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WORKING PAPER NO. 2

THE AGRICULTURAL CHARACTERISTICS OF SUBSISTENCE FARMERS IN THE DEPARTMENT OF JUTIAPA, GUATEMALA

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BASIC VILLAGE EDUCATION*

Guatemala's national development plan encompasses many programs to help rural families improve their education, agriculture, living conditions, and communities. Using traditional extension methods, the number of families reached by such programs is limited. A much larger proportion of the rural population can be served, however, if the efforts of agents, promoters, teachers, etc., can be reinforced through use of modern communications techniques.

The Basic Village Education Project (BVE) is an experimental program of non-formal adult education which does not initially require literacy. It seeks to determine the effectiveness and relative costs of selected combinations of communications media that have potential for use in development programs where resources are limited.

The primary audience for BVE is the small, often illiterate subsistence farmer. Program content stresses information that will help that farmer to improve his production and income from basic grain crops. When fully operational, the Project will include matched experimental and control areas in eastern Guatemala (Oriente) and in the Quiché-speaking Indian Highlands of western Guatemala (Occidente).

Evaluation

The first step in evaluation of the Basic Village Education Program is a baseline study to establish present knowledge, attitudes, farming practices, production, and income of farmers. Additional characteristics relating to communications, nutrition, health, mobility, and living conditions are also included in the study. That information provides the base against which change induced by the Program can be measured.

Baseline data for the 1974 area of action were obtained by interviewing approximately 200 farmers from fifteen communities in the experimental area, and more than 100 farmers from five communities in the control area. Names of farmers to be included in the sample were drawn from the census lists, using standard statistical procedures.

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*The Basic Village Education Project is jointly funded by the Government of Guatemala and the United States Agency for International Development in accordance with terms of an agreement between the two governments. It is administered in Guatemala by the Guatemalan Ministry of Education in collaboration with the Ministries of Agriculture and Health. Foreign personnel and other technical assistance is provided by the Academy for Educational Development supported under contract No. AID/CM/1a-C-73-19 with the United States Agency for International Development. Responsibility for an independent evaluation of the Project rests with the University of South Florida through a sub-contract with the Academy for Educational Development.

The study was conducted in two phases. All farmers in the sample were interviewed in September 1973, to obtain general information. Two months later, the same farmers were interviewed again to obtain more information about agriculture in the areas. At the time of the second interview, every fifth person in the sample was also interviewed in depth by an agronomist.*

Purpose of the Working Papers

The working papers represent an intermediate step in the process of reporting the findings from this unique experimental program in non-formal education. These papers are circulated to a limited audience for comments and suggestions. At a later date necessary revisions and corrections will be made so that the papers can be circulated to a wider audience through the Academy for Educational Development or other suitable publishing outlets.

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*Taken from: "Basic Village Education: An Experiment in Non-Formal Adult Education" Guatemala City: Programa de Educacion Basica Rural, April, 1974, pp. 1, 2 and 4.

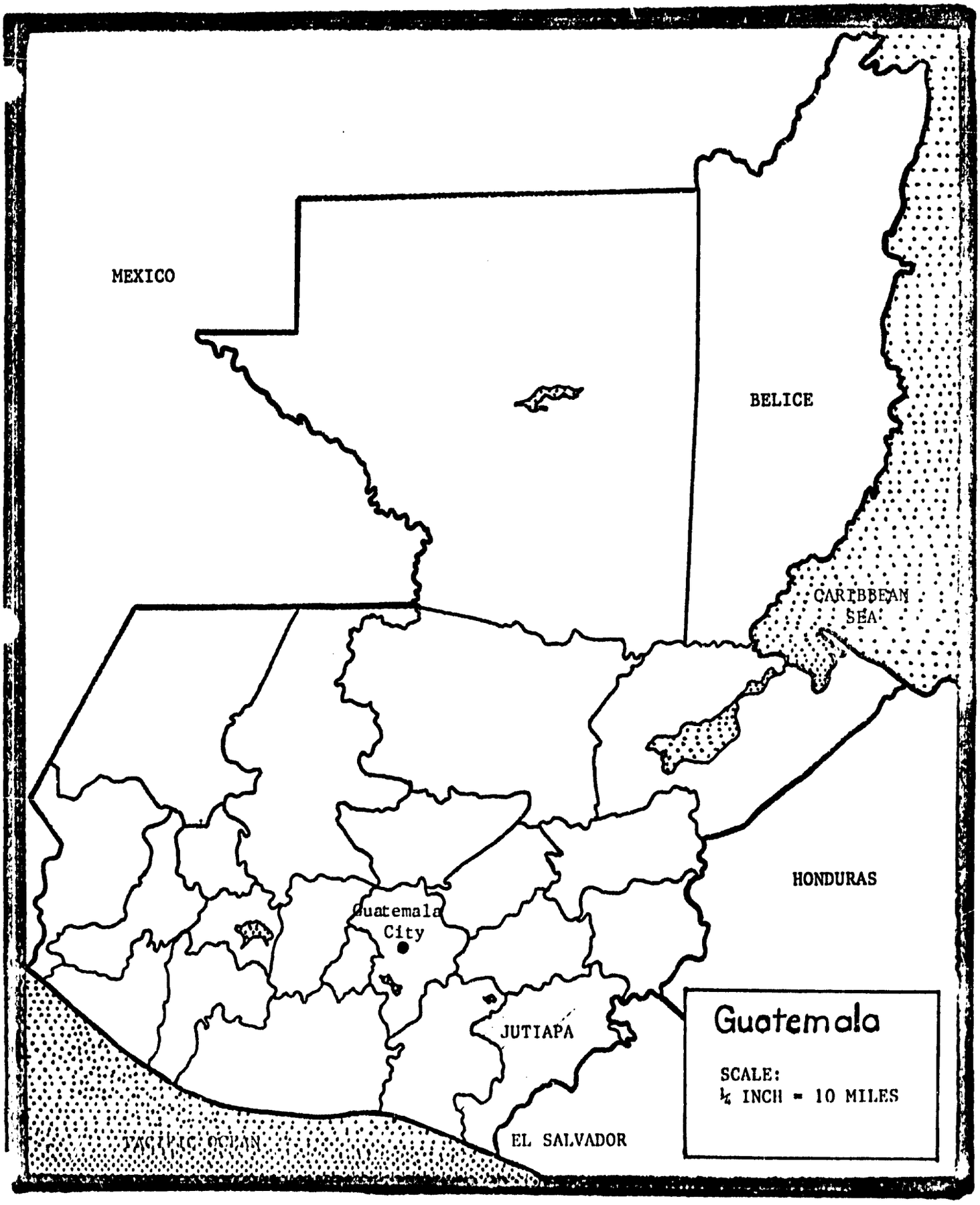
MEXICO
BELICE
CARIBBEAN SEA
HONDURAS
Guatemala City
JUTIAPA
EL SALVADOR
PACIFIC OCEAN
Guatemala
SCALE:
½ INCH = 10 MILES

FIGURE I

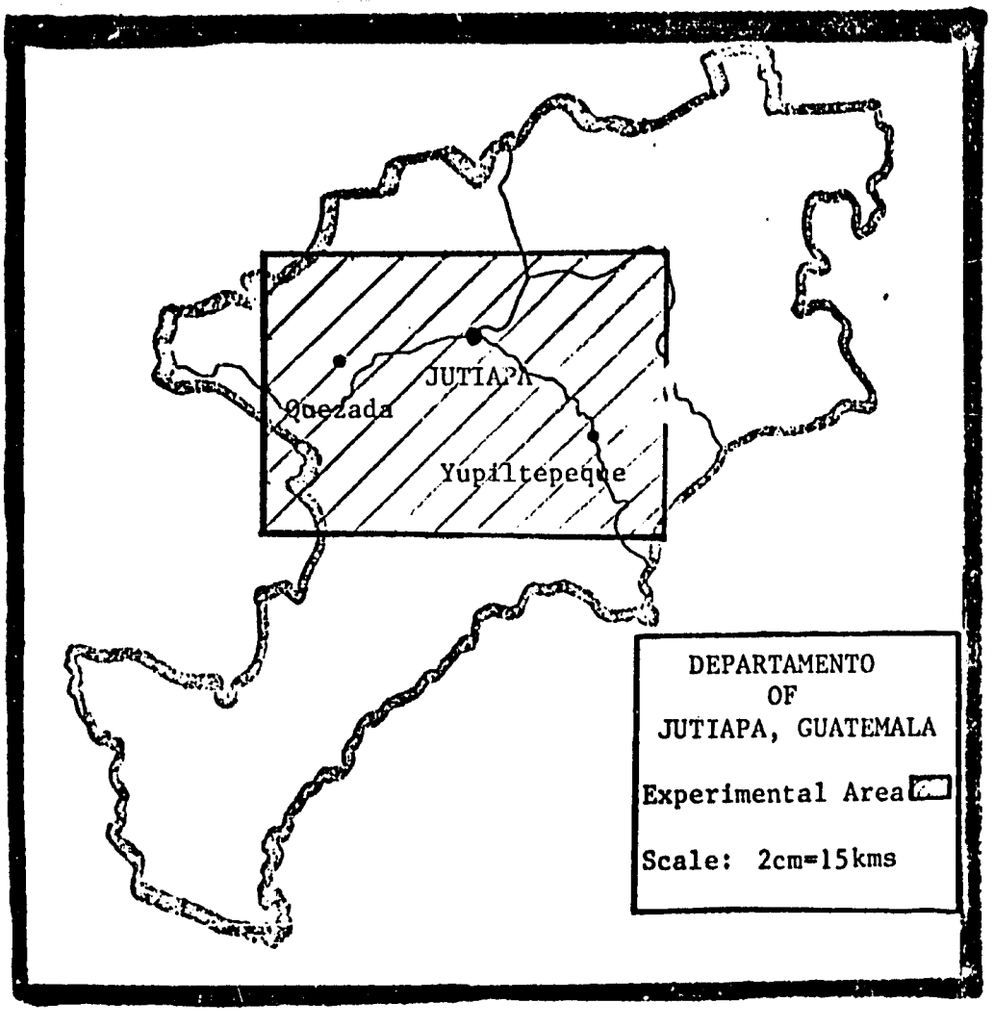

FIGURE II

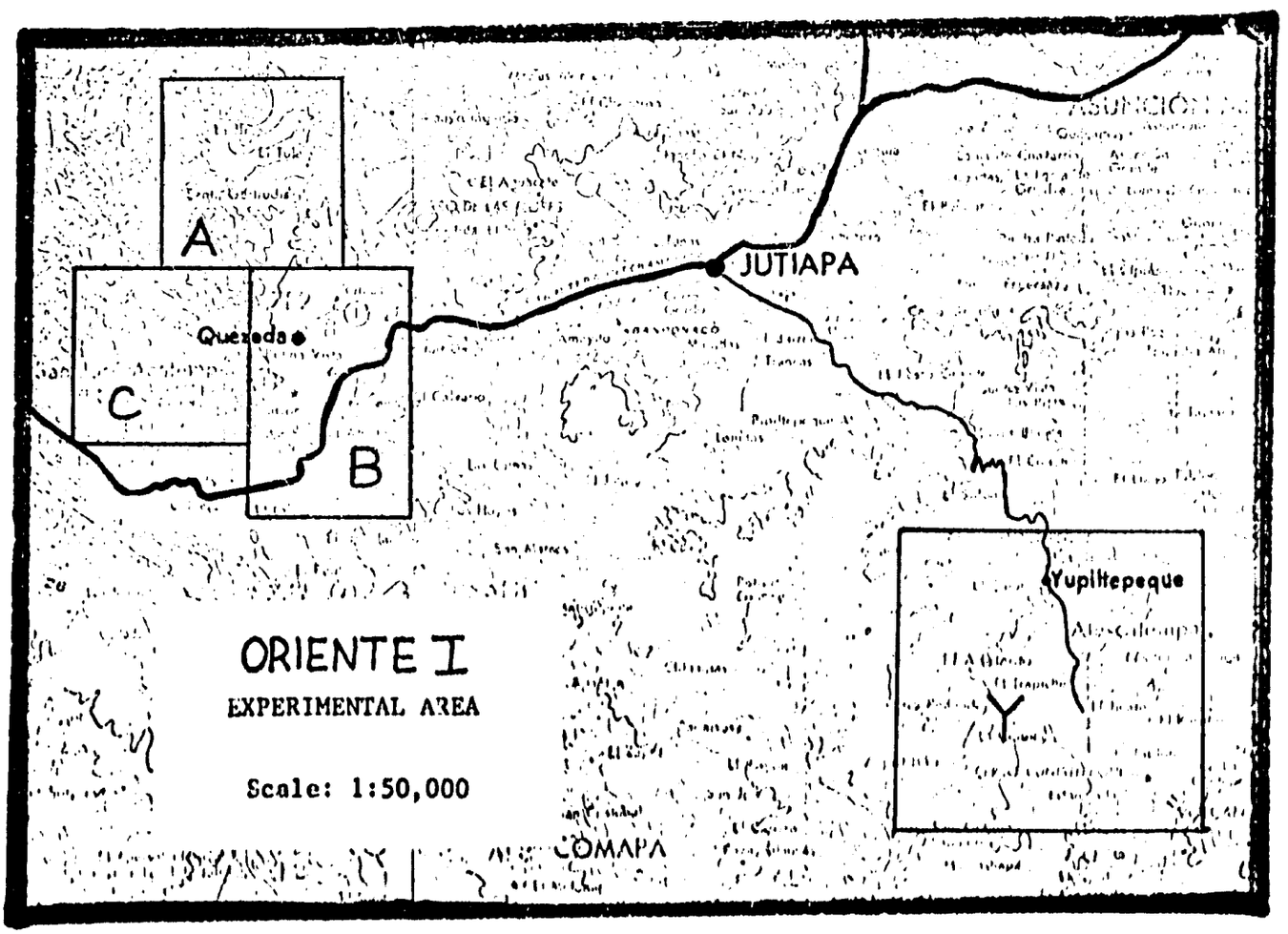

FIGURE III

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INTRODUCTION

This is a continuation of the descriptive material presented in Working Paper No. 1 entitled "The General Characteristics of Subsistence Farmers in the Department of Jutiapa, Guatemala." It is difficult to separate agricultural characteristics from the total way of life of subsistence farmers. There is some overlap in working papers 1 and 2 for this reason.

In Working Paper No. 1 eleven major divisions were used to present the material. They were: Subsistence Characteristics; Education; Age and Family Characteristics; Housing; Health and Nutrition; Patterns of Affiliation; Mobility; Information Services; Attitudes Toward Wealth, Respect and Friendship; Occupational Variations; and Credit Use and Risk Taking.

In the present paper there are thirteen major divisions. They are as follows: Land Characteristics; General Cropping System; Crop Production: Corn, Beans, Sorghum, Rice and Other Crops: Land Preparation Methods; Seed Selection and Treatment; Fertilizer Use; Insect Control; Disease Control; Cultivation and Weed Control; Storage, Use and Marketing of Grain; Technical Assistance; Recent Agricultural Methods Change; and Outside Work.

Subsistence farmers are the target population for the experimental program of Basic Village Education. To select an area and a population for interviewing it was necessary to decide on the characteristics of subsistence farmers. They have been characterized in the following way:

1. Use subsistence form of agriculture.
2. Live in a cluster of houses, from a few hundred to a few thousand people.
3. Have greater self-sufficiency than farmers in industrial states but dependent on cities for special goods.
4. Sell some surplus production for cash.
5. Are ambivalent towards the city in that they need goods but have fear of exploitation.
6. Are bound by traditional values and custom.
7. Are on the average, illiterate.
8. Have low levels of educational attainment.
9. Follow regional patterns of diet, home use of remedies, and use of local practitioners
10. Are not productive farmers in terms of the national economy.*

The Quezada Valley was chosen as an experimental area because the farmers met the criteria. The list used for selection of those to be interviewed contained only farmers who were farm operators on small holdings (from 0.5 to 12.0 manzanas: 1 manzana = 1.7 acres). Because of the nature of the farming and life in the area, the other characteristics were assumed to be closely related.

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*Arensberg and Niehoff, Introducing Social Change, Chicago: Aldine-Atherton, 1971.

The general characteristics of the subsistence farmers in the Oriente I experimental area can be summarized as follows.

The farmers in the Department of Jutiapa that were chosen for interviewing meet most of the characteristics of subsistence farmers in other parts of the world. They operate small farms and make the decisions related to production. Their production is limited to a few basic crops (corn and beans with some sorghum) for home consumption. Their diet includes a few other items that are usually purchased once a week on a visit to the village or regional marketing center. Travel is limited to these market trips except for a yearly trip to Guatemala City, to the coast for seasonal work to supplement the family income, or to a religious center.

The educational levels are low and illiteracy rates high. New agricultural information comes by way of friends and neighbors or radio except for the few who have had contact with agricultural technicians.

The homes are owned and of simple construction. Tile roofs, adobe walls and dirt floors predominate. Sanitary facilities and assurance of pure water are lacking.

These farmers have high educational aspirations for their children and would still choose to be farmers if they had their choice of other jobs.

Because of the nature of the experiment, the total survey is divided into four sub-areas. There are three sub-areas in the Quezada Valley called A, B, C and a control area in nearby Yupiltepeque (Yupi). Agricultural questions were included in both phases of the 1973 baseline survey. In the first phase, there were a total of 506 farmers interviewed and they were distributed in the following manner: Quezada A, 118; Quezada B, 133; Quezada C, 119: and Yupi, 136. In the second phase,* a number of cases were not available, and a total of 489 subjects were interviewed from the original sample. The number of people interviewed in the second phase were distributed among the sub-areas as follows: Quezada A, 116; Quezada B, 125; Quezada C, 116; and Yupi, 132. For programming and future measurement of differential effect the sub-areas were designated as follows: Yupi = Control (CON) with no treatment; Quezada C = Radio only (R); Quezada A = Radio plus Monitor (RM); and Quezada B = Radio plus monitor and agronomist (RMA).

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*The second phase took place approximately two months later than the first and was finished in early December of 1973.

I. LAND CHARACTERISTICS

The land characteristics have been summarized in Table I. Included for summary here are the size of the farms, the ownership or tenure pattern, the degree of fragmentation of the farm into plots that are not adjacent, the suitability of the land for farming, changes in area planted this year over last, and how they compare their land to that of others and its own production potential.

TABLE I. Land Characteristics

	A	B	C	Y	TOTAL
Average size of farms in acres (Q.9)	8.2	6.3	7.7	4.8	6.7
Proportion of farms owned (%) (Q.10)	72.0	58.6	50.4	50.0	57.5
Proportion of farms divided in two or more plots (%) (Q.50)	74.6	64.7	79.9	67.6	71.4
Average time in minutes required to reach most distant fields (Q.51)	24.3	14.4	21.4	24.3	21.0
Proportion of land suitable for planting (%) (Q.52)	75.9	80.0	82.6	76.4	78.7
Proportion of farms with increase in land area planted this year (%) (Q.56)	37.2	29.4	33.6	23.5	30.7
Proportion of farmers perceiving their land is good or better than neighbors (%) (Q.57)	83.1	81.2	88.2	87.5	85.0
Proportion of farmers perceiving their land as presently producing all possible (%) (Q.64)	33.9	35.3	32.8	36.8	34.8

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table I and in greater detail in the corresponding tabulation summary tables in the appendix, the entire experimental area can be characterized as follows:

1. The farms are generally small, averaging 6.7 acres in size (Q.9).
2. Ownership is the most common tenure form with 57.5% of the farmers reporting ownership of all the land they farmed. Further investigation also indicates that other farms are partially or completely rented (Q.10).
3. Fragmentation of the farms into two or more parcels is common (Q.50).
4. The average time spent in reaching the more distant fields is 21 minutes. Although this is not excessive, 33.0% of the farmers reported that it took them over one-half hour to reach their distant fields (Q.51).
5. Most of the land (78.7%) was reported suitable for planting (Q.52).
6. Almost one-third of the farmers had planted more crops this year than last. In contrast, there were very few that reported planting less land this year than last (Q.56).
7. The farmers have a favorable attitude toward their land as they compare it to that of their neighbors (Q.57).
8. The reasons given as to why some land was not suitable for planting were "worn-out," "too much slope," or "poor land" (Q.53).
9. The remedies proposed for resolving the problem of unsuitable land were "use fertilizer" and in a few cases "drainage," "tractor use" or "other" (Q.54).
10. The main reason given for not being able to resolve the problem of unsuitable land was "no money" and "lack of time" also, "other" reasons was also mentioned (Q.55).
11. A majority of the farmers felt that their land was not producing all that it could at the present time (Q.64).

Sub-Areas:

In addition to the land characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. The farmers in Quezada A, in contrast to the other sub-areas, reported: larger farm size, more land owned, more increases in land area planted this year over last, a greater need for fertilizer to improve land, and more monetary difficulties in buying fertilizer to improve their land.
2. The farmers in Quezada B, in contrast to the other sub-areas, reported: less fragmentation of their farms, less time required to reach their fields, less area planted to crops this year as compared to last year, and a lower proportion of land that is felt to be as good or better than that of their neighbors.
3. The farmers in Quezada C, in contrast to the other sub-areas, reported: a higher proportion of comunal lands, a higher proportion of land suitable for planting, a slightly higher proportion of wet land, more need for "tractor use" and "drainage" as means of improving land, fewer problems with money for needed improvements and a higher proportion of land that is felt to be as good or better than that of their neighbors.

4. The farmers in Yupi, in contrast to the other sub-areas, reported: smaller farm size, less farm ownership, more fields with "too much slope," more fields "worn out," fewer increases in land area planted this year, and more farms presently perceived as producing all possible.

Observations and Further Questions:

There are a few observations related to the summary data as well as some further questions that go beyond the data that merit consideration.

1. The farms in the different sub-areas are not too different in most aspects.
2. How does the topography account for the differences that do exist between sub-areas?
3. Are there any historical factors that account for the size of farms and their division in unconnected plots?
4 Why is land ownership more common in Quezada A than in the other sub-areas?
5. What is the general economic situation in the area and how does it vary in the sub-areas?
6. What proportion of the total farming population of Jutiapa is represented by those included in the survey?

II. GENERAL CROPPING SYSTEM

The characteristics of the general cropping system have been summarized in Table II. Included for summary here are the crop preferences, the use of second plantings and the farmers' views on personal crop yields.

TABLE II. General Cropping System

	A	B	C	Y	TOTAL
Corn as most important crop (%) (Q.204)	78.4	73.6	84.5	71.2	76.7
Beans as most important crop (%) (Q.204)	13.8	16.8	10.3	5.3	11.5
Corn-beans-sorghum preference (%) (Q.205)	62.9	52.8	56.0	62.1	58.5
Corn-sorghum-beans preference (%) (Q.205)	18.1	24.8	16.4	11.4	17.6
Beans-corn-sorghum preference (%) (Q.205)	11.2	13.6	10.3	6.1	10.2
Second planting: corn only (%) (Q.206)	21.6	37.6	72.4	--	31.9
Second planting: beans only (%) (Q.206)	6.9	1.6	2.6	69.7	21.5
Optimistic towards 1973 yields (%) (Q.59)	100.0	97.8	100.0	91.2	97.0
Yields compare to neighbors: "as good or better" (%) (Q.58)	77.0	84.2	81.5	88.9	83.2

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table II and in greater detail in the corresponding tabulation summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Corn is the most important crop grown in the area. Over three-fourths of the farmers indicated that it was their most important crop (Q.204).
2. Beans are also commonly grown in the area but not considered the most important crop. In contrast to corn only 11.5% of the farmers considered beans as their most important crop (Q.204).

3. Sorghum is also grown in the area but of lesser importance than corn or beans.
4. The most common order of preference mentioned by the farmers was that of corn-beans-sorghum. The second order of preference is corn-sorghum-beans and this is followed by beans-corn-sorghum. Other combinations are listed, but as can be noted in the attached summary table (Q.205), they are not as common.
5. Many of the farmers plant some kind of a second crop after the main crop is harvested. In the early survey, almost two-thirds of the farmers said they planned to plant a second crop (Q.48). In the later agricultural survey 58.9% responded that they had actually planted a second crop (Q.206).
6. Corn or beans are the crops most often used in the second planting (Q.206).
7. As the farmers compared their crops with those of their neighbors, most of them felt that their own were as good or better (Q.58).
8. The farmers were optimistic about their crop yields but most of them had not finished the harvest at the time the early survey was conducted (Q.59).

