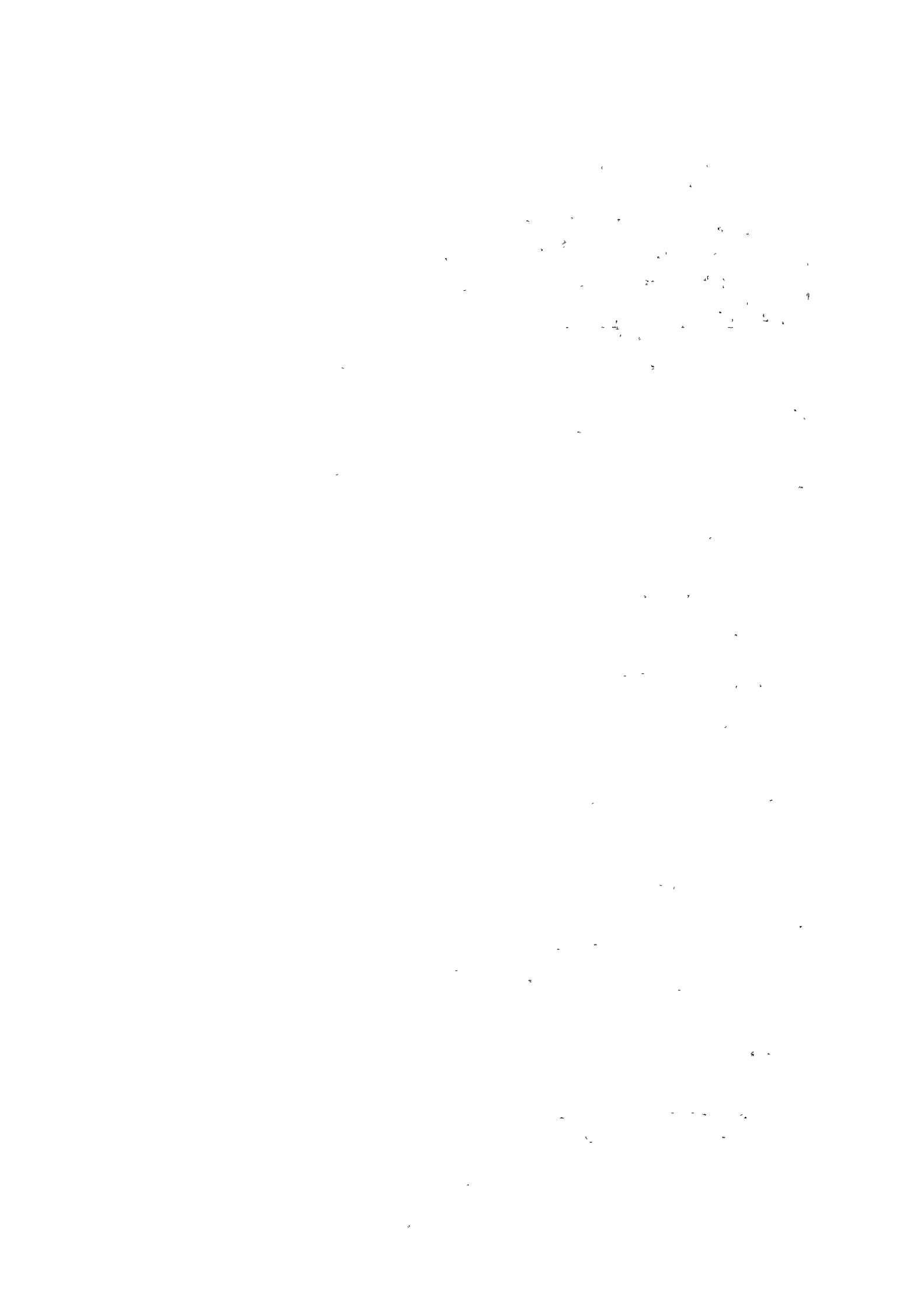


添付資料 3 調査団作業日程

日順	月日	曜日	行 程	調 査 内 容
1	2/20	水	東京	事前調査団等既収集資料の整理/土地利用現況予察図作成, 検討
2	2/21	木	"	" /1/10万地形図調整
3	2/22	金	"	作業日程整理/S/W協議ミッションとの打ち合せ/資料整理
4	2/23	土	"	スペイン語資料翻訳/地形分類予察図作成
5	2/24	日	"	(休)
6	2/25	月	"	スペイン語資料翻訳/地質分類予察図及び水系図作成
7	2/26	火	"	土壌分類予察図検討/資料の整理・解析/携行資材整理発送
8	2/27	水	"	出発準備/土地分級手法及び分級予察図の検討
9	2/28	木	東京(10:00)-ニューヨーク(10:15) JL006	
10	2/29	金	ニューヨーク(13:35) LH496	
11	3/1	土	ラパス(00:55)	大使館熊倉書記官と日程打ち合せ
12	3/2	日	ラパス	調査団内日程打ち合せ/気圧に対する身体調整
13	3/3	月	"	大使館表敬及び打ち合せ/陸軍地図院表敬資料収集企画省次官表敬/農牧省大臣表敬
14	3/4	火	"	農牧省総局長とS/W打ち合せ及び討議/空軍航空写真局にて調査実施内容視察大使館へ報告及び協力方針の打ち合せ

日順	月日	曜日	行 程	調 査 内 容
15	3/5	水	ラパス	PRODESにおいて土地利用図作成についての技術討論/調査団内最終意見とりまとめ、大使館との打ち合せ(外務省へ公電)/団長主催のパーティー
16	3/6	木	"	東京と電話連絡及び打ち合せ/資料収集/現地調査準備
17	3/7	金	ラパス(16:00)-コチャバンバ(16:30) LB811	資料収集/大使館と日程打ち合せ
18	3/8	土	コチャバンバ	PRODESコチャバンバ事務所にて資料収集及び討議
19	3/9	日	コチャバンバ(8:30)-ピラツナリ (ジープ3台) (11:00)	ジープ3台にてピラツナリへ移動 ラ・ホタ農業試験場視察
20	3/10	月	ピナツナリ(8:00)-ポートピラロエル (10:30) ポートピラロエル(17:00) -ピラツナリ(19:30)	チモレ入植地視察/ポートピラロエル よりスピードボートにてイチロ河視察
21	3/11	火	ピラツナリ(8:00)-チビリリ(9:30) チビリリ(11:00)-ピラツナリ(12:30)	チビリリ入植地及び畜産試験場視察 午後2時よりヘリコプターによるチャ パレー地区視察(4時間)
22	3/12	水	ピラツナリ	資料整理/午後ヘリコプターによる地 区視察(2時間)
23	3/13	木	ピラツナリ(8:00)-コチャバンバ (10:30)	コチャバンバへ移動 PRODES打ち合せ/電気局水文資料 収集
24	3/14	金	コチャバンバ(7:00)-ラパス(7:30) LB812	ラパスへ移動 大使館へ報告/空軍航空写真局にて資 料収集
25	3/15	土	ラパス	資料整理
26	3/16	日	"	ラパス郊外の農村視察/気圧に対する 身体調整
27	3/17	月	"	大使館へ現地調査結果報告/農牧省に て資料収集
28	3/18	火	ラパス(23:45)BN974	PRODESへ現地調査結果報告/"

