

THE BORUCA OF COSTA RICA



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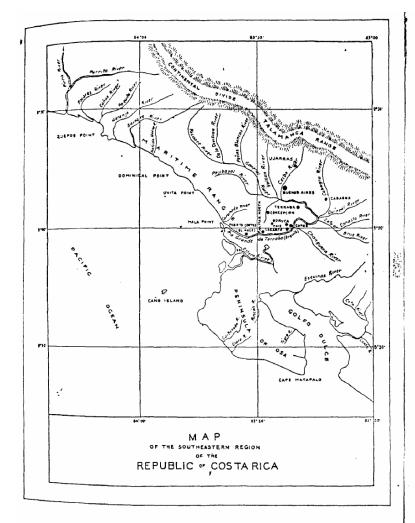


Fig. t. Map of the southeastern region of the Republic of Costa Rica.

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THE BORUCA OF COSTA RICA

BY

DORIS Z. STONE

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FOREWORD

THE following paper on the present-day Bortica Indians of southeastern Costa Rica is not a complete ethnological study. In fact, it might well be termed an "introductory paper" on these people. It is the result of four short visits into Boruca territory. The first trip was made with the idea of becoming acquainted with these people, and the remaining three visits were made to study the conditions under which the greater portion of autochthonous Costa Ricans exist today. The purpose in mind was to understand the new problems created by the first steps in constructing the Pan-American Highway. The line of the proposed highway goes between Térraba and Cabécar Indian country, and indirectly affects the Bribri and the Boruca. With its start, came the flood of opportunists to claim lands that are actually occupied by indigenous groups, many of whom do not even speak the national tongue, Spanish.

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As a result of these field trips, the Costa Rican Government set up, on December 6, 1945, a Junta or Committee to form a long-term educational program and to demarcate various aboriginal zones to be used as reservations.

Little or nothing has been written about the Boruca, who are by far the most Europeanized of the southern Costa Rican tribes, and who, because of this, are fast losing their aboriginal characteristics. The report which follows is a series of facts concerning the life of the actual Boruca Indians; facts which, in a few years, may be obsolete or unknown. For this reason, they are offered here as part of the record of our knowledge of man's cultural changes, and, as stated before, do not pretend to represent a thorough ethnological study.

Doris Stone San José, Costa Rica, 1946

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THE BORUCA OF COSTA RICA

THE country of the Boruca lies in the southeastern section of Costa Rica (see fig. 1, frontispiece) starting from the upper end of the flood plain of the Río Grande de Terraba, or, as we prefer to call it in the present paper, the Diquis River. Diquis is the older appellation, and is the name most frequently used in Costa Rican geographies, being an Hispanic form of the Boruca words dik, meaning "water" and krit or krita, meaning "large." It is from this also that the term Rio Grande or "Large River" has evolved. The name Térraba is more recent, and is due to the onetime important community of Térraba Indians who were moved to the upper reaches of the Diquis River from the Talamanca region around 1700 by Fray Pablo de Rebullida.1 .

The land of the Boruca follows the river northward on both sides to a short distance above Curré. This territory includes the section of the Changuena River on the east, and most of the Cordillera Bruqueña, which is the Maritime Range, on the west and east. Within this limited area, the Boruca have five settlements. The largest of these is Boruca with forty-seven houses, and three hundred and thirty-four inhabitants, the majority of whom can be classed as Indian without lading or white

mixture. The next largest community is Palmar Norte, on the western bank of the Diquis River, at the start of the flood plain. This has a population of one hundred and seventeen Indians, but unfortunately, many ladinos are seeping in due to its proximity to the farms of the United Fruit Company and the Costa Rican town of Puerto Cortés (formerly "El Pozo"). There is one other large village of Indians, Curré, on the western bank of the Río Grande. This is the northernmost settlement of the Boruca, and has one hundred and three inhabitants, and fourteen houses. The other sites might well be called by the Spanish term aldeas or hamlets. Lagarto, also on the western bank of the river, has fifteen Indians and three houses. The rest of the tribe is scattered in locations which should be classed as ladino towns, such as Maiz, which was once all Indian, but now has only twentysix Indians, Puerto Cortés which has fourteen, and Buengs Aires which has seven, some of whom are not pure. According to the census taken by the school teachers in Boruca, there are about twenty-five Indians who live isolated in the forest, many on the banks of the Changuena River, making a total of six hundred and forty-one Boruca Indians in 1945.

EARLY HISTORY

What was included in the original territory of the Boruca, we cannot say. The term, which we find spelled Burucac, appears to have been first used by Juan Vázquez de Coronado in a letter to the king, written in 1563.2 He unfortunately does not delimit their location. It is obvious, however, that they formed a single unit or tribe. Throughout the early literature, allusion is made to the Borucas as indios infieles y de guerra,3 who apparently fought with many of their neighbors as well as the Spaniards. Later during the Conquest, the term was applied to

a province on the Pacific coast which apparently extended from the territory of the Quepos Indians to the River Chiriqui Viejo in Panama.4 Around the year 1608, or a little earlier, Fray Alonso de la Calle went alone to the palenques or fortified houses of the Boruca, and succeeded in converting and pacifying them. Fray Alonso appears to have gathered some of these Indians and formed a town.5 Certain it is that by 1649, there was a town known as Boruca,6 and by 1666, the term Boruca had ceased to be associated only with the people of that name, but included

¹Fernández, 1907, tom. IX, p. 502; tom. III, p. 327, footnote 8. Peralta, 1938, p. 425 gives the date 1697 for the transferal of these people.

Vázquez de Coronado, 1908. p. 37.

See Fernández, 1907, vol. VIII, pp. 99, 462.

^{*}See Peralta, 1900, pp. 82, 218; Fernández, 1886,

vol. V, p. 418.
Fernández, 1907, vol. VIII, p. 99.
Fernández, 1907, vol. IX, p. 364.

near the savanna known as "Mano de Tigre" today. Here, various tribes, including the Coto were moved into the vicinity by the Spanish priests,8 until in 1749, even the. Quepos Indians were brought into the area was founded to the north of the present site. and formed part of the community.9

PRESENT GROUPS

As we know them, the Boruca are a composite group, apparently inhabiting only a small section of their former domain. The peoples who are now represented by the

which is not the same town we know today,

Boruca were at one time neighbors and, to some extent at least, enemies. The Boruca today include the Coto, Turrucaca, Burucac, Quepos, and the Abubaes.10

LANGUAGE

There are, unfortunately, no vocabularies of the original Boruca tongue. The present language is a mixture of the speech of the various peoples who form the modern Boruca Indians. The majority of linguists associate Boruca, even in the heterogeneous, state in which it appears today, with the Chibchan dialects.11 Lehmann divides the Chibcha into an eastern and a western branch, beginning the latter with the Cueva-Cuna with whose speech he also sees a resemblance to the

In connection with the name, Boruca, the Indians today do not use this term, but call themselves Brunka. Brunka is composed of two words, brun, meaning "ashes," and ka or k.a, meaning "within." Their town, however, they call Boruca. Brunka is singularly absent in the older documents of the Conquest and colonization, apparently coming into use around the nineteenth century.

NEIGHBORS

The present neighbors of the Boruca are largely Talamancan tribes, the Térraba in the immediate north, and the Ujarrás (Cabécar) and the Salitre (Bribri) still farther northward. A few Changuena are rumored to exist along the upper reaches of the Changuena River where they probably settled in the seventeenth century. 13 Some Boruca say that these Changuenas are "enchanted," and cannot be seen; others that they have seen them. All of the Talamancan peoples were brought into this area from the Atlantic area in the early part of the eighteenth century by Fray Pablo de Rebullida, as stated above. Here they have remained, isolated from their original territory, each group distrustful of the other. The Boruca distrust in particular their neighbors the Térraba. They get along best of all, but not very well, with the Ujarrás. Even within the Boruca community this isolation is evident. The women seldom visit each others' houses. As much as a year may pass without one going to the house of a neighbor, but, when they do, they are very garrulous, and enjoy gossiping and laughing, seated on their little four-footed benches.

ACCULTURATION

Since the appointment of a Spanish Magistrate, a corregidor, for Boruca toward the second half of the eighteenth century.14 the

Fernández, 1907, vol. VIII, pp. 421-15. For the

ternandez, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1 these people with the exception of the Abubaes, asse forming the modern Boruca. The Abubaes, however,

Bruncas, Brunkas, or Borucas began to lose their own culture and personality. The slow acculturation of these people by the Costa

also should be considered as part of this group. See Fernández, 1907, vol. VIII, pp. 421, 424.

"See Mason, 1940, pp. 86-87, and the linguistic

map of Johnson, 1940.

"Lehmann, 1910, vol. II, p. 71.

"See Fernández, 1907, vol. VIII, p. 414.

"Fernández, 1907, vol. IX, p. 363.

VILLAGES, SUBSISTENCE ACTIVITIES

Ricans has unfortunately gained in degree since the advent of the vanguard of roadbuilders for the Pan-American Highway. To date, they have, however, managed to keep relatively free from inter-mixture either by marriage or by cohabitation with non-Indian peoples (see p. 26), and are, curiously enough, practically the only group in modern Costa Rica who have retained their indigenous dress, even though many of their customs have unfortunately disappeared.

VILLAGES

The village of Boruca is situated in a low depression on undulating hills, about 6 miles inland from the River Diquis (see fig. 3, a and b) and at an altitude of approximately 466 meters. As a rule, the day-time temperature is between 75 or 78 degrees F. The nights are fairly cool, and during the dry season, fog or a very heavy mist is common in the early morning often lasting as late as eight or nine o'clock. These hillocks have been cleared of forest, and are quite bare save for a few scattered shade or fruit trees. There are no streets, but several narrow foot and animal paths extend through the town. The Indians are accustomed to pick their way over the grass to the houses which are scattered over and in between the hillocks, forming a picturesque panorama which can be best seen from the summit of the two tall hills which flank the village on the northern and southeastern sides, respectively. Eastward, a trail leads down to a mountain spur which extends in a northeastern direction toward Curré, some 6 miles distant. Formerly, Boruca had a cabildo, or town hall. Today, this has disappeared, and the wooden schoolhouse and church with its haphazard wire fence are the only semblances of ladino architecture. Although most of the houses have no fences, a very few have wooden ones, hemming in a garden with colored crotons, flowers, or some fruit trees. The school is starting a manzana of vegetables and fruit trees on the outskirts of the town. A small creek, with tree- or bush-lined sides, known by the Spanish name of La Quebrada or the Boruca name of Tupsi, flows through the community, supplying

water for washing purposes. The drinking water is derived from springs which are located in the northern section of the town.

Curré and Lagarto are river hamlets, lying in the very narrow plain cut by the Diquis River in its upper course. They are low, unhealthy locations, the houses situated in dense forest and thickets. As a consequence, they are not open and fresh as Boruca, but closedin, and, for many months of the year, mosquito ridden. These villages have even less the aspect of a formal town than Boruca. Narrow, almost imperceptible foot paths lead from one of the widely scattered and nearly hidden houses to the other. There are no churches or schools, and perhaps there is one fence in both communities. Water is obtained from shallow wells on the river bank, from small creeks, or from the river itself.

Palmar Norte is on a flat right on the river bank. The forest comes to the outskirts of the town, but unlike the other river villages, the community itself is open and free of the bush. Palmar Norte is obviously under ladino influence. Here, there is a definite attempt to lav out a "town" in the Spanish-American sense, with a plaza or square, a church, school, several saloons and stores, the houses all with fences, and broad, wide, grass-covered streets connecting blocks or squares. It keeps its indigenous characteristics in the still ample space or gardens around the houses, and, of course, their construction which, for the most part, is like that of Lagarto and Curré. Malaria is prevalent among the Boruca, who are, otherwise, an exceptionally healthy people.

SUBSISTENCE ACTIVITIES

Farming. The farms of the Boruca contain from three to five manzanas, a manzana usually comprising about ten thousand

A vara equals 33 inches.

square varas.15 The farms are away from the village, and are generally fenced in. The fence is nearly always made with living posts,

Besides these ordinary foodstuffs, there is generally one or more of the following items: coffee (Coffea spp.), oranges (Citrus sinensis [L.] Osbeck), mangoes (Mangifera indica L.), pejibaye (Guilielma utilis Oerst.), both with and without thorns, papayas (Carica Papaya L.), alligator pears (Persea americana Mill.), pineapples (Ananas comosus [L.] Merr.), vucca (Yucca elephantipes Regel), tiquisque (Nanthosoma violaceum Schott), tree cotton (generally, Gossypium peruvianum Cav.), colored cotton (see p. 16), and at times, cashews (Anacardium occidentale L.).

The rice planted is the upland variety, and is sown after the ground has been subjected to the usual slash and burn method common to all Boruca cultivation. There are some twelve different varieties of corn, including a specimen with apparent jet black 18 kernels and a deep purple cob.19 This is used as a rule, only for making chicha. Deep yellow, white, white and vellow, white-vellow-red, red, red-orange, and purple corn are also grown. The purple, like the black, is used generally for chicha. All the corn grown by the Boruca can be classified as Zea Mays L. and is divisible into types. The most common kind is known as "Tropical

"Cochlosperman vitifolium (Willd.) Spreng. according to Standley, 1937, p. 713; and Cochlospermum hibitooides, according to Pittier, 1941, p. 68. Also see Pittier, 1008, p. 120.

"See Pittier, 1941, p. 45.
"There is no true black corn. Purple always ap-

pears mixed with black.

In Guaternala, especially in the west, black corn is used to eat, that is, to make tortillas, or in any other flint-corn," and the other as "dent corn." The various colors are secondary characteristics, and cannot be classified as distinct specimens.20 The bean preferred is a variety (Phaseolus vulgaris L.) found, in Costa Rica, only among the Boruca.21 It is a pole bean, and is red with large white spots.

The Indians visit their farms daily, leaving ? the village early each morning and returning about four or five in the afternoon. They take with them a lunch usually consisting of one or two items including either a tamale called tsari-ko, which is made of dried green plantains, or chicha made from corn. The primary clearing of the forest to make the field is done by both men and women. The felled trees are burned in the dry season, and from then on, only the women, often assisted by the children, do the work.