Sub-Areas:

In addition to the general cropped characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. The farmers in Quezada A, in contrast to the other subareas, reported: a slightly higher proportion that preferred the corn-bean-sorghum combination, a lower proportion that felt their crops were as good or better than their neighbors and fewer that planted a second crop.
2. The farmers in Quezada B, in contrast to the other sub-areas, reported: a higher proportion that considered beans as their most important crop; a lower proportion that preferred the corn-beans-sorghum combination and at the same time a higher proportion that preferred the beans-corn-sorghum or the corn-sorghum-beans combination; and a lower proportion that planted beans in the second planting.
3. The farmers in Quezada C, in contrast to the other sub-areas, reported: a higher preference for corn as the most important crop; more second crop planting; and a considerably higher proportion that used corn for their second planting.
4. The farmers in Yupi, in contrast to the other sub-areas, reported: a slightly lower preference for corn as the most important crop, a higher proportion preferring the corn-bean combination and a slightly lower preference for either the corn-bean-sorghum or the beans-corn-sorghum combinations; and less optimistic about their 1973 yields but still showed a slightly higher proportion who felt their yields were as good or better than their neighbors

Observations and Further Questions:

There are a few observations related to the summary data as well as some further questions that go beyond the data that merit consideration.

1. There is some variation in the cropping system between sub-areas, particularly whether corn or beans are planted in the second planting. For the most part, all sub-areas emphasize corn and bean combinations in the first planting.
2 What are the crop combinations that are actually planted in the field together (i.e. corn with beans)? How are they planted? (In the same row, alternate rows, etc.?)
3. What are some of the factors that determine whether a second crop will be planted or not?
4. How does the topography affect the varying preference for crops in the different sub-areas? How does this affect the second planting?
5. Does the crop preference change when the farmer produces for the market instead of home use?

III. CROP PRODUCTION

The production of specific crops has been summarized in Tables III (Corn), IV (Beans), V (Sorghum), VI (Rice), and VII (Other Crops). Included for summary under each of the crops are the area planted, the yield in 1973, the best yield in recent years and the poorest yield in recent years. On some of the crops, there were identical questions in both the first and second phases of the baseline survey. These are both included when available. Area is listed in manzanas (1 manzana = 1.7 acres) or cuerdas (1 cuerda = 1/16 manzana = 0.106 acres). Yields are listed in quintales (q.q.) per manzana (1 quintal = 100 pounds) or quintales per cuerda.

TABLE III. Corn

	A	B	C	Y	TOTAL
Corn planted, average manzanas (Q.21)	2.2	1.7	2.3	1.4	1.9
(Q.218)	2.3	1.9	2.1	1.3	1.9
Corn yield 1973 qq/mza (Q.22)	18.2	16.1	20.7	16.6	17.8
(Q.219)	12.9	11.2	16.0	14.8	13.7
Best corn yield qq/mza (Q.220)	17.6	16.0	19.5	20.3	18.3
Poorest corn yield qq/mza (Q.221)	6.0	5.2	8.4	8.7	7.1

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table III and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. The average corn planting was less than two manzanas (1.9 manzanas or approximately 3.2 acres).
2. The average corn yield was reported as 17.8 qq/mza in the early survey (Q.22) but only 13.7 qq/mza in the later survey.
3. The best yield in recent years were higher than the 1973 yields and averaged 18.3 qq/mza.
4. The worst yield in recent years were considerably lower than 1973 or the best years and were reported as an average of 7.1 qq/mza.

Sub-Areas:

In addition to the characteristics of corn production in the experimental area as a whole, there are some variations between sub-areas that are noted in the following statements:

1. Quezada A, in contrast to the other sub-areas, reported a slightly larger area of corn planted in the later survey. The farmers in this sub-area did not show in outstanding variations in the other aspects.
2. Quezada B, in contrast to the other sub-areas, had the lowest average corn yield in 1973 as reported in both the earlier and later surveys, and reported the lowest corn yield even in the best year.
3. Quezada C, in contrast to the other sub-areas, reported the highest average area planted in the early survey and reported the highest yield in both the first and and second surveys.
4. Yupi, in contrast to the other sub-areas, reported the smallest average area planted, and the highest yield in the best and poorest years.

Observations and Further Questions:

There are some observations that can be made regarding the summary data presented here and some questions that merit further consideration.

1. An additional question was inlcuded in the survey asking what a "normal" yield might be. This question was not clearly understood and not included for summary because the answers were extremely high indicating an understanding of "extraordinary" instead of normal (Q.222).
2. The yields reported for both the best and poorest years in Yupi seem high in relation to the yields in 1973. How does this relate to soil conditions, topography, and use of fertilizers?

TABLE IV. Beans

	A	B	C	Y	TOTAL
Planted beans 1973 (%) (Q.15)	90.7	94.8	95.8	98.5	94.3
Planted beans with corn and/or sorghum (%) (Q.16)	79.6	87.2	91.6	75.7	83.5
Average area planted (in cuerdas)					
Early survey (Q.17)*	14.3	20.6	20.1	17.5	18.23
Late survey (Q.223)*	14.4	21.7	19.1	15.4	17.64
Average yield 1973 (in qq/cda)					
Early survey (Q.18)*	.65	.63	.49	.48	.56
Late survey (Q.224)*	.74	.79	.64	.69	.72
Average yield best year (in qq/cda)(Q.225)* **	1.04	1.01	.85	1.02	.98
Average yield worst year (in qq/cda) (Q.226)* **	.31	.33	.38	.40	.26

*Only includes those that planted beans.

**"Always same" answers redistributed according to answers in Q.224.

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table IV and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Almost all of the farmers plant beans.
2. Beans are usually planted with corn and/or sorghum.
3. The average area planted to beans is 18.23 cuerdas (approximately 2.0 acres).
4. The average bean yield in 1973 was reported as 0.56 qq/cda (56 pounds) in the early survey and 0.72 qq/cda (72 pounds) in the second survey.
5. The best bean yield in recent years was reported as 0.98 qq/cda (98 pounds).
6. The worst bean yield in recent years was reported as 0.26 qq/cda (26 pounds).

Sub-Areas:

In addition to the bean planting characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. Quezada A, in contrast to the other sub-areas, reported a slightly lower proportion of farmers that planted beans. Of those farmers that did plant beans, there was a lower average area planted, a higher 1973 yield according to the first survey, a higher yield in the best year and a lower yield in the poorest year.
2. Quezada B, in contrast to the other sub-areas, the bean planters reported a larger area planted, and a higher 1973 yield in the second survey.
3. Quezada C, in contrast to the other sub-areas, reported a higher proportion of beans planted with corn and/or sorghum. Among the bean planters, a lower yield in 1973 was reported in the second survey, and a lower yield reported in the "best" year.
4. Yupi, in contrast to the other sub-areas, reported the highest proportion of farmers planting beans and the lowest proportion that planted with corn and/or sorghum. Among the bean planters, a lower 1973 yield was reported in the first survey and a slightly higher yield in the worst year.

Observations and Further Questions:

There are some observations that can be made regarding the summary data presented here and some questions that merit further consideration.

1. The average area that is planted to beans is smaller than that planted to corn. This would suggest that some corn is planted alone. Is this actually the case?
2. The yields in Quezada C are reported as lower than the other sub-areas. Is this because corn does better and beans are not as important or are there actually climatic reasons why beans do not grow as well?

TABLE V. Sorghum

	A	B	C	Y	TOTAL
Planted sorghum 1973 (%) (Q.43)	85.6	96.2	88.2	85.3	88.9
Average area planted 1973 (%) (Q.228)*	1.43	1.97	1.50	.96	1.48
Average yield 1973 in qq/mza (Q.229)*	12.96	16.36	15.31	13.99	14.70
Average yield in best year in qq/mza (Q.230)* **	18.5	19.9	19.4	17.9	18.9
Average yield in worst year in qq/mza (Q.231)* **	7.5	9.9	10.0	9.9	9.3

*Only sorghum planters.

**"Always same" answer redistributed according to categories of Q.299.

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table V and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Most of the subsistence farmers planted sorghum in 1973.
2. The average area planted (by those that did plant) was slightly under one and a half manzanas (approximately 2.5 acres).
3. The average yield (of those who planted) was approximately 15 qq/mza in 1973.
4. Yields in best years average approximately 19 qq/mza.
5. Yields in poorest years average approximately half that of the best year (9.3 qq/mza).

Sub-Areas:

In addition to the sorghum planting characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. The farmers in Quezada A, in contrast to the other sub-areas, reported lower average yields in 1973 and lower yields in the poorest year.
2. The farmers in Quezada B, in contrast to the other sub-areas, reported a higher proportion of sorghum planters, a greater average area planted in 1973, and a higher average yield in 1973 as well as in the best year.

3. The farmers in Quezada C, in contrast to the other sub-areas, reported the highest average yield in the poorest years. This sub-area was much the same as the experimental area as a whole in the other aspects.
4. The farmers in Yupi, in contrast to the other sub-areas, reported a lower proportion of sorghum planters, a smaller average area planted, and a lower average yield in the best years.

Observations and Further Questions:

There are some brief observations and questions that merit further consideration.

1. There appears to be more emphasis on sorghum production in Quezada B than in the other sub-areas. Is this related more to climate and topography or is it because of transportation facilities?

TABLE VI. Rice

	A	B	C	Y	TOTAL
Planted in 1973 (%) (Q.44)	11.9	4.5	2.5	10.3	7.3
Area planted in 1973 qq/mza (Q.233)*	.5	.66	.5	.5	.52
Average yield in 1973 qq/mza (Q.234)*	14.3	22.0	37.0	15.8	16.6
Average yield in best year qq/mza (Q.235)* **	20.6	24.0	37.0	20.3	21.5
Average yield in worst year qq/mza (Q.236)* **	5.9	8.0	17.0	5.75	6.53

*Among those who planted rice only.

**"Always same" answer redistributed according to categories of Q.234.

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table VI and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Rice is not a common crop in this area (only 37 of the 506 farmers in the early survey reported that they planted rice).
2. For those that did plant; the average area was slightly over one-half manzana.
3. The average yield reported for 1973 was 16.6 quintales per manzana.
4. The average yield reported for the best year was 21.5 quintales per manzana.
5. The average yield reported for the poorest year was 6.53 quintales per manzana.

Sub-Area:

In addition to the rice planting characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted.

1. In Quezada A, in contrast to the other sub-areas, a higher proportion of the farmers planted rice although the average area per planter was no greater than the other sub-areas.

2. In Quezada B, in contrast to the other sub-areas, the farmers that did plant, reported a larger average area planted.
3. The farmers in Quezada C, in contrast to the other sub-areas, reported fewer that plant rice. The few that did plant, reported high average yields in both the best and poorest years.
4. The farmers in Yupi, in contrast to the other sub-areas, reported the lowest average yields in the best and poorest years.

Observations and Further Questions:

There are some observations and questions related to the summary data on rice production that merit further discussion.

1. Rice is not as common in this area as are corn, beans, and sorghum. What are the potentials in terms of its adaptability to the area and the market? Would it require mechanization and larger planting areas to be profitable?

TABLE VII. Tobacco, Vegetables and Other Crops

	A	B	C	Y	TOTAL
Tobacco grown in 1973 (%)(Q.45)	11.9	23.3	63.0	0	23.7
Vegetables grown in 1973 (%) (Q.46)	1.7	3.0	3.4	2.9	2.8
Other crops grown in 1973 (%) (Q.47)	7.6	2.3	0.8	3.7	3.6

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table VII and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Approximately one-fourth of the farmers grow tobacco. There are great variations among the sub-areas in this respect.
2. Vegetables are not commonly grown.
3. Crops other than corn, beans, sorghum. rice, tobacco, and vegetables are not common.

Sub-Areas:

In addition to the characteristics of the experimental area as a whole mentioned above, there are some variations between sub-areas that can be noted:

1. The farmers in Quezada A, in contrast to the other sub-areas, reported a lower proportion of vegetables planting and a higher proportion of "other crops" grown
2. The farmers in Quezada B, reported no outstanding variations from those of the experimental area as a whole.
3. The farmers in Quezada C, in contrast to the other sub-areas, reported a higher proportion of tobacco and vegetable plantings but a fewer "other crops."
4. The farmers in Yupi, in contrast to the other sub-areas, reported no tobacco at all. They were much the same as the experimental area as a whole in vegetable and "other crop" plantings.

Observations and Further Questions:

There are some further observations and questions that merit consideration.

1. Are transportation and market the main reasons for the tobacco production in Quezada C?
2. What are the "other crops" that are grown in Quezada A?

IV. LAND PREPARATION METHODS AND USE OF ANIMAL POWER

The land preparation methods are summarized in Table VIII. Included for summary are the proportion of land cleared before planting, the number of times the land is plowed before planting, the use of animal and tractor power and the use of contours.

TABLE VIII. Land Preparation Methods

	A	B	C	Y	TOTAL
Land all cleared before planting (%) (Q.201)	98.3	92.8	90.5	91.7	93.3
Land plowed one or more times (%) (Q.202)	81.1	76.0	84.5	62.8	75.6
Use of oxen for plowing (%) (Q.49)	61.0	54.9	73.9	44.1	57.9
Knowledge of contours (%)(Q.247)	13.8	10.4	15.5	7.6	11.7
Use of contours (%)(Q.248)	9.5	9.6	14.7	5.3	9.6

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be observed in Table VIII and in greater detail in the corresponding tabulation summary tables, the experimental area as a whole can be characterized as follows:

1. It is a common practice to clear the land before planting a new crop (Q.201).
2. Three-fourths of the farmers do plow their land at least one time before planting. Of those farmers that do plow their land, the most common response was "two times." It is interesting to note that 24.3% of the farmers do not plow at all (see tabulation summary table Q.202).
3. Approximately 60% of the farmers used oxen as a power source in preparing the land. As can be observed in the tabulation summary table (Q.49) the remainder use hand methods except for a very small proportion that reported the use of tractors.
4. There is little knowledge on the use of contours for plowing and planting. There is even less application of this practice (Q.247; Q.248).

Sub-Areas:

In addition to the general characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted. These variations are summarized in the following statements:

1. The farmers in Quezada A, in contrast to the other sub-areas, reported: a slightly higher proportion of land cleared before planting, a slightly higher proportion of land plowed just one time, and a slightly higher use of tractors (although it amounts to only four of the 118 farmers interviewed).
2. The farmers in Quezada B, in contrast to the other sub-areas, reported a slightly higher proportion that did not do any land clearing before planting. All other aspects were much the same as those of the experimental area as a whole.
3. The farmers of Quezada C, in contrast to the other sub-areas, reported: at least partial land clearing before planting on all farms; the highest proportion of farms with land plowed one or more times before planting; the highest proportion using oxen in land preparation; the highest proportion of farmers with knowledge of contours; and the highest proportion that actually use contours on their farms.
4. The farmers of Yupi, in contrast to the other sub-areas, reported: the lowest proportion of farmers that plowed their land before planting; the lowest proportion that used oxen in land preparation (and consequently a much higher proportion using hand methods); the lowest proportion of farmers with knowledge about contours; and the lowest proportion using contours on their farms.

Observations and Further Questions:

There are some additional questions that cannot be answered by the data from the baseline survey. These should be explored to give a more complete view of land preparation methods among subsistence farmers in Jutiapa.

1. How is the land cleared? Are the residue materials incorporated in the soil or are they gathered together and burned? Is this done immediately prior to planting or is this done after the old crop is harvested? Are there variations between sub-areas in this respect?
2. How is the land plowed? Is the standard steel plow used or is it a native plow? When the land is plowed more than once is it done by "crossing" or is it leveled off in some way? Are there any disc plows used? Are hand methods using a hoe or shovel considered as "plowing" also? How does this vary between sub-areas?
3. What variations are there in land preparation for different crops? Are the same preparation methods used in the first and second plantings of the same crop?
4. How technically important does the use of contours appear in terms of soil conservation? In terms of size and shape of fields and farms? How does this vary between sub-areas?

TABLE IX. Animals

	A	B	C	Y	TOTAL
Possession of one or more horses (%) (Q.249)	51.8	52.8	63.0	43.9	52.6
Possession of one or more mules (%) (Q.250)	19.0	5.6	12.1	2.3	9.4
Possession of one or more oxen (%) (Q.251)	13.9	9.6	18.1	12.9	13.5

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table IX and in greater detail in the corresponding tables in the appendix, the entire experimental area can be characterized as follows:

1. Slightly over half of the farmers have at least one horse for their use (Q.249).
2. Mules are not as common as horses and less than 10% of the farmers report having mules (Q.250).
3. Oxen are not as common as might be expected. Only 13.5% of the farmers reported oxen (Q.51).

Sub-Areas:

In addition to characteristics of animal power use in the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. Quezada A, in contrast to the other sub-areas, reported more mules. It was much the same in all other aspects.
2. Quezada B, in contrast to the other sub-areas, reported fewer oxen. It was much the same in all other aspects.
3. Quezada C, in contrast to the other sub-areas, reported more horses and more oxen.
4. Yupi, in contrast to the other sub-areas, reported fewer horses and fewer mules.

Observations and Further Questions:

The following observation and question merit consideration:

1. Quezada C has more available power than the other sub-areas. Could this be taken as a sign of greater prosperity or is it related merely to the kind of land which permits the use of animal power?

V. SEED SELECTION

The methods of choosing corn seed have been summarized in Table X. Included for summary here are the varieties of seed known, the varieties used, the source of seed used, and the attitudes toward different varieties of seeds.

TABLE X. Seed Selection

	A	B	C	Y	TOTAL
Used degenerated hybrid seed (%) (Q.23)	33.9	42.1	43.7	60.3	45.5
Used native selected seed (%)(Q.23)	41.5	39.1	48.7	37.5	41.5
Used true hybrid or certified (%)(Q.23)	17.8	16.5	5.8	1.4	10.3
Source of seed: last year's crop (%) (Q.24)	65.3	73.7	85.7	91.2	79.2
Source of seed: purchased (%)(Q.24)	27.1	24.1	8.4	7.4	16.6
Knowledge of native seed only (%)(Q.25)	27.1	24.1	36.1	33.8	30.2
Knowledge of true hybrid or certified seed (%)(Q.25)	48.3	45.8	40.3	16.2	37.2
Knowledge of more than one variety of seed (%)(Q.25)	22.0	26.3	19.3	28.7	24.3
Native seed seen as "best" (%)(Q.26)	27.1	31.6	31.1	38.2	32.2
True hybrid or certified seed seen as "best" (%)(Q.26)	64.5	62.4	61.3	25.0	52.6
Reason for "best" seed: high producing (%)(Q.27)	84.7	75.9	69.7	68.4	74.5
Reason for "best" seed: "adapted" (%)(Q.27)	6.8	14.3	15.1	16.2	13.2
No danger seen in planting new varieties (%) (Q.28)	83.0	85.0	90.8	89.0	87.0

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table X and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Many of the farmers reported using "hybrid" seed but further investigation indicated that only 10.3% had used a true hybrid or certified seed (Q.23).
2. The type of seed most often used came from last year's crop and was either degenerated hybrid or a selected native variety (Q.24).
3. The majority of the farmers knew of seed types other than the native variety (Q.25).
4. Slightly over half of the farmers felt that hybrid or certified corn was best. It is also interesting to note that almost one-third of the farmers felt that native seed was the best (Q.26).
5. The main reason for a corn being "best" was that it produced well. Some also felt that it was best because it was adapted to the locality (Q.27).
6. There was little danger seen in planting new varieties (Q.28).

Sub-Areas:

In addition to the seed selection characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. The farmers in Quezada A, in contrast to the other sub-areas, planted slightly less degenerated hybrid seed; used seed from the prior planting less and purchased seed more often than the other sub-areas; showed slightly more knowledge of hybrid or certified seed; a slightly higher proportion felt that hybrid or certified was the "best" seed; a slightly higher proportion gave "high producing" as the reason one seed type was better than another; and a slightly lower proportion expressed a feeling that there was no danger in planting new varieties.
2. The farmers in Quezada B, were neither higher nor lower than the other sub-areas in their responses to the questions related to seed selection.
3. The farmers in Quezada C, showed a slightly higher proportion that used native selected seed; a slightly higher proportion that only knew about native selected seed; a slightly lower proportion that had knowledge of more than one variety of seed; and a slightly higher proportion that felt there was no danger in planting new varieties.
4. The farmers in Yupi, in contrast to the other sub-areas reported the use of degenerated hybrid seed more often and native selected seed less; a very low proportion of true hybrid or certified seed used; the use of seed from last year's crop almost exclusively and very little purchased; a much lower proportion with knowledge of true hybrid or certified seed but a slightly higher proportion with knowledge of more than one variety; a higher proportion who felt native seed was best and at the same time a lower proportion that felt true hybrid or certified was best;

and a slightly higher proportion that felt a variety was "best" because it was adapted to the area while a slightly lower proportion felt that high production was the reason for the "best" variety.

Observations and Further Questions:

There are some overall observations related to the summary data and some related questions that merit further consideration.

1. There seems to be some inconsistency in the responses from the Quezada A sub-area on seed selection. Is this because of lack of knowledge of different corn varieties or is it because it was the first place interviewed and the confusion on "true hybrid" vs. "degenerated hybrid" was not yet clarified in the interviews?

VI. FERTILIZER USE

Fertilizer use has been summarized in Table XI. Included in the summary are: the amount of fertilizer used in the 1973 corn crop, the type of fertilizer used, the amount of fertilizer seen as ideal, and the dangers seen in fertilizer use.

TABLE XI. Fertilizer Use

	A	B	C	Y	TOTAL
Used fertilizer on corn in 1973 (%) (Q.30)	45.0	26.4	77.4	55.9	50.7
Used up to 2 qq/mza fertilizer on corn in 1973 (%)(Q.30)	29.7	19.6	40.4	23.5	27.9
Used 3 or more qq/mz fertilizer on corn in 1973 (%)(Q.30)	15.3	6.8	37.0	32.4	22.8
Used complete formula fertilizer in 1973 (%)(Q.31)	11.8	6.0	54.6	2.2	17.8
Used partial formula fertilizer in 1973 (%)(Q.31)	36.4	24.1	23.5	52.9	34.6
Use of 3 or more qq/mza of fertilizer seen as ideal (%) (Q.32)	58.5	42.9	84.9	61.7	61.5
No danger seen in fertilizer use (%)(Q.33)	83.9	83.5	83.2	82.4	83.2

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table XI and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Slightly over half of the farmers used fertilizer in 1973 (Q.30).
2. Approximately one-half of the farmers that applied fertilizer in 1973, used less than 2 qq per manzana (Q.30).
3. The most common types of fertilizers used were 10-20-0, 15-15-15, and "Sulfate." Further analysis shows that partial formula fertilizer was used twice as often as complete formula fertilizer (Q.31).
4. In contrast to the number of farmers who actually used fertilizer, almost all of them felt that it should be used and at an average rate of at least 3 qq per manzana (Q.32).
5. Most of the farmers also felt that there was no danger in fertilizer use (Q.33).

Sub-Areas:

In addition to the fertilizer use characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. The farmers in Quezada A showed a slightly higher proportion of "no danger in fertilizer use" responses than the other sub-areas. All other aspects were much the same as the experimental area as a whole.
2. The farmers in Quezada B, showed considerably lower responses, as compared to the other sub-areas, in fertilizer use, use of complete formula fertilizer and amount of fertilizer seen as ideal.
3. The farmers in Quezada C ranked considerably higher than the other sub-areas in the amount of fertilizer used. the use of complete formula fertilizer and the amount perceived as ideal.
4. The farmers in Yupi indicated slightly more fear of fertilizer as being damaging to their crops and soil than the other sub-areas. All of the other aspects were much the same as the experimental area as a whole.

Observations and Further Questions:

There is an overall observation and some related questions that go beyond the survey data that merit further consideration.

1. Regarding all aspects of fertilizer use, Quezada C ranks higher than all of the sub-areas and Quezada B lowest.
2. How could the difference between the sub-areas be explained? What effect does price, availability, credit, technical assistance and past knowledge have?

VII. INSECT CONTROL

The methods of insect control used by the subsistence farmers of Jutiapa have been summarized in Table XII and the statements that follow. Included in the summary are: the knowledge of insects, the crops damaged by insects, the use of insecticides, the use of seed treatment, and the danger of insecticide use.