日順	月日	曜日	行 程	調 査 内 容
29	3/19	水	リマ(00:45) - サンフランシスコ BN920 (9:30)	
30	3/20	木	サンフランシスコ(14:25) JL001	
31	3/21	金	東京(18:45)	
32	3/22	土	東京	資料整理/作業日程打ち合せ
33	3/23	日	"	(休)
34	3/24	月	"	資料整理・解析/JICA・農林水産省 へ現地調査報告
35	3/25	火	"	資料整理・解析/関係基礎図整理
36	3/26	水	"	"
37	3/27	木	"	報告書の作成
38	3/28	金	"	外務省へ現地調査報告
39	3/29	土	"	報告書の作成
40	3/30	日	"	"



添付資料 4. PRODESへの報告 (英文)

AGRICULTURAL DEVELOPMENT CONSULTANTS ASSOCIATION, (ADCA)

*Address: 1-3-11, SHIBA-DAIMON,
MINATO, TOKYO, JAPAN.*

*Tel: (03) 438-2584
Cable Address: ADCADAIMON TOKYO*

March 27, 1980

Dr. Winston Estremanero
Director Ejectivo
Proyecto de Desarrollo
"Chapare-Yungas" (Prodes)
Avenida José Carrasco No. 1405
Casilla No. 6000
La Paz, Bolivia

Dear Dr. Estremanero,

First of all, on behalf of all my colleagues, I would like to express my sincere thanks to you and your staff for your special introduction on Prodes' activities in Chapare and for your warmest hospitality shown to us.

This is the letter of what I have promised you to send, in which what we observed in Chapare and what we have accordingly concluded from the results of our field observations are informed. It is unfortunately true that we could have obtained only limited statistics and information so far Chapare is concerned. Therefore, I would remind you that the followings are entirely based upon our long experiences obtained from the area of the Far East.

1. Infrastructure of the area is poorly developed. Roads should therefore be repaired and new roads should be constructed under the careful planning on road network, because road development is essentially necessary for agriculture development.
2. Farmlands should be made flat or terraced in order to introduce farm machines for cooperative cropping of suitable annual crops among farmers. In the same time, terracing lands may control severe soil erosion now taken place in the area. In some extent, it is necessary to drain water out from farmlands in some area due to plentiful precipitation.
3. It is recommended that a special organization authorized by the government should be established in order to introduce new crops, to develop livestock industry and to manage new agricultural processing factories in Chapare.

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4. New crops that will be introduced as profitable ones, are as follows:

- a. Fiber crops----Kenaf (Hibiscus cannabinus Linn.) and/or Roselle (hibiscus sabdariffa Linn, var. altissima Wester)
- b. Oil crops----coconut (Cocos nucifera Linn.); especially dwarf varieties common in the Far East and West Africa. ----Castor-oil plant (Ricinus communis Linn.); especially a perenial variety grown in the area.
- c. Starch crop----Sago palm (Metroxylon sagus Rottb.)

All of the products are necessary to be processed in factories in the area.

5. According to poor demand and high transportation costs of milk, beef cattle industry seems to be more profitable than to develop milk cattle in the area. And due to the plentiful precipitation, it is also recommended to feed water buffalos in some places of the area, as one of the sources of cattle meat.

By the way, we are kept busy to make a report on the project in Japanese.

Best regards to you and your staff,

Yours truly,



Hidetoshi Matsuo
Team Leader

c.c. His Excellency Mr. E. Hayashiya
Ambassador of Japan
Embajada del Japon
Calle Rosendo Gutierrez 497
P.O. Box 2725
La Paz, Bolivia

添付資料 5. 面会者リスト

PRODES

Ing. Winston Estremadoiro Director Ejecutivo
専務理事

Ing. Juan Alandia Departamento Suelos
土地課長

Dr. Bernard L. Dalaine Sociologist, USAID
USAID 専門家

Ing. Carlos Soria Director, Cochabamba
コチャバンバ事務所長

Ing. Karl Hoffman Director, Villa Tunari
ビラツナリ事務局長

MACA

Ing. Osvaldo Antezana Director General
農業総局長

Lucio. Arce Pereira Director de cuencas
hidrologicas
水文局長

Ing. Marcial Macias Asesor suleors
土地評価官

Ing. Luis Gabrera Director de centro
desarrollo forestal
森林開発局長

Ing. Antonio Saing

Dept. suelos

土地課長

SNA

Ing. Amadeo Saldias Cordero

Director del Servicio

Nacional de Aerofotogrametria

空軍航空写真局長

Ing. Samuel Quiroga

航空写真局技師（土壤）

Ing. Humberto Mercado

" （地質）

Ing. Milton Suarez

" （地形）

PRODES : Proyecto de Desarrollo "Chapare-Yungas"

チャパレー・ユンガス開発委員会

HACA : Ministerio de Asuntos, Campesinesy

Agropecuarios

農民・農牧省

SNA : Servicio Nacional de Aerofotogrametria

空軍航空写真局

添付資料 6. PRODES と空軍航空写真局との契約書
(英文訳)

CONTRACT OF SERVICE PERFORM

Contract between the Chapare-Yungas Development Project, represented by his Executive Director, Mr. Tcnl. DIM Franklin Chavez, which shall be named PRODES and the National Service of Aerophotogrametry, from now on SNA, represented by his Director, Sr. Gral. Brig. Aé. Amadeo Saldías Cordero, it is established to accomplish photo-interpretation survey of integral lifting of the natural resources from the tropical Chapare area, subject to the following clauses and technical specifications:

FIRST.- "SNA" promises to accomplish entire survey and lifting of the natural resources from the tropical area of Chapare, which lies between 800 and 5,000 feet above the sea level on an area of 1,500,000 Has., with the photogrametry research of the air photographs scaled 1 : 30,000 obtained by the SNA during a previous period.

Tropical zone that corresponds to the Provinces of Chapare, Arani and Carrasco of Cochabamba Department, which geographic borders are graphically illustrated on Annex No. 1 on the situation map to scale 1 : 1,000,000.

To this purpose, SNA shall use his personnel of crew flight, expert engineers, engineers and assistants, photo-interpretation cabinets, laboratories and photogrametry equipment. The survey shall be subjected to the following items of activity and technical specifications:

ITEM I: RECONNAISSANCE ZONE

As previous phase to the survey, the SNA will establish

the air reconnaissance through flights of low altitude within the studied area with the expert engineers approximately in 15 hours, which will be completed with a general reconnaissance of the ground by multidisciplinary teams.

ITEM II: ACTIVITIES AND SURVEY TO BE ACCOMPLISHED

II.1 Survey of the soils. The SNA and his personnel of engineers, experts and technicians, will establish the survey of the soils on the levels of detail and semi-detail within the entire zone which process involves the following stages.

A. Pedologic survey, considering the soil as a natural organism establishing and/or interpreting his origin, morphology, classification and cartography.