In the village, and often on the savannas, guavas (guayabos) (Psidium Guajava L.), Inga (guavas) (Inga spectabilis [Vahl] Willd.), Spanish plums, jocotes (Spondias purpurea L.), and nances (Byrsonima crassifolia [L.] DC.) are found. These trees, although apparently not cultivated today, may well have been so in ancient times.

Gathering and Cultivating Methods. The agricultural implements of the presentdav Boruca are almost completely borrowed from the ladino. The common tools are broad machetes and macanas, which have possibly evolved from a digging stick, and are made with a wooden shaft or handle and a small iron flat-edged blade at one end. This is used for digging holes or even cutting roots in the ifield. Spades and an instrument called a cuchillo, which is a long knife or machete, are also common.

The women open holes for sowing, using a long pole with a point at one end. The seeds are carried in a gourd (see p. 19) in one hand, and sown with the other. Ordinarily

form, as well as to make chicha. It is particularly prized, along with other colored ears, as ritual offerings to the saints or to ancient gods.

The writer thanks don Jorge Leon of the Insti-tute of Inter-American Affairs, Food Production Division, San José de Costa Rica, for the above infor-

* The Boruca bean is also known in Guatemala, particularly in the west, where it is called pinto.

the crop is gathered only by the women and children, but rice is gathered also by the men. For this purpose, an implement made of cow horn and metal with a fiber string is used. The horn portion serves as a handle, fitting into the palm of the hand while the metal part is sharpened as a knife, and protrudes between the index and the third finger. The string goes over the thumb to help steady the whole. This implement (see fig. 3, c) may have been borrowed from the Chiriquians (i.e., the people from Chiriqui, Panama, who formerly had homesteaded much of this area), and who use a similar tool, or it may be a local Boruca inspiration. The cutters are frequently decorated with lineal designs and initials (see fig. 3, c). The cutting of the rice is done with the right hand, the left being used to hold the plant. As with all other products, however, only the women and children bring the rice in from the fields, piling it in large baskets called habas in Spanish (see p. 15).

Sugar, its Manufacture. Sugar is extracted from sugar cane in a very primitive fashion (see fig. 3, d). A tree with a knot is picked, and the knot hollowed out. About a foot or so distant, a forked portion of tree is placed erect, and one end of a hewn thick plank, slightly indented in the center, is rested in the fork with the other end against the live tree. A long pole is inserted in the knot hole, and a banana leaf is placed between the plank and the fork. Cane is put between the pole and the plank. One person holds and pushes one end of the cane and another pulls and receives it, while a third pumps the pole up and down. The cane is twisted to extract more juice as it is pulled through the presser. The juice runs down the plank, the leaf serving as a canal to guide the liquid into a vessel placed on the ground. When the pressing is over, the juice is boiled until an unrefined sugar remains.

Domestic Animals. As a rule, a family possesses a few chickens, some pigs, and an ox. The only one of these creatures which are given any semblance of shelter are the chickens, which, at night, are put in small houses (see figs. 4, a, b, c – see p. 23). In some households, there are dogs, which are used for hunting, and occasionally cats and birds. The birds are generally kept as pets, although at times they are raised for food. Bees are also domesticated occasionally (see fig. 4, d).

Wild Foods. The Boruca are very fond of flowers from certain bushes and trees. Among these can be listed the white blossom of the wild majagua (Hampes sp., and other spp.), the red blossom of the poró tree (probably Erythrina costaricensis Micheli), the green inflorescence of the disciplina, a variety of palm called fit in Boruca which is probably a dwarf Chamaedorea; the inflorescence of the pacaya palm (Chamaedorea sp.) and the inflorescence of a palm called sem-kra' (Carludovica palmata R. & P.) the leaves of which are used to make hats (see p. 18). In addition to these items, the heart of the corozo palm (Corozo oleifera [HKB] L. H. Bailey), the royal palm palma real (Scheelea rostrata [Oerst.] Burret), and the heart or inflorescences of various palmitos including the black chonta or stilt palm (Socratea durissima Wendl.), certain small mushrooms called askwa, which grow on fallen trees, and appear between the rows of corn after the first rains, the fruit of the ojoche (Brosimum terrabanum Pittier), and various berries are frequently used for food.

Food Animals - Hunting. These Indians are very fond of meat, and wild game is always welcome. The birds most widely hunted are the crested guan (Penelope purpurascens Wagl.) the paweel or curassow (Crax rubra Linn.), the chestnut-headed tinamou (Tinamus major Gmel.), and pigeons (Columba sp.). Toucans (Ramphastos swainsonii Gould) are also favorite food birds.

Animal diet consists of game, including wild pigs (Pecari angulatus Cope) and another species (Tayassu pecari Fischer), the guatusa (Dasyprocta sp.), deer (both Mazama sartorii Saussure and Odocoilus Boddaert), tepezcuintle, a member of the badger family (Coelogenys paca), the red monkey (Ateles geoffroyi Kuhl), and the white-faced monkey (Cebus capucinus Linn.). The river is full of fish, the chief sorts being a form of perch (Cichlasoma altifrons Kner. & Steind.), a fresh-water mullet (Agonostomus monticola C. V.), croakers and snook (Centropomus pectinatus Poey), as well as large cravfish and a smaller specie which is caught only in the summertime, and river crabs (Pseudotelphusa magna). From the sea, various fish and shell

fish are eaten when the Indians go to the Pacific coast for salt. A large and small clam which come from the coast are also favorite foods

The Boruca prefer to hunt in groups of two or three and without dogs. Their favorite time for hunting is when the moon is new, and, strangely enough, on Tuesday and Thursday, Night hunting is almost never practised, as this is the time when the poisonous snakes roam, the most dreaded of which is the bushmaster (Lachaesis muta). Traps are used for birds, and are generally placed in the rice fields or in the corn fields. The traps are made by the men with cane (Gynerium sagittatton [Aubl.] Beauv.) and are box-shaped, but without a bottom. They are placed in the fields with food inside and sustained at one end by a small stick which is broken in two, but is balanced one end on top of the other. A string is fastened to one portion of the broken stick, and is left on the ground next to the food. The bird enters the trap, and walking, moves the string, which in turn pulls aside the piece of stick, and the box drops, imprisoning the bird. Sling shots are used by the boys to shoot birds. The bow and arrow for hunting have entirely disappeared, their place being taken by the shot gun and rifle.

Fishing. The Boruca have five ways of catching fish. One manner is with a vine (Seriania cornigera Turez.). They also mash the bark of the espavel (Anarcardium excelsum [Bert. & Balb.] Skeels) and sometimes the bark of the sandbox tree, javillo (Hura polyandra Baill.). This last is less effective. To fish with vines or barks, a portion of the river is hemmed in by the men who construct a wall of stone at the upper and the lower end. They then mash the material chosen and throw it in the dammed section. The fish come to the surface stupefied, and are gathered by the men. The Bornea prefer to fish, however, with spears. These are of two sorts: long white canes between 57 and 58 inches long with an extended tip of pejibaye palm about 18 inches in length with several barbs at the end, and a shorter cane about 40 inches long, also with a pejibave end, but without barbs and with a steel needle-like protrusion fastened to the pejibave section. The short spear is used in the local creek for small fish, while the longer one is

used in the river for larger fish. The pejibaye part is fitted into the cane and tied with string. The string used for fishing is always made of pita (Aechmea magdalenae André) (see p. 15). Occasionally a bow is used to shoot the fish. The only difference between the arrow and the spear, is that the arrow has a trifle shorter shaft.

Crayfish and river crabs are caught by hand, chiefly by the young boys who remove the stones in the stream and catch the shell fish from under them. It is nothing unusual that a hundred or more are caught at one time, the result being enjoyed by practically the whole tribe.

Food Preparation. The food of the Boruca is cooked in earthenware vessels, and, if the means of the family permit, in iron pots. These are placed on top of the three hearth stones, which are on the earthen floor, or on the fogón, or stove (see p. 12). For grinding grain, metates or grinding stones, called tumbas in Costa Rica, are used. These are natural boulders worn smooth on top. The grinding is done with a smaller flat stone with wide rounded edges. This stone is held up-right on the edges and is rolled from side to side, and not pushed backward and forward as in the greater part of Central America (see fig. 5, a). The small metates found in ancient graves are never used for corn, but frequently for grinding cacao, often with a pestle-like stone as the grinder.

When food is not taken by hand from the vessel in which it is cooked, it is served on cheap tin plates, or, in poorer households, in gourds (see p. 19), and eaten either with the fingers, a spoon, or a fork.

One of the most important elements of food of the Boruca is salt (see p. 142). The Boruca make a trip to the coast yearly to extract the famous sal de piedra, or rock salt, which lasts indefinitely, and has a fishy strong flavor. This rock salt is made by gathering the driftwood on the beach and burning it. A baba (a largeholed basket made of a vine or tree fiber, see p. 15) is lined with leaves and hung over a clay vessel. The ashes are put into the baba and sea water poured over them. The residue from this filtering process falls into the clay pot. This residue is cooked until it is dry and then recooked, about three times in all. The result

is a rock-like mass with dark strata-like lines due to the ashes and sea sand. This rock salt is so hard that to procure salt for use it is necessary to scrape it with a sharp knife. A very little is sufficient as it is much stronger than ordinary salt. Rock salt, besides its general use in cooking, is much sought after by sorceresses.

Occasionally, instead of making all their salt into rock salt, the Boruca extract the residue after the first cooking and put it in a gourd. This they put in the hot sun until the contents are thoroughly dried. The result is a softer, not so strong-flavored, and more easily used salt which is called in the Boruca tongue kj²-kg. This literally translated means "salt liver," as it is softer than the rock salt, and liver is one of the softest elements of the body.

Although the Boruca do not make many tortillas, they distinguish between those made of old corn and those made of sprouted corn (maic nacido). They also make tortillas from green plantains, and from the fruit of the wild ojoche tree (see p. 7). Atol is made from rice and corn, and given to the babies when they are weaned. When rice is not dried on hides, it is hung from the ceiling over the stove and smoked dry. Then it is put into a wooden mortar and husked, to be boiled when needed.

Plaintains are roasted with and without the skin. They are also fried. Green plantains are peeled and placed on hides in the sun to dry. They are then kept in a knotted string bag (see p. 18) in the kitchen. When the plantain has hung for sufficient time to be very, very dry, it is ground to a fine powder and used as a flour for making tortillas or tamales. A wooden knife is always employed to cut the dried plantains, because if a steel knife is used, a black stain results and the flour, consequently, is colored.

Hen eggs are generally eaten, but occasionally a man will bring crocodile eggs from the river. These are cooked with gnayabo (guava) leaves (see p. 6) to take away the strong taste. Foodstuffs (see p. 7) such as mushrooms, hearts of palm, and flowers, including the blossoms of the papaya and the poro tree, are usually boiled, cut up, and mixed with hen eggs. Sometimes meat is substituted for the eggs. The cob-like inflorescence of various

palms are boiled and fried. Another generally liked food is the tender leaf of the bean vine. This is prepared either with eggs or in soup.

Meat, fowl, and fish are frequently wrapped in the leaves of the bijagua (Calathea insignis Petersen). Another Calathea known as "black bijagua" is used interchangeably with the first kind. The food wrapped in the leaves is roasted on the hearth stones. There are various ways, however, of preparing different meats. Armadillo is often boiled or fried. Domestic and wild pig and venison are placed on top of three or four sticks over the hearth stones and roasted. Sometimes the flesh of these animals is sun-dried and salted, or is smoked for preservation. Beef is almost never eaten, as the cattle the Boruca possess are not numerous and are in the hands of a very few; besides, since they are used for traction, they are economically too important to eat (see p. 23). Posole is a common dish and is made of dried meat, usually wild pig. The meat is chopped fine and cooked with corn. The combination is then grountl. If this is boiled every night, it keeps for many days.

Shell fish is boiled, but fish, other than shell fish, is seldom eaten fresh. When it is, however, it is put into a soup, or roasted in leaves, or fried. As a rule the fish is cut into three pieces and salted to be eaten when needed. If salt is not available, the fish is smoked and saved. Smoked fish is said to be excellent for diarrhea.

Fire-making. The majority of the Bornea use matches, although a few of the older people occasionally use two sticks to start a fire. This is accomplished by taking a stick of pejibave and rubbing it around and around in a small hole in a stick of guácimo (Guazama ulmifolia Lam.), until sparks set the guácimo on fire. Some of the elders still talk of the stones which were formerly rubbed together to start fire, using a piece of cotton as a wick. These are not seen today.

In the bush, or in the fields, fire, which is all important among the Boruca for clearing purposes, is kept in an old tree trunk from day to day. This is done by throwing ashes over and around the fire to keep the embers hot and alive, much as is done in New England fireplaces at present.



Food Storage. Corn is kept in large habas (see p. 15), in small raised-off-the-ground houses behind the main house, or on the wooden platforms, or tabancos, in the main house. The corn is shucked and left on the cob. Rice, unhusked, and various foodstuffs are also kept in these houses or on the more common tabanco. Eggs are hung in baskets of armadillo hide in the storage houses, or on the walls of the kitchen. Smoked fish and meat are also kept on tabancos in the kitchen, or hanging from the walls.

Drinks. Tivia (see p. 20), the liquid remaining from cocoa-butter, is drunk plain, or,

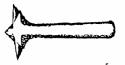


Fig. 2. Wooden masher for chicha; size, length, 22 inches.

at times, ground corn, and, very seldom, ginger is added. Tivia, which is also called kao, is ground cacao that has been mixed with water, cooked, and beaten with water. It is taken plain without sugar, or it is mixed with roasted ripe plantains.