TABLE XII. Insect Control

	A	B	C	Y	TOTAL
Knowledge of two or more insects (%) (Q.209)	87.9	85.6	92.2	81.1	85.7
Most insect damage reported on corn alone (%) (Q.210)	50.9	60.0	42.2	64.4	54.8
Most insect damage reported on corn and beans combined (%) (Q.210)	31.0	26.4	42.2	20.5	29.7
Insecticide use in 1973 crop (reported in September) (%) (Q.35)	13.6	20.3	35.3	13.9	20.6
Insecticide use in 1973 crop (reported in November) (%) (Q.211)	25.0	28.8	38.8	15.2	26.5
Insecticide use in corn only in 1973 (%) (Q.211)	13.8	21.6	25.0	12.1	18.0
Insecticide use in corn and beans combination in 1973 (%) (Q.211)	4.3	4.8	9.5	1.5	4.9
Land disinfected before planting (%) (Q.203)	8.7	12.8	31.0	2.3	13.2

Source: 1973 Baseline Survey

Experimental Areas as a Whole:

As can be seen in Table XII and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Most of the farmers were aware of two or more insects (Q.209).
2. The most often mentioned crop that suffered insect damage was corn (54.8%). This was followed by plantings of corn and beans combined (29%) (Q.210).
3. In the early survey, 20.4% of the farmers reported using insecticides during the year (Q.35). The later survey in November showed the same overall use pattern and further indicated that they were most often used just on the corn crop with a much smaller number of farmers using them on the corn and bean combination (Q.211).
4. In addition to application of insecticides to the crops, a few farmers used them on the land before planting (Q.203).
5. In spite of the general low use of insecticides, most farmers do not consider them dangerous (Q.30).
6. Where danger was expressed it was usually in terms of danger to the health of the farmer and his family (Q.37).

Sub-Areas:

In addition to the methods of insect control of the experimental areas as a whole, there are some variations between sub-areas that can be noted:

1. Quezada A ranked slightly lower than the other sub-areas in terms of insecticide use as reported in September. In all other aspects there was little variation from the characteristics of the area as a whole.
2. Quezada B ranked higher than the other sub-areas in perceiving no danger in the use of insecticides. In all other aspects there was little variation from the characteristics of the area as a whole.
3. Quezada C ranked higher than other sub-areas in the knowledge of insecticides, in the use of insecticides, in perceiving no damage as a result of insecticide use, in the number of crops on which insecticides are used, and in the use of insecticides before planting. Interesting enough, this same sub-area reported lower damage on corn alone but higher damage on the corn-bean combination than the other sub-areas.
4. Yupi ranked lowest on all of the aspects of insect control. There is a slight discrepancy between the early and later surveys as to insecticide use (Q.35 and Q.211). Due to the higher proportion of the no answer responses in Q.35, the later survey (Q.211) is considered more accurate.

Observations and Questions:

There are some overall observations related to this summary as well as some further questions that go beyond the survey data. These merit further consideration.

1. Quezada C ranks the highest in overall insect control and Yupi ranks the lowest.
2. This same ranking follows for the attitude and practice components but not for knowledge.
3. Further investigation of the summary tabulation data indicates that in Quezada C where insecticides are used most often there are also more who feel that they are dangerous to use (Q.36). In the corresponding answer (Q.37), there are also more responses "danger to me and my family." Does this mean that increased use also brings a corresponding understanding of the risks involved?

VIII. DISEASE CONTROL

The methods of controlling plant diseases that are characteristic of the subsistence farmers in Jutiapa have been summarized in Table XIII. Included in the summary are: knowledge of plant diseases, problems of diseases in specific crops, the use of disease control materials and the use of seed treatment.

TABLE XIII. Disease Control

	A	B	C	Y	TOTAL
Farmers expressing no knowledge of specific plant diseases (%) (Q.212)	56.9	80.0	84.5	81.8	76.1
Problems with diseases in corn alone (%) (Q.213)	37.1	21.6	8.6	20.5	21.9
Problems with diseases in corn and beans combined (%) (Q.213)	19.0	24.0	29.3	9.1	20.0
Farmers using disease control on plants (%) (Q.214)	5.2	4.0	1.7	5.4	4.1
Farmers using seed treatment (%) (Q.207)	14.7	11.2	17.2	5.3	11.9

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table XIII and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Most of the farmers expressed no knowledge of specific plant diseases (Q.212).
2. In contrast to the lack of knowledge of specific plant diseases, almost half of the farmers indicated that they did have problems in their crops. This was most often mentioned in corn alone and in the corn-bean combination (Q.213).
3. Less than 5% of the farmers used any disease control on their plants (Q.214).
4. Seed treatment was used by about 12% of the farmers (Q.203).

Sub-Areas:

In addition to the characteristics of plant disease control of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. Quezada A ranked highest in knowledge of specific plant diseases and in reporting diseases in corn alone.
2. Quezada B did not vary greatly from the general characteristics of the whole area.
3. Quezada C ranked the lowest in disease knowledge, in problems in corn alone, and in disease control. It ranked highest in problems in corn and beans combined and in the use of seed treatment.
4. Yupi ranked slightly higher in disease control but lowest in problems in beans and corn combined and in seed treatment.

Observations and Further Questions:

There are some overall observations related to the summary data as well as some further questions that go beyond the survey data that merit consideration.

1. The information on disease control seems to be inconsistent with the pattern of insect control and fertilizer use. Are there actually fewer diseases in Quezada C? Is it a problem on which little has been done educationally? Perhaps the questions themselves have not given an accurate reflection of the real situation.

IX. CULTIVATION AND WEED CONTROL

The characteristics of cultivation and weed control have been summarized in Table XIV. Included for summary are: knowledge of weeds, the degree that weeds are seen as a problem, the use of chemical weed killers (herbicides) and the use of hilling as an agricultural practice.

TABLE XIV. Cultivation and Weed Control

	A	B	C	Y	TOTAL
Knowledge of two or more specific weeds (%) (Q.216)	73.3	82.4	83.6	84.9	81.1
Weed control seen as a problem, at least "sometimes" (%) (Q.215)	8.6	15.2	13.8	5.3	10.6
Use of herbicides to control weeds (%) (Q.217)	2.6	2.4	1.8	5.4	3.0
Corn is hilled (%) (Q.208)	99.1	92.8	97.5	60.6	86.7

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table XIV and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Most of the farmers (81.1%) named at least two weeds that were problems for them.
2. In spite of the knowledge of weeds, they were not generally seen as a problem. Only 10.6% saw them as a problem "sometimes" or "always." Most responded with "don't know" (see Q.215).
3. Few of the farmers used chemicals to control weeds
4. Most of the farmers do hill their corn.

Sub-Areas:

In addition to the cultivation and weed control characteristics of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. Quezada A, in contrast to the other sub-areas, reported less knowledge of specific weeds. and a higher proportion that hilled their corn.
2. Quezada B, in contrast to the other sub-areas, reported a higher proportion of weed control problems. It was much the same as the experimental area as a whole in the other aspects.

3. Quezada C, in contrast to the other sub-areas, reported the lowest use of chemicals for weed control. It was much the same as the experimental area as a whole in the other aspects.
4. Yupi, in contrast to the other sub-areas, reported a slightly higher proportion with knowledge of two or more weeds, a lower proportion feeling that weed control was a problem, a higher proportion of chemical use for weed control and a considerably lower proportion of farmers that hill their corn.

Observations and Further Questions:

There are some observations related to the summary data presented above as well as some further questions that merit consideration.

1. Corn hilling is a common practice in all of the sub-areas. It can be assumed that most of the weeds are also cleaned out of the rows at this time. It would be interesting to know if further cultivation is done at a later date to control weeds.
2. Why does Quezada C report less use of herbicides than the other sub-areas and at the same report knowledge of weeds as well as indicating that weed control is somewhat of a problem? Is hand cultivation used more here?
3. Why is corn hilling not as common in Yupi? Is it related to the topography or the manner in which corn is planted?

X. STORAGE, USE, AND MARKETING OF GRAINS

The characteristics of storage, use and marketing of grains have been summarized in Table XV. Included in the summary are: the proportion of the corn, bean, and sorghum crops sold, to whom the beans are sold, how corn and beans are stored, how much corn, beans and sorghum are purchased during the year, and the source of market information for grain prices.

TABLE XV. Storage, Use, and Marketing of Grains

	A	B	C	Y	TOTAL
Beans sold to truckers (%) (Q.20)	53.4	66.9	51.3	69.9	60.9
Farmers with grain storage tanks (%) (Q.38)	79.7	85.7	93.3	92.6	87.9
Corn stored in tanks (%)(Q.238)	81.9	90.4	93.1	93.2	89.8
Beans stored in tanks (%)(Q.239)	26.7	29.6	30.2	21.2	26.8
Beans stored in sacks (%)(Q.239)	30.2	34.4	43.1	48.5	39.3
Farmers selling no corn (%) (Q.240)	81.0	80.8	61.2	78.8	75.7
Farmers selling no beans (%) (Q.241)	38.8	31.2	37.1	40.9	37.0
Farmers selling no sorghum (%) (Q.242)	72.4	52.8	47.4	57.6	57.5
Farmers that purchased corn (%) (Q.243)	84.6	62.4	54.2	45.5	61.2
Farmers that purchased beans (%) (Q.244)	75.9	60.8	62.1	37.2	58.3
Farmers that purchased sorghum (%) (Q.245)	68.2	53.6	38.9	37.1	49.1
Source of market information "neighbors" and/or "in town" (%) (Q.246)	70.6	76.8	81.0	57.6	71.2
Source of market information "radio" (%) (Q.246)	24.1	19.2	12.9	10.6	16.5

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table XV and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Corn is usually stored in tanks (Q.238). Most of the farmers have tanks (Q.38).
2. Beans are not stored as often as corn but when stored, sacks or tanks are used (Q.239).
3. The majority of the farmers do not sell any corn at all (Q.240).
4. Beans are sold more often than corn. Only 37% of the farmers sell none of their beans at all (Q.241). Beans are usually sold to a trucker that comes through the area (Q.20).
5. Not all of the farmers plant sorghum. When planted, it is usually used at home and not sold (Q.242).
6. In addition to the corn grown at home, corn is also purchased throughout the year by the majority of the farmers (Q.243). The major corn purchase was for eating purposes.
7. Beans were also purchased throughout the year by most of the farmers (Q.244). The major bean purchases was also for eating purposes.
8. Sorghum was also purchased throughout the year by the farmers but not as commonly as corn and beans (Q.245). The major sorghum purchase was also for eating purposes.
9. Current grain prices were most often determined by talking to neighbors or in town. More than two-thirds of the farmers reported these two sources (Q.246). Radio was mentioned by only 16.5% of the farmers.

Sub-Areas:

In addition to the characteristics of grain storage, use and marketing as found in the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. Quezada A in contrast to the other sub-areas, reported fewer grain storage tanks; sold a lower proportion of their corn; stored a lower proportion of beans in sacks; a higher proportion selling no sorghum; bought more corn for eating purposes; bought more beans for eating; bought more sorghum for eating; got their market information in town more often than from neighbors; and a higher proportion getting their market information from radio.
2. Quezada B, in contrast to the other sub-areas, reported selling more of the bean crop; and getting market information more often from neighbors. They were much the same as the area as a whole on the other aspects.
3. Quezada C, in contrast to the other sub-areas, reported: more storage tanks, a greater use of storage tanks for beans; more corn sold; beans sold less often to truckers; and more of the sorghum crop sold.

4. Yupi, in contrast to the other sub-areas reported: more beans stored in sacks; less bean storage in tanks; less beans sold; when sold, beans more often sold to truckers; less corn bought; less beans bought; less sorghum bought; less market information from "in town" and radio.

Observations and Further Questions:

An overall observation and a related question merits consideration.

1. Yupi shows more of the characteristics of subsistence farming. They neither buy nor sell grains as often as the other sub-areas. Is this because of physical isolation or are there other reasons?

XI. TECHNICAL ASSISTANCE

The characteristics of technical assistance have been summarized in Table XVI. Included in the summary are: visits by agricultural technicians, knowledge of the agency that the visiting technicians represented, the degree of helpfulness of the technicians visit, the desire for future visits, and the agency from which a visit is desired.

TABLE XVI. Technical Assistance

	A	B	C	Y	TOTAL
Visit by agricultural technician (%) (Q.252)	37.0	8.0	64.7	29.5	34.1
Visited but unable to identify agency (%) (Q.253)	24.1	16.0	36.2	19.7	23.7
Visited and talked to personally (%) (Q.254)	19.0	7.2	31.9	16.7	18.4
Visit helpful "a little" or "considerable" (%) (Q.255)	24.2	4.0	45.7	13.6	21.3
Desired visit of technician (%) (Q.256)	94.0	98.4	96.6	90.9	94.9
Agencies desired: Ministry of Agriculture (%) (Q.257)	32.8	42.4	39.7	28.0	35.6
Best time for technician visit: "Before planting" (%) (Q.258)	80.2	73.6	75.0	59.1	71.6

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table XVI and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Approximately one-third of the farmers reported some kind of contact with agricultural technicians during the previous year (Q.252).
2. Most of those who did have assistance could not identify the sponsoring agency (Q.253). The Agricultural Extension Service, the Ministry of Agriculture, BANDESA, and PEMEP were identified in a small number of cases.

3. Personal contact and conversation accounted for about half of the reported cases of technical assistance. Much of the contact was in a group meeting (Q.254).
4. A majority of those who received technical assistance felt that it was of "a little" or "considerable" help (Q.255).
5. Most of the farmers felt that a visit of an agricultural technician would be desirable (Q.256).
6. The largest proportion of the farmers were unable to name a specific agency that they wanted to visit them but of all the agencies that were mentioned, the Ministry of Agriculture was the most common (Q.257).
7. The best time suggested for a visit was before planting (Q.258).

Sub-Areas:

In addition to the technical assistance characteristics of the area as a whole, there are some variations between sub-areas that can be noted:

1. Quezada A, in contrast to the other sub-areas, had more reported visits from the Ministry of Agriculture; and a higher number of requests for help before the planting season.
2. Quezada B, in contrast to the other sub-areas, reported fewer visits from technicians from any agency and consequently less personal contact or help. At the same time they expressed a greater need for technical help and felt that the Ministry of Agriculture was the proper agency.
3. Quezada C, in contrast to the other sub-areas, reported more visits by technicians, but more who could not identify the agency, considerably more who had both heard technicians speak in meetings and had talked to them personally, more help with agricultural problems because of the visits, more that were unable to identify which agency they would like help from, and slightly more who felt that the visits should be all during the cropping process.
4. Yupi, in contrast to the other sub-areas, reported more visits from the Agricultural Extension Service, a slightly lower proportion that felt a future visit was important, a slightly lower proportion desiring help from the Ministry of Agriculture yet slightly higher than the other sub-areas in mentioning BANDESA and the Agricultural Extension Service They responded less favorably to a visit before planting but slightly higher than the other sub-areas regarding visits during planting time and all through the cropping process.

Observations and Further Questions:

In addition to the material presented here for summary there are some overall observations and some related questions that merit further discussion by field personnel that know the area well.

1. Quezada C has had more technical assistance in the past although the desire for help is common to all of the sub-areas. How important is accessibility in offering technical services to these sub-areas? Are there some cultural factors that also explain the difference?

XII. RECENT CHANGES IN PLANTING METHODS

The recent changes in planting methods have been summarized in Table XVII. Included for summary are: the proportion of farmers that have changed, the source of ideas for change, and the results of the change in yields and income.

TABLE XVII. Recent Changes in Planting Methods

	A	B	C	Y	TOTAL
Farmers who changed planting methods (%) (Q.39)	35.6	30.1	54.6	33.1	37.9
Source of idea for change: "observed in another place" (%) (Q.40)	16.1	11.3	20.2	18.4	16.4
Source of idea for change: "agronomist" (%) (Q.40)	6.8	4.5	17.6	0.7	7.1
Source of idea for change: "a friend" (%) (Q.40)	1.7	5.3	5.9	7.4	5.1
Result of change: higher yields (%) (Q.41)	33.1	24.8	49.6	31.6	34.4
Result of change: more income (%) (Q.42)	32.2	25.6	49.6	30.9	34.2

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can b seen in Table XVII and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Slightly over one-third of the farmers reported changes in their planting methods in recent years. Conversely, a majority of the farmers reported no change.
2. For those that did change, "observation in another place" was the most frequent source of new ideas. Also mentioned was "agronomist" and "a friend" as sources of change ideas. It is interesting to note that only three of the total sample of 506 farmers reported radio as a source of new ideas.
3. Almost all of those that did report changes, also said that the change resulted in increased yields and more income.

Sub-Area:

In addition to the recent changes in planting practices of the experimental area as a whole, there are variations between sub-areas that can be noted·

1. The farmers in Quezada A, in contrast to the other sub-areas, reported a slightly higher proportion of "other" as the source of new ideas. All other aspects were much the same as the experimental area as a whole.
2. The farmers in Quezada B, in contrast to the other sub-areas, reported a lower proportion of recent changes in planting methods. They also reported lower corresponding yield and income increases as a result of changes in planting methods.
3. The farmers in Quezada C, in contrast to the other sub-areas, reported a considerable higher proportion of changes in planting methods; a considerable higher proportion of "agronomist" responses as to source of new information as well as a slightly higher of proportion of "observed in another place" responses to the same question; and a considerable more response on higher yields and increased income as a result of planting changes.
4. The farmers in Yupi, in contrast to the other sub-areas, reported the lowest proportion of "agronomists" as the source of ideas for recent changes in planting methods. At the same time these farmers reported a slightly higher proportion of "friends" as being the source of these changes.

Observations and Further Questions:

There are some additional questions that cannot be answered with data from the baseline survey. These should be explored to give a more complete view of the recent changes in the planting practices among subsistence farmers in Jutiapa.

1. What is the meaning of "other" as a response to the question on sour es of new ideas for recent planting changes (Q.40)?
2. It is evident that technical assistance has been available in the past in the Quezada C sub-area. What agency does this represent? How has this service been offered? Does the central location of this sub-area have a relation to these services?

XIII. OUTSIDE WORK

The pattern of work away from the home farm has been summarized in Table XVIII. Included for summary are: the proportion of farmers that work away, the time of year for outside work, the length of time away, the location of outside work and who takes care of home farm while the farmer is away.

TABLE XVIII. Outside Work

	A	B	C	Y	TOTAL
Work away part of year (%) (Q.259)	36.2	40.8	44.0	35.7	39.0
Month away (%) (Q.260)					
November	7.8	4.8	0.9	16.7	7.8
December	8.6	5.6	14.7	5.3	8.4
January	11.2	19.2	11.2	9.8	12.9
February	2.6	8.0	13.8	1.5	6.3
Length of stay: 4 or more weeks (%) (Q.261)	34.5	36.0	39.7	32.6	35.5
Destination (%) (Q.262)					
Southern Coast	19.8	17.6	37.1	8.3	20.2
Cotton Farms	7.8	16.0	3.4	13.6	10.4
Home farm cared for by other family member (%) (Q.263)	27.6	25.6	31.0	24.2	27.0

Source: 1973 Baseline Survey

Experimental Area as a Whole:

As can be seen in Table XVIII and in greater detail in the corresponding summary tables in the appendix, the entire experimental area can be characterized as follows:

1. Slightly over one-third of the farmers work part of the year in another area (Q.259).
2. January is the month of highest migration, followed by December, November and February in descending order (Q.260).
3. Most of those that leave spend four or more weeks away (Q.261).

4. The migrants most often go to the Southern Coast. The cotton farms are also mentioned (Q.262).
5. The farms are almost always cared for by another family member while they are away (Q.263).

Sub-Areas:

In addition to patterns of outside work of the experimental area as a whole, there are some variations between sub-areas that can be noted:

1. The farmers in Quezada A show the same general characteristics as the experimental area as a whole.
2. The farmers in Quezada B, in contrast to the other sub-areas, go more often to work in the cotton farms and leave more often in January.
3. The farmers in Quezada C, in contrast to the other sub-areas, show a slightly higher proportion of migration, a much higher proportion going to the Southern Coast, and fewer to the cotton farms, a higher proportion leaving in December and February, and the highest proportion staying away 4 weeks or more. (There is also a much higher proportion staying away 8 weeks or more.) (Q.261).
4. The farmers in Yupi in contrast to the other sub-areas, show a lower proportion of migration, a lower proportion going to the Southern Coast, and a higher proportion migrating in November while lower in the other months. They also tend to stay less time away.

Observation and Further Questions:

The above summary data suggests some observations and questions that merit further consideration.

1. There is a higher proportion of migration in Quezada C than in the other sub-areas. How does this relate to transportation facilities, skills, and other factors making them more employable? How does this effect the work on their home farm? How many new ideas about agricultural practices do they pick up in their travels?

SUMMARY

The following summary statements are very general in nature but will serve to give a brief profile of the agricultural characteristics of the subsistence farmers in the Department of Jutiapa in southeastern Guatemala.

1. The land holdings are small (6.7 acres) and usually owner operated. They are fragmented into several pieces and often at some distance from each other. Most of the land is useable for cropping and the farmers feel that it is good land but could be more productive.
2. The cropping system common to the area includes corn as the most important crop followed by beans and sorghum. Tobacco, rice, vegetables or other crops are planted but only in some regions. Beans are usually planted with either corn or sorghum and a second crop is often planted after the first one is harvested. The farmers are generally optimistic about the yields.
3. As to specific crops, corn is planted by everyone with an average area of 1.9 manzanas (3.2 acres) and an average yield of approximately 15 qq/mza (9 cwt/acre) in 1973; beans are planted by most farmers also with an average area of 1.14 manzanas (1.9 acres) and an average yield of .65 qq/cda (6.1 cwt/acre) in 1973; and sorghum is planted but not as common as corn or beans with an average area planted of 1.5 manzanas (2.6 acres) and average yield of 15 qq/mza (9 cwt/acre) in 1973.
4. Land preparation for planting is usually done by hand although slightly over half of the farmers do use oxen for plowing. Very few have used tractors. A few of the farmers have their own oxen. Horses are common but are not used in field labor. There are a few mules in the area but they are used for transportation, much as the horses.
5. Seeds are most often selected from the prior year's harvest. Due to an apparent misunderstanding of the nature of hybrid corn seed, most farmers are planting a degenerated hybrid variety. Many are also planting selected native corn seed. A small percentage (10%) are planting purchased seed that is a true hybrid and/or certified.
6. Fertilizers were used by half of the farmers in 1973. The amounts used were usually less than 2 qq/mza (1.2 cwt/acre) and of an incomplete formula type.
7. Insect damage was reported by many of the farmers although only half of those reporting used insecticides The insecticides were usually used on corn.
8. Plant diseases are not commonly known by name but one-half of the farmers reported problems. Only a few have used chemicals for disease control and this was mostly for seed treatment.
9. Weed control is not seen by the farmers as a great problem. Chemical weed killers are used by very few but most farmers do hill and cultivate by hand.

10. Grains are stored for home use in tanks (corn and sorghum) and/or sacks (beans). Beans are sold more often than corn or sorghum and the sale is to truckers who come into the neighborhood. Price information is obtained from neighbors or by inquiring in town. The three basic grains are also purchased during the year by more than half of the farmers.
11. Technical assistance was reported by one-third of the farmers but the agency could not usually be identified There was wide agreement that future help was desired and requested before the planting season begins.
12. Recent changes in planting methods were reported by one-third of the farmers and they felt that these changes had helped to increase yields and income.
13. One-third of the farmers also do outside work to help supplement their income. They leave the community sometime between November and February (most in January) and most often go to the southern coast to work.

All four of the sub-areas were chosen because they were as much alike as possible in all of the characteristics mentioned above. All available data was examined as well as visits to the area to observe and talk with local people. The baseline survey confirms that the sub-areas were well chosen in their similarity. Nonetheless, there are some differences between the sub-areas that must be acknowledged. The outstanding variations of each sub-area are summarized in the following statements.

