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SOME ASPECTS OF KARITIANA FOOD ECONOMY

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1. Introduction.

The Karitiana are moving rapidly from a hunting gathering economy to a more settled agricultural way of life. One of the smaller indigenous groups in Brazil, about 65 Karitiana live in a single village 1. Their new way obtaining food means that it is not as scarce as it was, nor as time-consuming to obtain. The food quest, ever, is still a most important Karitiana activity, and more man-hours are spent on this and related activities than other. In this paper2, we shall look at aspects of Karitiana production and distribution of food, as well as the in which money is obtained and used to buy food. Since economy is based upon the household unit, we shall the division of labour within the household. The nucleus of the household unit is a man and his wife or wives. pheral elements are their unmarried children and often a widowed mother and her unmarried children.

2. Food Sources.

Most of the food consumed by the Karitiana comes from cultivation, hunting and fishing (see Figure 1). The Karitiana are in transition from methods used when most of the food was obtained from the jungle to the present, when to an ever-increasing degree it is purchased in the city.

Acervo ISA 2.1 Hunting and Fishing.

The jungle and rivers are the main source of Karitiana protein. All Karitiana men have shotguns, which they use in hunting. In fact a number of men have more than one. Shotguns are the most important single tool in the search for meat. The main difficulty with the shotgun is that new cartridges have to be obtained or old ones re-charged. On occasion, cartridges are obtained from FUNAI (Fundação Nacional do Índio) as gifts, and at other times they are purchased either from the mining camp shop or else in Porto Velho. It seems that the men prefer to purchase cheaper materials for re-filling -- powder, caps and shot -- rather than the ready made cartridges.

The men go out the year round, to the jungle in search of game, individually for the most part, or panied by a young male member of the household. the Karitiana travel, the man carries the shotqun, while the women carry the heavier loads. The man is thus ready for action at a moment's notice. The area immediately around the village appears to have been over-hunted. tapir, considered the best animal to kill because of its size, rarely seen; but there are still quantities of wild pig and smaller animals, such as paca, agouti, coati, armadillo, deer, monkey and birds.

The carcass shot in the jungle is carried in by the man; or, if the quantity is too much for one man to carry, several men go out to bring it in. Animals are also cut up by the hunter who killed the game, and the entrails are placed in a large bowl. When the meat has been cut up, if there is excess, the hunter divides the carcass, giving a



piece to other men in the village. The hunter's wife and other females of the household take the entrails, squeeze out the contents of the intestines, and distribute the viscera either among the children of the household or, if there is excess, among the other women and children in the village. The household women also cook the meat.

Dogs are used in hunting to some extent, and seem especially successful with smaller game. Apart from accompanying a hunter, frequently a trained dog will also bring in meat it has killed by itself.

The rest of the jungle protein comes from fish. Fish are caught by men, women and children. Men -- but never women -- use a large wooden fish trap. Men and boys also use fishing line and hooks, and to some extent, the bow and fishing arrow. Men, women and children all use fish poison at the times of year (low water) when this method is effective. Little children also bring in small fish caught with a simple net or sieve. All fish are then cooked by the women.

Despite the fact that all people in the community, except the smallest babies, are involved in the search for protein, this is still predominantly a male occupation (see Figure 2).

2.2 Planting and Harvesting.

Both men and women are committed to the production of cultivated vegetable foods. In the past, the Karitiana planted small fields with a small quantity of Indian corn and a few other plants such as pumpkin and cará (dioscorea). In recent years, as their contact with the non-indigenous



population has grown, so has the range of foods which they grow and the size of their fields.

Macaxeira, the most important of the ancient food crops, is still the most important crop today. The crop is planted at the start of the rainy season in September, and is ready for harvesting four or five months later; but there is no urgency to collect the edible roots, as they do not rot when left in the ground. This means the macaxeira can be harvested when family need requires. It is thus a very good staple food for the household unit.

The banana and plantain are perhaps next in importance in Karitiana food crops. Each household has its own banana plants near the house, and the men often plant more. A banana plantation, initiated by a former FUNAI agent, is still producing a large amount of fruit, and all households draw from it occasionally.

The Karitiana plant peanuts, corn and pumpkins in specially selected areas located up to 4 km from the village, chosen for their dark and rich soil. Brazilian corn and rice as well as macaxeira have been planted large quantities around the village. Most fields are cleared planted adjacent to the house of the planter, reflecting the household centered work patterns of the village. some instances, two men work together in clearing a field, the actual planting is done in clearly demarcated with a specific fallen log marking the boundary some Figure 3 indicates the present location ofthe cases. fields.