Chicha is made from old corn alone, or mixed with pejibaye, or with ripe or green plantains, or with nampi, or with yuca, or with diverse starches

Two kinds of corn chicha are made. One kind is made with a yeast, and consequently is known as monsera, which is the word for yeast. This chicha is used regularly at all celebrations, and in some houses almost daily. The other corn chicha is given by wives to unfaithful husbands to keep them from looking at other women. This last kind is called punsetti in Spanish, or twist[a' in Boruca. To make the ordinary chicha, whole kernels of corn are broken or crushed on the tumba, then left in water overnight. They are ground again, and the masa, or ground corn, is wrapped in a leaf or leaves, usually from the plantain, and boiled as a tamale. When cooked, it is left in the same leaf and hung as

a rule on the wall outside of the house, but sometimes inside the house, for three days (see fig. 5, b). It is then taken out and rewrapped in the same leaf but this time using the outer side of the leaf on the inside, and left for three more days hanging on the outside wall. If a yellow mold appears, it is still used, but not considered as good as without the mold. At the end of the three days, it is unwrapped again and left in the sun until it is thoroughly dried, when it is considered suitable to use as yeast in the chicha. When green plantains are used, the Boruca prefer to dry them on stones by the river instead of in the customary manner on hides by the houses. When dry, the plantains are ground and added to the corn to ferment. This also is considered mohoso, monsera, or yeast. When pejibave, ñampí, yuca, or ripe plantains are used, they are cooked and then ground before being added to the corn.

The next step is to crack more corn, grind it, and let it soak overnight. It is then cooked until it starts to boil, when it is removed from the fire and mashed with a wooden masher (see fig. 2). Sufficient water is mixed with the corn to keep it from being either too hard or too soft. The grain is then mixed with the veast. This concoction is left anywhere from six to fifteen days in babas lined with leaves. These babas are generally kept on the tabancos. At the end of the allotted time, the haba is taken to the river, and its contents emptied into gourds. Water is added to the paste which is pounded until it becomes soft. The chicha is usually kept in large earthenware jars, called dze-bwi-grin', in a corner of the house, and covered with leaves or a cloth to keep for further use.

The corn for twist[a' is made from corn that is left to sprout in water. When it has sprouted, it is ground on the tumbas, or grinding stones, and then cooked in a pot, after which it is left in wooden trays, called by the Spanish name bateas, to cool. When cooled, the corn is chewed by the women and the residue is spit into a clay vessel. Here it is mixed with water and brown sugar is added. It is then strained, put into a vessel, and left to ferment. The fermentation often takes place over night.

Narcotics. Tobacco is used extensively by both the men and the women. It is chewed mostly by the men, but also by the women. All people, including the children, smoke cigarettes, and both sexes use wooden pipes.

When hungry and no food is available, or

when working and extra strength is needed, the Indians chew a root from a plant called cordoncillo in Spanish. It is a member of the Piper family, and has various uses among these Indians (see pp. 20, 21, 27).

HOUSES

HOUSES

Houses are built straight from the ground, without any attempt at a foundation, the floor being of earth. Occasionally, a shallow ditch is dug around the whole as a drain, and sometimes a low base of earth is built up and kept in place by wooden poles laid horizontally and supported by short vertical poles (see fig. 5, c), or by several wooden planks. Houses like this have earthen steps as an entrance. The majority of the structures, however, have a single pole at the very base serving as a finish between the house and the ground, and, in a measure, as a protection against water seepage from the outside (see fig. 5, b). None have porches.

In the lower, warmer areas, such as Curré and Lagarto, the houses frequently have a row of stones around their base, and even a protruding terrace of stones at the front (see fig. 5, d). This offers better protection in wet weather, as these sites are low and subject to backwashes from the river when rains and floods are heavy.

The shape of Boruca houses is square or rectangular. They are made of wooden poles with grass roofs. The wood used is palo de mayo (May tree) or the María tree, palo María (Calophyllum brasiliense Camb. var. Rekoi Standl.). There are two kinds of palo de mayo. One kind has white wood and is identified scientifically as Vochysia bondurensis Sprague, while the other, which is preferred and has a pinkish tinge is probably Vochysia ferruginea Mart.? The palo María also has a pinkish wood, and is used only when the tree is very small. On the coast, the wood of the buiscoyol palm (Bactris minor Jacq.) is used for roof rafters when available. It is not used in Boruca, as this palm does not grow

House Construction. The poles which are the thickest are placed vertically at the corners, by the doors, and at intervals along the

no Cydista pubescens Blake, according to Dr. R. J. Seibert, Turrialba, Costa Rica.

walls to serve as supports. The intervening space is filled in by not so thick poles placed very close together, either vertically as in figures 5, c, d and 4, c, or horizontally as in figure o, c. When they are placed horizontally, they are woven in and out of the supporting vertical poles which, of necessity, are more numerous in this type of construction. When the wall poles are vertical, thicker poles are placed horizontally in a single line on the outside at the bottom, the center, and the top, acting as a supporting band to hold the wall in shape. These bands are bound to the other

poles with fiber ropes. There are three kinds of fiber used in house construction. The most popular, and practically the only kind found in Boruca houses, is that known as the bejuco de fierro or negro. This is a thick vine growing in the forest (perhaps Anthurium scandens [Aubl.] Engler).214 Its leaves resemble those of the bean known as haba blanca. From this vine, as many as eight cords are obtained, depending, of course, on the width desired. Another fiber used is called bejuco de hombre and is known also as andariel. This is really an aerial root and is found in house construction on the coast, around Palmar Norte, where the bejuco negro is not obtainable. The third type of fiber is made from the bark of a tree called capulin blanco (Muntingia Calabura L.). Sometimes both horizontal and vertical wall construction are found on the same house (see fig. 6, a). Windows are rare, but when present, the framework is always made of the thicker poles. The window shutter, however, is of planks and the hinges bought at ladino stores. Doors also have a framework of poles. The doors themselves are made of the small vertical poles following the vertical construction of the walls and are tied with vines, no hinges being used. Frequently, the walls have a rough coating of bajareque both inside and out. Bajareque is a mixture of cow dung and mud. Strangely enough, the

bajarcque is never put on the walls neatly, but is always splotchy, giving the impression of a quick hasty job. The houses of the Boruca who live in the lowlands, e.g., in Curré and Lagarto, by the banks of the Diquis or Térraba River as a rule do not have bajareque because of the heat. When it is employed, it is only to cover the side where the prevailing winds touch.

The outstanding feature of Boruca houses is the roof which, except for a few houses generally in the lowlands, is made of grass. The few exceptions have roofs of corozo palm leaves or of the sem palm. The roofs are made with great care, and last from forty to fifty

A pole is tied horizontally to the top of all the vertical supporting poles (see fig. 6, b). The wood used is generally palo de mayo, or May tree. Other poles are tied vertically to these horizontal poles. These non-supporting vertical poles are then inclined until they converge and cross at the top, where they are fastened to two horizontal thick poles, one under, and one on top of the converged poles (see fig. 6, b). Anywhere from two to four pole braces, depending on the size of the house, are inclined from a bottom corner toward an opposite upper corner, usually reaching the center of the roof and not the corner. At intervals, thick poles are tied as horizontal braces to the vertical and converged supports (see fig. 6, c).

In between these braces, smaller poles are placed horizontally following the lines of the braces (see fig. 6, c, d).

Despite the fact that the savanna is full of various grasses, the Indians take great pains to procure only three special kinds which grow in these savannas, and which are considered essortial for a Boruca roof. The first of these grasses is called in the Boruca tongue, bjak, and in Spanish, zacate de sabana. It resembles calinguero, which in other parts of Costa Rica is planted for cattle feed. However, bjak does not have an odor. This grass has a little fuzz all over it which makes it in a measure impenetrable to water, and is supposed to keep all drops from entering. The second kind is called in Boruca, jupjus, and in Spanish, zacate de comején, or "termite grass," as the termite likes to make nests at its roots. This grass is used to level off the roof and to make an even finish. The third grass is thin and fine, and is called *cacate de palito*, in Spanish ("little stick grass") or *su* in Boruca. This is supposed to protect against and to stop cracks.

The Indians pull up these grasses, roots and all, and gather them in bundles which they tie with a vine or pieces of the grass itself. They put these rolls on an ox or on their own backs and take them to the building site (see fig. 7, a). As many as twenty-seven hundred rolls or bundles of grass are needed for an average roof. If the grass gets wet, each roll is opened and laid in the sun to dry. When ready to use, the grass is placed between one or two of the narrower horizontal poles of the roof forming a neat row. It is not tied, but is literally wedged-in. A roof usually has from six to nine horizontal rows of grass.

The interior of the houses varies. Some have two partitions made of caña blanca (see p. 8) or even of thin palo de mayo poles, following the same construction as the outer walls, at times, even with a smattering of bajareque. When a house is so divided, one room is used for the kitchen, one for a sleeping room, and one for a living room. Occasionally, a little hallway results in this type of house. However, the hallway is only the result of the partitions and is not an architectural feature. The average house, however, has only one partition, usually of canes, which sets off the kitchen.

Household Furniture. Many of the Bornuca have, in addition to the three hearth stones (see p. 8), a fogón, or stove, built in the typical ladino fashion. This fogón is a raised wooden container, rectangular in shape, and supported by four wooden legs.

The container is filled with mud mixed with pebbles or small pieces of stone and left to dry. When thoroughly dry, three or more stone are placed on top to support the cooking vessels. Sticks of wood are placed between these stones and set on fire for cooking. At times small rounded mud ovens are also made on the foein.

The tabanco, or wooden platform, is an important feature of a Boruca house. The tabancos are usually made of the stilt or black palms called in Spanish chonta, or chonta negra. There are two kinds of chonta. Both have

aerial roots, but the one with large roots is called in Boruca kanazira, and the kind with smaller roots is called mana-kra*. These tabancos either hang by vines from the roof, and serve as storage places for food or other things, or they are more stable structures made with thick horizontally placed poles resting on the uppermost horizontal pole of the wall, and forming a sort of second floor or platform to be used for sleeping as well as storing. To climb to this sort of tabanco, ladders made by notching a single pole so as to give place for footing are used.

Beds usually line the inside of the living room. These beds are made of four supporting sticks with a v-shaped upper end. The lower end is placed in the earth. The bed supports are either of wood or of chonta. Usually a rectangular framework of four poles is fitted on top of the vertical supports and tied to them with a vine. The bed itself may be made of cane or hide, although sometimes planks are used.

The only furnishings besides these beds are low wooden benches about an inch off the ground, and in certain houses, plain old-fashioned wooden coffers to keep clotthes. These coffers are purely ladino and have been copied from the Costa Ricans who at one time or another have settled among these Indians. The low wooden benches are pure Indian, have four feet, and are either plain or have protruding heads and often tails (fig. 7, b-6, c-1). It has been suggested that this last type is copied from the stone seats or metates of the ancients.²² The benches are kept highly polished

with chumica (Curatella americana L.) leaves, and are used throughout the household, in the kitchen, by the hearth fire while cooking, as a convenient seat while weaving, and as we use chairs in our houses.

There is at least one hammock in every household, although frequently two, or even three, are found hanging from the top of the walls. They are used to sleep in as well as to sit in during the day.

Habas, empty, and with foodstuffs or clothing, are piled in corners or on tabancos. Wooden mortars, carved from a single piece of wood, and the wooden masher, are part of every household. These are for husking rice (see p. 9). Large pottery jars to keep chicha are generally found in the corner of the living room. String bags of diverse types hang on the walls with weaving implements, cotton, or thread; while also on the walls, and especially in the kitchen, hang pots dug from ancient graves (when the family is not superstitious), and always bottles of sundry types. These contain many different things, from herbs to oil and seeds. Maracas, occasionally masks for festivals, drums, clusters of parrot feathers, toucan beaks, ears of vari-colored corn, bright red shells from boiled crayfish, and even cock feathers are stuck at random in the walls or hang on strings from them, giving a gay appearance to the household. In certain houses, pet birds such as parakeets, parrots, and macaws are kept by clipping a wing. Instead of cages, a rack is made of pieces of wood, and kept in a corner of the household.

DRESS AND ORNAMENTS

Clothing. Relatively few Boruca wear costumes. The only ones who do are the older women who wear a manta, or skirt (see fig. 7, d), and a few men who still use the woven belt (see fig. 7, b–7). The majority are clothed in cheap unattractive cotton dresses, the cloth bought in the nearest hadino settlement. Besides the manta, the women wear a buipil, or blouse, which may be of any color, even white. (The word buipil is understood and used at times by these people. They have

forgotten their own word for it although they admit having formerly had one.) This blouse is sometimes opened down the front, and sometimes closed. It has sleeves, and is fashioned with a guimpe effect at the neck, hanging loosely over the skirt (see fig. 7, d). Formerly, the women used a woven buipil which always had a white background, no sleeves, and a rectangular neck. The design consisted of stripes, either wide or narrow. The cloth was finer than that of the skirt, being the same

[&]quot;Stone, 1943, p. 81.

quality as a man's belt. Occasionally, as late as a few years ago, this same huipil was used with a piece of cloth attached to the back as a collar. The skirt, which is relatively heavy. is worn wrapped around the body, the stripes placed horizontally (see fig. 7, d). It is sustained by a string tied around the waist. Under the skirt, loin cloths of mastate (see p. (8) are sometimes worn. No other sort of undergarment is used.

Today, most women wear two necklaces, usually of beads with seeds or coins interspersed. Earrings of seeds, a round red seed from the poró tree, or a similar seed that has a black spot and grows on a vine, are favorites, but cheap earrings from ladino stores are also seen. Before, however, in addition to seeds and fruits, sea shells and even pearls were used. Pink sea shells, such as the Guaymi wear today, were particularly coveted. Animal pelts and bird's egg shells served as necklaces. Rings were and are made from the seeds of the covol palm and a palm called palmilera. The women love combs and flowers in their hair, seldom appearing with less than two combs and, as a rule, three or four, all of bright colors and bought from the Chinamen on the coast or in Buenos Aires. Barrettes also are frequently placed between the combs and the flowers. The hair is always arranged in two braids and parted in the center. Often ribbon is braided in these plaits. Until recently, instead of ribbons in the braids, cotton thread dved purple was used. It is said that no other color answered the purpose. The two braids were tied with this thread on top of the hair in the front. Today, the older women gen-

erally put the braids up, tying them together with ribbons. The hair is kept sleek with cocoa-butter, and the skin is cleared of freckles or blemishes by using a mixture of cocoabutter (see p. 20) and tsama. Tsama is sometimes called by the Spanish name yuquilla (Curcuma longa L.).