1. The farmers in Quezada A reported a higher proportion of land ownership than the other sub-areas. Although not greatly different from the other sub-areas, larger farm size, greater area planted to corn, greater area planted to rice, and more use of mules were reported by these farmers.
2 The farmers in Quezada B reported lower corn yields than the other sub-areas and lower application rates of fertilizer on corn and generally lower levels of use. This sub-area reported fewer visits by agricultural technicians although their desire for such visits is greater than the others. More farmers from Quezada B work away in January than the other sub-areas.
3. The farmers and farms in Quezada C, as compared to the other sub-areas, are outstanding in many ways reporting high in land preparation methods, in the use of fertilizer, in the use of insecticides, in the amount of technical help available, in recent agricultural method changes and in resulting yields and income from changes. More tobacco is planted although rice is much less common.
4. Yupi was chosen as a control area after considering a number of other possible locations. Because of the experimental design it was necessary to isolate the control area from the three treatment areas for radio broadcasting. In doing this, a number of variations in both natural and cultural environment were introduced. Some of these are reflected in the data summarized in this report. The farmers and farms in Yupi as compared to the other sub-areas are smaller in size, the corn plantings are smaller, land is not plowed as often before planting nor are oxen used as much as in

the other sub-areas. Corn is hilled considerably less often, and insecticide use is not as common. There is less participation in the market, both in selling grains as well as buying for consumption. Seed corn, in particular, is more often of the degenerated hybrid variety that comes from the previous crop. In contrast to this, fertilizer use is common (although of partial formula) and chemical weed killers are used more often.

All of the material in this paper and in Working Paper No. 1 are of descriptive nature and will serve to give a profile of the subsistence farmers of Jutiapa at the time the Basic Village Education Project was initiated. They will be used as a point of comparison as the project continues and as other experimental areas are incorporated. The baseline data from these reports will serve as the standard for measurement of change in agricultural practices throughout the project and will be subjected to intensive statistical analysis.

APPENDIX

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 7 (Ind.) **Question:** Duration of Interview

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0.												
1. 0-19 minutes	2	1.7	1	0.8	2	1.7	5	1.4	5	3.7	10	2.0
2. 20-39 minutes	65	55.1	93	69.9	90	75.6	248	67.0	112	82.4	360	71.1
3. 40-59 minutes	29	24.6	31	23.3	22	18.5	82	22.2	15	11.0	97	19.2
4. 60-79 minutes	20	16.9	7	5.3	5	4.2	32	8.6	4	2.9	36	7.1
5. 80+	2	1.7	1	0.8	0	0	3	0.8	0	0	3	0.6
Total Cases	118	100.0	133	100.1	119	100.0	370	100.0	136	100.0	506	100.0
Mean	2.619		2.353		2.252		2.405		2.132		2.332	
Standard Deviation	0.847		0.630		0.556		0.701		0.449		0.663	
Sub-set	I		II	III	III				II			

Correlations: 9, 21, -36, -72, -77, -78, -79, -81, -114, 117, 120, 121, 126.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 8 (Ind.) Question: Attitude and Cooperation of Subject

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. Poor	0	0	2	1.5	2	1.7	4	1.1	0	0	4	0.8
1. Not Bad	27	22.9	29	21.8	18	15.1	74	20.0	45	33.1	119	23.5
2. Good	90	76.3	101	75.9	98	82.4	289	78.1	91	66.9	380	75.1
3. (#3)*			1	0.8			1	0.3			1	0.2
4. (#7)*	1	0.8			1	0.8	2	0.5			2	0.4
5.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.0	136	100.0	506	100.0
Mean	1.814		1.759		1.857		1.808		1.669			
Standard Deviation	0.640		0.479		0.642		0.588		0.472			
Sub-set												

*#3 & #7 not coded

Correlations: 9, 21, 32, 50, 61, 62, 64, 66, 82, 92, 119, 127.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 9 (Land Ownership) — Question: How many cuerdas or manzanas in your farm?

	Q.A. (RM)		Q.B. (RMA)		Q.C. (R)		Q. A+B+C		YUPI (CON)		Q. A+B+C+Y	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0. No answer	0	0	0	0	0	0	0	0	0	0	0	0
1. None	0	0	0	0	0	0	0	0	1	0.7	1	0.2
2. Less than 1 manzana	4	3.4	8	6.0	6	5.0	18	4.9	12	8.8	30	5.9
3. 1-2	33	28.0	54	40.6	41	34.5	128	34.6	78	57.4	206	40.7
4. 3-4	38	32.2	41	30.8	38	31.9	117	31.6	29	21.3	146	28.9
5. 5-6	21	17.8	16	12.0	16	13.4	53	14.3	12	8.8	65	12.8
6. 7-8	9	7.6	11	8.3	6	5.0	26	7.0	3	2.2	29	5.7
7. 9-10	7	5.9	1	0.8	5	4.2	13	3.5	1	0.7	14	2.8
8. 11-12	2	1.7	1	0.8	0	0	3	0.8	0	0	3	0.6
9. 12 or more	4	3.4	1	0.8	7	5.9	12	3.2	0	0	12	2.4
Total Cases	118	100.0	133	100.1	119	99.9	370	99.9	136	99.9	506	100.0
Mean	4.398		3.850		4.210		4.141		3.382		3.937	
Standard Deviation	1.553		1.209		1.646		1.486		0.927		1.399	
Sub-set												

Correlations: 7, 8,-10, 13, 14, 17, 18, 21, 22, 30, 35, 39, 41, 45, 49, 50, 57, 58, 59, 61, 62,-82, 86, 89, 91, 96, 97, 107, 112, -113, 117, 119, 120, 121, 122, 123, 124, 125, 126, 127, 130.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 10 (Land Ownership) — Question: Do you own the land?

	Q.A. (RM)		Q.B. (RMA)		Q.C. (R)		Q. A+B+C		YUPI (CON)		Q. A+B+C+Y	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0. No answer	0	0	0	0	0	0	0	0	0	0	0	0
1. Yes, I own it	85	72.0	78	58.6	60	50.4	223	60.3	68	50.0	291	57.5
2. Own part - rent part	1	0.8	22	16.5	14	11.8	37	10.0	24	17.6	61	12.1
3. Own, rent & use communal	2	1.7	2	1.5	2	1.7	6	1.6	1	0.7	7	1.4
4. Own part & part is communal	6	5.1	1	0.8	4	3.4	11	3.0	0	0	11	2.2
5. No, rent & part is communal	0	0	0	0	1	0.8	1	0.3	0	0	1	0.2
6. No, all is communal	7	5.9	0	0	21	17.6	28	7.6	1	0.7	29	5.7
7. No, all is rented	4	3.4	22	16.5	5	4.2	31	8.4	16	11.8	47	9.3
8. Work in shares	2	1.7	1	0.8	3	2.5	6	1.6	11	8.1	17	3.4
9. Other	11	9.3	7	5.3	9	7.6	27	7.3	15	11.0	42	8.3
Total Cases	118	99.9	133	100.0	119	100.0	370	100.1	136	99.9	506	100.1
Mean	2.559		2.684		3.202		2.811		3.382		2.964	
Standard Deviation	2.769		2.684		2.800		2.755		3.169		2.880	
Sub-set												

Correlations: 9, 13, -51, -71, 89, 107, -126, -127, 129.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 15 (Production) — Question: Did you plant beans this year?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	2	1.7	2	1.5	0	0	4	1.1	0	0	4	0.8
1. No	9	7.6	5	3.8	5	4.2	19	5.1	2	1.5	21	4.2
2. Yes	107	90.7	125	94.0	113	95.0	345	93.2	132	97.1	477	94.3
3. *(#3)							1	0.3	1	0.7	2	0.4
4. *(#4)									1	0.7	1	0.2
5. *(#5)			1	0.8	1	0.8	1	0.3			1.	0.2
Total Cases	118	100.0	133	100.1	119	100.0	370	100.0	136	100.0	506	100.1
Mean	1.890		1.955		1.966		1.938		2.007		1.957	
Standard Deviation	0.365		0.406		0.223		0.344		0.228		0.318	
Sub-set												

Correlations: 16, 17, 18, 19, 58, 117.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 16 (Production)

Question: How did you plant your beans?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	9	7.6	7	5.3	5	4.2	21	5.7	1	0.7	22	4.3
1. Alone	15	12.7	10	7.5	5	4.2	30	8.1	32	23.5	62	12.3
2. With corn	34	28.8	18	13.5	76	63.9	128	34.6	18	13.2	146	28.9
3. With sorghum	38	32.2	33	24.8	6	5.0	77	20.8	26	19.1	103	20.4
4. With corn and sorghum	22	18.6	64	48.1	27	22.7	113	30.5	59	43.4	172	34.0
5. Others	0	0	1	0.8	0	0	1	0.3	0	0	1	0.2
Total Cases	118	99.9	133	100.0	119	100.0	370	100.0	136	99.9	506	100.1
Mean	2.415		3.053		2.378		2.632		2.809		2.680	
Standard Deviation	1.157		1.195		1.017		1.169		1.244		1.191	
Sub-set												

Correlations: 15, 17, 18, 19, -30, -36, 43, -123, -125.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 17 (Production) — Question: How many cuerdas of beans did you plant?

	Q.A. (RM)		Q.B. (RMA)		Q.C. (R)		Q. A+B+C		YUPI (CON)		Q. A+B+C+Y	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0. No answer	10	8.5	5	3.8	5	4.2	20	5.4	1	0.7	21	4.2
1. 0-7	38	32.2	27	20.3	15	12.6	80	21.6	17	12.5	97	19.2
2. 8-15	32	27.1	30	22.6	37	31.1	99	26.8	51	37.5	150	29.6
3. 16-23	22	18.6	36	27.1	34	28.6	92	24.9	39	28.7	131	25.9
4. 24-31	6	5.1	11	8.3	7	5.9	24	6.5	13	9.6	37	7.3
5. 32-39	4	3.4	7	5.3	10	8.4	21	5.7	10	7.4	31	6.1
6. 40-47	1	0.8	2	1.5	2	1.7	5	1.4	2	1.5	7	1.4
7. 48-55	4	3.4	9	6.8	5	4.2	18	4.9	3	2.2	21	4.2
8. 56-63	1	0.8	1	0.8	1	0.8	3	0.8	0	0	3	0.6
9. 64 or more	0	0	5	3.8	3	2.5	8	2.2	0	0	8	1.6
Total Cases	118	99.9	133	100.3	119	100.0	370	100.2	136	100.1	506	100.1
Mean	2.153		3.023		2.950		2.722		2.728		2.723	
Standard Deviation	1.626		2.112		1.886		1.930		1.325		1.786	
Sub-set												

Correlations: 9, 13, 15, 16, 18, 21, 22, 30, 31, 32, 35, 39, 41, 45, 49, 50, 57, 58, 60, 61, 62, 80, 85, 86, 89, 96, 117, 118, 119, 121, 122, 123, 124, 125, 127,

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 18 (Production) — Question: What was your total production?

	Q.A. (PM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	11	9.3	6	4.5	5	4.2	22	5.9	1	0.7	23	4.5
1. 0.0-0.5 qq/cda	55	46.6	45	33.8	61	51.3	161	43.5	81	59.6	242	47.8
2. 0.6-1.0 qq/cda	36	30.5	70	52.6	52	43.7	158	42.7	50	36.8	208	41.1
3. 1.1-1.5 qq/cda	5	4.2	9	6.8	1	0.8	15	4.1	2	1.5	17	3.4
4. 1.6-2.0 qq/cda	4	3.4	2	1.5	0	0	6	1.6	1	0.7	7	1.4
5. 2.1-or more	4	3.4	1	0.8	0	0	5	1.4	1	0.7	6	1.2
6. *(#6)	3	2.5					3	0.8			3	0.6
7.												
8.												
9.												
Total Cases	118	99.9	133	100.0	119	100.0	370	100.0	136	100.0	506	100.0
Mean	1.661		1.692		1.412		1.592		1.441		1.551	
Standard Deviation	1.276		0.790		0.588		0.930		0.653		0.866	
Sub-set												

*#6 appears, not coded

Correlations: 9, 13, 15, 16, 17, 19, 21, 22, 30, 39, 41, 49, 58, -72, 89, 92, 96, 97, 106, 112, 117, 122, 123, 124, 129,130

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 20 (Ind. Var.) **Question:** If you sold your beans, where did you sell them?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	35	29.7	21	15.8	25	21.0	81	21.9	13	9.6	94	18.6
1. To a neighbor	3	2.5	4	3.0	7	5.9	14	3.8	11	8.1	25	4.9
2. To a store	1	0.8	3	2.3	1	0.8	5	1.4	2	1.5	7	1.4
3. To a trucker	63	53.4	89	66.9	61	51.3	213	57.6	95	69.9	308	60.9
4. To INDECA	0	0	0	0	0	0	0	0	0	0	0	0
5. In town	10	8.5	9	6.8	18	15.1	37	10.0	15	11.0	52	10.3
6. To others	6	5.1	7	5.3	7	5.9	20	5.4	0	0	20	4.0
7.												
8.												
9.												
Total Cases	118	100.0	133	100.1	119	100.0	370	100.1	136	100.1	506	100.1
Mean	2.373		2.737		2.723		2.616		2.757		2.654	
Standard Deviation	1.792		1.502		1.794		1.698		1.262		1.592	
Sub-set												

No Correlations.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 21 (Production) — Question: How much corn did you plant this year?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	1	0.8	1	0.8	0	0	2	0.5	0	0	2	0.4
1. Less than 1 manzana	9	7.6	19	14.3	9	7.6	37	10.0	22	16.2	59	11.7
2. 1 manzana	33	28.0	47	35.3	34	28.6	114	30.8	65	47.8	179	35.4
3. 2 manzanas	36	30.5	41	30.8	30	25.2	107	28.9	37	27.2	144	28.5
4. 3 manzanas	23	19.5	19	14.3	25	21.0	67	18.1	8	5.9	75	14.8
5. 4 manzanas	11	9.3	4	3.0	11	9.2	26	7.0	3	2.2	29	5.7
6. 5 manzanas	3	2.5	1	0.8	6	5.0	10	2.7	1	0.7	11	2.2
7. 6 manzanas	1	0.8	0	0	3	2.5	4	1.1	0	0	4	0.8
8. 7 manzanas	0	0	1	0.8	1	0.8	2	0.5	0	0	2	0.4
9. 8 or more	1	0.8	0	0	0	0	1	0.3	0	0	1	0.2
Total Cases	118	99.8	133	100.1	119	99.9	370	99.9	136	100.0	506	100.1
Mean	3.085		2.602		3.252		2.965		2.324		2.792	
Standard Deviation	1.381		1.167		1.480		1.368		0.942		1.298	
Sub-set												

Correlations: 7, 8, 9, 13, 14, 17, 18, 22, 23, 30, 31, 32, 35, 38, 39, 41, 45, 49, 50, 51, -56, 57, 58, 59, 60, 61, 62, 85, 86, 89, 96, 107, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 130.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 22 (Production)

Question: What was the yield per cuerda/manzana?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	10	8.5	5	3.8	5	4.2	20	5.4	1	0.7	21	4.2
1. 5-9 qq per manzana	19	16.1	35	26.3	17	14.3	71	19.2	44	32.4	115	22.7
2. 10-14 qq per manzana	31	26.3	33	24.8	23	19.3	87	23.5	26	19.1	113	22.3
3. 15-19 qq per manzana	26	22.0	23	17.3	19	16.0	68	18.4	20	14.7	88	17.4
4. 20-24 qq per manzana	12	10.2	18	13.5	19	16.0	49	13.2	26	19.1	75	14.8
5. 25-29 qq per manzana	4	3.4	7	5.3	14	11.8	25	6.8	5	3.7	30	5.9
6. 30-34 qq per manzana	4	3.4	7	5.3	9	7.6	20	5.4	2	1.5	22	4.3
7. 35-39 qq per manzana	1	0.8	1	0.8	3	2.5	5	1.4	3	2.2	8	1.6
8. 40-44 qq per manzana	6	5.1	2	1.5	4	3.4	12	3.2	3	2.2	15	3.0
9. 45 or more	5	4.2	2	1.5	6	5.0	13	3.5	6	4.4	19	3.8
Total Cases	118	100.0	133	100.1	119	100.1	370	100.0	136	100.0	506	100.0
Mean	2.975		2.707		3.588		3.076		2.912		3.032	
Standard Deviation	2.278		1.854		2.283		2.136		2.131		2.153	
Sub-set												

Correlations: 9, 12, 13, 14, 17, 18, 21, 23, 26, 30, 31, 32, 35, 39, 41, 49, 52, 57, 58, 59, 60, 61, 80, 86, 89, 91, 93, 96, 106, 112, 117, 118, 119, 120, 121, 122, 123, 124, 125, 129, 130.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 23 (Attitude-Seeds)

Question: What kind of seed did you use this year?

	Q.A. (RM)		Q.B. (RMA)		Q.C. (R)		Q. A+B+C		YUPI (CON)		Q. A+B+C+Y	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0. No answer	1	0.8	1	0.8	0	0	2	0.5	0	0	2	0.4
1. Nothing special	7	5.9	2	1.5	2	1.7	11	3.0	1	0.7	12	2.4
2. Native selected	49	41.5	52	39.1	58	48.7	159	43.0	51	37.5	210	41.5
3. Improved	40	33.9	56	42.1	52	43.7	148	40.0	82	60.3	230	45.5
4. Hybrid	17	14.4	16	12.0	3	2.5	36	9.7	1	0.7	37	7.3
5. Certified	4	3.4	6	4.5	3	2.5	13	3.5	1	0.7	14	2.8
6. *(#9)					1	0.8	1	0.3			1	0.2
7.												
8.												
9.												
Total Cases	118	99.9	133	100.0	119	99.9	370	100.0	136	99.9	506	100.1
Mean	2.653		2.767		2.605		2.678		2.632		2.666	
Standard Deviation	0.946		0.878		0.913		0.912		0.555		0.831	
Sub-set												

*#9 not on coding sheet

Correlations: 13,21, 22, 24, 25, 26, 41, 85, 86, 89, 91, 96, 98, 117, 118.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 24 (Attitude-Seed)

Question: Where did you obtain your corn for planting this year?

	Q.A. (RM)		Q.B. (RMA)		Q.C. (R)		Q. A+B+C		YUPI (CON)		Q. A+B+C+Y	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
). No answer	1	0.8	0	0	0	0	1	0.3	1	0.7	2	0.4
.. Last year's crop	77	65.3	98	73.7	102	85.7	277	74.9	124	91.2	401	79.2
?. New seed (from where?)	32	27.1	32	24.1	10	8.4	74	20.0	10	7.4	84	16.6
3. Other	7	5.9	1	0.8	5	4.2	13	3.5	1	0.7	14	2.8
4. *(#7)	1	0.8	2	1.5	2	1.7	5	1.4			5	1.0
5.												
Total Cases	118	99.9	133	100.1	119	100.0	370	100.1	136	100.0	506	100.0
Mean	1.432		1.346		1.269		1.349		1.081		1.277	
Standard Deviation	0.800		0.835		0.890		0.843		0.323		0.749	
Sub-set												

*7 not on coding sheet

Correlations: -11, 23, 25, 26, 47, 06.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 25 (Attitude-Seed)

Question: What are the different kinds of seed that are used here?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	0	0	1	0.8	1	0.8	2	0.5	0	0	2	0.4
1. Nothing special	1	0.8	2	1.5	1	0.8	4	1.1	1	0.7	5	1.0
2. Native selected	32	27.1	32	24.1	43	36.1	107	28.9	46	33.8	153	30.2
3. Improved	2	1.7	2	1.5	3	2.5	7	1.9	28	20.6	35	6.9
4. Hybrid	42	35.6	43	32.3	33	27.7	118	31.9	17	12.5	135	26.7
5. Certified	15	12.7	18	13.5	15	12.6	48	13.0	5	3.7	53	10.5
6. More than one kind	26	22.0	35	26.3	23	19.3	84	22.7	39	28.7	123	24.3
7.												
8.												
9.												
Total Cases	118	99.9	133	100.0	119	99.8	370	100.0	136	100.0	506	100.0
Mean	3.983		4.090		3.706		3.932		3.706		3.872	
Standard Deviation	1.485		1.559		1.586		1.549		1.656		1.580	
Sub-set												

Correlations: 23, 24, 26, -95, 118, 119.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 26 (Attitude-Seed) Question: What kind of seed do you think is best?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	2	1.7	4	3.0	5	4.2	11	3.0	4	2.9	15	3.0
1. Nothing special	4	3.4	2	1.5	0	0	6	1.6	1	0.7	7	1.4
2. Native selected	32	27.1	42	31.6	37	31.1	111	30.0	52	38.2	163	32.2
3. Improved	4	3.4	2	1.5	4	3.4	10	2.7	45	33.1	55	10.9
4. Hybred	58	49.2	60	45.1	55	46.2	173	46.8	30	22.1	203	40.1
5. Certified	18	15.3	22	16.5	15	12.6	55	14.9	4	2.9	59	11.7
6. *			1	0.8	3	2.5	4	1.1			4	0.8
7.												
8.												
9.												
Total Cases	118	100.1	133	100.0	119	100.0	370	100.1	136	99.9	506	100.1
Mean	3.407		3.368		3.353		3.376		2.794		3.219	
Standard Deviation	1.228		1.305		1.331		1.287		0.992		1.240	
Sub-set												

*Listed though not on coding sheet

Correlations: 22, 23, 24, 25, 26, 35, 39, 41, 59, 61, 85, 91, 96, 97, 98, 112, 117, 118, 119, 120, 121, 122, 123, 124, 125.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 27 (Attitude-Seed) — Question: Why do you think it is best?

		Q.A. (RM)		Q.B. (RMA)		Q.C. (R)		Q. A+B+C		YUPI (CON)		Q. A+B+C+Y	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.	No answer	4	3.4	3	2.3	4	3.4	11	3.0	4	2.9	15	3.0
1.	High germination	2	1.7	3	2.3	8	6.7	13	3.5	7	5.1	20	4.0
2.	Resistant to lodging	4	3.4	6	4.5	5	4.2	15	4.1	8	5.9	23	4.5
3.	High producing	100	84.7	101	75.9	83	69.7	284	76.8	93	68.4	377	74.5
4.	Easy to cook	0	0	1	0.8	1	0.8	2	0.5	1	0.7	3	0.6
5.	Sells well	0	0	0	0	0	0	0	0	1	0.7	1	0.2
6.	It is adapted	8	6.8	18	13.5	18	15.1	44	11.9	22	16.2	66	13.0
7.				1	0.8			1	0.3			1	0.2
8.													
9.													
	Total Cases	118	100.0	133	100.1	119	99.9	370	100.1	136	99.9	506	100.0
	Mean	3.034		3.286		3.185		3.173		3.257		3.196	
	Standard Deviation	1.012		1.271		1.402		1.242		1.404		1.286	
	Sub-set												

*Not on coding sheet
No correlations

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 28 (Attitude-Seed)

Question: Do you think there is any danger in planting a new kind of seed?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
). No answer	6	5.1	3	2.3	1	0.8	10	2.7	1	0.7	11	2.2
.. Yes	9	7.6	11	8.3	7	5.9	27	7.3	10	7.4	37	7.3
?. Don't know	5	4.2	6	4.5	3	2.5	14	3.8	4	2.9	18	3.6
). No	97	82.2	113	85.0	108	90.8	318	85.9	121	89.0	439	86.8
*. *	1	0.8					1	0.3			1	0.2
5.												
Total Cases	118	99.9	133	100.1	119	100.0	370	100.0	136	100.0	506	100.0
Mean	2.661		2.722		2.832		2.738		2.801		2.755	
Standard Deviation	0.839		0.711		0.557		0.713		0.594		0.683	
Sub-set												

*Not on coding sheet

Correlations: 33, 36, 58, 72, 73, 104, 124, 125.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 29 (Attitude-Seed)

Question: Why do you think there is danger?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	65	55.1	79	59.4	75	63.0	219	59.2	92	67.6	311	61.5
1. Don't know	11	9.3	7	5.3	2	1.7	20	5.4	7	5.1	27	5.3
2. It could give lower yields	9	7.6	9	6.8	6	5.0	24	6.5	5	3.7	29	5.7
3. Might not do well here	2	1.7	3	2.3	3	2.5	8	2.2	4	2.9	12	2.4
4. There is no danger	31	26.3	35	26.3	33	27.7	99	26.8	28	20.6	127	25.1
5.												
Total Cases	118	100.0	133	100.1	119	99.9	370	100.1	136	99.9	506	100.0
Mean	1.347		1.308		1.303		1.319		1.037		1.243	
Standard Deviation	1.722		1.746		1.792		1.749		1.644		1.724	
Sub-set												

No Correlations.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 30 (Fertilizers) Question: Did you use fertilizer in your corn? (How much?)