B. Survey of the soil in relation to the present use and his relation to a rational use of it. Here will be extended to the pedologic survey, judgement that will establish the fundament for a real good use and his conservation. In this aspect will be determined the present use and the soil potency that will be included.

C. To obtain this, it will be remained the following systematic process:

1. General description of the zone or zones to be studied
 - 1.1 Localization and delimitation of the studied area
 - 1.2 Physiography
 - 1.3 Climate
 - 1.4 Native vegetation
 - 1.5 Geology
2. General characteristics, origin and classification of the soil

- 2.1 General characteristics of the soil
- 2.2 Pedogenesis
- 2.3 Taxonomic classification of the soil and his correlation
 - 2.3.1 Correlation to the mapping unity with the approximation of the last one and the penultime
 - 2.3.2 Correlation to the mapping unities with the classification of the FAO soil
3. Description of the mapping unities
4. Classification of the soil-defining categories and subcategories. Description of the subcategories

II.2 Survey of the soil as a natural organism. A survey will be done to two different levels that will include the level of semidetail, on the high places which are not apt for agriculture and cattle breed and detail on the low places which are apt for agriculture and cattle breed, including information about the surface, vegetal coverture, fertility and others.

The classification of the taxonomic unities will be established according to the last approximation of the manual of the soil survey (Soil Survey Manual USDA).

The mapping unities will be marked directly on the air photographs taken to scale 1 : 30,000, being this borders reviewed and characterized on work ground.

It will be established the description of the contours determined according to scale and superficial area in survey, result of the analysis in laboratory: Physics, chemics, granulometrics and consideration about the soil use.

To describe the soil contours will be used the manual of Description FAO "Description Book of the Soil Contours" which represents the following characteristics:

1. Air information about the place
 - 1.1 Physiographic position of the ground
 - 1.2 Form of the surrounding ground
 - 1.3 Microtopography
 - 1.4 Declivity where the contour is situated
 - 1.5 Vegetation or use of the soil
 - 1.6 Climate
2. General information about the soil
 - 2.1 Basic materials
 - 2.2 Drainage
 - 2.3 Humidity conditions of the soil at the analysis time of the contour
 - 2.4 Height of the freatic cover
 - 2.5 Stone presence on the surface
 - 2.6 Presence of rocky outcrops
 - 2.7 Evidence of erosion: Hydro erosion, eolic erosion and erosiveness
 - 2.8 Salt or alkaly presence
 - 2.9 Human influence
3. Number of the contour
 - 3.1 Horizon symbol
 - 3.2 Horizon profundity
 - 3.3 Horizon samples
 - 3.4 Colour spots, abundance, size, contrast, neatness, colour and name of the colours
 - 3.5 Texture
 - 3.6 Size of the sand particles, sands, sandstones, francosos, franco sandstones
 - 3.7 Mayor particles of 2 mm diameter on the soil
 - 3.8 Structure-grade
 - 3.9 Structure-category and type of the structure

- 3.10 Consistency in moisted-adhesivity, plasticity, and consistency in moist-consistency in dry.
- 3.11 Cutanes, quantity, density
- 3.12 Cementation
- 3.13 Pores, abundancy, diameter types, continuousness types, guide type, distribution on the horizon, morphology of the pores, modifying terms
- 3.14 Content of the rocky fragments and minerals, abundancy in volume, size, shape, nature, meteorization state
- 3.15 Content of the minerals-abundancy nodule, size, hardness, shape, colour
- 3.16 Hard covers, continuity, structure
- 3.17 Content of the carbonates, soluble salts, shape, etc.
- 3.18 Characteristics of biologic origin
- 3.19 Root content
- 3.20 Nature of border on the subhorizon
- 3.21 P. H.

On the analysis samples will be done the following investigations:

- Exchangeable acidity of the soil 1:2.5 (m.e.q./100 gr.)
- Exchangeable cationic capacity (m.e.q./100 gr.)
- Electrical conductivity
- Assimilating phosphorus p.p.m.
- Organic material %
- Organic charcoal %
- Exchangeable cations in milli-equivalent/100 gr.
- Total exchangeable basis %
- Saturation basis %
- Exchangeable aluminium (m.e.q. each 100 gr.)
- Separate of soil % sand, % clay, % mud

II.3 Lifting of the soil use capacity. Through the interpretation of the soil map, will be defined and

acclimatize the categories and subcategories of use capacity according to the American Soil Conservation (USDA) system.

To the dosage of ground for use capacity will be utilized the following statements:

- A. Soil characteristics on limiting basis of:
 - 1. Chemic and physic natural fertility
 - 2. Water risk
 - 3. Declivity
 - 4. Erosion
 - 5. Texture
 - 6. Flood periods
 - 7. Profundity
 - 8. Facilities for the mechanization type and weight
 - 9. Ecologic environment

The map will include a report about use capacity of the ground, describing the characteristics of each one of the categories and subcategories of use capacity.

Applicating these judgement will be compiled the map of use capacity where will be shown situation and extension of each mapping unity.

This map will include a report about the use capacity of the ground, describing the work system and the characteristics of each type of the use capacity.

II.4 Lifting of the soil survey. On the studied area will be done lifting of the methodology of "Soil Survey Manual" 1977.

The number of contours will be in accord with the lifting level.

These studies will involve the following stages:

- Bibliographic review and selection of the information
- Exploratory journey to the studied area to unify the judgments between the components of the study
- Photointerpretation and preparation of the basic map
- Selection of pilot areas of the study
- Description of contours in calicatas of 1,50 m of deepness and review of limits of the transition groups, series, phases, with bore-hole.
- Preparation of the final soil map
- Preparation of the report of soil survey

II.5 Ground use capacity. With the interpretation of the soil map and using the characteristics of the soil unities and with the observations made in the ground, will be established the map of use capacity to scales, in accord with the Soil Conservation Service. The works will include the following information:

- Interpretation of the soil characteristics and determination of the categories of use capacity
- Preparation of the map of use capacity of the ground, based on the soil maps
- Preparation of the report of the map of use capacity of the grounds

II.6 Collection and data analysis of the soil survey. The liftings and the correlative existent works will be analyzed and évaluated using the fundamental elements for the present study.

II.7 Photointerpretation. With all the photographs will be established a graphic judgment as element of analysis, with this information will be compiled the basic maps which will be used in the ground work to scale 1 : 25,000.

II.8 Lifting of the soils. In the lifting of the soils will use the "Soil Survey Manual" statement.

In base to the photointerpretation map prepared in cabinet, will be selected the areas of sampling for locate the contours whose density of observation will be connected with the level of the respective lifting.

In the soils review during the ground work, will be used bore-holes to obtain 1.20 meters of profundity, where will be done descriptions succinct of the obtained information of horizon A-B for fertility analysis. For this, will be selected points for the soil survey in contours about 2 m of profundity and the extraction of samples for laboratory analysis.

II.9 Pedologic classification. With the obtaining of the refered information to morphology and the analytic data, the soils will be classificated in according to the "Seventh approximation" on a level of order, sub-order, grand group, series and phase.

II.10 Classification by capacity of ground use. This classification will be based on the method of "Soil Conservation Service (USDA).