The men wear the regulation pants and shirt of the ladino and some still use the woven belt. In the beginning of this century, the men wore a typical costume, the cloth for which was woven by the men. Lehmann 28 notes that this was characteristic of the Cotos, whom, as we have seen, form part of the modern Boruca. Weaving was done by some, not all, of the men and women. In particular the older Coto men wove for all the other men.24 The men used a huipil without sleeves which took one month to weave and reached below the knees. The stripes were narrower than those of a women's skirt, and they were more like the belts used at present by the men. Beneath this, they wore a loin cloth of mastate, and a woven belt which kept the loin-cloth in place. Formerly, the men cut off all their hair except a small portion in the front which stood up like unruly bangs. One old man in 1944 used the same sort of decorations which were used years ago, pelts of birds, squirrel tails, and bird egg shells as necklaces.

' Most Indians go barefooted, although occasionally sandals are seen. These sandals are of hide, usually of wild peccary, with thongs of twisted hide which pass between the first and second toe and between the third and fourth toe, being fastened on the outer side by the ankle.

TRANSPORTATION

By Land. The Boruca, as is true of all the Indians of Costa Rica, are great walkers, climbing up and down the sharp spurs and steep mountains of their native habitat. Their main community, as we have seen, is situated in a series of undulating hills, which in itself is not easy country for a horse or a mule. The ox is what one might rightly call the only beast of burden common to these people. A number of families own an ox which is used

to transport essentials on his back (see fig. 7. a), and never to pull a cart as amongst the ladinos. The very few horses of the Boruca (see p. 23) are ridden with a halter, and old, worn, second-hand saddles.

By Water. In addition to a mountainous land, the terrain of the Boruca and most of their communities border on water. The Diquis River still forms an important highway for these people. Until a few years ago, the

sea, skirting the coast westward to Quepos and eastward to the Golfo Dulce, as well as out to Caños Island, furnished another avenue of travel. Dug-out canoes are used in the river, and a larger canoe, called a bongo in Spanish, was used on the sea. These bongos had sails of bark cloth (see p. 18) which were fastened to a framework of sticks. There are only three kinds of trees utilized for making the canoes, the espavel, the sandbox tree, and the guanacaste (Enterolobium cyclocarpum [Jacq.] Griseb.). The canoe is caulked with wax, from certain bees (Apis Trigana? or Melipona?), which live in the ground on Caños Island. It is said that this is one of the few places in which this species of bee is known to exist in southeastern Costa Rica. It is interesting that this wax contains a majority of resin and very little wax, as the analysis given in the appendix shows (see p. 41). Formerly, the Indians visited Caños Island especially to obtain the wax, coming away with as much as 30 or 50 pounds in their canoes. Nowadays, since the island is no longer easily accessible, caulking is done with the wax from a related species found around Boruca, or from the glue made from a palm belonging to the genus Elaeis and called in Boruca, tuskra' (see p. 19), and with the gum of the wild rubber tree (see pp. 19-20).

There remain certain families of "river Indians" who are famous for their skill with the dug-outs, particularly in the rapids, and there were formerly outstanding sailors for the seagoing bongos. On the river, both paddles with plain handles and poles are used.

Carrying Devices. Generally, the women carry cargo (see figs. 7, a; 8, a). The men verv seldom do such labor. A tumpline is used to support the article which rests on the back of the individual or in a haba (see below), which is also carried in a similar manner (see fig. 8, a). Occasionally, string bags (see fig. 8, b-4, 5, 7, and p. 18) are swung from the forehead down the back. They are, however, rarely used like this, being generally left to hang on the house wall. Babies are carried in a shawl or cloth on the back.

MANUFACTURES

Cordage. The Boruca have two principal fibers which serve for making cord, and two which are employed but slightly. The chief fibers are majagua (see p. 7), and the bejuco negro, or, brit (see p. 11). These are used for making rope, string, baskets, and hammocks. In addition to this, the leaves of the pita plant and, at times, the leaves of the cabuva plant (Furcraea spp. and Agave spp.) are utilized for bags and rope.

The majagua is prepared by cutting a piece of the tree and stripping off the extreme outer part, using only the inner portion. To make rope from this, the fiber is tied around a tree or post and cut into strips, the quantity depending on the quality of rope desired, as the greater the number of strips, the finer the product. Figure 8, c shows the majagua fiber ready for use. The bejuco, or vine, is prepared by scraping off the outer bark with a knife of caña blanca, washed, and then cut into the desired strips. It takes a day to make this vine ready for use. The pita is also scraped with a cane knife until it is white all over. It is then washed in the creek or river, and cut into the

desired pieces. Pita is not used for heavy rope. but is made into cord and a "fishing line" which is tied to the fishing spear or arrow (see p. 8). The leaf of the cabuya is beaten on stones until it is pulpy, after which it is washed, and then dried in the sun. When dry, it is pulled into strips.

Figure 8, d is a sample of the two kinds of rope the Boruca make. The upper portion is twisted and braided, while the lower half is only braided. This last method makes a stronger rope. When the rope is finished, it is tied at the end, and one of the strips is twisted around the whole, passed through the braid, and then pulled tightly.

Basketry. The typical basket of the Boruca is what is called in Spanish the baba, and in Boruca ha'va. It is woven by the men. The haba (see figs. 7, b-2; 8, a, b-1, 3) is made only from the bejuco negro, the strips of which must be cut in lengths according to the size desired for the finished product, as in this type of basket one cannot add extra length or depth. The smallest haba is about 9 inches in depth, and is used for washing corn. For a

[&]quot;Lehmann, 1920, vol. I, p. 198.

[&]quot;Vázquez de Coronado, 1908, p. 50.

medium-sized haba, the strips are usually around 30 inches long, while the largest are around 50 inches. The base of the haba is triangular with the corners and two sides rounded. The third side is kept flat to fit more sreadily on a person's back. In making the hasket, the strips are placed on the ground and the foot put over as many ends as possible to hold the pieces in place. The opposite ends are left free, and the weaving is done with the fingers (see fig. 9. a). The pattern resulting from this is a hexagon (see fig. 7, b-1). When the base is completed the strips are doubled upward and interwoven, particularly at the corners, and horizontal strips are added as strengthening bands at the start and finish of every hexagon, the pattern remaining the same as that of the base. At the very top, a horizontal band is overlapped by the main strips and woven into the rim. A wide ribbon of the vine is fastened around the haba when used for carrying. This band is suspended from the forehead of a person, and the basket hangs flat on his back (see fig. 8. a).

Baskets are also made from the bejuco negro, or, preferably, from the vine called anda-riel (see p. 11). These baskets are circular with a decided bulge or projection a little above the base. They vary in size from short baskets with handles to very tall ones (see fig. -, c). The strips used for the baskets are cut narrower than those for the haba, and may be added to in order to increase the depth of the article. As with the haba, the strips are put on the ground at the start. They are crossed, however, in the center, and another strip is then tied to this center portion or base, and is woven in and out of the projecting strips by hand. Adding of strips to make the basket larger is accomplished by weaving a strip well into the basket until an end appears on the other side of the base.

Weaving. The Boruca are today the only Indians of Costa Rica who do any weaving, in spite of the fact that they do very little. In 1945, there were only six women in the village of Boruca who wove skirts, mantas, and one woman who wove only men's belts. Almost all the women and many of the girls, however, knew how to make thread. A common practice was to make thread and give it to one of

the weaving women to use, and then pay her a small sum for her work if a skirt was desired. Those who did not wear mantas still made the thread and sold it or exchanged it with the weavers for some other object. The primary cause for lack of enthusiasm in weaving appears to be the class of cotton available. The Boruca plant a tree cotton (see p. 6) that yields a very small pod, and consequently, the Indians become discouraged at the produce. The famous "colored cotton," which is so called as it is light brown, is also planted. This is the cotton which called the Spaniard's attention so markedly in El Salvador during the Conquest, and which is used today by the Cavapa Indians of Ecuador.25 This colored cotton does not have to be dved. It is, however, more delicate to make into thread than the white cotton, as it breaks oftener. The best spindles, as the best looms, and weaving instruments of the Boruca are made of peiibave palm, although chonta, both mana-kra' and more seldom kanazira (see pp. 12-13), are considered good (see fig. 9, b). The whorl, is commonly of bone, but pejibaye, chonta, and occasionally pottery whorls are seen. Some of the whorls are undecorated, but some have incised horizontal grooves (fig. 9, b-3, 4).

To make thread, the cotton is removed from the burr and carefully deseeded by hand, the seeds being saved for planting. The cotton is then put on a hide, and the women take two sticks, one in each hand, and beat the cotton making it as smooth as possible, after which, it is pulled into wide strips and rolled into balls. When the cotton is ready, the woman sits on a low bench and puts the spindle in a gourd on the ground. She holds the spindle in her right hand and the thread in her left, between the thumb and index finger, working so fast that it seems as if the spindle is rarely in her hand at all. This process the Indians call "dancing," as the spindle literally dances in the gourd (see fig. 5, c).

Once the thread is made, it is either left its natural color or dved. The Boruca still have a few colors which they dye themselves, but red, vellow, green, and bright blue are bought, generally not as dyes, but as already colored mercerized cotton thread, at the nearest ladino town. Due to the relatively high price of these

threads, the Indians lamented to the writer that they had forgotten how to make many of the beautiful colors their ancestors knew. In particular, they wanted to know how to obtain a bright blue. As a consequence, the seeds of the broad-leaf indigo were sent them for planting.

The colors still made by the Boruca are black, light yellow, pale blue, and purple. Light brown is obtained by using the natural colored cotton, as stated before. Formerly, red was made by boiling the leaves of the sangrilla tree which is called rus kra' in Boruca, and is abundant in the neighboring forests. At present, they do not make this dye, as they seem to think it too much trouble. A fast jet black is procured by cooking the bark of a tree called carbonero (Guarea guara (Jacq.) P. Wil.) in Spanish, and grisin-kra' in Boruca, and combing the liquid with a black clay found in the vicinity. Light blue is made from a narrow-leaf indigo (Indigofera suffruticosa Mill.) which abounds by the river. The leaves are boiled for dve. Purple is obtained on the sea coast near Punta Mala and Dominical, Here a mollusk (Purpura patula Gould), called la morada, is gathered at low tide off the rocks which jut out of the water along the shore. Formerly, the Indians swam out to the rocks with the cotton thread on top of their head to collect the animal.26 The Boruca have no tradition of any of this. At the present time, they gather the mollusk when the tide is out from the shore, and from the rock they can reach by wading. Great pain is taken not to let the creature die. On obtaining the mollusk, they first turn over the shell so that the sea water runs out. Then they blow into the shell, holding the thread in front. The angry animal spits out a fluid on the thread, after which he is thrown back into the sea. This fluid is at first a greenish-vellow, but when dry, becomes deep purple.27 They say that the ink is best when the moon is full, and no good when the moon is new. At other times, the color is not so strong, nor does it dye evenly. This dye has long been prized not only by the

Indians, but also by the Spaniards who demanded purple thread, during the Conquest and the colonial period, as tribute for the church as well as for themselves.28 For a more complete discussion of this purple dye in other parts of Central America, see MacCurdv.29 Another, not so strong, purple dve is gathered from a small mollusk (Purpura kiosquiformia Duclos) which lives on the roots of the mangrove trees (Rhizophora Mangle L.). This creature must be killed to be of use. The soft part of the shell is removed, and the liquid it contains is put on a thin stick and drawn on the material in the same manner as using a colored pencil. When first applied, the liquid is black, but it turns purple on drying. This is employed very seldom today, as the little weaving that is done has generally woven designs, and is not painted.

The actual weaving is done by the women seated on the low bench that is characteristic of the Boruca (see p. 13). The loom used is horizontal with a warp beam and a back strap, the other end of the loom being fastened to the wall of the house or to a tree (see fig. 9, d). The crossing of the weft is accomplished with a straight wooden rod, after which the woof is pressed into position with a wooden sword slightly longer than the width of the cloth. A shed stick is used, but there is no heddle rod. The width of the web is kept even by the temple, which is a piece of cane, preferably the part near the inflorescence, with a bone point at each end (see p. 18).

The cloth woven by these people is usually heavy with a stripe design (see fig. 7, d). Some women, however, weave a conventionalized geometric pattern horizontally across the white space between the stripes (see fig. 9, a), not permitting the design to appear on the reverse side of the cloth. This is a single-faced weft-pattern weave, and is a technique unknown elsewhere in Central America. It has been found in ancient graves on the Ecuadorian coast, by the island of Puna.30 Men's belts are also striped, although the thread used and the weaving is finer than that of the skirts.

[∞] See Cockburn, 1770, p. 112. [∞] According to Dr. W. J. Clench, Museum of Comparative Zoölogy, Harvard University, this dye is a drug used by the snail to anesthetize its victim. *See Fernández, 1907, vol. IX, pp. 353-54; Cock-

burn, 1779, p. 112.

See MacCurdy, 1911, pp. 160-61.

Information given to the writer by Professor
Carlos Zeballos M., Director of the Municipal Museum, Guayaquil, Ecuador.

^{*} Barrett, 1925, pt. II, pp. 252, 258.

Bags. Bags (fig. 8, b-3) are woven only by the men. They are made by cutting strips of majagua, pita, or whatever material is used. very very thin. This is then twisted into a fine cord. The bag is started from a circle of this cord. The end is passed through this, and a knot is made, leaving a loop. Once the circle has been started, the whole is put on the ground, and the maker puts his heel on top of the center. Two knots are made, one on each side of a loop, each time the cord is passed through a loop. When the work is large enough to be managed more easily, it is taken off the ground and held between the knees. Some bags are made with only one knot at each intersection. Bags are used for carrying the gourd water bottle, for keeping materials, and for carrying or keeping odds and ends.

