3) Laboratory Assistants 4) Field Workers 2. Administrative Personnel 1) A Private Secretary for the Leader of the Japanese Experts 2) A Typist 3) Clerks 4) Drivers 5) An Interpreter 6) Others					

Items	Year of implementation				
	1st year	2nd year	3rd year	4th year	5th year
	1987/ 1988	1988/1989	1989/ 1990	1990/ 1991	1991/ 1992
3. Facilities (Offices, Laboratories and Experimental Fields etc.) 4. Appropriate furnished accommodation 5. Local Cost 1) Expense for Labor 2) Expense for Office Equipment 3) Expense for Consumer 4) Study Travel Expenses 5) Expense for Fuel 6) Others**					
Remarks					
* Assignment of Experts in the field of "Others" shall be studied by the Joint Committee.					
** Other necessary expenses including telephone charge, electricity bill and expenses for transportation and installation of equipment.					

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資料 9 見直し実施計画 (1991年4月M/D)

TENTATIVE SCHEDULE OF IMPLEMENTATION PLAN

ANEZ I - Annual Program

Topics	Sub-Topics	Year of Implementation				
		1st Year	2nd Year	3rd Year	4th Year	5th Year
I - Studies on breeding and seed production of vegetables in Brazil.	<ol style="list-style-type: none"> 1. Improvement of cabbage, cauliflower, broccoli, carrot and watermelon varieties adapted to high temperature. 2. Improvement of tomato varieties adapted to processing. 3. Collection, introduction, preservation and utilization of genetic resources (including tissue culture). 4. Evaluation of disease resistance and improvement of pumpkin/squash, cucumber, melon and cabbage varieties resistant to diseases. 5. Development of techniques for high quality seed production of vegetables. 					
II - Studies on disease control of vegetables in Brazil.	<ol style="list-style-type: none"> 1. Production of antiserum for detecting pathogens (potato, tomato, sweet pepper). 2. Survey of diseases and identification of the pathogens. 3. Development of methods for disease control. 					

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T o p i c s	S u b - T o p i c s	Year of Implementation				
		1st Year	2nd Year	3rd Year	4th Year	5th Year
III - Studies on plant nutrition of vegetables in Brazil.	<ol style="list-style-type: none"> 1. Improvement of methods to investigate the effects of green manures, organic residues and nitrogen addition to the soil on vegetable production. 2. Development of more efficient methods to fertilize vegetables -major and minor elements. 3. Development of methods to apply nutrient by irrigation water (fertirrigation). 4. Development and evaluation of methods for liming recommendation. 	1987/1988	1988/1989	1989/1990	1990/1991	1991/1992
IV - Studies on Soil-Plant-Water relationship in Brazil.	<ol style="list-style-type: none"> 1. Development of methods to determine timing and intensity of irrigation. 2. Development of more efficient irrigation methods. 3. Stable vegetable production with the utilization of plastic film. 4. Development of effective methods for maintenance of freshness of harvested vegetables. 					

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