The classification will supply information refered to:

- Cultivation grounds
- Untillable grounds
- Pasturing grounds
- Wild life grounds

II.11 Preparation of the report. That shall include the applied methodology, description of the main characteristics of the unities of soil mapping and capacity of use of grounds with a supplementary information; relieve, vegetation, actual use of the ground and others.

The soil maps will point out the extension and the distribution of the different types of soils which will constitute the base of an agropecuarium program and an adequate agricultural investigation of supervision and advice, that could be used to planify the work of a type farm in the production of cultivation and pasture to make estimation of the production plan for the use of the ground, planify systems of drainage, assume the potentiality of the special cultivation to populate the agricultural areas and planify a system of use and handling of soils.

ITEM III: SPECIFIC STUDIES OF WOOD TECHNOLOGY

Will be done forest inventories to make possible the determination of the timber forest species, been for fashioned wood, pressed, serrated wood for constructions in general, agglomerate panneling, etc.

With the results of the forest inventory, will be done typologycal forest maps, where will appear the extension and distribution of the different types of forests, with studies specifying actual and potential volumes of the commercial and not commercial species, basic information that will be used to determine the shape and type of the industrial plant and its geographical location, complemented with studies about infrastructure existent, physiographie, supply of raw material, energy availability, etc.

III.1 Forest photointerpretation. Will be delineated the mainly differences of the landscape using for this grease pencil and pointing out each unity with a symbol. Will be done the correlation of the principal geologic differences with the soil and forest formations. Will be selected the areas of intensive sampling, every area of sample will be observed with the stereoscope, and wil redact a classification (legend camp) and will apply a systematic analysis to each of the photographies. The lines of

photointerpretation will be transferred to the index map and will produce the basic map that will be used in all ground works to scale 1 : 25,000.

III.2 Forest inventory. This study will be executed using systematically three continuous stages: pre-ground, ground and post-ground.

The first stage will be executed in cabinet which includes the recopilation and analysis of the existent information of the zone studied, the photointerpretation will be realized in pairs stereoscopic to scale 1 : 30,000 to identify and delimit bearing in mind the physiographic aspect, the existent types of forest and the preparation of the basic map, based on the technical information emitted from the photographs to the controlled maps to scale 1 : 25,000 for their use during the ground operations.

The second stage consist on the ground study which includes the physical inventory of the forest resource that will be executed through the systematical sample by pieces. In the places of sampling of each type of forest, located previously by the photointerpretation and situated on the basic map, will be done an inventory of the parcels of sampling situated longitudinal and transversally to the path of study, registering with a diameter to the chest altitude (DAP) the trees from 30 cm measured with diametric band. The commercial height of the trees will be registered starting from the minim height of 5 m, the verification of these heights will be executed with a clinometer.

The third stage will be realized in cabinet and will include the disposition and the processing data obtained in the ground, preparation of the definitive maps and redaction of the final report.

In every type of forest will be specified the volumetric

content of wood and the quantity of trees expressed in cubic meters by hectare. The volumetric content will be expressed according to the diameter and the forestal specie.

Also, will be registered the information about potential volume, actual volume, volume for types of quantity and average volumes for types of quantity and for type of forest.

The statistical values will be estimated for every type of forest in order to know the variability of the population and their reasonable trusting limits, where the 95% of probabilities including the averages of the population of every type of forest.

ITEM IV: LIFTING OF THE ACTUAL USE OF THE GROUND

Based on the photointerpretation and ground work, will be prepared the map of the actual use of the ground taking as a basic unity of mapping the located parcel and quantified on a map to scale 1 : 25,000.

ITEM V: CLIMATE STUDIES

With the available climatic records, will be done the following studies:

- Temperature studies: Determination of mensual-annual averages. Annual distribution of averages and minimum and maximum averages.
- Precipitation studies: Annual and mensual averages, amplitude of the variation and frequency of every month of the year and of the total annual, annual distribution of averages and geographical distribution of rains.
- Precipitation and evapotranspiration studies.

ITEM VI: HYDROLOGICAL STUDIES

This study will include the delimitation of the

(lowland) basin and sub-basin and the comportment hydro-logic of the region for their utilization since the point of view of the navigation, hydroenergy or hydrobiology as a resource of natural fishing. Includes the compilation of a hydrologic map to scale 1 : 100,000.

ITEM VII: IDENTIFICATION OF NEW ADAPTABLE CULTIVE

For this, the following elements will be considered:

A. Climatic conditions. Will be considered the index refered with the basic demands of the plants, such as:

1. Vegetation index
2. Drought index
3. Quiet index

B. Aptitude Edafica. Will be considering the factors involved with the existing unities of cartography lifting in the physics and chemics aspects.

C. Ecological aptitude. As results of the preceding aspects, will be provided quantitative grade of the available areas for every group of cultivate, adaptated ecologically to the zone.

ITEM VIII. INTERPRETATIVE STUDIES

In accord with the records obtained in the preceding paragraphs, will be provided the following records:

1. Interpretation of the productive capacity-american system
2. Adaptability for cultivate
3. Grades of productivity
4. Adaptability for the drainage
5. Fertilize necessity
6. Soil erosion
7. Chemical-grade characteristics of salinity-appearance of toxic elements (Selenium, aluminium, etc.)

SECOND. Execution of the surveys. The SNA will established the surveys with subjection to the legal specification and terms of reference settled in the present contract which development of the items of activity will subject to the chronogram elaborated for this purpose and which constitute integral part of the present contract, document that is enclosed on Annex No. 2; any variation to the established chronogram will be done with the knowledge and the corresponding approval of the engage parts.

In cases of further force, such as; atmospheric bad conditions and others not forewarn, the engage parts will accomplish to do the necessary changes in the execution of the study.

THIRD. Coordination of the project. In order to obtain the maximum coordination with the operations of the study on the steps of reconnaissance flights, cabinet works and ground works, PRODES will accredit before the SNA a Coordinator Engineer, that in case, if it would be convenient, will make the pursuit of the studies and be able to accompany our engineers and technicians to the operations to be realized, and at the same time will be assigned of the reception and certification of the work.

FOURTH. Cost of the project. The global cost of the studies summarize \$US 131,936,-- (One hundred thirty one thousand and nine hundred thirty six American Dollars) which detail is illustrated on tableau - Annex No. 3, for the activity items.

FIFTH. Payment arrangement. PRODES will credit the 25% of the total cost equal to the sum of \$US 32,984,00 (Thirty two thousand and nine hundred eighty four American Dollars) to our account in dollars of the Banco Central de Bolivia at the subscription of the present contract; the

50% of the total cost equal to the sum of \$US 65,968,00 (Sixty five thousand nine hundred sixty eight American Dollars) will be credited to the same account at the beginning of the ground works, the 25% remainder will be credited to the same account against the total transmission of the project, previous the approval and certification of the studies agreed.

SIXTH. Acceptance. PRODES represented by his Executive Direct Mr. Tcnl. DIM Franklin Chavez and the SNA represented by his Director Mr. Gral. Brig. Ae. Amadeo Saldías Cordero, state their complete and absolute agreement with each and every clauses of the present contract, committing to their strict and faithful fulfilment, for which proof sign the present document together with the Ministers of Asuntos Campesinos y Agropecuarios and of Interior, Migracion y Justicia, in the city of La Paz, to the days of the month of April of One thousand nine hundred sixty nine years.