Hammocks. The Boruca men make a hammock, from majagua (see fig. 8, b-6). The weave is coarser than the hammocks made by the Bribri from the same material. In hammock-making, the strips are twisted tightly and fastened around a strick which is placed horizontally at each end. The weaving is done with the fingers. Each time the strip is woven in and out of the spaces left by the original strips and then looped over the stricks at the end. When the hammock is finished, a turkey or chicken thigh bone is usually substituted for the stricks, and acts as a link between the hammock and the rope which ties the hammock to the wall.

Hats. One or two Indian men occasionally make straw hats from the leaf of the sem-kra' (see p. 7). The leaf is first dried in the sun, then cut into thin strips, and the hat is woven basket-fashion, commencing from the center of the crown. This whole technique is not common to the Boruca and is probably borrowed from the Chiriquianos who are found scattered through much of southeastern Costa Rica. The hats are made to sell in Judino towns, and are seldom used by the Boruca.

Bark Cloth. Today, the Boruca do not profess to use bark cloth or mustate (fig. 7, e-4) as part of their dress, nor do they use it any longer for sails (see p. 15). Occasionally, bark cloth is used as a blanket for sleeping. The Boruca claim to have worn mustate as late as 1933, when they had easy access to the coast

and the mastate blanco tree which grows there. In view of the fact that it is frequently acquired from the neighboring Cavagra or Cabécares (see p. 24), it is quite probable that the mastate is used, not only in place of blankets, but also as loin cloth by the women. Mastate can be made from two trees. One tree is the mastate blanco, or white mastate, which the Boruca prefer, and which, as we have seen. grows on the coast. The other tree is found in the interior, and is known as mastate colorado, or red mastate (Brosimum utila [HBK] Pittier). It is the tree still used by the Cavagra for making bark cloth, but apparently was not utilized by the Boruca unless it was absolutely necessary. Both trees have a milk, but that of the red mastate is sometimes used for drinking, while that of the white is never taken. To make the cloth, a piece of bark is cut off and rolled at right angles to the grain, then beaten with a wooden stick to take off the rough outer surface, after which it is beaten with another club whose surface is grooved. It is then soaked in water and pulled to the desired size and put in the sun to dry, having pieces of wood or stone placed on the outer edges to keep the cloth from contracting.

Bone Objects. The use of bone amongst the Boruca is rather curious. It is the material employed almost generally for spindle whorls, and always for the needle-like pieces which are the temple, and are used to pin the woven cloth already on the loom so that it does not lose its shape while the rest is being made. Furthermore, the thigh bones of wild turkey and fowl are used to connect the hammock with the extra rope from which it hangs. Similar bones serve as handles for the maracas (see fig. 10, c, d). Bone is also used for certain cures, for example, if a baby has dysentery, bone and garlic bracelets are put on its wrists.

Gourds. One of the most important every-day artifacts of the Boruca is the gourd which grows on the tree called either guacal, or jicara, depending on the shape of the fruit. This tree scientifically is known as Crescentia Cujete L., and the tree, as well as its fruit, in English, are all called "gourds." The guacal is round, while jicaras are oblong.

The gourds serve many purposes. They are, of course, used as drinking cups, for hold-

ing liquids, in the kitchen, and for carrying water to the fields or on trips. Interestingly enough, a ring base to sustain the gourd erect does not seem to be known, the vessel being placed on the ground and balanced by rocks or the legs of the fogón. In addition to the uses mentioned above, gourds are used as bee hives (see fig. 4, d), as a receptacle for the spindle whorl while making thread (see fig. 5, c), for carrying seed when planting, and are employed extensively as sieves. The use of the gourd as a sieve is very common amongst the present close neighbors of the Boruca, the Talamanca peoples.31 For use as a sieve, the gourd is covered with holes made by a combination cutter and puncturer. This tool has a handle of pejibaye palm in one end of which a forked piece of metal with one prong longer than the other is inserted and bound by string. The longest prong is shoved into the gourd until the shortest penetrates the outer surface deeply enough to cut a line in a circle. This operation has the double effect of making a circular hole and at the same time a line design around the aperture (see figs. 7. b-8; 7, c-3). Gourds are also made into maracas or rattles to accompany the drum at celebrations (see p. 29). There is no rule about the decoration of the gourds. They are either left untouched, or are carved in various designs, the most popular of which is the leaf motif, although animal figures sometimes appear. The patterns are cut with a knife, and left to turn a darker color with time.

Glues. Glues are rarely used by the Boruca. A glue that is used for mending vessels, or, at times for water-proofing the dug-out canoes is made from a small palm (Elaeis melanococca Gaerin.) called in Boruca tuskra', tus, meaning "short," and kra', meaning "plant." This palm has thorny leaves and red fruit (see p. 15). To make the glue, the trunk is cut in pieces and spread out in the open so that the dew has easy access to the sap. The following morning, the residue, which is the glue, is orathered.

Pottery. Very little pottery is now being made by the *Boruca*. The European war, however, has caused iron cooking vessels to become practically unobtainable as well as prohibitive in price, and the Indians are slowly

tinaja. Other forms consist of smaller vessels with rounded base and a flat protruding rim, at times with a projecting nubbin, as if an attempt to portray a head, tail, and wings, such as is encountered on the pots found in ancient graves; and sometimes the comal or indented clay dish which is used for frying. Plain rounded vessels, often with a thumb-nail design on the border or rim, are common for cooking.

Women are the potters. The usual way of making a vessel is to mash the clay, if soft, with the hands, and if hard, with a stick, until it is fine. Then a coil is made of this clay, and

reverting to make their clay cooking pots as

before. There are several common pottery

shapes. One kind is a large vessel with a

pointed base which is slightly rounded, and a

projection near the base, the neck indented,

and a projecting rim. This type is called

kvure' in Boruca, and resembles the Spanish

making a vessel is to mash the clay, if soft, with the hands, and if hard, with a stick, until it is fine. Then a coil is made of this clav, and the coil doubled over to give more strength to the whole. The base is started with these coils in the manner of a large tortilla, or corn cake. A rounded wooden mold is used only for the base. The clay tortilla is put in the mold and shaped to the sides. Then coils of clay are added, and the vessel grows above the mold. Smoothing and evening are done with the hands. Once completed, the pot is left from fifteen days to one month within the house to dry. The excess clav is then removed with a knife, and the vessel is polished by rubbing it all over with a seed which comes from a vine called in Spanish ojo de buev (Mucuna urens [L.] DC.). A bed of firewood is made outside the house, and the vessel is placed in the center. Firewood is stacked around the pot until it is covered. Fire is set, and the wood burns away leaving the vessel intact. When a particularly strong pot is desired, a masa is added. This masa is ground corn mixed with water to form a paste. It is put both inside and outside of the vessel at the moment it is removed from the fire, and while it is still red from the heat. After the pot is cold, the masa is removed.

Rubber. The use of rubber does not seem to be very ancient with the Boruca. The gum from the wild rubber tree which abounds in the vicinity (Castilla fallax O. F. Cook) is

[&]quot; Skinner, 1920, pp. 66-67.

occasionally used on the dug-out canoes. This rubber has to be beaten before applied. It is put on cracks or fragile places in the boat, and the glue from the tuskra' palm (see p. 19) is put on top of this (see p. 15). Pieces of old rubber inner tubes collected from the coast are used by the boys for sling shots (see p. 8).

Skins. Hides are sun-dried without any preservative, buzzards and chickens being allowed to pick the skin clean. They are used for beds (see p. 13), to dry cotton (see p. 16), corn, and other grains (see p. 9), and for drums (see p. 29).

Wood and Stone. Wood is important for the houses of the Boruca (see p. 11), for the low benches, mortars to husk grains, shafts of agricultural implements, weaving implements, canoes, fishing gear, and, occasionally as hives for bees. The only use of stone at present is for grinding corn and cacao.

The first four hours of the day are told by cock crows.32 The Indians talk of the "first crow of the cock; the second," etc., up to the fourth. From then on the telling of the hour is dependent on the breaking of dawn and the sun. The Boruca also watch the moon, using its various stages during the month as a gage for planting and even for cutting a tree. They also calculate the divisions of the year by the

MEASUREMENTS OF TIME
day are told by moon as well as by the calendar of the ladinos.? Most of the Indians have no conception of their age. The numeral count of these people runs from one to eight, Spanish being used for the remaining numbers. Foodstuffs are measured by hand-fulls or by gourds. There does not appear to be indigenous methods for

Miscellaneous. Candles are made from

wax of the jicote, a wild bee, and from the

wax of the wild wasps. Clothes are washed

with jaboncillo (Leguminosae sp.). This is a

vine which grows near the river Diquis. The

roots only are used, and are cut into pieces and

mashed. When mixed with water, suds are

produced, and it is an effective cleansing

agent. Brooms are made of fern leaves tied

to wooden handles. Cocoa-butter is found in

every Boruca household. The women rub it

in their hair so their hair will shine. It also

has a common use as a salve for certain reme-

dies, such as boils or sores on the legs. To

make the butter, the cacao bean is roasted and

then boiled. The grease rises to the top, and

then is skimmed off and put on a bijagua leaf

(see p. o), or in a gourd, to cool and to solid-

ify. The liquid remaining in the pot is drunk.

This is called tivia in Spanish and kao in the

Birth. Before the birth of a child, as well as after the birth, the house is purified with the incense of copal (Protium costaricense [Rose] Engler) (see p. 24), mixed with castor oil, or, sometimes, with the oil from the copaiba or camibar tree (Prioria copaifera Grisch.) which grows in the Diquis Valley. The oil is used only as a binder, and to add to the burning quality. This mixture is put in comales (see p. 19) under the bed. The mother is given a purgative of cordoncillo (see p. 11), both before and after the birth, and is also given the liquid left from boiling the bark of the camibar tree. The umbilical cord is cut with a knife made of cane, caña blanca (see p.

"Pittier, 1941, p. 84, also calls attention to this fact.

8). The end of the cord is burned with tocolote, the colored cotton. White cotton is not used. The cut part is buried where the child is born. In cases when the cord is slow to fall off the infant, the dust from the bajareque of the house wall is mixed with cinnamon and applied to the babe. After birth, the child is bathed in the liquid remaining from boiling three plants. One is a grass which grows in the savanna and is called trik-kra'. This is a very fine grass that has a little root resembling tiquisqui and yellow blossoms. The other plant grows by streams and is called to su-kra'. Pittier does not mention trik-kra' but cites tshu-krá,33 and gives the same use for it. Standley,34 following Pittier,35 spells the Boruca name as tsú-krá. Both writers identify the plant as Cuphea utriculosa Koehne. The third composite of the bath is the bark of a tree growing along the Diquis River, which tree is called sotacaballo in Spanish (Pithecolobium latifolium [L.] Benth.). It is supposed to give luck and strength, because of its hard wood, to the child. The baby is then given a bracelet, and, frequently a necklace, which are made of tiger and caiman teeth and black and red and black seeds called neno or nene in Spanish, the black come from the, male tree, and the red and black from the female. Pittier reports a similar seed used, but does not give its name, merely claiming that it comes from a small tree (palo). In addition, he adds, that the metacarpus of the wood rat and the second joint of the leg of the beetle or a member of the Coleoptera family, and the skulls of guatusas, a member of the rodent familv, were used on the bracelet, strung on cotton thread, and wrapped three times around the arm. He states that this was to plant virtue in the child's heart.36 Today, none of these lastmentioned items are seen. Even the teeth, which are used at present, and are supposed to bring strength to the child, are often replaced by coins.

The mother is bathed for three successive days with a liquid made from boiling the leaves of the guayabo tree (see p. 6), and the leaves of the kust or sotacaballo to strengthen her. In addition to this, she does not drink milk or coffée, nor does she eat pork, nor wet her hands, nor touch food in the kitchen for fifteen days. She does not resume relations with her husband for forty days. However, at least four times a day, she drinks a brew made from the root of kuik s or cordoncillo (see p. 11) This is taken to stop the lochia. The mother is up after two days, at the most, but does not resume regular work for eight days.

When the baby is between nine and ten months old, he is weaned, and fed atol made of rice and of corn.

X Puberty. There is no evidence of puberty ceremonies. When girls begin to menstruate, which occurs between twelve and fifteen years, they are given kuikf as to drink so that

they will not flow for long. The women say that only "stupid ladinas" flow for days and days. It is said, the kuikf as stops the period usually within three days. Four days are considered too long a time. A cloth is used to catch the flow, and some women say that formerly mastate (see p. 18) was used. Some women also say that, at present, nothing is used, and the blood is allowed to drip down the legs. The only tabu on women during this period is that they cannot participate at a fiesta, nor can they serve chicha or food to the men. The menstruating women can watch the gaiety, but must stay apart. x

Education. Both sexes as children help in the fields, and the girls assist in the kitchen from a very early age. They also learn to make thread, but very few show interest in weaving. The boys make string bags, rope, and hammocks, and sometimes learn to carve gourds.

The Boruca children are sent to the local school which is run by the Costa Rican Government. The school masters, two in number, are from the central plateau, and until recently, little or no interest was taken in their job. They often were young men who were forced economically to take a post in an outlying Indian group, and who resented the fact, living only for their vacation and the day they might have sufficient friends of influence to permit their transfer to the capital. As a consequence, they frequently lived with Indian girls, and occasionally produced children whom they never bothered to support. The present inspector of the Indian schools and the actual Government, however, are doing their best to change much of this. The Boruca language is being encouraged and taught along with Spanish. A large blank notebook is being filled with the help of the older generation, and an attempt is under way to gather legends. One thing is certain, the younger generation is now obliged to study their own language. This was unheard of a few years

Marriage. There is no particular ceremony in connection with marriage amongst the Boruca. The few customs that did exist are

Pittier, 1888, p. 93. " Standley, 1937, p. 761, pt. II.

[&]quot; Pittier, 1908, p. 162.