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	15	12.7	31	23.3	7	5.9	53	14.3	19	14.0	72	14.2
1. None	50	42.4	67	50.4	20	16.8	137	37.0	41	30.1	178	35.2
2. Less than 1 qq/Mz	6	5.1	3	2.3	7	5.9	16	4.3	1	0.7	17	3.4
3. 1-2 qq/Mz	29	24.6	23	17.3	41	34.5	93	25.1	31	22.8	124	24.5
4. 3-4 qq/Mz	12	10.2	8	6.0	35	29.4	55	14.9	27	19.9	82	16.2
5. 5-6 qq/Mz	2	1.7	0	0	7	5.9	9	2.4	9	6.6	18	3.6
6. 7 or more	4	3.4	1	0.8	2	1.7	7	1.9	8	5.9	15	3.0
7.												
8.												
9.												
Total Cases	118	100.1	133	100.1	119	100.1	370	99.9	136	100.0	506	100.1
Mean	1.958		1.353		2.891		2.041		2.478		2.158	
Standard Deviation	1.516		1.250		1.395		1.522		1.793		1.609	
Sub-set												

Correlations: 9, 13, 14, -16, 17, 18, 21, 22, 31, 32, 35, 39, 41, 45, 49, 50, 58, 60, 61, 62, 71, 73, 77, 78, 79, 80, 82, 91, 106, 117, 121, 122, 123, 124, 130.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 31 (Fertilizer) Question: What kind of fertilizer?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	38	32.2	66	49.6	19	16.0	123	33.2	46	33.8	169	33.4
1. None	23	19.5	27	20.3	7	5.9	57	15.4	15	11.0	72	14.2
2. Don't know	0	0	0	0	0	0	0	0	0	0	0	0
3. 16-20-0	35	29.7	22	16.5	22	18.5	79	21.4	3	2.2	82	16.2
4. 15-15-15	13	11.0	6	4.5	60	50.4	79	21.4	3	2.2	82	16.2
5. 12-24-12	1	0.8	2	1.5	5	4.2	8	2.2	0	0	8	1.6
6. Urea	2	1.7	2	1.5	1	0.8	5	1.4	1	0.7	6	1.2
7. Nitrate	1	0.8	1	0.8	0	0	2	0.5	0	0	2	0.4
8. Sulfate	0	0	1	0.8	1	0.8	2	0.5	67	49.3	69	13.6
9. Other	5	4.2	6	4.5	4	3.4	15	4.1	1	0.7	16	3.2
Total Cases	118	99.9	133	100.0	119	100.0	370	100.1	136	99.9	506	100.0
Mean	2.110		1.564		3.261		2.284		4.316		2.830	
Standard Deviation	2.210		2.330		1.950		2.283		3.812		2.916	
Sub-set												

Correlations: 13, 14, 17, -19, 21, 22, 30, 32, 39, 41, 49, 50, 57, 58, 60, 71, 80, 85, 89, 109.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 32 (Fertilizer) **Question: How much fertilizer do you think would be good to use?**

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	12	10.2	16	12.0	7	5.9	35	9.5	20	14.7	55	10.9
1. None	1	0.8	0	0	0	0	1	0.3	0	0	1	0.2
2. less than 1 qq/Mz	6	5.1	3	2.3	0	0	9	2.4	1	0.7	10	2.0
3. 1-2 qq/Mz	30	25.4	57	42.9	11	9.2	98	26.5	31	22.8	129	25.5
4. 3-4 qq/Mz	50	42.4	41	30.8	39	32.8	130	35.1	36	26.5	166	32.8
5. 5-6 qq/Mz	14	11.9	15	11.3	43	36.1	72	19.5	24	17.6	96	19.0
6. 7 or more	5	4.2	1	0.8	19	16.0	25	6.8	24	17.6	49	9.7
7.												
8.												
9.												
Total Cases	118	100.0	133	100.1	119	100.0	370	100.1	136	99.9	506	100.1
Mean	3.415		3.173		4.353		3.630		3.699		3.648	
Standard Deviation	1.458		1.364		1.388		1.495		1.651		1.597	
Sub-set	I		II	III	II				III			

Correlations: 14, 17, 21, 22, 30, 31, 33, 35, 36, 39, 41, 45, 49, 50, 57, 58, 59, 60, 61, 62, 71, 72, 73, 80, 82, 86, 91, 92, 109, 112, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 130.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 33 (Fertilizer) Question: Do you think there is any danger in using fertilizer?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	2	1.7	5	3.8	0	0	7	1.9	6	4.4	13	2.6
1. Yes	17	14.4	12	9.0	14	11.8	43	11.6	8	5.9	51	10.1
2. Don't know	0	0	5	3.8	6	5.0	11	3.0	10	7.4	21	4.2
3. No	99	83.9	111	83.5	99	83.2	309	83.5	112	82.4	421	83.2
4.												
Total Cases	118	100.0	133	100.1	119	100.0	370	100.0	136	100.1	506	100.1
Mean	2.661		2.669		2.714		2.681		2.676		2.680	
Standard Deviation	0.787		0.795		0.666		0.751		0.778		0.758	
Sub-set												

Correlations: -12, 28, 32, 35, 36, -50.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 34 (Fertilizer) **Question:** What might happen if you use fertilizer?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	35	29.7	46	34.6	43	36.1	124	33.5	77	56.6	201	39.7
1. Damage the crop	7	5.9	6	4.5	4	3.4	17	4.6	4	2.9	21	4.2
2. Damage the soil	7	5.9	5	3.8	10	8.4	22	5.9	3	2.2	25	4.9
3. Nothing bad would happen	63	53.4	75	56.4	61	51.3	199	53.8	52	38.2	251	49.6
4. Other	6	5.1	1	0.8	1	0.8	8	2.2	0	0	8	1.6
Total Cases	118	100.0	133	100.1	119	100.0	370	100.0	136	99.9	506	100.0
Mean	1.983		1.842		1.773		1.865		1.221		1.692	
Standard Deviation	1.414		1.419		1.411		1.413		1.244		1.449	
Sub-set												

No Correlations.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 35 (Insecticides)

Question: Did you use insecticides this year?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	6	5.1	8	6.0	3	2.5	17	4.6	17	12.5	34	6.7
1. No	96	81.4	98	73.7	74	62.2	268	72.4	100	73.5	368	72.7
2. Yes	16	13.6	27	20.3	42	35.3	85	23.0	18	13.2	103	20.4
3. *									1	0.7	1	0.2
4.												
5.												
Total Cases	118	100.1	133	100.0	119	100.0	370	100.0	136	99.9	506	100.0
Mean	1.085		1.143		1.328		1.184		1.022		1.140	
Standard Deviation	0.425		0.495		0.523		0.492		0.537		0.509	
Sub-set												

*#3 not coded

Correlations: 9, 14, 17, 21, 22, 26, 30, 32, 33, 36, 39, 41, 45, 49, 50, 57, 58, 59, 60, 61, 62, 72, 96, 107.

CRIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 36 (Insecticides)

Question: Do you think there is danger in using insecticides?

	Q.A. (FM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	8	6.8	10	7.5	2	1.7	20	5.4	18	13.2	38	7.5
1. Yes	17	14.4	7	5.3	21	17.6	45	12.2	11	8.1	56	11.1
2. Don't kno	9	7.6	6	4.5	4	3.4	19	5.1	15	11.0	34	6.7
3. No	84	71.2	109	82.0	91	76.5	284	76.8	92	67.6	376	74.3
4. *			1	0.8							1	0.2
5. *					1	0.8	1	0.3			1	0.2
Total Cases	118	100.0	133	100.1	119	100.0	370	99.8	136	99.9	506	100.0
Mean	2.432		2.632		2.597		2.557		2.331		2.496	
Standard Deviation	0.974		0.900		0.933		0.936		1.089		0.984	
Sub-set												

*#4 & 7 not on coding sheet

Correlations: -7, -16, 32, 33, 35, 60, 65, -66, -71, 72, 76, 107, -117, -118, -119, -125.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 37 (Insecticides) — Question: What might happen?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	69	58.5	87	65.4	55	48.7	214	57.8	96	70.6	310	61.3
1. Danger to me & my family	14	11.9	6	4.5	20	16.8	40	10.8	10	7.4	50	9.9
2. Might lose the crop	1	0.8	0	0	0	0	1	0.3	0	0	1	0.2
3. Bad for the plants	0	0	1	0.8	2	1.7	3	0.8	2	1.5	5	1.0
4. Bad for the land	2	1.7	1	0.8	0	0	3	0.8	0	0	3	0.6
5. Nothing bad would happen	32	27.1	38	28.6	38	31.9	108	29.2	28	20.6	136	26.9
6. *(#7)					1	0.8	1	0.3			1	0.2
7.												
8.												
9.												
Total Cases	118	100.0	133	100.1	119	99.9	370	100.0	136	100.1	506	100.1
Mean	1.559		1.526		1.874		1.649		1.147		1.514	
Standard Deviation	2.194		2.255		2.291		2.247		2.017		2.196	
Sub-set												

*#7 not on coding sheet

No Correlations.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 38 (Ind. Var.) Question: What kind of storage facilities do you have?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CCN) Number	YUPI (CCN) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	1	0.8	0	0	2	1.7	3	0.8	0	0	3	0.6
1. Cans	2	1.7	2	1.5	0	0	4	1.1	0	0	4	0.8
2. Wooden boxes	6	5.1	5	3.8	0	0	11	3.0	7	5.1	18	3.6
3. Barrels	3	2.5	4	3.0	2	1.7	9	2.4	1	0.7	10	2.0
4. Grain storage tanks	94	79.7	114	85.7	111	93.3	319	86.2	126	92.6	445	87.9
5. Other	12	10.2	8	6.0	4	3.4	24	6.5	2	1.5	26	5.1
Total Cases	113	100.0	133	100.0	119	100.1	370	100.0	136	99.9	506	100.0
Mean	3.890		3.910		3.950		3.916		3.904		3.918	
Standard Deviation	0.782		0.609		0.565		0.655		0.469		0.610	
Sub-set												

Correlations: 21, 50, 57, 58, 104.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 39 (Change Orientation)

Question: Have you changed your planting methods in the last few years?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	1	0.8	3	2.3	0	0	4	1.1	1	0.7	5	1.0
1. No	75	63.6	90	67.7	54	45.4	219	59.2	90	66.2	309	61.1
2. Yes	42	35.6	39	29.3	64	53.8	145	39.2	45	33.1	190	37.5
3. *(#4)			1	0.08	1	0.08	2	0.5			2	0.4
4.												
5.												
Total Cases	118	100.0	133	99.38	119	99.28	370	100.0	136	100.0	506	100.0
Mean	1.347		1.293		1.563		1.397		1.324		1.377	
Standard Deviation	0.496		0.547		0.547		0.542		0.485		0.528	
Sub-set												

*#4 not on code sheet

Correlations: 9. 14, 17, 18, 21, 22, 26, 30, 31, 32, 35, 41, 45, 49, 50, 58, 60, 73, 80, 91, 96, 97, 98, 117, 120, 121, 122, 123, 124, 125, 130.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 40 (Change orientation) — Question: Who advised you to change?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	76	64.4	90	67.7	55	46.2	221	59.7	92	67.6	313	61.9
1. A friend	2	1.7	7	5.3	7	5.9	16	4.3	10	7.4	26	5.1
2. A teacher	0	0	1	0.8	0	0	1	0.3	0	0	1	0.2
3. The radio	0	0	0	0	2	1.7	2	0.5	1	0.7	3	0.6
4. An agronomist	8	6.8	6	4.5	21	17.6	35	9.5	1	0.7	36	7.1
5. I observed it in another place	19	16.1	15	11.3	24	20.2	58	15.7	25	18.4	83	16.4
6. Other	13	11.0	13	9.8	10	8.4	36	9.7	7	5.1	43	8.5
7. *			1	0.08			1	0.03			1	0.2
8.												
9.												
Total Cases	118	100.0	133	99.48	119	100.0	370	99.73	136	99.9	506	100.0
Mean	1.754		1.451		2.328		1.830		1.353		1.702	
Standard Deviation	2.463		2.334		2.394		2.416		2.216		2.371	
Sub-set												

*7 not on code sheet

No Correlation.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 41 (Change orientation)

Question: Did this advice help to increase your yields?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (COX) Number	YUPI (COX) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	79	64.4	96	72.2	57	47.9	229	61.9	84	61.8	313	61.9
1. No	3	2.5	4	3.0	3	2.5	10	2.7	9	6.6	19	3.8
2. Yes	39	33.1	33	24.8	59	49.6	131	35.4	43	31.6	174	34.4
3.												
4.												
5.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.0	136	100.0	506	100.1
Mean	0.686		0.526		1.017		0.735		0.699		0.725	
Standard Deviation	0.940		0.867		0.991		0.951		0.922		0.943	
Sub-set												

Correlations: 9, 12, 14, 17, 18, 21, 22, 23, 26, 30, 31, 32, 35, 39, 45, 49, 55, 73, 80, 85, 91, 96, 97, 98, 120, 121, 122, 123, 134, 125, 130.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 42 (Change Orientation) Question: Did you make more money with the change?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	77	65.3	98	73.7	58	48.7	233	63.0	91	66.9	324	64.0
1. No (why?)	3	2.5	1	0.8	2	1.7	6	1.6	3	2.2	9	1.8
2. Yes	38	32.2	33	24.8	59	49.6	130	35.1	42	30.9	172	34.0
3. *(#6)			1	0.8			1	0.3			1	0.2
4.												
5.												
Total Cases	118	100.0	133	100.1	119	100.0	370	100.0	136	100.0	506	100.0
Mean	0.669		0.549		1.008		0.735		0.640		0.709	
Standard Deviation	0.934		0.988		0.996		0.991		0.924		0.973	
Sub-set												

*#6 not on coding sheet

No Correlation.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 43 (Production) — Question: Sorghum?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	1	0.8	1	0.8	0	0	3	0.8	0	0	2	0.4
1. No	16	13.6	4	3.0	14	11.8	34	9.2	20	14.7	54	10.7
2. Yes	101	85.6	128	96.2	105	88.2	334	90.3	116	85.3	450	88.9
3.												
4.												
5.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.0	136	100.0	506	100.0
Mean	1.847		1.955		1.882		1.897		1.853		1.885	
Standard Deviation	0.384		0.242		0.324		0.321		0.355		0.331	
Sub-set												

Correlations: 16, 50, 127.

CRIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 44 (Production) — Question: Rice?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CCN) Number	YUPI (CCN) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	7	5.9	3	2.3	5	4.2	15	4.1	0	0	15	3.0
1. No	97	82.2	124	93.2	111	93.3	332	89.7	122	89.7	454	89.7
2. Yes	14	11.9	6	4.5	3	2.5	23	6.2	14	10.3	37	7.3
3.												
4.												
5.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.0	136	100.0	506	100.0
Mean	1.059		1.023		0.983		1.022		1.103		1.043	
Standard Deviation	0.419		0.260		0.260		0.320		0.305		0.318	
Sub-set												

Correlations: [illegible]

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 45 (Production) — Question: Tobacco?

	Q.A. (PM) Number	Q.A. (PM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (COM) Number	YUPI (COM) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	9	7.6	2	1.5	4	3.4	15	4.1	0	0	15	3.0
1. No	95	80.5	100	75.2	40	33.6	235	63.5	136	100.0	371	73.3
2. Yes	14	11.9	31	23.3	75	63.0	120	32.4	0	0	120	23.7
3.												
4.												
5.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.0	136	100.0	506	100.0
Mean	1.042		1.218		1.597		1.284		1.000		1.208	
Standard Deviation	0.441		0.450		0.557		0.534		0.000		0.473	
Sub-set												

Correlations: 9, 14, 17, 21, 29, 30, 31, 35, 39, 41, 44, 46, -47, -49, 53, 60, 61, 64, 65, -66, 76, 77, 78, 79, 80, 81, 89, 91, 96, -107, -108, 112, 119, 120, 121, 123, 124, 126, 127, 129, 130.

ORIENT I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 46 (Protection) — Question: Vegetables?

	Q.A. (PM) Number	Q.A. (PM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (M) Number	Q.C. (M) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	9	7.6	4	3.0	8	6.7	21	5.7	1	0.7	22	4.3
1. No	107	90.7	125	94.0	107	89.9	339	91.6	131	96.3	470	92.9
2. Yes	2	1.7	4	3.0	4	3.4	10	2.7	4	2.9	14	2.8
3.												
4.												
5.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.0	136	99.9	506	100.0
Mean	0.941		1.000		0.966		0.970		1.022		0.984	
Standard Deviation	0.301		0.246		0.317		0.288		0.191		0.267	
Sub-set												

Correlations: [illegible]

[illegible] I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 47 (Production) — Question: Other crops?

	Q.A. (PK) Number	Q.A. (PK) Percent	Q.B. (PKA) Number	Q.B. (PKA) Percent	Q.C. (P) Number	Q.C. (P) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	108	91.5	123	92.5	114	95.8	345	93.2	130	95.6	475	93.9
1. No	1	0.8	7	5.3	4	3.4	12	3.2	1	0.7	13	2.6
2. Yes	9	7.6	3	2.3	1	0.8	13	3.5	5	3.7	18	3.6
3.												
4.												
5.												
Total Cases	118	99.9	133	100.1	119	100.0	370	99.9	136	100.0	506	100.1
Mean	0.161		0.098		0.050		0.103		0.081		0.097	
Standard Deviation	0.539		0.366		0.255		0.404		0.386		0.399	
Sub-set												

Correlations: [illegible]

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 48 (Production)

Question: What will you (or did you) plant in the second planting?

	Q.A. (TX) Number	Q.A. (TX) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (COM) Number	YUPI (COM) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	25	21.2	35	26.3	9	7.6	69	18.6	14	10.3	83	16.4
1. Nothing	42	35.6	34	25.6	2	1.7	78	21.1	16	11.8	94	18.6
2. Sorghum	8	6.8	6	4.5	5	4.2	19	5.1	9	6.6	28	5.5
3. Beans	18	15.3	7	5.3	7	5.9	32	8.6	92	67.6	124	24.5
4. Corn	18	15.3	45	33.8	90	75.6	153	41.4	2	1.5	155	30.6
5. Beans & Corn	4	3.4	2	1.5	4	3.4	10	2.7	1	0.7	11	2.2
6. Vegetables	0	0	1	0.8	1	0.8	2	0.5	1	0.7	3	0.6
7. Other	3	2.5	3	2.3	1	0.8	7	1.9	1	0.7	8	1.6
8.												
9.												
Total Cases	118	100.1	133	100.1	119	100.0	370	99.9	136	99.9	506	100.0
Mean	1.907		2.135		3.580		2.527		2.471		2.612	
Standard Deviation	1.710		1.882		1.259		1.797		1.192		1.656	
Sub-set												

* Terminated [illegible].

GBIEWIE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 49 (Ind. Var.) Question: How did you prepare the land?

	Q.A. (PK) Number	Q.A. (PK) Percent	Q.B. (PLA) Number	Q.B. (PLA) Percent	Q.C. (P) Number	Q.C. (P) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	0	0	0	0	0	0	0	0	0	0	0	0
1. By hand	42	35.6	57	42.9	28	23.5	127	34.3	76	55.9	203	40.1
2. With oxen	72	61.0	73	54.9	88	73.9	233	63.0	60	44.1	293	57.9
3. With tractor	4	3.4	2	1.5	3	2.5	9	2.4	0	0	9	1.8
4. (#4)*			1	0.8			1	0.3			1	0.2
5.												
Total Cases	118	100.0	133	100.1	119	99.9	370	100.0	136	100.0	506	100.0
Mean	1.678		1.609		1.798		1.686		1.441		1.621	
Standard Deviation	0.537		0.663		0.467		0.530		0.498		0.532	
Sub-set												

*/= not coded

Correlations: 9, 17, 11, 31, 32, 39, 31, 39, 35, 39, 41, [illegible], 5, 57, 57, 6, 60, 62, 65, 29, 91, 96, 97, 106, -108, 112, 120

171, 137, 173, 191, 195, 199, 190.

COLUMBIA I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 50 (Ind. Var.) Question: In how many pieces is your land divided?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	0	0	0	0	0	0	0	0	0	0	0	0
1. One	30	25.4	47	35.3	24	20.2	101	27.3	44	32.4	145	28.7
2. Two	31	26.3	51	38.3	41	34.5	123	33.2	56	41.2	179	35.4
3. Three	23	19.5	21	15.8	34	28.6	78	21.1	24	17.6	102	20.2
4. Four	22	18.6	11	8.3	15	12.6	48	13.0	7	5.1	55	10.9
5. Five	12	10.2	3	2.3	5	4.2	20	5.4	5	3.7	25	4.9
Total Cases	118	100.0	133	100.0	119	100.1	370	100.0	136	100.0	506	100.1
Mean	2.619		2.038		2.462		2.359		2.066		2.281	
Standard Deviation	1.320		1.085		1.080		1.168		1.020		1.136	
Sub-set												

Correlations: [illegible]

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 51 (Ind. Var.) Question: How long does it take you to get to the piece of land furthest from the house?

	Q.A. (EU) Number	Percent	Q.B. (HUA) Number	Percent	Q.C. (P) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	4	3.4	5	3.8	4	3.4	13	3.5	3	2.2	16	3.2
1. Less than 5 minutes	13	11.0	44	33.1	15	12.6	72	19.5	17	12.5	89	17.6
2. 5-10 minutes	7	5.9	16	12.0	16	13.4	39	10.5	12	8.8	51	10.1
3. 10-15 minutes	24	20.3	25	18.8	20	16.8	69	18.6	14	10.3	83	16.4
4. 16-30 minutes	20	16.9	21	15.8	24	20.2	65	17.6	32	23.5	97	19.2
5. More than 30 minutes	48	40.7	22	16.5	40	33.6	110	29.7	57	41.9	167	33.0
6. (#6)*	2	1.7					2	0.5	1	0.7	3	0.6
7.												
8.												
9.												
Total Cases	118	99.9	133	100.0	119	100.0	370	99.9	136	99.9	506	100.1
Mean	3.653		2.594		3.387		3.186		3.691		3.322	
Standard Deviation	1.532		1.567		1.536		1.608		1.518		1.599	
Sub-set												

*# not coded

Correlations: 10, 71, 50, -5, 105, -10, -11, 07.

GRIDMTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: S2 (Ind. Var.) Question: What proportion of your land is not usable for planting?

	Q.A. (FK) Number	Percent	Q.B. (KMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	0	0	0	0	0	0	0	0	1	0.7	1	0.2
1. Don't know	3	2.5	6	4.5	2	1.7	11	3.0	0	0	11	2.2
2. Almost all	8	6.8	8	6.0	5	4.2	21	5.7	8	5.9	29	5.7
3. One-half	25	21.2	11	8.3	11	9.2	47	12.7	23	16.9	70	13.8
4. One-fourth	37	31.4	55	41.4	44	37.0	136	36.8	57	41.9	193	38.1
5. It is all good	44	37.3	53	39.8	57	47.9	154	41.6	47	34.6	201	39.7
6. (#p)*	1	0.8					1	0.3			1	0.2
7.												
8.												
9.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.1	136	100.0	506	99.9
Mean	3.992		4.060		4.252		4.100		4.029		4.081	
Standard Deviation	1.144		1.064		0.913		1.048		0.934		1.018	
Sub-set												

* In Correlations.

CRIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 53 (Ind. Ver.) Question: Are there some fields that don't product as well as others? Why?

	Q.A. (PX) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	2	1.7	4	3.0	3	2.5	9	2.4	6	4.4	15	3.0
1. All the same	18	15.3	13	9.8	15	12.6	46	12.4	16	11.8	62	12.3
2. Too wet	5	4.2	8	6.0	13	10.9	26	7.0	7	5.1	33	6.5
3. Too much slope	19	16.1	15	11.3	20	16.8	54	14.6	26	19.1	80	15.8
4. Too stoney	13	11.0	14	10.5	8	6.7	35	9.5	15	11.0	50	9.9
5. Worn out	14	11.9	27	20.3	22	18.5	63	17.0	30	22.1	93	18.4
6. Need fertilizer	20	16.9	16	12.0	9	7.6	45	12.2	9	6.6	54	10.7
7. Poor land	16	13.6	27	20.3	22	18.5	65	17.6	15	11.0	80	15.8
8. Other	11	9.3	9	6.8	7	5.9	27	7.3	12	8.8	39	7.7
9.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.0	136	99.9	506	100.1
Mean	4.466		4.677		4.261		4.476		4.213		4.405	
Standard Deviation	2.305		2.211		2.283		2.265		2.246		2.260	
Sub-set												

To Correlations.

CRIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 54 (Ind. War.) Question: What do you think you might do to improve those fields?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	7	5.9	6	4.5	11	9.2	24	6.5	14	10.3	38	7.5
1. Nothing	0	0	3	2.3	0	0	3	0.8	3	2.2	6	1.2
2. Plant differently	0	0	4	3.0	2	1.7	6	1.6	1	0.7	7	1.4
3. Use fertiliter	100	84.7	99	74.4	72	60.5	271	73.2	98	72.1	369	72.9
4. Drain them	5	4.2	4	3.0	9	7.6	18	4.9	3	2.2	21	4.2
5. Irrigate	2	1.7	1	0.8	1	0.8	4	1.1	0	0	4	0.8
6. Plant on contours	0	0	1	0.8	2	1.7	3	0.8	2	1.5	5	1.0
7. Plant at different time	0	0	0	0	3	2.5	3	0.8	1	0.7	4	0.8
8. Use tractor	3	2.5	5	3.8	8	6.7	16	4.3	4	2.9	20	4.0
9. Other	1	0.8	10	7.5	11	9.2	22	5.9	10	7.4	32	6.3
Total Cases	118	99.8	133	100.1	119	99.9	370	99.9	136	100.0	506	100.1
Mean	3.076		3.496		3.840		3.473		3.324		3.433	
Standard Deviation	1.262		2.021		2.422		1.984		2.146		2.028	
Sub-set												

No Correlations.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 55 (Change Orientation) — Question: Why haven't you done this?

	Q.A. (PM) Number	Q.A. (PM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	11	9.3	12	9.0	16	13.4	39	10.5	15	11.0	54	10.7
1. No time	5	4.2	13	9.8	10	8.4	28	7.6	14	10.3	42	8.3
2. No money	85	72.0	88	66.2	68	57.1	241	65.1	82	60.3	323	63.8
3. Don't know how	2	1.7	2	1.5	4	3.4	8	2.2	5	3.7	13	2.6
4. No materials	4	3.4	2	1.5	2	1.7	8	2.2	4	2.9	12	2.4
5. Other	11	9.3	15	11.3	19	16.0	45	12.2	16	11.8	61	12.1
6. *8			1	0.8			1	0.3			1	0.2
7.												
8.												
9.												
Total Cases	118	99.9	133	100.1	119	100.0	370	100.1	136	100.0	506	100.1
Mean	2.136		2.150		2.193		2.159		2.125		2.150	
Standard Deviation	1.183		1.346		1.463		1.333		1.325		1.329	
Sub-set												

*#8 not on coding sheet

No Correlations.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 56 (Land Ownership)

Question: Did you plant more land this year than last?

	Q.A. (PM) Number	Q.A. (PM) Percent	Q.B. (PMA) Number	Q.B. (PMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	0	0	1	0.8	1	0.8	2	0.5	1	0.7	3	0.6
1. Yes	24	20.3	11	8.3	10	8.4	45	12.2	7	5.1	52	10.3
2. Yes, some more	20	16.9	28	21.1	30	25.2	78	21.1	25	18.4	103	20.4
3. Same as last year	68	57.6	77	57.9	73	61.3	218	58.9	91	66.9	309	61.1
4. Less than last year	6	5.1	16	12.0	5	4.2	27	7.3	12	8.8	39	7.7
5. Don't know	0	0	0	0	0	0	0	0	0	0	0	0
Total Cases	118	99.9	133	100.1	119	99.9	370	100.0	136	99.9	506	100.1
Mean	2.475		2.722		2.597		2.603		2.779		2.650	
Standard Deviation	0.874		0.810		0.740		0.814		0.706		0.790	
Sub-set												

Correlation = [illegible]

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 57 (Change Orientation) — Question: How do you compare your land with that of your neighbors?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	0	0	2	1.5	0	0	2	0.5	1	0.7	3	0.6
1. Worse	20	16.9	23	17.3	14	11.8	57	15.4	16	11.8	73	14.4
2. Same	84	71.2	87	65.4	95	79.8	266	71.9	111	81.6	377	74.5
3. Better	14	11.9	21	15.8	10	8.4	45	12.2	8	5.9	53	10.5
4.												
5.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.0	136	100.0	506	100.0
Mean	1.949		1.955		1.966		1.957		1.926		1.949	
Standard Deviation	0.537		0.626		0.450		0.544		0.449		0.520	
Sub-set												

Correlations: 9, 17, 21, 22, 31, 32, 35, 36, 49, 58, 59, 62, -64, 76, 86, 89, 96, 112, 120, 122, 123.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 58 (Ind. Var.)

Question: How do you compare your yields with those of your neighbors?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	2	1.7	2	1.5	0	0	4	1.1	0	0	4	0.8
1. Worse	25	21.2	19	14.3	22	18.5	66	17.8	15	11.0	81	16.0
2. The same	66	55.9	90	67.7	82	68.9	238	64.3	109	80.1	347	68.6
3. Better	24	20.3	22	16.5	15	12.6	61	16.5	12	8.8	73	14.4
4. (#4)	1	0.8					1	0.3			1	0.2
5.												
Total Cases	118	99.9	133	100.0	119	100.0	370	100.0	136	99.9	506	100.0
Mean	1.975		1.992		1.941		1.970		1.978		1.972	
Standard Deviation	0.722		0.609		0.557		0.630		0.447		0.586	
Sub-set												

Correlations: 9, 15, 17, 18, 21, 22, 28, 30, 31, 32, 35, 38, 39, 41, 49, 57, 58, 62, 85, 88, 96, 112, 119, 120, 121, 123, 129.

ORIENTE I — BASE LINE SURVEY — SUMMARY TABLES

Variable: 59 (Ind. Var.) **Question:** How do you think your yields will be this year?

	Q.A. (RM) Number	Q.A. (RM) Percent	Q.B. (RMA) Number	Q.B. (RMA) Percent	Q.C. (R) Number	Q.C. (R) Percent	Q. A+B+C Number	Q. A+B+C Percent	YUPI (CON) Number	YUPI (CON) Percent	Q. A+B+C+Y Number	Q. A+B+C+Y Percent
0. No answer	0	0	1	0.8	0	0	1	0.3	4	2.9	5	1.0
1. Bad	0	0	2	1.5	0	0	2	0.5	8	5.9	10	2.0
2. Not Bad	45	38.1	59	44.4	44	37.0	148	40.0	60	44.1	208	41.1
3. Good	73	61.9	71	53.4	75	63.0	219	59.2	64	47.1	283	55.9
4.												
5.												
Total Cases	118	100.0	133	100.1	119	100.0	370	100.0	136	100.0	506	100.0
Mean	2.619		2.504		2.630		2.581		2.353		2.520	
Standard Deviation	0.488		0.572		0.485		0.521		0.726		0.591	
Sub-set												

Correlations: 9, 21, 22, 26, 32, 35, 45, 50, 57, 58, 62, -64, -78, -81, 86, 93, 97, 98, 107, 108, 118, 119, 120, 122, 123, 124, 130.

ORIENTE I

BASE LINE SURVEY

SUMMARY TABLES

Variable: 64 (Change Orientation)

Question: Do you think your land is producing all that it could?

	Q.A. (RM) Number	Percent	Q.B. (RMA) Number	Percent	Q.C. (R) Number	Percent	Q. A+B+C Number	Percent	YUPI (CON) Number	Percent	Q. A+B+C+Y Number	Percent
0. No answer	0	0	1	0.8	0	0	1	0.3	0	0	1	0.2
1. Yes	40	33.9	47	35.3	39	32.8	126	34.1	50	36.8	176	34.8
2. Don't know	7	5.9	16	12.0	7	5.9	30	8.1	13	9.6	43	8.5
3. No	71	60.2	69	51.9	73	61.3	213	57.6	73	53.7	286	56.5
4.												
5.												
Total Cases	118	100.0	133	100.0	119	100.0	370	100.1	136	100.1	506	100.0
Mean	2.263		2.150		2.286		2.230		2.169		2.213	
Standard Deviation	0.938		0.941		0.931		0.936		0.939		0.937	
Sub-set												

Correlations: -8, 19, 56, -57, -59, -66, 77, 89, -99.

BASE LINE AGRICULTURAL SURVEY SUMMARY TABULATION

201.	A	B	C	Y	Total
Did you clear the land?					
0. No answer	--	--	--	--	--
1. No clearing	0.9	2.4	--	1.5	1.2
2. 1/4 cleared	--	1.6	1.7	--	0.8
3. 1/3 cleared	--	--	--	0.8	0.2
4. 1/2 cleared	0.9	1.6	2.6	4.5	2.5
5. More than 1/2	--	1.6	5.2	1.5	2.0
6. All cleared	98.3	92.8	90.5	91.7	93.3
7. Other	--	--	--	--	--
TOTAL	100.1	100.0	100.0	100.0	100.0
Chi sq. 22.47 - Mean 5.8303 - Std. Dev. 0.7396			Sig.= 0.0960		
Correlated: None					

202.					
How many times do you plow your land?					
0. No answer	--	--	--	--	--
1. None	19.0	24.0	15.5	37.1	24.3
2. One time	43.1	40.8	40.5	8.3	32.5
3. Two times	30.2	32.8	32.8	38.6	33.7
4. Three times	6.9	2.4	11.2	14.4	8.8
5. Four times	--	--	--	1.5	0.4
6. Not listed	0.9	--	--	--	0.2
TOTAL	100.1	100.0	100.0	99.9	99.9
Chi sq. 68.44 - Mean 2.2904 - Std. Dev. 0.9590			Sig.= 0.0		
Correlated: 3,6,7,8,10,11,17,18,19,20,21,22,23,24,26,27,35, 37,38,40,41,-43,-44,-45,49,51,59,-62,-65,-68, -63					

203.

	A	B	C	Y	Total
Do you disinfect your land before planting?					
0. No answer	--	--	1.7	--	0.4
1. No	91.4	87.2	67.2	97.7	86.3
2. Sometimes	5.2	5.6	14.7	2.3	6.7
3. Always	2.6	4.8	12.9	--	4.9
4. Yes, it is necessary	0.9	2.4	3.4	--	1.6
TOTAL	100.1	100.0	99.9	100.0	99.9

Chi sq. 57.33 - Mean 1.2106 - Std. Dev. 0.6095 Sig.= 0.0

Correlated: 2, 6,7,8,11,18,19,20,21,22,23,28,32,39,40,41, 42,-43,-44,-45,49,51,52,54,55

204.

Which is the most important of all of your crops?					
0. No answer	--	--	--	--	--
1. None	--	--	--	--	--
2. Rice	--	--	--	--	--
3. Tobacco	--	--	0.9	--	0.2
4. Beans plus sorghum	--	0.8	--	1.5	0.6
5. Corn plus beans	5.2	4.8	1.7	15.9	7.2
6. Sorghum	--	4.0	2.6	2.3	2.2
7. Beans	13.8	16.8	10.3	5.3	11.5
8. Corn	78.4	73.6	84.5	71.2	76.7
9. Other	2.6	--	--	3 8	1.6
TOTAL	100.0	100.0	100.0	100.0	100.0

Chi. sq. 49.46 - Mean 7.6074 - Std. Dev. .9284 Sig.= 0.0001

Correlated: 5 ,-58

205.

What is the order of importance of your basic crops (corn, beans, sorghum, rice)?	A	B	C	Y	Total
0. No answer	--	--	0.9	--	0.2
1. None	--	--	0.9	--	0.2
2. Sorghum, beans, corn	--	--	0.9	0.8	0.4
3. Sorghum, corn, beans	--	4.0	1.7	1.5	1.8
4. Beans, sorghum, corn	1.7	4.0	--	1.5	1.8
5. Beans, corn, sorghum	11.2	13.6	10.3	6.1	10.2
6. Corn, sorghum, beans	18.1	24.8	16.4	11.4	17.6
7. Corn, beans, sorghum	62.9	52.8	56.0	62.1	58.5
8. Corn, beans	4.3	--	7.8	15.2	7.0
9. Other	1.7	0.8	5.2	1.5	2.2
TOTAL	99.9	100.0	100.1	100.1	99.9

Chi. sq. 59.88 - Mean 6.5583 - Std. Dev. 1.1350 Sig.= 0.0003

Correlated: 4, 22,-28,-29,-31,-42,-57

206.

What did you plant in your second planting?	A	B	C	Y	Total
0. No answer	--	--	--	--	--
1. Nothing	65.5	55.2	17.2	27.3	41.1
2. Rice	--	--	--	--	--
3. Tobacco	--	0.8	--	--	0.2
4. Beans + sorghum	--	--	--	--	--
5. Corn and beans	--	1.6	--	1.5	0.8
6. Sorghum	6.0	2.4	4.3	0.8	3.3
7. Beans	6.9	1.6	2.6	69.7	21.5
8. Corn	21.6	37.6	72.4	--	31.9
9. Other	--	0.8	3.4	0.8	1.2
TOTAL	100.0	100.0	99.9	100.1	100.0

Chi. Sq. 367.70 - Mean 4.8200 - Std. Dev. 3.2455 Sig.= 0.0

Correlated: 2, 3, 19,20,21,22,23,26,38,40,-43,-44,49,51, 53,54,55

207.

	A	B	C	Y	Total
Did you treat your seed? (Red or yellow powder)					
0. No answer	--	--	2.6	--	0.6
1. Don't know	2.6	1.6	0.9	--	1.2
2. No	82.8	87.2	79.3	94.7	86.3
3. Yes	14.7	11.2	17.2	5.3	11.9
TOTAL	100.1	100.0	100.0	100.0	100.0

Chi. Sq. 23.62 - Mean 2.0941 - Std. Dev. 0.3832 Sig.= 0.0049

Correlated: 2,3, 10,11,13,18,19,20,21,22,32,40,-43,-45,49,51, -Visits

208.

Did you hill your corn?

0. No answer	--	--	--	--	--
1. Don't know	--	--	--	--	--
2. No	0.9	7.2	2.6	39.4	13.3
3. Yes	99.1	92.8	96.6	60.6	86.5
4. Not listed			0.9		0.2
TOTAL	100.0	100.0	100.1	100.0	100.0

Chi. Sq. 112.15 - Mean 2.8691 - Std. Dev. 0.3436 Sig.= 0.0

Correlated: 2, 3,11,18,19,22,23,24,28,49,52,55

209.

How many insect pests do you know about?

0. No answer	--	--	--	--	--
1. None	2.6	--	0.9	3.8	1.8
2. One	9.5	14.4	6.9	15.2	11.7
3. Two	37.1	43.2	44.8	37.9	40.7
4. Three	29.3	24.0	30.2	31.1	28.6
5. Four	17.2	13.6	12.9	10.6	13.5
6. Five	1.7	4.0	4.3	1.5	2.9
7. Six or more	2.6	0.8	--	--	--
TOTAL	100.0	100.0	100.0	100.1	99.2

Chi. Sq. 35.02 - Mean 4.6667 - Std. Dev. 2.1732 Sig.=0.1301

Correlated: 10,12,16,20,43,53,54,55,57,58, Attitude

210.

	A	B	C	X	Total
In which of your crops do you have more insect damage?					
0. No answer	--	--	--	--	--
1. None	1.7	--	2.6	3.8	2.0
2. Don't know	--	--	0.9	--	0.2
3. Corn	50.9	60.0	42.2	64.4	54.8
4. Beans	3.4	1.6	2.6	3.8	2.9
5. Sorghum	1.7	4.8	0.9	3.0	2.7
6. Rice	--	--	--	--	--
7. Corn and beans	31.0	26.4	42.2	20.5	29.7
8. Beans and sorghum	4.3	2.4	1.7	1.5	2.5
9. Other	6.9	4.8	6.9	3.0	5.3
TOTAL	99.9	100.0	100.0	100.0	100.1

Chi. Sq. 35.02 - Mean 4.6667 - Std. Dev. 2.1732 Sig.= 0.0281

Correlated: 2,7,9,11,13,22,32,54

211.

On which crops do you use insecticides?					
0. No answer	--	--	--	--	--
1. None	75.0	69.6	60.3	84.8	72.8
2. Don't know	--	1.6	0.9	--	0.6
3. Corn	13.8	21.6	25.0	12.1	18.0
4. Beans	2.6	--	0.9	--	0.8
5. Sorghum	0.9	1.6	--	0.8	0.8
6. Rice	--	--	--	--	--
7. Corn and beans	4.3	4.8	9.5	1.5	4.9
8. Beans and sorghum	--	--	--	--	--
9. Other	3.4	0.8	3.4	0.8	2.0
TOTAL	100.0	100.0	100.0	100.0	99.9

Chi. Sq. 37.52 - Mean 1.8814 - Std. Dev. 1.7989 Sig.=0.0045

Correlated: 2,3,7,8,10,18,19,20,23,24,28,29,38,40,41,42,-45,52,55,59,-63

212.

	A	B	C	Y	Total
How many plant diseases do you know?					
0. No answer	--	--	--	--	--
1. None	56.9	80.0	84.5	81.8	76.1
2. One	34.5	14.4	11.2	13.6	18.2
3. Two	8.6	4.8	3.4	3.0	4.9
4. Three	--	--	0.9	1.5	0.6
5. Four	--	0.8	--	--	0.2
6. Five	--	--	--	--	--
7. Six or more	--	--	--	--	--
TOTAL	100.0	100.0	100.0	99.9	100.0
Chi. Sq. 40.998 - Mean 1.3067 - Std. Dev. 0.6107 Sig.=0.0					
Correlation: 9,13,14,22,30,32,43,47,48,52,54,55					

213.

	A	B	C	Y	Total
In which crops do you have plant disease problems?					
0. No answer	--	0.8	1.7	0.8	0.8
1. None	17.2	20.8	34.5	30.3	25.8
2. Don't know	19.0	21.6	16.4	31.1	22.3
3. Corn	37.1	21.6	8.6	20.5	21.9
4. Beans	4.3	7.2	3.4	8.3	5.9
5. Sorghum	--	0.8	0.9	--	0.4
6. Rice	--	--	--	--	--
7. Corn and beans	19.0	24.0	29.3	9.1	20.0
8. Beans and sorghum	2.6	1.6	1.7	--	1.4
9. Other	0.9	1.6	3.4	--	1.4
TOTAL	100.1	100.0	99.9	100.1	99.9
Chi. Sq. 67.575 - Mean 3.2638 - Std. Dev. 2.3290 Sig.= 0.0					
Correlated: 7,10,12,14,15,22,27,30,32,39,41,-46,49,54,56,-58, -Visits, Attitudes					

214.

	A	B	C	Y	Total
Did you use disease control materials on your crops?					
0. No answer	---	---	0.9	---	0.2
1. None	94.8	96.0	97.4	94.7	95.7
2. Don't know	---	---	---	---	---
3. On corn	3.4	2.4	1.7	3.0	2.7
4. On beans	---	0.8	---	0.8	0.4
5. On sorghum	---	---	---	0.8	0.2
6. On rice	---	---	---	---	---
7. On corn and beans	0.9	0.8	---	0.8	0.6
8. On beans and sorghum	---	---	---	---	---
9. Other	0.9	---	---	---	0.2
TOTAL	100.0	100.0	100.0	100.1	100.0
Chi. Sq. 12.70 - Mean 1.1247 - Std. Dev. 0.7177 Sig.= 0.8090					
Correlated: 12,13					

215.

Is weed control a problem in your crops?					
0. No answer	---	---	---	---	---
1. No	9.5	3.2	2.6	4.5	4.9
2. Always	---	---	1.7	---	0.4
3. Don't know	78.4	76.0	78.4	86.4	80.0
4. Sometimes	8.6	15.2	12.1	5.3	10.2
5. Rarely	2.6	4.8	4.3	3.0	3.7
6. No	0.9	0.8	0.9	0.8	0.8
7. Other	---	---	---	---	---
TOTAL	100.0	100.0	100.0	100.0	100.0
Chi. Sq. 22.34 - Mean 3.0982 - Std. Dev. 0.7176 Sig.= 0.0992					
Correlated: 13,16,39					

216.

	A	B	C	Y	Total
How many weeds do you know?					
0. No answer	0.9	--	--	--	0.2
1. None	11.2	4.0	3.4	3.8	5.5
2. One	14.7	13.6	12.9	11.4	13.1
3. Two	17.2	20.0	31.0	21.2	22.3
4. Three	18.1	31.2	27.6	22.0	24.7
5. Four	21.6	16.0	12.9	18.2	17.2
6. Five	9.5	12.0	7.8	12.9	10.6
7. Six or more	6.9	3.2	4.3	10.6	6.3
TOTAL	100.1	100.0	99.9	100.1	99.9
Chi. Sq. 34.45 - Mean 3.9162 - Std. Dev. 1.5626 Sig.= 0.0324					
Correlated: 9,15,-27,33,34,45,57,58,Attitude					

217.

Did you use weed killer?					
0. No answer	0.9	--	--	0.8	0.4
1. None	96.6	97.6	98.3	93.9	96.5
2. Don't know	--	--	--	--	--
3. On corn	--	1.6	0.9	0.8	0.8
4. On beans	--	--	--	--	--
5. On sorghum	--	--	--	0.8	0.2
6. On rice	--	--	0.9	2.3	0.8
7. On corn and beans	2.6	0.8	--	1.5	1.2
8. On beans and sorghum	--	--	--	--	--
9. Other	--	--	--	--	--
TOTAL	100.1	100.0	100.1	100.1	99.9
Chi. Sq. 15.53 - Mean 1.1350 - Std. Dev. 0.8360 Sig.= 0.4137					
Correlated: 2,19,33,34,35,36,37					

218.

	A	B	C	Y	Total
How much corn did you plant this year?					
0. No answer	--	--	--	--	--
1. None	--	--	--	--	--
2. Less than 1 mz.	6.0	9.6	5.2	15.9	9.4
3. 1 mz.	27.6	27.2	32.8	56.1	36.4
4. 2 mz.	34.5	39.2	31.9	19.7	31.1
5. 3 mz.	19.0	16.0	17.2	5.3	14.1
6. 4 mz.	7.8	7.2	6.9	2.3	5.9
7. 5 mz.	1.7	0.8	5.2	0.8	2.0
8. 6 mz.	0.9	--	--	--	0.2
9. 7 or more mz.	2.6	--	0.9	--	0.8
TOTAL	100.1	100.0	100.1	100.1	99.9

Chi. Sq. 69.83 - Mean 3.8180 - Std. Dev. 1.2288 Sig.= 0.0

Correlated: 2, 3,7,8,11,23,28,32,40,41,-43,-44,-45,49,50,51,59,
-61,-62,-63,-64,-67,-68

219.

	A	B	C	Y	Total
What was your corn yield?					
0. No answer	--	--	0.9	--	0.2
1. Did not plant	--	--	--	--	--
2. Less than 5 qq/mz	4.3	12.0	6.9	13.6	9.4
3. 5-9 qq/mz.	25.9	37.6	20.7	25.8	27.6
4. 10-14 qq/mz	43.1	28.8	24.1	14.4	27.2
5. 15-19 qq/mz	13.8	9.6	14.7	12.1	12.5
6. 20-24 qq/mz	6.9	5.6	14.7	21.2	12.3
7. 25-29 qq/mz	2.6	3.2	6.0	3.8	3.9
8. 30-34 qq/mz	0.9	1.6	7.8	3.0	3.3
9. 35 or more qq/mz	2.6	1.6	4.3	6.1	3.7
TOTAL	100.1	100.0	100.1	100.0	100.1

Chi. Sq. 70.86 - Mean 4.3292 - Std. Dev. 1.7297 Sig.= 0.0

Correlated: 2, 3, 6, 8,11,17,20,21,22,23,24,25,26,27,29,30,
31,32,33,34,35,36,37,38,40,41,42,-43,-44,-45,
51,52,53,54,55,59,-62

220.

	A	B	C	Y	Total
What is the best corn yield in recent years?					
0. No answer	--	0.8	--	2.3	0.8
1. Did not plant	--	--	--	--	--
2. Always the same	19.8	12.0	20.7	15.2	16.8
3. 5-9 qq/mz	7.8	16.8	6.9	7.6	9.8
4. 10-14 qq/mz	22.4	25.6	16.4	14.4	19.6
5. 15-19 qq/mz	18.1	13.6	10.3	13.6	13.9
6. 20-24 qq/mz	16.4	15.2	17.2	18.2	16.8
7. 25-29 qq/mz	5.2	6.4	10.3	7.6	7.4
8. 30-34 qq/mz	2.6	3.2	8.6	7.6	5.5
9. 35 or more qq/mz	7.8	6.4	9.5	13.6	9.4
TOTAL	100.1	100.0	99.9	100.1	100.0

Chi. Sq. 37.849 - Mean 4.9202 - Std. Dev. 2.1841 Sig.= 0.0359

Correlated: 2,3,6,7,11,19,21,22,23,24,25,26,27,29,30,31,32,35,40, 41,-43,-44,-45,49,51,52

221.