Gral. Brig. Ae. Amadeo Saldías C.
DIRECTOR "SNA"

Tcnl. DIM. Franklin Chávez
EXECUTIVE DIRECTOR PRODES

Cnl. DEM. Felix Villarroel Terán
MINISTRE OF AA.CC. Y AGROPECUARIOS

Tcnl. DEM. Raúl López Leytón
MINISTRE OF INTERIOR
MIGRACION Y JUSTICIA

CHRONOGRAM OF ACTIVITIES TO WHICH WILL BE SUBJECTED THE S.N.A. IN
THE SURVEY OF NATURAL RESOURCES OF THE TROPICAL CHAPARE - PRODES

ITEM	ACTIVITIES TO BE DEVELOPED	1	2	3	4	5	6	7	8	9	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			
I	Compilation, selection of the information and existing cartography																																							
II	Flights of air reconnaissance and territorial reconnaissance																																							
III	Photointerpretation and basic cartography of 1,400 air photographs																																							
IV	Ground work. Survey of Natural Resources Renewal																																							
V	Reproduction and compilation of maps																																							
VI	Elaboration of reports. Monograph																																							

NOTE: The present chronogram of activities is susceptible to changes in view of atmospheric bad conditions, unforeseen of further force and changes in the agreed project of the engage parts.

SURVEY OF NATURAL RESOURCES OF THE REGION "CHAPARE" THAT PROPOSES THE NATIONAL SERVICE OF AEROPHOTOGRAMETRY TO "PRODES" TO BE ESTABLISHED DURING THE 1979 STEP, ACCORDING TO THE SUMMARIZED ITEMS THAT ARE ENUMERATED AT CONTINUATION:

ITEMS	ACTIVITIES TO BE DEVELOPED	TIME IN WEEKS	PARTICIPANT STAFF	COSTS	
				FOR ITEMS OF ACTIVITY \$B	\$US
I	Compilation and selection of the information and existing cartography	4	4-NT1, 4-NT2 6-NT4	93,238.---	4,662.---
II	Reconnaissance flights in planes, helicopter and by land with expert staff and the PRODES and/or USAID staff	1	5-NT1 6-NT2 4-NT3 6-NT4	131,211.---	6,560.---
III	Photointerpretation and basic cartography of 1,400 air photographs	6	6-NT1, 3-NT2 4-NT4	656,053.---	32,803.---
IV	Ground work. Survey of natural resources renewal.		6 ground groups 6 brigadas de campo 8-NT1 10-NT2 10-NT4 10-NT5	1,364,590.---	68,230.---
V	Reproduction and compilation of maps to scales 1:25,000, 1:30,000 and 1:100,000	6	4-NT1 4-NT2 6-NT4, 4-NT5	262,421.---	13,121.---
VI	Elaboration of rapports. Mongraph	7		131,211.---	6,560.---
	Totals	36		2,238,724.---	131,936.---

Classification of the staff to participate in the project:

Nine Expert - Engineer - Technical level - 1-NT1

Ten expert technicians - Technical level - 2-NT2

Twelve personnel of crew flight of aerophotogrametry - Technical level 3 - NT3

Thirty assistants - Technical level 5 - NT5

添付資料 7. PRODES と USAID との間 の 活動覚書

(英文訳)

AID MEMOIRE OF
DEVELOPMENT PROJECT "CHAPARE-YUNGAS"

I. Antecedents, functions and objectives

On April 2, 1977 has been signed the agreement 70046 between the governments of the United States and Bolivia. Through this agreement has been resolved to carry out the concept referred to a gradual reduction of the production of coca up to the required levels for the legal and traditional consumes in Bolivia, for the regional development in the productive zones.

The agreement 70046 initiated a series of annual agreements, toward of anyone it is finance the denominated pilot phase of the development program Chapare-Yungas. The total amount of the signed agreement by this date is US\$ 5,075,000.00.

On this pilot phase the investissements are carrying out, factibility studies, and experimental projects in order to give the point of view on which shall be implement invest-ments for the operational step for the development of the Chapare and Yungas.

As results of the engagements acquired in the agreement 70046 of April 2, 1977, the government of Bolivia has established the Unity of Development of Chapare-Yungas (Development Project "Chapare-Yungas") as a public institu-tion under the control of the Ministers of Interior, Migra-cion y Justicia and Asuntos Campesinos y Agropecuarios, in accord with the D.S. 14518 of April 22, 1977.

In accord with this Decree, the functions of PRODES

"Chapare-Yungas" are in the first phase denominated pilot, and a lapse of 2 - 4 years:

a. Guide, plannify, coordinate and supervise investis-
sment activities attempt to determine the gradual reduction
of the coca cultivates until the required levels for the
demand of this product, through a socio-economic development
plan in the areas of Chapare and Yungas.

b. On the second operation phase, implement the scopes,
supervise the execution and develop the evaluation sketches
of the activities of the INTEGRAL PROJECT OF DEVELOPMENT.

According to the same Supreme Decree of the establishment of
PRODES "Chapare-Yungas," the objectives of the institution
are:

- Increase the incomes and elevate the standard of
living of the producers of both areas, through a tact
of promotion to a diversify agriculture.
- Design an adequate strategy, to obtain the progres-
sive reduction of the coca cultivates, to the levels
of legal demand.
- Promote in a coordinate manner, with others institu-
tions of the Sector organize sketches of the pro-
ducers, to constitute socio-economic unities that
could absorb technology and resources for the
production.
- Implement support structures to the investissements,
technology transfers and to the producer.

The operational step of investments will be inserted within
the concept of regional development, because within the
lineament of national interest will be through the develop-
ment that will operate a diversification of the structure
of production in the before-mentioned regions, that will
conduce to a real effect of viable alternatives of coca

cultives, that will allow to the rustic producer of coca to obtain equal revenues or highest to the obtained at the present.

In a general way have been established with one accord with the USAID mission in Bolivia a strategy of investments for Los Yungas and Chapare, that could be summarized as follows:

a) For the Chapare is stating a sketch of integrated regional development for which at the moment are realizing tactful managements for the Executive Direction of PRODES and the USAID mission in Bolivia, above the pertinent organizations of Washington. This sketch of regional development project a first step of investments in 5 years for the amount of US\$ 30,000,000. Been of investments that affect fundamentally the agropecuary sector it is attempted an institutional role of implementation to fit inside the Minister of Asunto Campesinos y Agropecuarios.

b) With reference to Los Yungas, the strategic focus is different in view that will be elaborated especifics projects of investments on divers stages. For example, the implementation of a project of feasibility in elaboration about the production, agroindustrial process, on an artisan level and to a management level, and to the marketing of the cábuya; financement for a process plant of citrous and other tropical fruits through COPROIFA; an industrial plant for the cacao process; financement of extent programs and parallel research of other items; infrastructure of storage that will be apt to the potentials necessities of marketing of the products of the zone; etc, etc. This study of feasibility will be started on the month of March through a northamerican consultant with the complement of PRODES.