^{**} Pittier, 1888, p..93.

slowly disappearing. In some families, the parents of the girl still arrange the match. There are, however, no exchange of presents, not any similar ceremony, only mutual agreement. In the majority of cases, the young people decide for themselves with whom they want to live. Whether the match is prearranged or not, a system of trial-marriage is always customary. The young man moves into the house of the girl. He helps her family with work in the fields or hunting, and he lives with the girl. There is no sort of ceremony. When the couple feel contented with one another, and ready for the responsibility of their own household, they build themselves a house and leave the parental one. Nowadays, when the priest appears on his bi-vearly visit, the couple frequently marries in the church. and it is quite a sight to see long-married couples with children, and who have suddenly decided to have a formal marriage ceremony, line up before the church door to be "married." On these occasions, a "marriage shawl" is sometimes used. This is a substitute for the colonial Spanish-American custom whereby the priest in Roman Catholic marriages places a gold chain over the couple. The shawl is handwoven with a white background and a few purple and red lines. The red lines are shorter and border the ends. They are woven in a diamond-shaped pattern. The present shawl is about fifty years old, and is badly eaten by moths and bugs. It is so seldom used that it will probably be permitted to fall into decay without being replaced.

The tribe itself is not concerned with "morality" in the western meaning. Both men and women often have a lover in addition to their spouse. Unlike the neighboring Cavagra, who have remained more isolated from white influence and are often blindly jealous of their women, the Boruca pay little attention to sexual wanderings. A man gives his love food, and nowadays, occasionally money. A woman takes her illegitimate child home to her husband's house. The cases of illegitimate children are interesting in that a woman apparently has a child only when she wants one (see p. 16). The writer could find no case of divorce in Boruca, although she was told that

nowadays it does exist particularly amongst the Indians who have contact with the ladino-populated coast. Formerly, it was unknown, but today a man leaves a woman, or a woman a man, if they feel like it.

Death. Whatever ceremonies existed amongst the Boruca in regard to death have almost entirely disappeared. It is interesting that the Boruca do not cry at funerals. At the wake, there is a feast the size of which depends upon the economic status of the deceased. Coffee and chicha are always served as drinks. The women put the body, at times with the hands folded as in prayer, on a long wooden bench or on wooden tablets, and cover it with any piece of cloth available. Three candles are placed alongside the body, one at each side of the face and one at the end. Sometimes, a candle is put by the feet. Prayers are recited all night during the wake. In the morning, men tie the body with fiber rope to the bench or planks, fastening to them two poles horizontally to serve as handles, and generally carry the whole to the church. Here an Indian, the warden, officiates in the absence of the priest. After the Mass, or the few prayers if there is no priest, the body still on the bench (see fig. 10, a), and still covered with cloth, is carried by the men to the cemetery, friends of the dead following. Here, bench and all, it is deposited in a shallow grave (about 4 feet), and very infrequently, leaves or flowers are scattered over or placed on it. When the deceased leaves no relative, his extra clothes are placed under his body and used as a bed in the grave. If the dead has enjoyed a good position within the community during life, then a small tunnel is made in a side of the grave, and the body is placed there. This is called a "tomb." When a child dies, the body is tied in a white cloth and the one accordion in the village is played all the way to the gravevard. The whole town accompanies the body.

One year after the death of an individual, the Boruca celebrate what is known as the "birthday" of the death. Another feast is given at the house of the deceased. This feast must have a lot of chicha, and often lasts until the following morning or until the chicha disappears.

SOCIAL, POLITICAL, AND ECONOMIC ORGANIZATION

Land Tenure. The Boruca consider the territory in which they live as the property of the tribe at large. Legally, the Costa Rican Government has not yet made a reservation of this section. This is due, perhaps, to the relative remoteness of the area from the towns of the central plateau, and to the very broken nature of the terrain. It may also be partly the result of the hostile attitude of the Boruca to any stranger desiring to settle, amongst them. No non-Indian has property in this region.

Each family has from three to five manzanas? for their own use, often as far as a league (3 miles) from the village. This is their "farm, and is worked continuously until the soil runs out, then a new spot is selected, and the forest cleared to start again. The village, as a whole, has a manzana for cultivation for the church. Each individual is required to do his share of work on this land. The Indians go in groups to clear the field and to plant it with corn, rice, beans, and sugar cane. Formerly the church had cattle, but this situation no longer exists in Boruca. When the crops are gathered, they are stored in a special room in the parish house to be kept for the use of the priest on his bi-yearly visits, or for the poor when the farming year is bad. Unfortunately, nowa-, days, this custom is slowly disappearing.

It is said that up to only a few years ago, the town also had its field, and that there were no individual small farms as there are today. The great number of barren hills which are commonly called "savannas," and which clearly retain the vestiges of former tilled rows (see fig. 10, e), serve as silent proof of the authenticity of this tradition, as well as to the Spanish reports of the great number of Indians who inhabited this region at the time of the Conquest. The savannas today are of particular importance to the Boruca. Économically, these savannas furnish the roof of the house (see p. 12), and the food for the few animals which these Indians possess. Besides this, they yield a grass that is considered necessary to use in the bath of the new-born child (see p. 20), and a grass which is often used to make maracas (see p. 29). Consequently, no one is allowed to fence off the savannas, and the Indians complain bitterly because many of these fields are being lost to nature, who is reclaiming her own.

Property and Inheritance. The oldest male member of the family distributes the property at the death of an individual. If the male members are too young, then the oldest female member does the dividing. Concerning the property, we may judge the economy of the tribe as a whole, more or less clearly from the situation in Boruca, the largest single community of these people.

Cattle is a rich man's privilege in Boruca. Amongst the three hundred and twenty-four inhabitants, there are only one hundred cows. These are owned by sixteen individuals, no man having more than six. There are forty-seven houses in the town, however, and there is an ox for the majority of the households, at least one or more pigs, and numerous chickens. In addition to this, there are four bulls, each one with a separate owner, and twenty horses divided amongst six people. The pigs are raised to sell to the ladinos and to eat. The cows are seldom killed, but are used as a medium of wealth, to sell, or to pass on as an inheritance. The cows are seldom milked.

Social Organization. A few vestiges of an older communal relationship are seen in the former lack of individual farms, and today, in the juntas or "get-togethers" of the Indians. When a new house is to be built, the man who wants to erect it calls upon his friends for help. after he has collected the necessary material. They all join together, and the construction is ready in a short space of time, the owner giving chicha, and often food to the helpers. It is interesting to note also that on one day a year, designated now by the police chief, but formerly by the council, the men gather to cut the grass and to "clean" the village of : Boruca. They go systematically from house to house, and cut all the weeds in sight. This helps to maintain Boruca as a cleared, sanitary

Political Organization. Most traces of political organization have disappeared. The outstanding authority is the police agent, who is an Indian, but is appointed by the Government of Costa Rica. He is, however, de-

pendent to a certain extent upon what remains of the former all-powerful council. The council is composed of the four or six oldest men, and they approve or disapprove of the police appointment. If they disapprove, a new agent has to be named. Formerly this group selected the cabildo, but this has disappeared today. The chief duty of the council is to select the first and second mavordomos of the church, and the two women who are to cook for the church. These personages function during fiestas or the visits of the priest, and are appointed yearly. If there is a change in the personnel, the former mayordomo has to hand over all the religious symbols and whatever money there may be to the new one.

Exchange and Distribution of Goods. The Boruca amongst themselves are in the habit of exchanging foodstuffs. If a family lacks a certain commodity, for example corn, a transaction can be made with another party on the strength of a promise to return the item at the next harvest. The personal Word of one Indian to another is very respected.

Salt (see pp. 8-0) was formerly an item of trade with the neighboring Térraba, Cabécares, and Bribri, who inhabit the areas farther inland, as well as with more distant Talamancan peoples. Reports of Boruca trade with salt as the chief article of commerce exist from as early as 1607. In that year, two priests, Francisco de San Joseph and Pablo de Rebullida, from the Talamancan missions, wrote:

.... these (Indians) bargain with the Borucan and Texabas (Térrabas), they give them cotton "mantas" (skirta) painted which serve as covers on tables and cutrains, and the Borucas give them salt, axes, machetes, dogs, and other things,"

Pittier ³⁸ noticed that in the latter part of the nineteenth century, the Borucus frequently went to Puntarenas "carrying hides, occoabutter, blackberries, pineapples," etc., and that on the return trip, they brought "articles of prime necessity." He notes also that the Viceitas, a Talamancan people, came in August to trade with the Terraba and the Boruca. The Viceitas brought "cacoa, hammocks, bags, iron pots, knives, and various objects of English and North American manufacture. They exchanged these goods for mantas, salt, calves, turkeys, dogs, etc." And that they also sold a certain kind of white manta which was larger than that of the Borucas.

The Viceitas, who are the Bribri, still come around August, and are famous for their bags and hammocks. Practically all of the string bags and the best hammocks found in Boruca are of Viceita manufacture (see fig. 8, b-2, 4, 7). As late as 1942, the Boruca would exchange a kilo of salt (rock salt) for a cow or several calves, or a smaller amount for copal, which does not grow around Boruca. but is common in the Talamanca mountains, or for mastate (see p. 18). Since 1942, however, the Government monopoly on salt has tended to stop this ancient custom. The Boruca have had to make their salt more or less in contraband, and to reserve most of the little salt they are able to make for their own use. This, and the high price of Government salt has left the other tribes, and in particular the poorer Bribri in such straits that they are forced to frequent the salitres or salt deposits which are found in their area and chew the earth as cattle do in order to extract the mineral.

RELIGION, MAGIC, ETC.

The Boruca are professed Roman Catholics. The priest visits the community about twice yearly, and baptizes, marries, and confirms all at once. Very little vestige of old beliefs remains, and those that do, are generally well disquised with a covering of Catholicism. On the day of St. John the Baptist, the Boruca go at midnight to the creek which runs through the town and bathe. December

" See Informe, 1697.

eighth, the Roman Catholic feast of the Immaculate Conception, is the religious holiday of the town of Boruca, which we must remember is called in Spanish "Nuestra Señora de la Concepción de Boruca." This is the time the priest makes one of his bi-yearly visits. Mass is held, after which the people hold a solemn procession throughout the village, up and down the rolling hillocks. The Virgin of

the Immaculate Conception is carried, in the procession, by four women picked by the priest. A food bazaar is held in the church vard, and the only ancient vestige that can be seen is the dance of the negritos (see p. 29), who generally precede the procession, but sometimes appear later in the day. This variation depends upon the priest. Frequently, the priest feels that the dance is too pagan and should not be performed in the solemn march.

Superstitions and Beliefs. There are certain superstitions and beliefs peculiar to the Boruca which may be associated with their former credence. When planting, the Indians? water the newly sown seeds with water mixed with soil from the cemetery. This is supposed to keep the rats and other rodents from eating, the seeds. All the Indians are afraid of thunder, believing that it is closely allied with bad luck. When it thunders in the hills on the east side of the Diquis or Térraha River the Roruca say that a large snake is moving his tail. This snake used to live near El Sapo, in these hills, but when Monsenor Thiel, the former Archbishop of Costa Rica, passed through this region on one of his missionary trips, the snake moved, from fear of the Archbishop, to the headwaters of the Balsar River, west of the Diquis River. Here he is today, in a very steep and isolated spot where no one can find him.

When it thunders toward the south, they claim that the two pejibaye palms which grow on the summit of the Hill of the Sorcerer are angry. The wind that blows at night is a soul in pain. It is interesting that the Indians still tell, and actually believe, that without the help of the sukia 38a there would not now be game around Boruca, and so, of course, all the people would have died. They say that eightcen years ago there was no game in the vicinitv. A sukia from Talamanca was summoned. He went to a high mountain which lies south of the present village of Boruca. This mountain is called "El Cerro del Encanto," or "Hill of the Sorcerer." A great noise was heard. When he returned, there were many wild peccary in the neighborhood. They still recount and believe that "Tatica Cuazarn," the mythical sorcerer who lives on the Hill of the Sorcerer, used to visit Boruca

See below.

and drink and eat with the people. He was always dressed as an old man, and none knew him on these visits. He came incognito so that he could find out what in truth was passing amongst his people. Although the Indians say that formerly the Hill was a gathering place for their secret tribal meetings, no Indians will go there today, even though there are supposedly wild cattle there, and cattle are economicaly very important to the Boruca. This cattle is held to be the property of "Tatica Cuazarn," and cannot be touched. The Boruca recount that one of them went to the Hill hunting, and saw a man bathing. He started to shoot the man, but his gun wouldn't go off. This man was, of course, "Tatica Cuazarn." Cuazarn has a son who is called Sankrao, and who lives in the mountains of Golfo Dulce.

North and west of Boruca, there are certain lagoons which the Indians do not like to pass, and never will go by them if they are accompanied by dogs. One of these lagoons is the "Laguna de Danta." Here, "Mamram" is supposed to dwell. "Mamram" in Boruca signifies witchery.

If one goes hunting, it is not good to say to him, "God be with you," because one will have bad luck.

Sickness, Curing, and Shamanism. Shamanism as such is not practised any longer amongst the Boruca. Formerly the Boruca had real shamans, whom they called bruk-bri, but they have long since disappeared. The power of the shaman, however, is still respected, and when a grave sickness appears, or a great misfortune affects the tribe or village, the bruk-bri is sent for from some of the Talamanca peoples, chiefly the Cabécares. These peoples call the shaman, sukia, and the one who travels to Boruca is known as the cacique sukia, the title being derived from the word for shaman and the widespread Costa Rican word for chieftain. The cacique sukia is held in deadly respect by the Indians. Chicha, as well as the most attractive girl in town are offered to him on his visits. When curing, the sukia stays outside behind the house, all night, and smokes incessantly. He then enters and blows smoke on the patient. The sukia does not accept money, and only at times will take presents of a pig or food.

[&]quot;Pittier, 1891, p. 105.

trade.

The witch doctors do not receive the same reverence that the sukias receive, even though the witch doctors are Boruca Indians and have more opportunity to practise on the people. This, and the fact that the witch doctors are women, while the sukias are male, may, of course, be the very reason why they are not feared. At times, however, the sukia has been known to teach the witch doctor some of his secrets, and it is certain that the curandera is highly respected by both sexes. Although the curandera is principally interested in female sicknesses, both men and women consult her.

Strangely enough, the most intimate details of the life of a patient are discussed openly with the witch doctor, even in the presence of a member of the opposite sex. Unlike the sukia, the curanders will accept pay for her services.