	A	B	C	Y	Total
What was the poorest corn yield in recent years?					
0. No answer	--	--	4.3	0.8	1.2
1. Did not plant	--	--	--	--	--
2. Less than 5 qq/mz	51.7	48.0	22.4	28.0	37.4
3. Always the same	15.5	9.6	18.1	12.9	13.9
4. 5-9 qq/mz	23.3	34.4	34.5	23.5	28.8
5. 10-14 qq/mz	9.5	5.6	13.8	24.2	13.5
6. 15-19 qq/mz	--	2.4	6.0	6.1	3.7
7. 20-24 qq/mz	--	--	0.9	3.0	1.0
8. 25-29 qq/mz	--	--	--	--	--
9. 30 or more qq/mz	--	--	--	1.5	0.4
TOTAL	100.0	100.0	100.0	100.0	99.9

Chi. Sq. 81.155 - Mean 3.3231 - Std. Dev. 1.3618 Sig.= 0.0

Correlated: 2,3,6,7,19,20,22,23,24,25,26,29,30,31,32,38,40, -43,-44,-45,51,-62

222.

	A	B	C	Y	Total
What is a normal corn yield?					
0. No answer	--	--	--	--	--
1. Does not plant	--	--	--	--	--
2. Always the same	4.3	4.8	6.9	5.3	5.3
3. 5-9 qq/mz	8.6	12.0	4.3	11.4	9.2
4. 10-14 qq/mz	12.1	15.2	10.3	14.4	13.1
5. 15-19 qq/mz	16.4	13.6	6.9	15.2	13.1
6. 20-24 qq/mz	19.0	17.6	16.4	17.4	17.6
7. 25-29 qq/mz	5.2	12.8	6.0	9.1	8.4
8. 30-34 qq/mz	11.2	13.6	19.0	12.1	13.9
9. 35 or more qq/mz	23.3	10.4	30.2	15.2	19.4
TOTAL	100.1	100.0	100.0	100.1	100.0

Chi. Sq. 34.507 - Mean 6.0634 - Std. Dev. 2.1743 Sig.= 0.0320

Correlated: 2,3,5,6,7,8,12,13,19,20,21,23,25,26,27,29,30,32,40, -43,-45,47,48,52,54,55,-57,-60,-Visits

223.

	A	B	C	Y	Total
How many cuerdas of beans planted this year?					
0. No answer	--	--	--	0.8	0.2
1. None	3.4	2.4	4.3	1.5	2.9
2. Less than 8 cda.	23.3	8.8	9.5	17.4	14.7
3. 8-15 cda.	37.9	26.4	34.5	36.4	33.7
4. 16-23 cda.	25.0	36.0	29.3	30.3	30.3
5. 24-31 cda.	5.2	8.8	8.6	9.1	8.0
6. 32-39 cda.	0.9	6.4	7.8	3.0	4.5
7. 40-47 cda.	2.6	0.8	1.7	--	1.2
8. 48-55 cda.	0.9	5.6	1.7	1.5	2.5
9. 56 or more cda.	0.9	4.8	2.6	--	2.0
TOTAL	100.1	100.0	100.0	100.0	100.0

Chi. Sq. 49.878 - Mean 3.6810 - Std. Dev. 1.5472 Sig.= 0.0047

Correlated: 2, 3, 6, 8,11,18,19,20,21,22,24,25,26,27,28,29,31, 32,38,40,41,42,-43,-44,-45,47,49,51,59,-60,-61,-62, -63,-67,-68

224.

	A	B	C	Y	Total
What was your bean yield?					
0. No answer	--	--	--	--	--
1. Did not plant	3.4	2.4	4.3	1.5	2.9
2. Nothing	--	--	--	--	--
3. Less than 0.5 qq/cda.	20.7	20.8	28.4	22.7	23.1
4. 0.5 - 0.9 qq/cda.	51.7	44.8	49.1	57.6	50.9
5. 1.0 - 1.4 qq/cda.	21.6	25.6	18.1	15.2	20.0
6. 1.5 - 1.9 qq/cda.	0.9	5.6	--	2.3	2.2
7. 2.0 or more qq/cda.	1.7	0.8	--	0.8	0.8
TOTAL	100.0	100.0	99.9	100.1	99.9

Chi. Sq. 21.906 - Mean 3.9530 - Std. Dev. 0.9232 Sig.= 0.1103

Correlated: 2,8,11,19,20,21,23,25,26,27,28,29,31,34,35,37,38, 40,41,42,44,49,51

225.

What was your best bean yield in recent years?					
0. No answer	--	0.8	0.9	0.8	0.6
1. Does not plant	1.7	0.8	4.3	1.5	2.0
2. Always the same	6.9	13.6	26.7	13.6	15.1
3. Less than 0.5 qq/cda.	4.3	4.0	7.8	4.5	5.1
4. 0.5 - 0.9 qq/cda.	28.4	27.2	28.4	34.1	29.7
5. 1.0 - 1.4 qq/cda.	46.6	41.6	25.9	27.3	35.2
6. 1.5 - 1.9 qq/cda.	7.8	7.2	3.4	9.1	7.0
7. 2.0 or more qq/cda.	4.3	4.8	2.6	9.1	5.3
TOTAL	100.0	100.0	100.0	100.0	100.0

Chi. Sq. 43.716 - Mean 4.2106 - Std. Dev. 1.4166 Sig.= 0.0025

Correlated: 19, 20, 21, 22, 23, 24, 26, 27, 30, 31, 32, 41, 44, 57

Attitude

226.

What was your lowest bean yield in recent years?	A	B	C	Y	Total
0. No answer	--	0.8	--	--	0.2
1. Does not plant	1.7	0.8	4.3	1.5	2.0
2. Nothing	29.3	16.0	10.3	2.3	14.1
3. Always the same	8.6	11.2	25.9	13.6	14.7
4. Less than 0.5 qq/cda.	50.0	58.4	50.9	59.1	54.8
5. 0.5 - 0.9 qq/cda.	9.5	9.6	7.8	18.2	11.5
6. 1.0 - 1.4 qq/cda	0.9	3.2	0.9	4.5	2.5
7. 1.5 - 1.9 qq/cda.	--	--	--	--	--
8. 2.0 or more qq/cda.	--	--	--	0.8	0.2
TOTAL	100.0	100.0	100.1	100.0	100.0

Chi. Sq. 71.12 - Mean 3.6728 - Std. Dev. 1.0339 Sig.= 0.0

Correlated: 2,6,19,20,21,22,23,24,25,27,30,31,32,38,41,-44,46

227.

What is a normal bean yield?					
0. No answer	--	--	--	--	--
1. Does not plant	0.9	0.8	2.6	1.5	1.4
2. Always the same	2.6	5.6	6.9	7.6	5.7
3. Less than 0.5 qq/cda.	1.7	1.6	3.4	7.6	3.7
4. 0.5 - 0.9 qq/cda.	19.8	14.4	13.8	17.4	16.4
5. 1.0 - 1.4 qq/cda.	59.5	62.4	63.8	43.2	56.9
6. 1.5 - 1.9 qq/cda.	4.3	4.0	4.3	4.5	4.3
7. 2.0 or more qq/cda.	11.2	11.2	5.2	18.2	11.7
TOTAL	100.0	100.0	100.0	100.0	100.1

Chi. Sq. 29.836 - Mean 4.8098 - Std. Dev. 1.2375 Sig.= 0.0391

Correlated: 2,13,-16,19,20,22,23,24,25,26,30,31,32,41,42,-57,-60,-Visits

228.

	A	B	C	Y	Total
How much sorghum did you plant this year?					
0. No answer	--	--	--	--	--
1. Nothing	5.2	--	12.1	14.4	8.0
2. Less than 1 mz	19.8	11.2	12.9	34.1	19.8
3. 1 mz	37.9	32.8	44.8	40.2	38.9
4. 2 mz	26.7	31.2	19.0	9.8	21.5
5. 3 mz	6.9	13.6	5.2	0.8	6.5
6. 4 mz	3.4	8.0	3.4	0.8	3.9
7. 5 mz	--	1.6	2.6	--	1.0
8. 6 mz	--	--	--	--	--
9. 7 or more mz	--	1.6	--	--	0.4
TOTAL	99.9	100.0	100.0	100.1	100.0

Chi. Sq. 96.393 - Mean 3.1697 - Std. Dev. 1.2763 Sig.= 0.0

Correlated: 3,-5,8,11,18,23,24,29,30,31,32,40,41,42,-45,49,
51,57

229.

What was your total sorghum yield?					
0. No answer	0.9	--	0.9	--	0.4
1. Did not plant	5.2	--	12.1	14.4	8.0
2. Nothing to less than 5 qq/mz	1.7	4.8	6.9	5.3	4.7
3. 5-9 qq/mz	22.4	9.6	15.5	15.9	15.7
4. 10-14 qq/mz	38.8	28.0	21.6	28.8	29.2
5. 15-19 qq/mz	20.7	28.8	16.4	20.5	21.7
6. 20-24 qq/mz	8.6	17.6	15.5	9.1	12.7
7. 25-29 qq/mz	0.9	4.8	6.0	2.3	3.5
8. 30-34 qq/mz	0.9	4.0	4.3	3.8	3.3
9. 35 or more qq/mz	--	2.4	0.9	--	0.8
TOTAL	100.1	100.0	100.1	100.1	100.0

Chi. Sq. 63.174 - Mean - 4.2393 - Std. Dev. 1.6859 Sig.= 0.0001

Correlated: -5,9,11,19,20,21,22,23,24,28,30,31,32,34,40,41,42,49

230.

	A	B	C	Y	Total
What was your best yield of sorghum in recent years?					
0. No answer	--	--	0.9	0.8	0.4
1. Does not plant	3.4	--	10.3	12.9	6.7
2. Always the same	16.4	18.4	26.7	16.7	19.4
3. 5-9 qq/mz	3.4	4.8	5.2	6.1	4.9
4. 10-14 qq/mz	21.6	16.0	12.1	15.2	16.2
5. 15-19 qq/mz	20.7	17.6	10.3	18.2	16.8
6. 20-24 qq/mz	15.5	19.2	14.7	15.2	16.2
7. 25-29 qq/mz	4.3	8.8	4.3	4.5	5.5
8. 30-34 qq/mz	8.6	8.0	6.9	6.8	7.6
9. 35 or more qq/mz	6.0	7.2	8.6	3.8	6.3
TOTAL	99.9	100.0	100.0	100.2	100.0

Chi. Sq. 41.649 - Mean 4.6196 - Std. Dev. 2.2874 Sig.= 0.0356

Correlated: 12,13,19,20,21,22,25,26,27,28,29,31,32,40,42,-Visits

231.

	A	B	C	Y	Total
What has been your lowest yield of sorghum in recent years?					
0. No answer	--	--	0.9	2.3	0.8
1. Does not plant	3.4	--	10.3	12.9	6.7
2. 0 - less than 5 qq/mz	30.2	20.8	19.8	11.4	20.2
3. Always the same	19.0	20.0	28.4	21.2	22.1
4. 5-9 qq/mz	27.6	28.0	19.0	24.2	24.7
5. 10-14 qq/mz	15.5	20.8	12.9	19.7	17.4
6. 15-19 qq/mz	4.3	8.0	7.8	5.3	6.3
7. 20-24 qq/mz	--	1.6	0.9	2.3	1.2
8. 25-29 qq/mz	--	--	--	0.8	0.2
9. 30 or more qq/mz	--	0.8	--	--	0.2
TOTAL	100.0	100.0	100.0	100.1	99.8

Chi. Sq. 54.686 - Mean 3.4949 - Std. Dev. 1.4628 Sig.= 0.0013

Correlated: -5,19,20,21,23,24,25,26,27,28,29,30,32,33,34,35,36,40,41, 42,-45

232.

	A	B	C	Y	Total
What is a normal yield of sorghum?					
0. No answer	0.9	--	--	0.8	0.4
1. Does not plant	3.4	--	9.5	11.4	6.1
2. Always the same	8.6	11.2	11.2	12.1	10.8
3. 5-9 qq/mz	8.6	6.4	0.9	5.3	5.3
4. 10-14 qq/mz	9.5	8.8	6.9	15.2	10.2
5. 15-19 qq/mz	29.3	15.2	8.6	18.2	17.8
6. 20-24 qq/mz	17.2	27.2	17.2	22.0	21.1
7. 25-29 qq/mz	4.3	10.4	15.5	3.0	8.2
8. 30-34 qq/mz	7.8	11.2	15.5	7.6	10.4
9. 35 or more qq/mz	10.3	9.6	14.7	4.5	9.6
TOTAL	99.9	100.0	100.0	100.1	99.9

Chi. Sq. 76.176 - Mean 5.2720 - Std. Dev. 2.3077 Sig.= 0.0

Correlated: 3,7,10,12,13,18,19,20,21,22,23,25,26,27,28,29,
30,31,40,41,42,-45,47,48,52,54,55,-57, -Visits

233.

	A	B	C	Y	Total
How much rice did you plant last year?					
0. No answer	0.9	--	--	0.8	0.4
1. Nothing	89.7	97.6	99.1	90.2	94.1
2. Less than 1 mz	9.5	1.6	0.9	9.1	5.3
3. 1 mz	--	0.8	--	--	0.2
4. 2 mz	--	--	--	--	--
5. 3 mz	--	--	--	--	--
6. 4 mz	--	--	--	--	--
7. 5 mz	--	--	--	--	--
8. 6 mz	--	--	--	--	--
9. 7 or more mz	--	--	--	--	--
TOTAL	100.1	100.0	100.0	100.1	100.0

Chi. Sq. 20.709 - Mean 1.0532 - Std. Dev. 0.2505 Sig.= 0.0140

Correlated: 16, 17,19,20,31,34,35,36,37,46,59,-61

234.

	A	B	C	Y	Total
What was your total rice production this year?					
0. No answer	--	--	--	--	--
1. Did not plant	90.5	97.6	99.1	90.9	94.5
2. 0 to less than 5 qq/mz	0.9	--	--	1.5	0.6
3. 5-9 qq/mz	1.7	--	--	1.5	0.8
4. 10-14 qq/mz	3.4	--	--	0.8	1.0
5. 15-19 qq/mz	0.9	0.8	--	2.3	1.0
6. 20-24 qq/mz	1.7	0.8	--	1.5	1.0
7. 25-29 qq/mz	--	0.8	--	--	0.2
8. 30-34 qq/mz	0.9	--	--	1.5	0.6
9. 35 or more qq/mz	--	--	0.9	--	0.2
TOTAL	100.0	100.0	100.0	100.0	99.9

Chi. Sq. 32.145 - Mean 1.2168 - Std. Dev. 1.0051 Sig.= 0.1234

Correlated: 16,17,19,24,29,31,33,35,36,37,57

235.

	A	B	C	Y	Total
What has been your best yield of rice in recent years?					
0. No answer	--	--	--	0.8	0.2
1. Does not plant	87.9	96.0	99.1	90.2	93.3
2. Always the same	1.7	0.8	--	2.3	1.2
3. 5-9 qq/mz	0.9	--	--	--	0.2
4. 10-14 qq/mz	1.7	--	--	0.8	0.6
5. 15-19 qq/mz	2.6	0.8	--	1.5	1.2
6. 20-24 qq/mz	2.6	0.8	--	2.3	1.4
7. 25-29 qq/mz	--	--	--	--	--
8. 30-34 qq/mz	0.9	1.6	--	1.5	1.0
9. 35 or more qq/mz	1.7	--	0.9	0.8	0.8
TOTAL	100.0	100.0	100.0	100.2	99.9

Chi. Sq. 25.134 - Mean 1.2904 - Std. Dev. 1.2551 Sig.= 0.3985

Correlated: 2,17,19,20,24,31,33,34,36,37,51

236.

	A	B	C	Y	Total
What is the lovest yield of rice you have had in recent years?					
0. No answer	--	--	--	--	--
1. Does not plant	87.9	96.0	99.1	90.9	93.5
2. 0 - less than 5 qq/mz	7.8	0.8	--	5.3	3.5
3. Always the same	1.7	0.8	--	1.5	1.0
4. 5-9 qq/mz	1.7	2.4	--	1.5	1.4
5. 10-14 qq/mz	--	--	--	0.8	0.2
6. 15-19 qq/mz	0.9	--	0.9	--	0.4
7. 20-24 qq/mz	--	--	--	--	--
8. 25-29 qq/mz	--	--	--	--	--
9. 30 or more qq/mz	--	--	--	--	--
TOTAL	100.0	100.0	100.0	100.0	100.0

Chi. Sq. 24.545 - Mean 1.1268 - Std. Dev. 0.5693 Sig.= 0.0564

Correlated: 17,19,31,33,34,35,37

237.

What is a normal rice yield for you?					
0. No answer	0.9	--	--	0.8	0.4
1. Does not plant	87.1	96.0	98.3	90.2	92.8
2. Always the same	1.7	0.8	0.9	2.3	1.4
3. 5-9 qq/mz	--	--	--	1.5	0.4
4. 10-14 qq/mz	0.9	--	--	0.8	0.4
5. 15-19 qq/mz	6.0	2.4	--	0.8	2.2
6. 20-24 qq/mz	2.6	--	--	1.5	1.0
7. 25-29 qq/mz	--	--	--	0.8	0.2
8. 30-34 qq/mz	0.9	0.8	--	1.5	0.8
9. 35 or more qq/mz	--	--	0.9	--	0.2
TOTAL	100.1	100.0	100.1	100.2	99.8

Chi. Sq. 36.208 - Mean 1.2577 - Std. Dev. 1.1084 Sig.= 0.1108

Correlated: 2,17,19,24,33,34,35,36,51

238.

	A	B	C	X	Total
Where do you store your corn until it is sold or used at home?					
0. No answer	--	--	--	--	--
1. Do not store	0.9	1.6	0.9	1.5	1.2
2. In the ear	6.9	2.4	4.3	--	3.3
3. In cans	1.7	0.8	--	--	0.6
4. In wooden boxes	4.3	2.4	0.9	1.5	2.2
5. In toneles	0.9	1.6	0.9	3.0	1.6
6. In tanks	81.9	90.4	93.1	93.2	89.8
7. Other	3.4	0.8	--	0.8	1.2
TOTAL	100.0	100.0	100.1	100.0	99.9

Chi. Sq. 27.6195 - Mean 5.7403 - Std. Dev. 0.9688 Sig.= 0.0681

Correlated: 2,6,11,19,21,24,26,41,-43,-44,-45

239.

	A	B	C	X	Total
Where do you store your beans until they are sold or used at home?					
0. No answer	--	--	--	--	--
1. Are not stored	12.9	20.0	12.9	18.2	16.2
2. In sacks	30.2	34.4	43.1	48.5	39.3
3. In wooden boxes	14.7	0.8	1.7	3.8	5.1
4. In cans	8.6	5.6	4.3	1.5	4.9
5. In toneles	6.0	9.6	6.9	4.5	6.7
6. In tanks	26.7	29.6	30.2	21.2	26.8
7. Other	0.9	--	0.9	2.3	1.0
TOTAL	100.0	100.0	100.0	100.0	100.0

Chi. Sq. 52.586 - Mean 3.3129 - Std. Dev. 1.9602 Sig.= 0.0

Correlated: 3,13,15,-48,-57

240.

	A	B	C	Y	Total
What part of your corn did you sell or will you sell this year?					
0. No answer	--	--	--	--	--
1. Did not plant	--	--	--	--	--
2. Do not know	4.3	0.8	4.3	1.5	2.7
3. None	81.0	80.8	61.2	78.8	75.7
4. The tenth part	0.9	2.4	5.2	3.0	2.9
5. One-fourth	5.2	6.4	8.6	6.1	6.5
6. One-half	8.6	7.2	15.5	9.1	10.0
7. More than one-half	--	2.4	5.2	0.8	2.0
8. All	--	--	--	0.8	0.2
TOTAL	100.0	100.0	100.0	100.1	100.0

Chi. Sq. 30.5477 - Mean 3.5256 - Std. Dev. 1.1505 Sig.= 0.0324

Correlated: 2,3,6,7,11,18,19,20,21,22,23,24,28,29,30,31,32,41, 42,-43,-44,-45,46,49,51,53,54,55,59,-61,-62,-63, -64,-65,-67,-68

241.

	A	B	C	Y	Total
How much of your bean crop did you sell or will you sell this year?					
0. No answer	--	--	--	--	--
1. Did not plant	0.9	--	3.4	0.8	1.2
2. Don't know	0.9	--	0.9	--	0.4
3. Nothing	38.8	31.2	37.1	40.9	37.0
4. One-tenth	3.4	0.8	0.9	0.8	1.4
5. One-fourth	6.9	3.2	5.2	12.1	7.0
6. One-half	17.2	12.8	13.8	13.6	14.3
7. More than one-half	26.7	29.6	25.0	13.6	23.5
8. All	5.2	22.4	13.8	18.2	15.1
TOTAL	100.0	100.0	100.1	100.0	99.9

Chi. Sq. 44.953 - Mean 5.2515 - Std. Dev. 2.0295 Sig.= 0.0018

Correlated: 2,3,11,13,18,19,20,23,24,25,26,27,28,29,31,32,38, 40,42,-43,-44,-45,49,51,52,Attitude

242.

	A	B	C	Y	Total
How much of your sorghum did you sell or will you sell this year?					
0. No answer	--	--	--	--	--
1. Did not plant	3.4	--	9.5	12.9	6.5
2. Don't know	5.2	9.6	11.2	3.0	7.2
3. Nothing	72.4	52.8	47.4	57.6	57.5
4. One-tenth	1.7	--	--	2.3	1.0
5. One-fourth	7.8	9.6	3.4	10.6	8.0
6. One-half	5.2	16.0	15.5	11.4	12.1
7. More than one-half	2.6	8.8	10.3	2.3	5.9
8. All	1.7	3.2	2.6	--	1.8
TOTAL	100.0	100.0	99.9	100.1	100.0

Chi. Sq. 65.722 - Mean 3.6585 - Std. Dev. 1.6521 Sig.= 0.0

Correlated: 3,-5,11,19,23,24,27,28,29,30,31,32,40,41,-43,-44, -45,49

243.

	A	B	C	Y	Total
Did you buy corn this year before the harvest?					
0. No answer	--	--	--	0.8	0.2
1. No	15.5	37.6	45.7	53.8	38.7
2. Yes, for seed	--	1.6	--	2.3	1.0
3. Yes, for the animals	--	--	--	--	--
4. Yes, to eat	63.8	45.6	38.8	36.4	45.8
5. Yes, for seed and for the animals	--	--	--	--	--
6. Yes, for seed, for the animals, and to eat	4.3	0.8	6.0	--	2.7
7. Yes, to eat and for the animals	7.8	3.2	3.4	1.5	3.9
8. Yes, for seed and to eat	7.8	11.2	6.0	4.5	7.4
9. Other	0.9	--	--	0.8	0.4
TOTAL	100.1	100.0	99.9	100.1	100.1

Chi. Sq. 68.999 - Mean 3.2965 - Std. Dev. 2.1916 Sig.= 0.0

Correlated: -2,-3,-6,-7,9,12,-18,-19,-20,-21,-22,-23,-38,-40, -41,-42,44,45,-46,-49,-51,-59,60,61,67,68,Visits

244.

	A	B	C	Y	Total
Did you buy beans this year before the harvest?					
0. No answer	0.9	--	--	0.8	0.4
1. No	23.3	39.2	37.9	62.1	41.3
2. Yes, for seed	1.7	4.0	4.3	5.3	3.9
3. Yes, to eat	61.2	40.8	44.0	20.5	40.9
4. Yes, for seed and to eat	12.1	16.0	13.8	11.4	13.3
5. Other	0.9	--	--	--	0.2
TOTAL	100.1	100.0	100.0	100.1	100.0

Chi. Sq. 57.403 - Mean 2.2597 - Std. Dev. 1.1506 Sig.= 0.0

Correlated: -2,-3,-6,-18,-19,-20,-21,-23,-24,-25,-26,-38,
-40,-41,43,45,-46,-49,-51,-59,60,61,62,64,65,
67,68.

245.