Cultivation is work which is divided between men and women of the household unit. Cutting, clearing, and burning



off the field is man's work; but both men and women cooperate in planting the main crop, macaxeira. First, man cuts up macaxeira stalks into short lengths. Then shallow holes in the ground, and the woman follows the dropping the pieces into the holes. Apart from one or weedings at a later date, the man's work is finished; it the woman who collects, cleans and cooks the The men do help, however, in bringing in poisonous manioc, a crop which has been introduced recently by the . non-indigenous population.

When making manioc flour, men and women peel and soak the roots. The men operate the gas-driven manioc grater, and they also construct and operate the manioc press used for squeezing the poison from the grated roots. Then men and women work together in stirring the flour as it dries in a pan over the fire.

For the most part, women plant corn. Peanut planting, however, is a combined activity. A man clears the ground where the seeds will be planted, his wife makes the holes, and both plant the seed. The rest of the crops are planted by the men. Division of labour is not strict. In planting, as in other food obtaining activities, there is much cooperation between the sexes.

Government agents have introduced a large number of fruit trees, including mango, guava, cashew, coconut palm, lemon, and orange. The fruit is available to all, except for trees planted close to a particular house which are thought of as private household property.

Most Karitiana food comes from the above sources (ie. hunting, fishing and harvesting), but there are also



two other secondary food resources -- collected food items (from the jungle) and livestock.

2.3 Collecting.

The most important jungle fruit tree is the Many species of palm grow in the forest, each with its own type of fruit. In some cases there is a rudimentary nut, with a thin layer of edible meat; in other cases the palm fruit has a thin edible outer layer, surrounding large stone. Certain deciduous forest trees also edible fruit, but like the palm fruit they have very edible matter, often no more than a layer of mucous-like substance surrounding the seed. Despite the fact that gle fruit does not have much edible matter, there still much collecting activity. Often a family will be the collecting unit, but groups of women and children from different households are not uncommon. Sometimes it is necessary for a tree to be cut down for the fruit to be collected. this is so, a man will go along as well.

Karitiana men also collect nuts and honey. nut trees, unlike other jungle fruit and nut trees, are considered to be the property of an individual. These are few in number, and this is most likely the reason for the personal ownership. Honey, once the only sweetness in the jungle, is still a highly prized commodity. Honey collecting is a man's activity, because it necessitates the cutting down of a tree to obtain the honey, and because of the danger involved. In one instance nest was found at the top of a large tree. The tree being' at least 1.5m in diameter, the men began cutting the



early morning and chopped until midday before the tree fell down. Fighting their way through angry bees, they were able to obtain about 2 liters of honey.

2.4 Livestock.

The Karitiana have kept chickens for many years. Recently, ducks and rabbits have been introduced, and a pigs. The men make shelters for the animals where these are needed, and the women enjoy raising the livestock. their interest and enjoyment of the animals, the Karitiana do not eat much of the livestock they produce. Eggs few, and they prefer to hatch chicks rather than the eggs. Adult chickens are thin, with little meat. although the Karitiana do spend time and energy caring for their animals and birds, they do not reap a great οf benefit.

2.5 Food sharing between households.

The household unit is the fundamental food producing group. On some occasions, however, the household has more food than it can eat, and there is a danger that food would perish before being eaten. It is at such times that food is shared with another household. This applies specifically to meat and fish, and to perishable jungle fruits when available in quantity. Even quite small animals, such as the paca and armadillo, are shared with other households at times, and large animals, like the wild pig and tapir, are always shared. No payment is received for such shared items, but the household expects to receive a reciprocal amount from other households on other occasions.



2.6 Trade, money and Brazilian food.

The Karitiana have begun to eat increasing quantities of Brazilian processed foods. These are readily available at the mining camp nearby, and also in Porto Velho. Most homes consistently have processed food items on hand. In order to obtain these food items (and other food-related manufactured items, such as shotguns and cartridges) the Karitiana must sell or exchange goods they produce. this reason, they spend considerable time producing saleable These include farinha, rubber, sorva (used in making items. chewing gum), artifacts, and jaguar skins. By these means, and in a few cases by working for the government Agency, the Karitiana are able to obtain money, a large proportion of which is spent on food.

The kinds of food Karitianas like to buy include vegetable starch and protein foods such as rice, macaroni, beans and bread. They also buy canned meats and fish, sugar, coffee, canned milk, cooking oil, margarine, dry crackers, and onions.