In addition to her use of plants, the witch doctor sometimes employs some form of sor-cery to impress her patients. A favorite method is to tie a thread, preferably a silk one, around the little stones called sukia stones, which are found in the ancient graves, and to hang them from the hand or from the ceiling of the house. The curandera reads the answers to the questions asked her by the patient from the manner in which the stones swing.

One of the most important functions of the witch doctor appears to be the control of birth. The Bortaca have long been famous for having children only when they feel like it, not using an abortive, but a preventive or a provocative, as the case might be. They are very reticent to admit even the existence of such a practice, however, through fear of the priest and of the Costa Rican Government, which in the past has persecuted the Talamancan peoples for this, as we shall see further on.

Both processes are brought about by taking certain liquid preparations given by the witch doctor. The sterilization process is called a curada, and when a woman has one or two children, the Indians say quite frankly that she is curada. It appears possible to be curada and then go to the curandera and become pregnant when one wants. Both remedies are drinks made from certain leaves, fungi, roots, and ferns. The sterilizing brew must be taken for fifteen days, stopped for fifteen days, and taken again for fifteen days. If badly prepared or taken too consistently without the interval in between, the drink is said to kill by causing hemorrhages. The neighbors of the Boruca all have, at least, the remedy to stop conception. The Térraba 39 do not practise it so often today, as the Roman Catholic Church has apparently had more influence on them. The Térraba claim that their population has decreased violently since the past century because their women made themselves too sterile, and both sexes began to live together in any manner. They add that because of this, a curse has been put on them and they are dying out. It is a pity there is no census record to serve as comparative material. All of the remaining Talamanca peoples, such as the Bribri, the Chirripó, and the Cabécares, seem also to know this custom. In an unpublished report of Fathers Vincente Krautwog and Augustín Blessing of several trips made by them to the missions of Talamanca in the years 1894 to 1902, the originals of which are in the parochial archives in Limón, Costa Rica, the following statements are significants

The women of the Estrella (valley) have very few children, because of certain remedies which they take without misgiving, publically, in order not to have off-spring. (These Indians were living in Caña

I hardly baptized a baby, because a large portion of the women are sterile through a remedy which they take, be it from being deceived, be it from being lost, be it from their own evilness, taking and masticating in the woods the bark and the juice (sap) of dangerous trees. There are about four old women who are most guilty: María Caferina and Margarita in the house of Simeon, Rosalia, mother of Luis Ouirós, and María, called "camisa," mother of the woman who lives with Miguel Medina, some four hours distant from Simeon. The evil of this "cure" ("curar"), being so alarming, I wrote a letter to the Mayor (Alcalde) don Lucas Alvarado, in which I authorized the authorities of Estrella to at least threaten these criminal women, in case they could not be intimidated, to take them prisoners to Limón, I attacked strongly on a thousand occasions this

The above was written in the year 1894. In 1897, we find the following:

The great evil of taking means not to bring forth young, is disappearing, and once again children are being born.

In Buenos Aires which is situated between Boruca and Talamanca, the Chiricano women are said to drink a preparation made by boiling the leaves and stem of Justicia tinctoria ([Oerst.] Hemsl.) and drinking a gourd of this three times daily the first day of menstruation. As yet, we have not been able to verify this usage, but it is a curious fact that in the majority of the yards of these people this plant is found. The excuse given for this plant is that it is used to wash clothes, serving as bluing.

The medicine to induce pregnancy is apparently more complicated than that to stop conception. The following is an analysis made by Dr. Reif in the United Fruit Company laboratory in La Lima, Honduras, of this medicine from the Boruca Indians:

A brown liquid with some flocculent precipitate and a strong odor of hydrogen sulfide indicating purition of organic matter. It is an aqueous solution containing some transins but no alcohols, alkaloide or saponines. After evaporation of the liquid and removal of hydrogen sulfide smell, a strong odor re-

sembling that of Castoreum remained. This odor is possibly derived from glands of some tropical animal since beavers do not occur there.

The tannins would indicate that some bark or barks were used in the preparation. Microscopical examination of the residue did not give any clues.

A few places where such practices as these are known are Africa, the Fiji Islands, and Ecuador.

The following is a list of the more generally known cures used by the *Boruca* and usually prescribed by the *curandera*.

Malaria is treated by drinking the liquid left from cooking the bark of a tree called hombre grande (Quassia amara L.), and sometimes, from boiling the fruits of the cedrón (Simaba Cedron Planch.)

For stomach-aches, a vine called in Boruca so-kra' (Philodendron sp.) is boiled with the ever useful Kuiki as (Piper spp.), and drunk.

Dysentery in adults is treated by boiling the bark of the Maria tree, the guava tree, the leaves and the yuca-like root of the contraverva (Dorstenia Contrajerva L.), and the ripe vanilla pod (Vanilla fragrans [Salish] Amies).

Rheumatism is treated by rubbing the afflicted parts with the oil of the copaiba tree.

To stop boils, the leaves of the kana kra' (Conostegia extinctoria [Bonpl.] D. Don.) are used in combination with a lard made from the marrow of the leg bones of a cow and lemon juice. The lard helps to keep the leaves in place, and is supposed to aid in drawing out the poison.

For snake bites, some Indians, but not all, as the majority go to a sukia for this, use the leaf of the guaco (Mikania Guaco Humb. & Bonol.). They mash the leaf, soak it in water. and then put it on the afflicted parts. Another remedy for snake bites is to use the bulb or root of the Strychnos or curarina vine (Strychnos toxifera Schonb. ex Benth.). This is cut into pieces and mixed with the guaco leaf and boiled very well. The resulting liquid is drunk. The most effective remedy for snake bites. however, seems to be the resin from the caraña tree (Protium spp.). This tree grows on the coast, particularly near Dominical. The resin is mixed with honey and is both drunk and applied to the bite.

[&]quot; See Pittier, 1891. p. 93.

The "Mamram." These are two bewitched women. They were orphaned girls who were from Boruca, and who used to fish the crabs and the crayfish in the creek which runs through the town. Each day, as they exhausted one spot, they moved a bir further along the water course, until one day they disappeared completely and did not return.

The shamans, however, found the girls, and tied them up, then moved them to Barranco. You know they are there today, because you can see the stones of their hearth. Their bodies are covered with hair, and they are ugly, nor only in appearance, but also in character. They are very mean, and have bothered people so much in the vicinity, that more than one community has had to move. The last place they destroyed was Camakrán by Paso Caraccol.

The Grandfather of the Volcano. A long time ago, the grandfather of the volcano fell in flowe with a girl and took care of her. She became pregnant. He brought her partridges, wild turkevs, particles, wild hogs, wild pigs, and deer. The girl had a son, and she took care of him and raised him until he was six. Then the father came with a great wind and took the boy from his mother, and carried him to his house.

The father continued to visit the mother nightly, however, bringing her dried meat. But the mother would say, "My child is what I want. Where is he?"

The father did not like this, and moved the boy to a different place, and gave him the name of San-kra'-ua so that the mother would not know where he lived.

The Serpent. This is a legend which is concerned with the creek and site of Boruca itself. The hole mentioned in the story is still pointed out between two of the undulating hills in the town. The serpent has a mystical connection with the serpent who thunders by ratting his tail, and with the Laguna de Sierpe which forms one of the seven mouths of the Diquis River.

The serpent lived in the hole. He came out, and the woman was behind him at the edge of the entrance. The snake waited for her to give him chicha so he would become drunk, and they would embrace. Then she laughed with the snake. Then they bathed together in the Diquis River. Then the snake went to sleep in his hole, and the woman went to her house to make more chicha, so that day-after-tomorrow again the snake would become drunk. Thus they behaved.

Then the woman became pregnant by the snake. Then the people and the sun knew. Then the mother of the girl bewitched him, so that he was hurned hanging.

that he was burned hanging.

Then the girl gave birth, and the people stood by ready with machetes to kill the little snakes. They were ready with machetes and with sticks. One little snake did not have a tail. The mother of the girl burned them all. Nothing remained but ashes. The mother felt sorry, and cried for her daughter.

It ends here. All of it.

The Legend of the Kagōera. The Kagōera were a branch of the Boruca who lived at a site called Vanilla between Curré and Lagarto. They were in the habit of making frequent visits to Drake's Bay, on the coast near the Osa Peninsula. The Kagōera could be distinguished from the rest of the tribe by a golden plaque which they wore on their fore-

Among the Kagoera was a brother and a sister who lived together as a married couple.

When the sister became pregnant, the sukia or medicine man was very angry and ordered that she be eaten by three tigers. To carry this out, the sukia waited until the woman was in a certain spot, and then made her unable to move. He ordered a man to climb a tree to watch and to report what occurred.

At four o'clock in the afternoon, the three tigers came out of the woodland roaring and went right to the woman. Two were spotted with black and one was a yellow lion. The watcher saw them play together and pet her. The woman remained frozen. When they tired of playing, one of the spotted tigers killed her, and they all ate her, all of her, until not even a drop of blood was left to tell the tale.

The watcher was so frightened that he could not get down from the tree until the following day. The rest of the tribe also came at daybreak to find and to talk to him who had witnessed the death of the woman who because she became pregnant by her brother furnished the example for the law that whoever should copy this act would be severely punished.

THE ARTS

x Music. There are very few genuinely aboriginal instruments left amongst the Boruca, and in public, they play no music that can definitely be called their own. The maraca, or rattle, is undoubtedly pre-Spanish, as frequently clay maracas are found in the early graves. The modern maraca is generally made of a gourd and often has little holes at the base to give more sound. The gourd is filled with little round black seeds called takra', and attached to a bone handle (see p. 18). Rattles or maracas are also made by men and women of a grass (Arundinella Deppeana Nees.) which grows in the savanna. This grass is called suge-ra' in Boruca, and cola de venado or cola de chivo in Spanish. The upper portion when young is purplish, while the lower part and the old grass is the color of straw. The Indians use both the old and young grass, thereby giving the rattle two distinct colors. It is woven with the fingers, the weave used being called ra-ta' (see fig. 10, c), and the finished product is filled with corn to make it sound. Drums are round (see fig. 7, c-5), and made from a piece of the trunk of cedar or of balsa, and, very occasionally, of the covol palm (Acrocomia vinifera Oerst.). Both ends are covered with wild peccary hide and fastened with thongs of the same hide. They are played by hand without sticks. A chirimia or flute-like instrument is made of cane and wood, and is used in a burlesque dance of bullfighting on the first of January, as well as on the eighth of December with the negritos. The zambombia is an instrument of the Boruca

which has probably come to them through

contact with the Chiriquians. The zambombia is a hollowed stick divided inside into separate compartments. The divisions are made with pieces of the pejibaye palm. The same black seeds used in the maracus are put in these compartments, and the zambombia is moved backward and forward to produce noise. In the village there is one accordion which also is played at celebrations.

The music on these occasions is almost entirely copied from the Chiriquíans who in turn have received a considerable negro influence. Waltzes are also popular, and some foxtrots are heard

y Dancing. The Boruca are said to have secret dances. Their two public dances, if so they may be called, that are not copied from the Chiriquians, are the "bullfight" and the negritos. The "bullfight" takes place on New Year's Day. A balsa (Ochroma Lagopus Sw.) mask of a huge bull's head painted in black with white lines, and with the horns and the upper part of the skull from a real bull, is put over a framework of a curved piece of wood that has a supporting wooden cross piece. This helps the whole to project from the head of the wearer in the manner of a real bull's head. The mask is usually worn by one of the young bloods of the village. Another man wears a balsa mask of one face with a little face on the chin, suggesting a dual personification (see fig. 10, b). These are the only two "characters." Almost all the men in the village, however, put on balsa masks of various types, some with gaily colored paper pasted on the surface, some painted, and some perfectly plain. The

* Pittier, 1941, pp. 93-94-

object of the "dance" is that all the participants "fight" the bull, the wearer of the two-faced mask being the real "matador." At the end of the "dance" the "bull" is tied and supposedly strangled. This "fighting" is done to the accompaniment of the chirimia, maraca, and drum (see p. 29) to say nothing of the shouts of the various dancers. On New Year's Eve, the Indians dress in banana leaves and masks, and go to one another's houses, and, according to some, to a secret place to celebrate. On the eighth of December, the council chooses three or four men who represent the negritos or black men. They paint their faces with mud and soot, and adorn themselves with the skin of the jaguar or other animal of the forest. One man dresses as a black horse, using for this a hoop-shaped piece of cane from which hangs black cloth cut to represent a horse. The man steps into the center of the hoop and wears it hanging from his shoulders by fiber ropes. The drum, chirimia, and maraca accompany these merrymakers who dance around, bow to people, play tricks on people, and beg drinks from anyone they chance to see. In fact, they dance from house to house and at each stop are usually given a drink of chicha. The dance itself dates from Spanishcolonial times, and is performed today during religious feasts in many communities from Mexico through Guatemala southward, including the town of Nicoya in the peninsula of that name in Costa Rica.

The other dances which are performed in public are danced only by the younger generation. The steps are entirely borrowed from the Chiriquians, who formerly and even still inhabit much of southern Costa Rica. The favorite dances are the cumbia, the punno Chiricano, and the waltz. All of these, with the single exception of the waltz, are danced individually and not by a couple holding one another close.

Games and Gambling. The *Boruca* are not a gambling people. They appear to have no interest in any sort of gambling. Dice are almost unheard of, and perhaps one pack of cards can be found in the whole village.

The boys have a game called cuepar. This is played with round pieces of bee's wax shaped almost like the cap of a pop bottle. One of these are placed face down, and a boy throws a similar piece on top of it. If the result of the impact causes both pieces to be face up, the boy who threw the cuepa wins, and takes the other cuepa as well as his own. If the result is otherwise, he loses his cuepa. Boys carry a ball of wax in their pockets for the express purpose of making cuepas.

Tops, made of wood with a nail serving as

Tops, made of wood with a nail serving as the pointed end, are also seen. They are not very popular, however. REFERENCES

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APPENDICES A-C

Acknowledgment is gratefully extended to the Botanical Museum and the Museum of Comparative Zoölogy for help in the verification of the botanical and zoölogical terms, appearing in Appendices A and B.