	A	B	C	Y	Total
Did you buy sorghum before the harvest?					
0. No answer	0.9	0.8	--	--	0.4
1. No	31.0	45.6	61.2	62.9	50.5
2. Yes, for seed	--	--	0.9	1.5	0.6
3. Yes, for the animals	2.6	3.2	4.3	0.8	2.7
4. Yes, to eat	50.9	32.8	16.4	24.2	30.9
5. Yes, for seed and for the animals	0.9	--	0.9	0.8	0.6
6. Yes, for seed, for the animals and to eat	3.4	8.8	6.9	3.0	5.5
7. Yes, to eat and for the animals	2.6	4.8	6.9	1.5	3.9
8. Yes, for seed and to eat	6.9	4.0	2.6	4.5	4.5
9. Other	0.9	--	--	0.8	0.4
TOTAL	100.1	100.0	100.1	100.0	100.0

Chi. Sq. 65.503 - Mean 2.8630 - Std. Dev. 2.1859 Sig.= 0.0001

Correlated: -2,-3,-7,-11,16,-18,-19,-20,-21,-22,-23,-28,-31,
-32,-38,-40,-41,-42,43,44,-46,-51,56,-59,60,61,
62,63,64,65,67,68

246.

	A	B	C	Y	Total
How do you find out the current price for grain?					
0. No answer	--	--	--	--	--
1. Don't find out	2.6	0.8	2.6	4.5	2.7
2. From my neighbors	18.1	51.2	46.6	23.5	34.8
3. In town	42.2	17.6	24.1	24.2	26.8
4. By radio	14.7	12.8	7.8	6.8	10.4
5. By newspaper	--	--	--	--	--
6. From my neighbors and in town	0.9	1.6	5.2	6.1	3.5
7. From my neighbors and by radio	6.0	4.8	3.4	3.0	4.3
8. From my neighbors, in town, and by radio	3.4	1.6	1.7	0.8	1.8
9. Other	12.1	9.6	8.6	31.1	15.7
TOTAL	100.0	100.0	100.0	100.0	100.0

Chi. Sq. 90.377 - Mean 4.0164 - Std. Dev. 2.5822 Sig.= 0.0

Correlated: -13,26,33,40,-43,-44,-45,47,-57,59,-60,-61,-64, -68, -Attitude

247.

Do you know what contours are?					
0. No answer	--	0.8	0.9	--	0.4
1. No	86.2	88.8	83.6	92.4	87.9
2. Yes	13.8	10.4	15.5	7.6	11.7
TOTAL	100.0	100.0	100.0	100.0	100.0

Chi. Sq. 6.6545 - Mean 1.1125 - Std. Dev. 0.3290 Sig.= 0.3540

Correlated: 12,22,23,32,46,48,49,52,53,54,55

248.

	A	B	C	Y	Total
Do you use contours in your crops?					
0. No answer	20.7	29.6	19.0	7.6	19.0
1. No	69.8	60.8	66.4	87.1	71.4
2. Yes, on very hilly land	7.8	7.2	7.8	4.5	6.7
3. Yes, on hilly land	1.7	2.4	6.0	0.8	2.7
4. Yes, on land that is gently rolling	--	--	0.9	--	0.2
5. Yes, on all of my land	--	--	--	--	--
6. Other	--	--	--	--	--
TOTAL	100.0	100.0	100.1	100.0	100.0

Chi. Sq. 35.3394 - Mean 0.9366 - Std. Dev. 0.6158 Sig.= 0.0004

Correlated: 12,22,32,-39,47,52,53,54,55

249.

	A	B	C	Y	Total
Do you have horses? How many?					
0. No answer	--	0.8	--	0.8	0.4
1. No	48.3	46.4	37.1	55.3	47.0
2. Yes, 1	32.8	37.6	36.2	37.1	36.0
3. Yes, 2	14.7	12.0	18.1	5.3	12.3
4. Yes, 3	2.6	0.8	5.2	1.5	2.5
5. Yes, 4	1.7	0.8	0.9	--	0.8
6. Yes, 5 or more	--	1.6	2.6	--	1.0
TOTAL	100.1	100.0	100.1	100.0	100.0

Chi. Sq. 29.018 - Mean 1.7587 - Std. Dev. 0.9425 Sig.= 0.0482

Correlated: 2,3,6,7,8,13,18,19,20,23,24,28,29,40,41,42,43,44,47,
51,53,57,59,-61,-62,-63,-68

250.

	A	B	C	Y	Total
Do you have mules?					
0. No answer	--	--	--	--	--
1. No	81.0	94.4	87.9	97.7	90.6
2. Yes, 1	13.8	4.8	9.5	2.3	7.4
3. Yes, 2	1.7	0.8	2.6	--	1.2
4. Yes, 3	2.6	--	--	--	0.6
5. Yes, 4	--	--	--	--	--
6. Yes, 5 or more	0.9	--	--	--	0.2
TOTAL	100.0	100.0	100.0	100.0	100.0

Chi. Sq. 31.8337 - Mean 1.1268 - Std. Dev. 0.4620 Sig.= 0.0015

Correlated: 18, 49,51,52,59,-60,-61,-62,-63,-64,-65,-66,-67,-68

251.

	A	B	C	Y	Total
Do you have oxen?					
0. No answer	0.9	--	--	--	0.2
1. No	85.3	90.4	81.9	87.1	86.3
2. Yes, 1	0.9	0.8	4.3	3.8	2.5
3. Yes, 2	11.2	8.8	13.8	7.6	10.2
4. Yes, 3	0.9	--	--	1.5	0.6
5. Yes, 4	0.9	--	--	--	0.2
6. Yes, 5 or more	--	--	--	--	--
TOTAL	100.1	100.0	100.0	100.0	100.0

Chi. Sq. 18.1877 - Mean 1.2536 - Std. Dev. 0.6783 Sig.= 0.2529

Correlated: 2, 3,6,7,18,19,20,21,23,24,28,35,37,40,41,-43,-44,-45, 49,50,59,-60,-61,-62,-63,-64,-65,-67,-68

252.

	A	B	C	Y	Total
Have any agricultural technicians (agronomists, extensionists, agents or promoters) visited you during the past year?					
0. No answer	--	--	--	--	--
1. Don't know	3.4	11.2	6.9	4.5	6.5
2. No	59.5	80.8	28.4	65.9	59.3
3. Yes, a few times	20.7	4.0	44.0	25.0	23.1
4. Yes, a number of times	10.3	4.0	19.8	4.5	9.4
5. Many times	6.0	--	0.9	--	1.6
TOTAL	99.9	100.0	100.0	99.9	99.9

Chi. Sq. 117.1344 - Mean 2.4029 - Std. Dev. 0.8118 Sig.= 0.0

Correlated: 3,8,11,12,19,20,32,41,47,48,50,53,54,55,22

253.

If they did visit, who did they work for?					
0. No answer	0.9	--	--	0.8	0.4
1. Did not visit	58.6	82.4	28.4	65.2	59.3
2. Don't know	24.1	16.0	36.2	19.7	23.7
3. Private initiative	--	--	2.6	--	0.6
4. Private banks	--	--	0.9	--	0.2
5. Bandesa	4.3	--	6.9	2.3	3.3
6. Promoter, from Ministry of Agriculture	8.6	0.8	1.7	3.8	3.7
7. Promoter, from Agricultural Extension	3.4	--	7.8	8.3	4.9
8. Pemep	--	--	5.2	--	1.2
9. Other	--	0.8	10.3	--	2.7
TOTAL	99.9	100.0	100.0	100.1	100.0

Chi. Sq. 143.3875 - Mean 2.1595 - Std. Dev. 2.1124 Sig.= 0.0

Correlated: 6,9,19,40,47,48,49,52,54,55

254.

	A	B	C	Y	Total
Did you speak personally with them?					
0. No answer	0.9	5.6	2.6	1.5	2.7
1. Did not visit	59.5	82.4	28.4	65.9	59.7
2. No	18.1	4.8	22.4	13.6	14.5
3. I only heard them in a meeting	2.6	--	14.7	2.3	4.7
4. Yes	19.0	7.2	31.9	16.7	18.4
5. Other	--	--	--	--	--
TOTAL	100.1	100.0	100.0	100.0	100.0

Chi. Sq. 104.2531 - Mean 1.7648 - Std. Dev. 1.1976 Sig.= 0.0

Correlated: 3,6,9,10,12,13,19,22,32,40,47,48,52,53,55

255.

	A	B	C	Y	Total
Did they help you and your neighbors with your agricultural problems?					
0. No answer	--	--	0.9	1.5	0.6
1. Did not visit	59.5	82.4	27.6	65.2	59.3
2. Don't know	6.9	11.2	12.1	6.8	9.2
3. No	9.5	2.4	13.8	12.9	9.6
4. Yes, a little	14.7	2.4	39.7	12.1	16.8
5. Yes, considerable	9.5	1.6	6.0	1.5	4.5
TOTAL	100.1	100.0	100.1	100.0	100.0

Chi. Sq. 114.0246 - Mean 1.9611 - Std. Dev. 1.3385 Sig.= 0.0

Correlated: 3,6,8,9,11,12,19,22,32,40,47,48,52,53,54

256.

	A	B	C	Y	Total
Do you consider the visit of an agronomist important?					
0. No answer	0.9	--	--	--	0.2
1. Don't know	2.6	--	2.6	3.8	2.2
2. No	2.6	1.6	0.9	5.3	2.7
3. Yes	94.0	98.4	96.6	90.9	94.9
TOTAL	100.1	100.0	100.1	100.0	100.0
Chi. Sq. 13.3697 - Mean 2.9223 - Std. Dev. 0.3594 Sig.= 0.1466					
Correlated: 13,45,57,58					

257.

If it's important, from what agencies?					
0. No answer	3.4	1.6	0.9	4.5	2.7
1. Don't know	46.6	39.2	49.1	37.9	42.9
2. Private initiative	--	--	--	--	--
3. Private bank	--	--	--	--	--
4. Bandesa	6.0	4.8	4.3	7.6	5.7
5. Promoter, from Ministry of Agriculture	32.8	42.4	39.7	28.0	35.6
6. Promoter, from Agricultural Extension	5.2	5.6	0.9	9.1	5.3
7. Pemep	--	--	--	--	--
8. Penny Foundation	--	0.8	3.4	--	1.0
9. Other	6.0	5.6	1.7	12.9	6.7
TOTAL	100.0	100.0	100.0	100.0	99.9
Chi. Sq. 41.6930 - Mean 3.4458 - Std. Dev. 2.5329 Sig.= .0012					
Correlated: -5,9,16,-22,25,-27,28,-32,-39,-46,49,56,58,Attitude					

258.

	A	B	C	Y	Total
At what time during the year should they visit?					
0. No answer	4.3	4.0	2.6	9.1	5.1
1. Never	1.7	--	1.7	4.5	2.0
2. Before planting	80.2	73.6	75.0	59.1	71.6
3. During the planting time	1.7	3.2	1.7	7.6	3.7
4. During the growing time	0.9	4.0	1.7	2.3	2.2
5. In the harvest time	--	--	--	0.8	0.2
6. After the harvest	--	--	--	0.8	0.2
7. Periodically, during all of the cropping process	11.2	13.6	16.4	15.9	14.3
8. Other	--	1.6	0.9	--	0.6
TOTAL	100.0	100.0	100.0	100.1	99.9

Chi. Sq. 38,2330 - Mean 2.7260 - Std. Dev. 1.9191 Sig.= 0.0328

Correlated: -4,9,-13,16,56,57,Visits

259.

	A	B	C	Y	Total
Do you work part of the year in another location outside the valley?					
0. No answer	--	--	--	--	--
1. Yes, as a laborer on a farm	33.6	38.4	39.7	32.6	36.0
2. Yes, for salary in a nonagricultural job	1.7	0.8	0.9	0.8	1.0
3. Yes, I cultivate a piece of land in another area	0.9	1.6	3.4	2.3	2.0
4. No, I stay all year here	63.8	59.2	56.0	64.4	60.9
TOTAL	100.0	100.0	100.0	100.1	99.9

Chi. Sq. 4.9807 - Mean 2.8793 - Std. Dev. 1.4314 Sig.= 0.8360

Correlated: 2,11,18,19,23,33,34,40,-43,-44,-45,46,49,50,51,-60,
-61,-62,-63,-64,-65,-66,-67,-68

260.

	A	B	C	Y	Total
If you leave, what time of the year do you go?					
0. No answer	0.9	--	--	--	0.2
1. Don!t leave	63.8	59.2	56.0	64.4	60.9
2. November	7.8	4.8	0.9	16.7	7.8
3. December	8.6	5.6	14.7	5.3	8.4
4. January	11.2	19.2	11.2	9.8	12.9
5. February	2.6	8.0	13.8	1.5	6.3
6. March	0.9	0.8	1.7	--	0.8
7. April	--	--	--	0.8	0.2
8. Other	4.3	2.4	1.7	1.5	2.5
TOTAL	100.1	100.0	100.0	100.0	100.0

Chi. Sq. 64.997 - Mean 2.1084 - Std. Dev. 1.6873 Sig.= 0.0

Correlated: -22,-23,-27,43,44,45,-46,-50,51,-59,61,62,63,64,
65,66,67,68,Visits

261.

If you leave, how much time do you spend away?.					
0. No answer	--	--	--	--	--
1. Does not leave	63.8	59.2	56.0	64.4	60.9
2. 2 weeks	0.9	2.4	0.9	2.3	1.6
3. 4 weeks	26.7	30.4	25.9	27.3	27.6
4. 6 weeks	0.9	1.6	4.3	0.8	1.8
5. 8 or more weeks	6.9	4.0	9.5	4.5	6.1
6. Other	0.9	2.4	3.4	0.8	1.8
TOTAL	100.1	100.0	100.0	100.1	99.8

Chi. Sq. 15.3910 - Mean 1.9611 - Std. Dev. 1.3446 Sig.= 0.4236

Correlated: -18,-23,-33,-40,43,44,45,-46,-49,-50,-51,-59,60,62,
63,64,65,66,67,68

262.

	A	B	C	Y	Total
Where do you go?					
0. No answer	--	0.8	--	--	0.2
1. Don't leave	63.8	58.4	55.2	64.4	60.5
2. The coast of Jutiapa	0.9	3.2	1.7	3.8	2.5
3. Neighboring farms in a different department	0.9	--	0.9	--	0.4
4. Southern coast	19.8	17.6	37.1	8.3	20.2
5. Coffee farms	4.3	--	--	3.0	1.8
6. Cotton farms	7.8	16.0	3.4	13.6	10.4
7. Other	2.6	4.0	1.7	6.8	3.9
TOTAL	100.1	100.0	100.0	99.9	99.9

Chi. Sq. 60.2569 - Mean 2.4663 - Std. Dev. 2.0060 Sig.= 0.0

Correlated: -2,-18,-19,-21,-23,-40,-44,45,-49,-50,-51,-59,60,61,63,64,65,66,67,68

263.

Who takes care of your plantings while you're away?					
0. No answer	--	--	0.9	--	0.2
1. Don't leave	63.8	59.2	56.0	64.4	60.9
2. Son	13.8	4.0	10.3	3.0	7.6
3. Another family member	13.8	21.6	20.7	21.2	19.4
4. A neighbor	1.7	--	1.7	3.8	1.8
5. No one	3.4	4.8	6.0	3.8	4.5
6. It isn't necessary	1.7	8.0	3.4	3.0	4.1
7. Other	1.7	2.4	0.9	0.8	1.4
TOTAL	99.9	100.0	99.9	100.0	99.9

Chi. Sq. 33.8907 - Mean 1.9877 - Std. Dev. 1.5190 Sig.= 0.0372

Correlated: -2,-11,-18,-23,-40,45,-49,-50,-51,-59,60,61,62,64,65,66,67,68

264.

How did you get the land in another place to cultivate?	A	B	C	Y	Total
0. No answer	--	--	0.7	--	0.2
1. Don't leave	63.8	59.2	55.2	64.4	60.7
2. I don't have land in other place	34.5	39.2	40.5	33.3	36.8
3. I work on shares	--	--	--	--	--
4. I rent it	0.9	1.6	2.6	1.5	1.6
5. I am owner and rent some	--	--	--	--	--
6. I am owner	0.9	--	0.9	0.8	0.6
7. Other	--	--	--	--	--
TOTAL	100.1	100.0	99.9	100.0	99.9

Chi. Sq. 7.6786 - Mean 1.4458 - Std. Dev. 0.6877 Sig= 0.8097

Correlated: -18,-23,-40,44,45,-46,-50,-51,-59,60,61,62,63,65,66, 67,68

265.

How much land do you cultivate in the other region?	A	B	C	Y	Total
0. No answer	--	0.8	--	0.8	0.4
1. I don't leave	63.8	58.4	56.0	63.6	60.5
2. I don't have land in another place	34.5	39.2	40.5	33.3	36.8
3. Less than 1 mz	--	0.8	1.7	0.8	0.8
4. Up to 2 mz	1.7	--	1.7	0.8	1.0
5. Up to 3 mz	--	--	--	--	--
6. Up to 4 mz	--	--	--	--	--
7. Up to 5 mz	--	--	--	--	--
8. More than 5 mz	--	--	--	--	--
9. Other	--	0.8	--	0.8	0.4
TOTAL	100.0	100.0	99.9	100.1	99.9

Chi. Sq. 10.3485 - Mean 1.4438 - Std. Dev. 0.7503 Sig.= -.7973

Correlated: -40,44,45,-50,-51,-59,60,61,62,63,64,66,67,68

266.

What crops do you have on your land in another region?	A	B	C	Y	Total
0. No answer	--	--	--	--	--
1. Don't leave	63.8	59.2	56.0	64.4	60.9
2. Don't have crops	34.5	39.2	40.5	33.3	36.8
3. Sorghum and beans	--	--	--	--	--
4. Corn and beans	--	0.0	0.9	1.5	0.6
5. Rice	--	--	--	--	--
6. Sorghum	--	0.8	--	--	0.2
7. Beans	0.9	0.8	0.9	0.8	0.8
8. Corn	0.9	--	1.7	--	0.6
9. Other	--	--	--	--	--
TOTAL	100.1	100.0	100.0	100.0	99.9

Chi. Sq. 12.4590 - Mean 1.4888 - St. Dev. 0.9123 Sig.= 0.6440

Correlated: -50,-51,-59,60,61,62,63,64,65,67,68

267.

What agricultural supplies do you buy for your crops on that land?	A	B	C	Y	Total
0. No answer	--	0.8	--	--	0.2
1. Don't leave	63.8	58.4	56.0	64.4	60.7
2. None	35.3	40.0	41.4	34.8	37.8
3. Fertilizer	0.9	--	--	0.8	0.4
4. Seeds	--	0.8	0.9	--	0.4
5. Insecticide	--	--	--	--	--
6. Fertilizer and seeds	--	--	--	--	--
7. Fertilizer and insecticide	--	--	0.9	--	0.2
8. Fertilizer, insecticides, and seeds	--	--	0.9	--	0.2
9. Other	--	--	--	--	--
TOTAL	100.0	100.0	100.1	100.0	99.9

Chi. Sq. 15.4119 - Mean 1.4233 - Std. Dev. 0.6550 Sig.= 0.6335

Correlated: -18,-23,-40,43,44,45,-50,-51,-59,60,61,62,63,64,65,66,68

268.

	A	B	C	Y	Total
What yields do you usually get on your crops in that land?					
0. No answer	--	--	--	--	--
1. Don't leave	63.8	59.2	56.0	64.4	60.9
2. For corn and sorghum	--	--	--	--	--
3. For sorghum and beans	--	--	--	--	--
4. For corn and beans	--	--	--	1.5	0.4
5. For rice	--	--	--	--	--
6. For sorghum	--	--	--	--	--
7. For beans	0.9	0.8	0.9	0.8	0.8
8. For corn	0.9	--	2.6	--	0.8
9. Other	34.5	40.0	40.5	33.3	37.0
TOTAL	100.1	100.0	100.0	100.0	99.9

Chi. Sq. 14.2629 - Mean 4.0798 - Std. Dev. 3.8687 Sig.= 0.2842

Correlated: -2,-18,-23,-40,43,44,45,-46,-49,-50,-51,-59,60,61,62, 63,64,65,66,67

269.

No question.

270.

	A	B	C	Y	Total
Number of visit.					
1. First	93.1	85.6	82.8	95.5	89.4
2. Second	2.6	4.8	3.4	0.8	2.9
3. Third	4.3	0.8	6.0	--	2.7
4. Fourth	--	4.0	6.9	3.0	3.5
5. Fifth or more	--	4.8	0.9	0.8	1.6
TOTAL	100.0	100.0	100.0	100.1	100.1

Chi. Sq. 35.3463 - Mean 1.2515 - Std. Dev. 0.8048 Sig.= 0.0004

Correlated: -7,-13,-22,-27,-30,-32,43,58,60

271.

	A	B	C	Y	Total
Attitude and cooperation of interviewee.					
1. Uncooperative	--	--	--	--	--
2. Neutral	4.3	8.0	6.0	15.9	8.8
3. Good	95.7	92.0	94.0	84.1	91.2
TOTAL	100.0	100.0	100.0	100.0	100.0

Chi. Sq. 12.4392 - Mean 2.9121 - Std. Dev. 0.2835 Sig.= 0.0060

Correlated: 9, 13, 16, 25, 41, 46, 57

272.

Duration of the interview.					
1. 0-19 minutes	33.6	40.0	47.4	12.1	32.7
2. 20-39 minutes	65.5	59.2	50.9	84.8	65.6
3. 40-59 minutes	0.9	0.8	1.7	3.0	1.6
4. 60-79 minutes	--	--	--	--	--
5. 80 or more minutes	--	--	--	--	--
TOTAL	100.0	100.0	100.0	99.9	99.9

Chi. Sq. 41.4268 - Mean 1.6892 - Std. Dev. 0.4974 Sig.= 0.0000

Correlated: 35, 36, 37, 46

273.

Name of the interviewer.					
0. Rene Peña	0.9	8.0	7.8	--	4.1
1. Jose Antonio CaCao	20.7	11.2	16.4	17.4	16.4
2. Ruben Dario Gonzalez	25.0	12.0	24.1	18.2	19.6
3. Marco Aurelio Alonso	--	--	--	--	--
4. Jorge E. Garcia López	--	--	--	--	--
5. Hugo René Gonzalez V.	14.7	20.0	16.4	6.8	14.3
6. Oscar Astolfo Mellado L.	17.2	15.2	12.1	15.9	15.1
7. Julio Cesar Monroy Ortiz	10.3	18.4	18.1	12.1	14.7
8. Mario Alfonso Rosales C.	11.2	15.2	5.2	15.2	11.9
9. Jose Luis Monterroso	--	--	--	14.4	3.9
TOTAL	100.0	100.0	100.1	100.0	100.0

Chi. Sq. 98.8720 Sig.= 0.0

274.
Sub-area.

275.

00.	Santa Gertrudis	17.2	--	--	--	4.1
01.	El Tule	28.4	--	--	--	6.7
02.	La Brea	15.5	--	--	--	3.7
03.	Los Comunes	14.7	--	--	--	3.5
04.	Salitrillo	24.1	--	--	--	5.7
05.	El Rodeo	--	--	15.5	--	3.7
06.	Potrerillos	--	--	17.2	--	4.1
07.	El Jícaro	--	--	26.7	--	6.3
08.	El Jocote	--	--	25.0	--	5.9
09.	Bordo Alto	--	--	15.5	--	3.7
10.	El Retiro	--	28.0	--	--	7.2
11.	Don Diego	--	16.0	--	--	4.1
12.	Los Quebradas	--	14.4	--	--	3.7
13.	San Dernando	--	29.6	--	--	7.6
14.	La Libertad	--	12.0	--	--	3.1
15.	Aspitia	--	--	--	15.9	4.3
16.	El Calvario	--	--	--	22.0	5.9
17.	Estanzuela	--	--	--	23.5	6.3
18.	Pueblo Viejo	--	--	--	14.4	3.9
19.	Las Brisas	--	--	--	24.2	6.5
	TOTAL	99.9	100.0	99.9	100.0	100.0
	Chi. Sq. 1466.9902		Sig.= 0.0			

276.

Area		
1.	Quesada A (RM)	N = 116
2.	Quesada B (RMA)	N = 125
3.	Quesada C (R)	N = 116
4.	Yupiltepeque (Con)	N = 132
	TOTAL	489

277/278/279.
Case Number (001-489)

280.
Card Number #3