II. Organization

The Development Project "Chapare-Yungas," in accord with the

statutes and rules approved for the group, it has been organized in accordance with the enclosed organigram. The Directive Council will be constituted by the following Ministers and Directors:

- Asuntos Campesinos y Agropecuarios
- Interior, Migración y Justicia
- Industria, Comercio y Turismo
- Dirección Nacional de Control de Sustancias Peligrosas
- Dirección General de Asuntos Agropecuarios
- Executive Director PRODES

By his way, the Technic Council will be constituted by the following persons:

- General Director of Agropecuary Affairs of MACA
- Sub-director of PRODES
- Dirección Nacional de Sustancias Peligrosas
- Head of the Oficina de Planificación Sectorial del MACA

The project counts with a staff of 47 functionaries, which distribution, according where they are working, is the following:

- | | |
|-----------------------------------|------------|
| - Central office in La Paz | 31 persons |
| - Connection office at Yungas | 1 person |
| - Regional office at Yungas | 6 persons |
| - Connection office at Cochabamba | 3 persons |
| - Regional office at Chapare | 6 persons |

At the present is been negotiating with the Northamerican Mission the financement of all of the current costs of PRODES with donation resources, saving in this way moneys of complement to our improverish national arks. The functioning budget that it is management before the Northamerican Mission will allow the increment of the staff and the resources of financement that will require the transition of a pilot phase to other of operation investments for

the development of Chapare and Yungas.

III. Activities

The general plan of activities of PRODES will be divided in three groups of work, in accord with the following detail:

- 0.1 Basic studies
- 0.2 Feasibility studies
- 0.3 Programs

0.1 Basic Studies

- a) Aerophotogrametry lifting of the Yungas and Chapare
Executor: National Service of Aerophotogrametry
Financement: Agreement 70046
Status: Concluded in 1978
- b) Study of the perceive necessities
Executor: PRODES
Financement: Agreement 70046
Status: Concluded in 1978
- c) Socio-Economic Study of the Rustic Farms
Executor: Statistical Division of MACA
Financement: Agreement 70046
Status: Process pendent through MACA/Statistics
- d) Multidisciplinary study of the coca usage in Bolivia
Executor: National Museum of Ethnography and Folklore
Financement: Agreement 70046
Status: Concluded in 1977
- e) Social and Economical Factors of the Coca Cultive in Chapare
Executor: PRODES

- Financement: Complement funds of the National
Treasury
Status: Concluded in 1978
- f) Study about Yields of Coca in Chapare and
Yungas
Executor: PRODES
Financement: Complement funds of the National
Treasury
Status: Concluded in 1978
- g) Integrated Study of Basic Resources in Chapare
Executor: National Service of Aerophotogrametry
Financement: Agreements 80019 and 90002
- h) Ethnographic Studies of the Use of Coca in
Bolivia
Executor: Dr. William Carter, Florida Univer-
sity
Financement: National Institute of Drug Abuse,
Institutional Support of PRODES
Status: Final version in review
- i) Integrated Study about the Adoption of Tech-
nology in Chapare: A Norm of Decision Source
Executor: PRODES - Mission of the Florida
University
Financement: Agreement 80019
Status: Financement in negotiation, to be
executed until September 1980
- j) Analysis of Audiences and Communications Means
in the Chapare
Executor: PRODES - Mission of the Florida
University
Financement: Mission of the Florida University/
PRODES

Status: Final version in negotiation of publication

- k) Deficits Studies in the Marketing of Agricultural Products in Chapare and Yungas

Executor: PRODES

Financement: Agreement 90002

Status: Financement in negotiation, to initiate on April 1980

0.2 Feasibility Studies

- a) Research of Basic Agroeconomic

Executor: Mission of the Florida University, by contract with USAID, to long-term IBTA/PRODES

Financement: Agreements 70046, 80019 and 90002

Status: In execution since 1976 until 1980

- b) Study of Coffee Marketing

Executor: International/PRODES consulting

Financement: Agreement 70046

Status: Concluded in 1978

- c) Tropical Fruits and Citrous

Executor: Development Planning and Associates, Inc./PRODES

Financement: Agreement 70046

Status: Final version in review

- d) Study of Marketing of Agricultural Products Chimore-Chapare

Executor: Interamerican Institute of Agricultural Sciences/PRODES

Financement: Agreement 80019

Status: Concluded on February 1980

- e) Pre-feasibility Study about the Cacao

Production, Species and Dehydration of
Garden Vegetable in Chapare and Yungas
Executor: Agricultural Department of the
U.S.A./PRODES

Financement: Agreement 80019

Status: To initiate on September 1979

0.3 Program

- a) Construction of the Experimental Station de la Jota (Chapare)
Executor: Bidding contractor
Financement: Agreement 70046
Status: Rescinded contract by abandon of the work; works to be concluded by direct administration
- b) Program of Capacity through the Scholarship-Work
Executor: PRODES-IBTA - Mission of the Florida University
Financement: Agreement 70046
Status: In execution. Thesis of Grade concluded. Two ex-fellowship to obtain their Master with PRODES funds.
- c) Program of Phytosanity Control of Coffee in Yungas
Executor: Instituto Boliviano de Tecnología Agropecuaria (IBTA)
Financement: Agreement 70046
Status: Concluded in 1978
- d) Program of Cacao Promotion in Chapare and Yungas
Executor: Instituto Boliviano de Tecnología Agropecuaria (IBTA)
Financement: Agreements 70046 and 80019
Status: In execution until 1981

- e) Projects of Perceive Necessities in Chapare and Yungas
Executor: PRODES
Financement: Agreement 90002
Status: Design in elaboration, to be initiated on April 1980
- f) Production of Plants and Seeds Improvement
Executor: IBTA - Mission of Florida University
Financement: Agreement 90002
Status: Negotiations in course for the finance-ment acquisition and establishment of the genetic material of the items: citrous, rubber, pejivalle, black pepper, pineapple, papaya and avocado.
- g) Financement Project of the Operational Phase
Executor: Multinational Agribusiness Systems, Inc./PRODES
Financement: Agreement 90002
Status: Feasibility studies in procedure to Spanish translation; negotiation in course for the obtation os US\$ 30,000,000 to finance the first step of investments for the Chapare.
- h) Post-grade Training
Executor: PRODES
Financement: Agreements 80019 and 90002
Status: 4 functionaries of PRODES and IBTA will leave to obtain their Master in 1980.
- i) Promotional Material and Communications
Executor: Mission UFLA - PRODES/Contractor
Financement: Agreements 80019 and 90002
Status: In engagement

j) Collection PRODES
Executor: PRODES/Contractor
Financement: Agreement 90002
Status: In negotiation

添付資料 8. PRODES の予算書 (西文)