These items are very popular because of their varied flavours, and also because they can be stored for longer periods.

Since money is somewhat scarce in the village, there is a tendency for people (especially older people and women) to prefer to exchange items in order to obtain goods. Money is never used in the village between households to pay for items, but only to pay outsiders.

3. Agents of change in Karitiana food economy.

The Karitiana have been in contact with the sur-



rounding national society for a number of years -- probably. fifteen or twenty years, though we do not have and documentation for this. From conversations with the Indians. have gleaned the following information. There appear to have been two groups of Karitianas until fairly recent times. One of these groups lived on the banks of the Candeias, where they were employed as rubber tappers. employer supplied the Indians with consumer goods in exchange for the jungle products, and by this means they able to get shotguns and ammunition, as well as tools such as axes, machetes and hoes, clothes and Brazilian food items.

Because of occasional harrassment by another "wild" group of Indians and also because a chance contact in the forest reunited two Karitiana groups, the Indians moved to their present location. At this time, they still lived in a communal round house, each family within the round house having its own clearly demarcated area.

For some time following this move, the Karitianas seem to have lived as a partially nomadic group, having little or no contact with the surrounding society. They remember in detail the time when contact was re-established. A man named Lopes came paddling up the river when it was in flood. The Indians were able to make friendly contact with him, and informed him that they wanted a new employer and salt. Lopes gave them salt, sugar and cartridges. He then left for Porto Velho on foot, but later returned bringing machetes and axes. Lopes also taught them how to make large fields, and how to make farinha. After a short period the FUNAI sent in a representative.



Government agents who served there initiated important changes. Larger fields were cleared and planted. New crops were introduced, including rice and Brazilian corn, as well as a variety of fruit trees. New livestock was introduced including ducks, rabbits, and more dogs. Perhaps most important, the road was opened up from the village to the mining camp in September 1972.

Since that time, despite the poor condition of parts of the road, there has been a constant flow of traffic goods in and out of the village. At the present time, the people in the village (except the newest born have been to Porto Velho at least once, and many of the men have made frequent trips there. From the mining camp (a 4 hour walk away), a ride can easily be obtained on vehicles which go to town regularly. Sometimes they can qo right from the village if a car is going out. It is in the and to a lesser extent from the mining camp shop, that the Karitiana are buying Brazilian foods, and ammunition. Cutting and digging tools such as axes, machetes and hoes are obtained free of charge from the FUNAI agent, who has also supplied seed for planting.

4. Summary.

The Karitiana are thus seen to be moving at a steady rate from their ancient jungle oriented way of life to a more city orientated state. It might be expected that they have experienced severe trauma in this process of change, but in fact they have not shown such tensions. They still retain their own language, but many of the other ancient customs have become submerged, or forgotten. It appears



that the retention of their language, together with the relative isolation of the village, is an important factor in their continuing social cohesion.

Notes

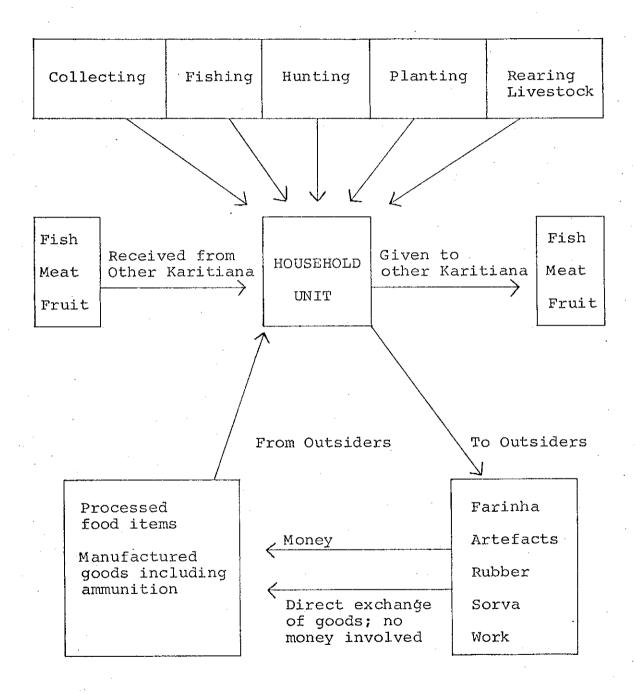
1. The Karitiana village is situated 20km from a mining camp, and 100km SW of the city of Porto Velho. It is possible to drive right from the village through the mining camp to Porto Velho along 50 km of partially maintained jungle road, and 50 km of territorial highway.