TABLA DE OBLIGACIONES, POR ACTIVIDADES

<u>No.</u>	<u>A C T I V I D A D E S</u>	<u>Convenio (1979)</u>	<u>Convenios (Unit: US\$) (1978-77)</u>	<u>Total</u>
1.	Investigacion Agronomica y Economica Basica-Mision UFLA	450.000	1.114.000	1.564.000
2.	Estudios de Mercadeo, por Contrato con Firmas I Q C	50.000	200.000	250.000
3.	Estudio Socioeconomico de Fin cas, Contrato MACA-Estadisticas	13.000	120.000	133.000
4.	Asesor PASA en Marco de Area y Estadística, USDA	--	50.000	50.000
5.	Coordinador PASA del Proyecto, USDA	115.000	210.000	325.000
6.	Levantamiento Aerofotogrametrico, Contrato SNA/FAB	--	106.000	106.000
7.	Estudio Integrado de Recursos Basicos del Chapare, Contrato SNA/FAB	130.000	29.000	159.000
8.	Campana de Sanidad y Productividad del Cafe, IBTA	--	350.000	350.000
9.	Programa Cacao, IBTA	480.000	350.000	830.000
10.	Construccion, Mejoras y Equipamiento Estaciones Experimentales, UBTA			
10.1	Construccion	--	145.000	145.000
10.2	Equipo de Laboratorio e Investigacion	--	83.000	83.000
10.3	Equipo Audiovisual y de Comunicaciones	14.000	--	14.000
10.4	Equipo de Oficina	--	25.000	25.000

11.	Unidades Modelo de Produccion en Fincas Campesinas, IBTA	90.000	--	90.000
12.	Produccion de Semillas y Plantas Mejoradas, IBTA	50.000	--	50.000
13.	Estudios Nacionales de Factibilidad sobre Produccion y Mercadeo, PRODES	--	160.000	160.000
14.	Apoyo a las Actividades de Investigacion, Extension y Coordinacion, PRODES			
	a) Vehiculos	--	126.000	126.000
	b) Equipo y Suministros de oficina y Audio-visuales	--	122.000	122.000
	c) Fondo Rotativo y Apoyo de Campo	50.000	62.000	112.000
	d) Entrenamientos	55.000	26.000	81.000
15.	Estudio de Necesidades Sentidas, PRODES	--	50.000	50.000
16.	Proyectos de Necesidades Sentidas, PRODES	200.000	--	200.000
17.	Insumos de Apoyo a Propuesta de Desarrollo Regional	50.000	--	50.000
T O T A L		1.747.000	3.328.000	5.075.000

PRODES

添付資料 9. PRODES が作成した調査団宛の日本の
技術協力案 Aide Memoire (英文)

PROYECTO DE DESARROLLO "CHAPARE - YUNGAS"

Av. José Carrasco No. 1405 - Casilla No. 6000 Telf. 3-53491
La Paz - Bolivia

La Paz, March 7, 1980
1-72/80

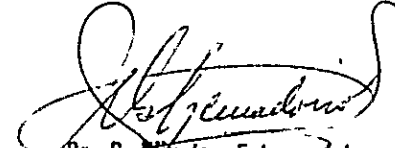
Dr. Hidetoshi Matsuo
Jefe de la Misión Técnica del Japón
La Paz. -

Dear Dr. Matsuo:

As I promised during our conversations in the past few days, I am pleased to send you an Aide Memoire regarding possible areas of future cooperation on the part of the Japanese International Cooperation Agency (JICA), which at present are not included in agreements of the Bolivian government with other international sources of technical and financial assistance.

I hope that this Aide Memoire will help in initiating bilateral conversations that will result in concrete cooperation agreements between the governments of Japan and Bolivia.

Sincerely,


Dr. G. Winston Escobar
DIRECTOR EJECUTIVO
PRODES "CHAPARE - YUNGAS"

WEG/muh.

Encl.:

PRODES



PROYECTO DE DESARROLLO "CHAPARE - YUNGAS"

Av. José Carrasco No. 1405 - Casilla No. 6000 Telf. 3-53491

La Paz - Bolivia

AIDE MEMOIRE

DEVELOPMENT OF THE CHAPARE REGION

POSSIBLE AREAS OF TECHNICAL ASSISTANCE FROM JICA TO PRODES-MACA

1. Isiboro-Sécure National Park

The 900.000 Has. of the Isiboro-Sécure National Park are a most important component of the spatial context of the regional development of the Chapare. According to ecologists, this sub-region constitutes an "area of speciation" for wildlife and forest species, and does not have merely a national but also a continental importance. Furthermore, the area of the Isiboro-Sécure National Park is at present a refuge of dwindling groups of native tribes such as the Trinitarios, Yuracaré and Sirionós.

At present, the Isiboro-Sécure National Park is a park in name only, due to the lack of financial resources of the Bolivian government to implement it; it is being negatively affected by the advance of a road project that purports to link the Chapare region of Cochabamba with the Moxos region of the Beni department. Further, rapid encroachment and squatting of highland spontaneous colonists along the proposed road is endangering the integrity of the Isiboro-Sécure National Park.

PRODES



PROYECTO DE DESARROLLO "CHAPARE - YUNGAS"

Av. José Carrasco No. 1405 - Casilla No. 6000 Telf. 3-53491

La Paz - Bolivia

The Japanese Technical Mission could play a most important role in helping us to study, design and implement a true Isiboro-Sécure National Park.

This would involve the survey of the area of the Park, along the lines of several technical parameters. It would require the design of a project for the Isiboro-Sécure National Park which would contemplate all the aspects of administration, training a cadre of Park administrators, wild life and forest guards (possibly from the native tribes who know the forest intimately) and the promotion of guided tourism which would enable the Park to generate some operating costs.

2. Plantation - sized Land Concessions in the Chapare

More than 150.000 hectares of land have been settled by peasant colonists; some 200.000 hectares have been granted by the Bolivian government to private entrepreneurs. At present most of this concessions are idle due to the following factors:

- a) Some of the concessions were granted to people who only had a speculative interest in the increased value of the land at the time when obtained the land grants.
- b) There isn't any plan to promote and orient plantation-type lines of production, which introduce economies of scale and agro-industrial possibilities for lines of production which

PRODES



PROYECTO DE DESARROLLO "CHAPARE - YUNGAS"

Av. José Carrasco No. 1405 - Casilla No. 6000 Telf. 3-53491
La Paz - Bolivia

are not suitable in the pattern of land tenure of peasant colonists.

The JICA could cooperate in assisting us to evaluate the present situation of the private concessions, recommending which concessions will be reverted to the State, and provide guidelines to grant further concessions to investors with true capability to risk and invest in plantation-type production and processing. Further, the study could recommend suitable lines of production for plantation, agricultural and livestock production such as african palm oil, natural rubber, tree bark for medicinal purposes, spices, cattle raising and cattle feed production, water buffalo raising and training for animal traction, etc., etc.

The Japanese government could be interested in help us advance on this study all the way from the pre-feasibility to the feasibility and implementation stages.

3. Area of Influence of the Proposed Chimoré-Yapacaní Project

The Inter-American Development Bank has financed a feasibility study of a road linking Cochabamba to Santa Cruz, going from the Chapare to the Northern Santa Cruz colonization area. This project contemplates the construction of the paved road that would link Chimoré-Yapacaní following a path from Valle Sajta to the

PRODES



PROYECTO DE DESARROLLO "CHAPARE - YUNGAS"

Av. José Carrasco No. 1405 - Casilla No. 6000 Telf. 3-53491
La Paz - Bolivia

Río Vibora area of Northern Santa Cruz. It further contemplates road improvement work in the presently existing highway from Chimoré to Cochabamba. A study is needed to plan rational settlement patterns, land use projections, and regional development of the area of influence of the new road from Chimoré to Yapacaní.

This is further enhanced by the fact established in own Chapare Basic Resources Study, that the Sajta River has the ideal conditions for a dam, with a hidroelectric capacity roughly the same as that of Corani, and with flood control, drainage and irrigation potentials.

4. Lands in the Public Domain North of the Present Land Settlement Frontier

About 1.200.000 hectares of land located South East of the Isiboro-Sécure National Park, west of the Ichilo River, and North of the present land settlement fringe, require further study regarding its potential for development. Approximately 40% of this land is seasonally flooded savannah, potentially suitable for grazing; the remainder is in forest, of which 50-60.000 Has. are considered suitable for agriculture.

The cooperation of the Japanese government could be instrumental in designing and implementing a strategy for development of this area, which at present is not been considered through any other source of external assistance.

添付資料 10. チャパレー関係の既存資料リスト (PRODES所蔵)
(英文/西文)

1. "PRODUCCION Y COMERCIALIZACION DE LA COCA," Informe Preliminar, UNIVERSIDAD MAYOR DE SAN SIMON, INSTITUTO DE ESTUDIOS SOCIALES Y ECONOMICOS, Facultad de Ciencias Economicas, 1972
2. "CUADROS ESTADISTICOS DE PRODUCCION AGRICOLA" CHAPARE-YUNGAS, UNIVERSIDAD BOLIVIANA MAYOR DE SAN SIMON, INSTITUTO DE ESTUDIOS SOCIALES Y ECONOMICOS, 1975
3. "ESTADISTICAS AGROPECUARIAS," 1961-1975, Division de Estadisticas, Boletin No. 2, MINISTERIO DE AA.CC. Y AGROPECUARIOS, Oficina de Estudios Economicos y Estadisticos, 1976
4. "USO TRADICIONAL DE LA COCA EN BOLIVIA," Estudio Multidisciplinario, Informe Final, MUSEO NACIONAL DE ETNOGRAFIA Y FOLKLORE, 1978
5. "MAPA ECOLOGICO DE BOLIVIA," Memoria Explicativa, MINISTERIO DE ASUNTOS CAMPESINOS Y AGROPECUARIOS, 1975
6. BOLETIN DE NOTICIAS DE MERCADO AGROPECUARIO, No. 13, Jul.-Dic. 1976, MINISTERIO DE AA.CC. Y AGROPECUARIOS, Oficina de Estudios Economicos y Estadisticas, Division de Estudios Economicos y Mercadeo Agricola, 1976
7. BOLETIN DE NOTICIAS DE MERCADEO AGRICOLA, No. 11, Julio-Diciembre 1975, MINISTERIO DE AA.CC. Y AGROPECUARIOS, Oficina de Estudios Economicos y Estadisticas, Division de Estudios Economicos y Mercadeo Agricola, 1976
8. BOLETIN DE NOTICIAS DE MERCADO AGROPECUARIO, No. 14, En. Jun. 1977, MINISTERIO DE AA.CC. Y AGROPECUARIOS, Oficina de Estudios Economicos y Estadisticas, Division de Estudios Economicos y Mercadeo Agropecuario, 1977
9. "INFLUENCIA DE PRODUCTOS QUIMICOS Y FERTILIZANTES NITROGENADOS EN EL ACLARADO DE YEMAS FLORALES DE DURAZNOS," Tesis presentada para obtener el Titulo de Ingeniero Agronomo. Por Reinaldo Navia Vargas, UNIVERSIDAD MAYOR DE SAN SIMON Facultad de Ciencias Agricolas "MARTIN CARDENAS H.," 1978

10. "PROYECTO DE MECANIZACION AGRICOLA AL SERVICIO DE GRUPOS ORGANIZADOS EN LA ZONA DEL CHAPARE TROPICAL," SEPARATA, PRODES "CHAPARE-YUNGAS," 1978
11. "MERCADERO DE PRODUCTOS AGRICOLAS PARA 21 PRODUCTOS," Contrato No. AID-511-72 T, PIOT No. 511-364 1-3-40022, LLOYD E. JACOBS, Consultor, 1974
12. "ZONIFICACION DEL CHAPARE TROPICAL," POR: Ing. Eduardo Iriarte Jimenez Jefe Departamento de Suelos, DIRECCION DEPARTAMENTAL DE AA.CC. Y AGROPECUARIOS Departamento de Suelos, 1976
13. "LAS ENFERMEDADES PRINCIPALES DE LOS CULTIVOS ECONOMICOS EN LOS YUNGAS Y EL CHAPARE," Documento de Trabajo No. 15, POR: B. H. WAITE, Fitopatologo, UNIVERSIDAD DE FLORIDA, MISION EN BOLIVIA MACA/IBTA/PRODES, 1978
14. REPORT FROM A TDY VISIT TO BOLIVIA, POR: CARL W. CAMPBELL, PROFESOR DE LA UNIVERSIDAD DE FLORIDA CULTIVOS FRUTALES TROPICALES AGRICULTURAL RESEARCH AND EDUCATION CENTER, 1977
15. PRELIMINARY REPORT, POR: Dr. Frank Calboun, Especialista en Suelos, UNIVERSIDAD DE FLORIDA, 1976
16. FINAL REPORT FROM A TDY VISIT, Dr. D. W. Dickson, Nematologo, UNIVERSIDAD DE FLORIDA, 1977
17. PLAN CUATRIENAL DE TRABAJO APENDICE A, PLAN OPERACIONAL AL CONTRATO DE LA UNIVERSIDAD DE FLORIDA/USAID/BOLIVIA, Documento de Trabajo 01/76, W. W. McPherson, Juan A. Figueras, 1976
18. MICROAREAS WITHIN THE COCA PRODUCTIVE REGIONS IN BOLIVIA, Juan A. Figueras, UNIVERSIDAD DE FLORIDA, 1976
19. NOTAS GENERALES SOBRE EL DISENO DE LA INVESTIGACION AGRONOMICA PARA SU SUBSECUENTE ANALISIS ECONOMICO, Documento de Trabajo No. 6, UNIVERSIDAD DE FLORIDA, MISION EN BOLIVIA, 1976
20. LAS ENFERMEDADES PRINCIPALES DE LOS CITRICOS, Documento de Trabajo No. 16, B. H. Waite, Fitopatologo, UNIVERSIDAD DE FLORIDA, MISION EN BOLIVIA MACA/IBTA/PRODES, 1978

21. RESULTADOS PRELIMINARES DEL USO DE HERBICIDAS PARA EL CONTROL DE MALEZAS EN UNA PLANTACION DE CAFE A PLENO SOL EN RECUPERACION EN LOS YUNGAS, BOLIVIA, Documento de Trabajo No. 13, LAWRENCE J. JANICKI, ROBERT FRANS Y RAUL LARA, UNIVERSIDAD DE FLORIDA/IBTA, 1978
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