The village is surrounded by virgin jungle. A small river runs through the village and a number of smaller streams, some of which dry up June through August, are also found in the vicinity. Flora and fauna are typical of the Amazon basin. The soil is red, and poor for growing crops; and it has a thin layer of leaf mould which is often destroyed when fields are being burnt off.

2. The data for this paper were gathered over a two year period as part of a long range project of the Summer Institute of Linguistics, through contracts held with the Ministry of the Interior, the National Indian Foundation (FUNAI), and the National Museum, Rio de Janeiro. The present paper was written at a field workshop held by the Summer Institute of Linguistics in 1974 at Porto Velho, Brazil, under the direction of William R. Merrifield.



Figure 1. FOOD SOURCES AND PATTERNS OF DISTRIBUTION



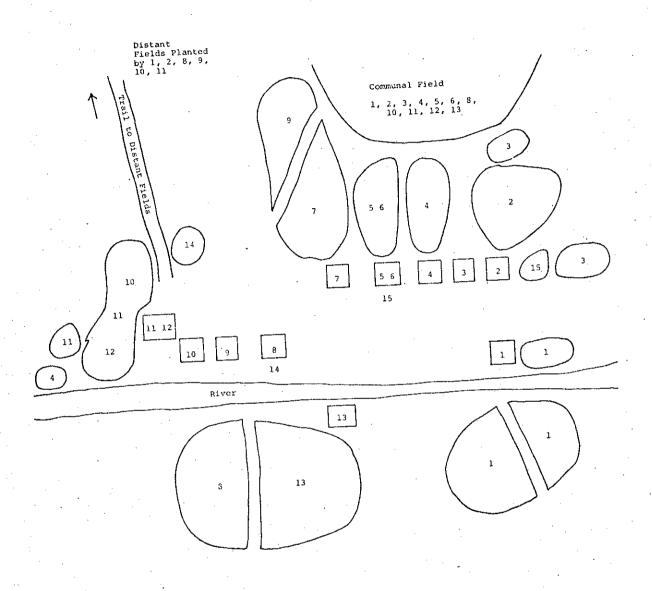


	Collecting	Fishing	Hunting	Planting	Rearing Livestock	Indirect means of Obtaining Food (By Pro- duction of Saleable Items)
đ	Collecting Honey	Fish Trap Construction & Use Fishing Bow & Arrow Fishing Hook & Line	Shooting Game Dogs Cutting up Meat Distributing Excess	Cutting & Clearing Field Burning Field Cutting Macaxeira Stalks Digging Holes Weeding Soaking Manioc Construction & Operation of Manioc Press	Construction of Pens & Shelters	Collecting & Processing Sorva Collecting & Processing Rubber Providing Teeth & Armadillo Shell (for Recklaces) Cleaning & Drying Hides Work for FUNAI Making Bows & Arrows
Q % C	Collecting Brazil Nuts	Fishing with Poison Sieve Fishing		Planting Peanuts Collecting Peanuts Collecting Manioc Peeling & Grinding Manioc Drying Manioc Flour		Making Farinha Drilling, Rolling & Threading Muts, Seeds, Teeth & Shell for Necklaces
Ç	Collecting Fruit & Coconuts Cooking Fruit	Cooking Fish	Cleaning Viscera Distributing Excess Viscera Cooking Meat	Planting Manioc & Macaxeira Planting Corn Digging Holes for Peanuts Collecting Macaxeira Collecting Corn Cooking & Preparing Vegetables	Caring & Providing Food for Hens, Ducks & Rabbits	Collecting Seeds & Nuts for Mecklaces Making Cotton Thread for Necklaces

Figure 2. DISTRIBUTION OF LABOUR WITHIN THE KARITIANA HOUSEHOLD UNIT



Figure 3. HOUSEHOLDS AND HOUSEHOLD FIELDS



 $\underline{\text{KEY}}$ = house = field 1 = number of household

Bibliography.

- Beattie, J., 1964. Other Cultures. London: Cohen & West LeClair, E. E. Jr., 1968. Economic Anthropology. New York:

 Holt, Rinehart, Winston.
- Melatti, J. C., 1972. <u>Índios do Brasil</u> 2a edição. Brasília: Editora de Brasília Ltda.
- Wagley, C. and Galvão E., 1949. The Tenetehara Indians of Brazil. New York: Columbia University Press.