APPENDIX A: PLANT NAMES

APPE	ndix a: plant	NAMES
ENGLISH	IN COSTA RICA	SCIENTIFIC
	A	
alligator pear	aguacate	Persea americana Mill.
anda-riel (see bejuco de hombre)		
Arundinella	cola de venado	Arundinella Deppeana Nees.
	cola de chivo	
	R	
balsa	balsa	Ochroma Lagopus Sw.
banana	banano	Musa sapientum "
hanana	guineo morado	
bean	frijol	Phaseolus sp.
bejuco de fierro (iron vine or bejuco	bejuco de fierro	perhaps Anthurium scandens (Aubl.) Engler;
negro)	or	Cydista pubescens Blake
	bejuco negro	
bejuco de fuego (fire vine)	bejuco de fuego	?
bejuco de hombre (man vine) or anda-riel	bejuco de	?
(rail vine)	hombre or	
(12h viic)	anda-riel	•
bijagua	bijagua	Calathea insignis Petersen
bijagua, black	bijagua negra	Calathea spp.
bluing	azul de mata	Justicia tinctoria (Oerst.) Hemsl.
Boruca bean	frijol de Boruca	variation of Phaseolus vulgaris L.
	С	
cabuya	cabuya	Furcraea spp.; also Agave spp.
cacao or chocolate	cacao	Theobroma Cacao L.
cane, white or wild	caña blanca	Gynerium sagittatum (Aubl.) Beauv. (sac- charoides Humb. & Bonpl.)
capulin, white	capulin blanco	Muntingia Calabura L.
caraña	caraña	Protium spp.
carbonero	carbonero	Guarea guara (Jacq.) P. Wil.
cashew	marañón	Anacardium occidentale L.
cassava (see yuca)		
castor bean	castor	Ricinus communis L.
cedar	cedro	· Cedrela spp.
cedrón	cedrón	Simaba Cedron Planch.
chocolate (see cacao)		
chumico	chumico	Curatella americana L.
coffee	café	Coffea spp.
Conostegia	kana kra'	Conostegia extinctoria (Bonpl.) D. Don.
contrayerva	contrayerba	Dorstenia Contrajerva L.
copaiba	camibar	Prioria copaifera Griseb.
copal	copal	Protium costaricense (Rose) Engler
	37	

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38	THE BORUCA OF COSTA	A RICA		APPENDIX A: PLANT N	AMES 39
ENGLISH	IN COSTA RICA	SCIENTIFIC	ENGLISH	IN COSTA RICA	SCIENTIFIC
cor Ioncillo	cordoncillo	Piper spp.		N	
com	maiz	Zea Mays L.	nance	nance	Byrsonima crassifolia (L.) DC.
cotozo bajua	corozo	Corozo oleifera (HBK) L. H. Bailey	nene or neno	nene or neno	Abrus precatorius L.?
cotton	algodón	Gossypium peruvianum Cav.	ñampí	ñampi	Dioscorea trifida L.
cotton, colored	tocolote	Gossypium peruvianum Cav.	•		
covol palm	coyol	Acrocomia vinifera Oerst.		0	
Cuphes	tshu-krá	Cuphea utriculosa Koehne	ojoche	ojoche	Brosimum terrabanum Pittier
•	D		ojo de buey	ojo de buey	Mucuna urens (L.) DC.
disciplina palm (dwarf)	disciplina	Chamaedorea sp.	orange	naranjos `	Citrus sinensis (L.) Osbeck
	E			P	
espavel	espavel	Anacardium excelsum (Bert. & Balb.) Skeek	pacaya palm	pacaya	Chamaedores sp.
Elaeis	tuskra ^y	Elaeis melanocca Gaertn	palmilera	palmilera	Socratea sp.
	F	1	papaya	papaya	Carica Papaya L.
fire vine (see bejuco de fuego)		3	pejibaye palm	pejibaye	Guilielma utilis Oerst.
	G		Philodendron	so-kra'	Philodendron spp.
gourd	jicara; guacal	Crescentia Cujete L.	pineapple	piña	Ananas comosus (L.) Merr.
guicimo	guácimo	Guazuma ulmifolia Lam.	pita	pita`	Aechmea magdalenae André
gusco	guaco	Mikania Guaco Humb. & Bonpl.	plantain	plátano	Musa paradisiaca L.
guznacaste	guanacaste	Enterolobium (Pittier, 1941, p. 59 classifier this as Enterolobium cyclocarpum [Jacq.] Griseb.)	poró	рото́	(Probably, Erythrina costaricensis Micheli; Pittier, 1908, p. 163, identifies this tree as Erythrina corallodendron L.)
guava boja le luende	guayabo H hoja de duende	Psidium Guajava L. Bactris minor Jacq.	poro-poro	poro-poro	Cochlospernum vitifolium Willd. (Spreng, according to Standley, 1937, p. 713; Cochlospernum hibiscoides, according to
buiscoy of palm	huisco yol			Q	Pittier, 1908, p. 129; 1941, p. 68.)
	[Quassia	hombre grande	Quassia amara L.
indigo	añil	Indigofera suffruticosa Mill.	Q	boniere grande	Quality and an Ex
înga :	guara	Inga spectabilis (Vahl) Willd.		R	
	J	1	rail vine (see <i>bejuco de hombre</i>)		
jaboncillo	jaboncillo	Leguminosae sp.	rice	arroz	Oryza sativa L.
	L		royal palm	palma real	Scheelea rostrata (Oerst.) Burret
little stick grass	zacate de palito	?	rubber, wild	hule macho	Castilla fallax O. F. Cook
	M			\$	
majagua	majagua	Hampes sp., and other spp	sandbox tree	javillo	Hura polyandra Baill. Pittier, 1941, p. 59,
mango	mango	Mangifera indica L.		,	classifies this tree as Hura crepitans L.
mangfove	mangle	Rhizophora Mangle L.	savanna grass	zacate de sabana	?
man vine (see <i>bejuco de hombre</i>) Maria tree		CLUB L TO CAL PL	sem palm	sem-kra'	Carludovica palmata R. & P.
Statia tree	palo Maria	Calophyllum brasiliense Camb. var. Reka Standl.	Serjania	sierrilla	Serjania cornigera Turcz.
massate, red	mastate	Station	totacaballo	sotacaballo	Pithecolobium latifolium (L.) Benth.
	colorado	Brosimum utile (HBK) Pittier	Spanish plum	jocote	Spondias purpurea L.
mastate, white	mastate	Brosimum sp.? (Pittier, 1941, p. 63, wrongl)		calabazo	Cucurbita maxima Duchesne
Mar	blanco	classified this tree as Brosimum usile)	stilt palm	chonta	Socratea durissima Wendl.
May tree, pink	palo de mayo (rosado)	Vochysia ferruginea Mart.?	stilt palm, black	chonta negra	Socratea sp. or species of similar growth habit
May tree, white	palo de mayo	i	Strychnos	curarina	Strychnos toxifera Schomb. ex Benth.
	(blanco)	Vochysia hondurensis Sprague	sugar cane	caña dulce	Saccharum officinarum L.
		1	1		

IN COSTA RICA	SCIENTIFIC
т	
zacate de come- jén	?
tiquisque	Xanthosoma violaceum Schott
tabaco	Nicotiana Tabacum L.
v	
va in illa	Vanilla fragrans (Salisb) Ames
Y	
yucz	Manihot utilissima Pohl.
itavo	Yucca elephantipes Regel
yuquilla	Curcuma longa L.

OF BIRDS, ANIMAI	S, FISH, AND REPTILES
IN COSTA RICA	SCIENTIFIC
A	
	Dasypus novemcinctus Linn.
	Daijpai novementas Emil.
В	Apis Trigana or
	Apis Melipona?
jicote	Melipona bechii supsp. bechii
cascabela muda	Lachaesis muta
·C	
almeja	?
cangrejo del río	Pseudotelphusa magna
camarón	?
roncador	?
paweel	Crax rubra Linn.
D	
1) cabra	1) Mazama sartorii Saussure
2) venado	2) Odocoilus Boddaert
G	
pava	Penelope purpurascens Wagl.
guatusa	Dasyprocta sp.
м	
lapa; guacamaya	Ara macao Linn.
caracol; morada	Purpura patula Gould
caracol; molusco	Purpura kiosquiformia Duclos
mono colorado	Ateles geoffroyi Kuhl
carablanca	Cebus capucinus Linn.
tepemachin	Agonostomus monticola C. V.
P	
perico	Aratinga canicularis Linn.
loro	Amazona auropalliata Less.
тојатта	Cichlasoma altifrons Kner. & Steind.
chancho del monte	Pecari angulatus Cope
cariblanco	Tayassu pecari Fischer
paloma	Columba sp.
TOBALO	Centropomus pectinatus Poey
Т	
tepezcuintle	Coelogenys paca
•	Tinannus major Gmel.
curré	Ramphastos swainsonii Gould
sample of Caños	Humidity 3.12%
ratorio Químico	Ashes 3.20%
78.17%	Sugars 0.00% Glues 0.00%
8.65%	September 21, 1945
100.00%	
	IN COSTA RICA A coruco; armadillo B jicote cascabela muda (C almeja cangrejo del rio camarón roncador paweel D t) cabra 1) venado G pawa guatusa M lapa; guacamaya caracol; morada caracol; moluco mono colorado carablanca tepemachin P perico loro mojarra chancho del monte cariblanco paloma S robalo T tepezcuintle gallina del monte curré sample of Caños ratorio Químico the following: 78,17%

Thiel, in Lehmann, 1920, vol. I, p. 351, does not the Spanish word faja but gives cintarion for the ces word cited about cited about cited about cited about a distribution with the cane. Well his can aliance, or to cane." He lists can airestre, or "wild cane."

APPENDIX C: COMPARATIVE VOCABULARIES

THE following is a comparative vocab-ulary of the Boruca language of words used in this paper. The earliest vocabulary is that of Valentini, dating from 1862. This has been taken from Lehmann. 1920, vol. I, pp. 345-48. In the chart, it is listed as Valentini, 1920. The next oldest are those of Gabb and Monsenor Thiel, and are placed according to their publication dates, the first being Gabb. 1881, and the second Thiel, 1882. The second Thiel vocabulary is taken from Lehmann, 1020, vol. I. pp. 346-56, and was collected in the year 1802. It is listed as Thiel, 1920, in the chart. The following three lists are from Pittier dating from the years 1891, 1892-96, and published by the National Museum of Costa Rica in 1941. Because of this, it is listed as 1941. The last Pittier vocabulary appeared in 1908. The final column was gathered by the writer in 1945, and contains the Boruca name for the principal items mentioned in this paper. The orthography used in the 1945 column is based on the international phonetic alphabet of G. H. Camerlynck. This alphabet appraise of A. Carnerynek. I has appraise was accepted at the International Congress of Phonetics in 1926. The key to this spelling is given below. (Due to the difficulties involved in obtaining special phonetic characters and setting these in the typeface as used herein, certain substitutes in the phonetic alphabet have been made. It has been necessary to make two alterations from the original - the a's are different from those in the Camerlynck alphabet; n represents an alternative form of the

character used by Camerlynck.)

It should be noticed that apart from the differences caused by lack of standard phonetic alphabet, the language has been slowly changing during the period of years represented by these lists, and that certain indigenous words are being replaced by hispanic

KEY TO PHONETIC SPELLING

a.	Li	ke.	Cat	. b.	77

a: ab, like a in batin.

e: like May

ε: like wet, but with long vocalic sound

2: like mute e in English

i: like ee in English: sleep

o: like ob in English o; a: like cut in English

ø: like custom, or better, like eu in French, or ö(oe) in German: Goethe

b, d, f, g, k, l, m, n, p, r, s, t, v, z, like in English n: almost like ng in English, or like gn in French like sh in English

อ้: like Genevieve

w: like what, but without expiration

j: like yet y: like ii in German: Gliick

q: like ü in German: Glück

antessispesserver be	STONE 1945	:	bu kra dra	ucsi	•		kre-fi	brid wa	bu-dwa'	kavak	, k	pa,ra	dons	but-wawa	brit	brut [.u.		suzm-k-a'		stou-kra	bwa-k-a'	hp	sug'-deban		∫jt-ka	bak-kra*
	1308 1908													í												
THE PARTY OF THE P	PUTTHER 1941		bub'-kra	tsón; tsu				brid-uá			kokrán		soeép; sueép					suam-ki		krán-kab'		du; du tsët; pxé	súg-leban			bay-krá
	1891 1891									cavác	ko-kra															
	THIEL 1920	۷.	bu-cra	rzóna		B		bri-duáh		cavac	coob-cráng		suép; súebp	pnt					cactub- teit			np.		ပ	chijt-ca	bajira suvāt
	TTHEL 1881																	suampka sovémca								
-	GABB 1881							bridus										suampka				du-tsiit				bab-krá
C and and and and and and and and	VALEN- TINI (1861)																					du-tsit				
the print of the second per Committee of the second second	ENGLIST	:	alligator pear anda-riel (rail vine) or bejuco	de bombre (man vine) armadillo	Arundinella (see savannah grass - for rattles)		bags (string)	banana	banana (guineo)	bark cloth	basker	basker (large)	bean	pce	bejuco de fierro (iron vine) or bejuco negro (black vine)	bejuco de fuego (fire vine)	bejuco de hombre (see anda-riel	belt, woven (for men)		bijagua	bijagua (black)	birds	bushmuster		cabuya	cane (wild)

*Pittier, 1891, p. 103, uses bri duáb for platimo guineo and nor for "Lanana". "Ettier, 1941, p. 16, uses bir-dua for platino guineo, nd nor for "banana".

								-
ENGLISH	VALEN:	GABB	THIE.	THIEL	PITTIER	PUTTIER	PUTTIER	STONE
ENGLISH	TINI	(3:XBB	1881	THEL	PITTIER 1891	1941	PIT THER	1945
	(1861)	1004		1,110	100	.94.	.,,	- 240
	. 1920							
capulin (white)						tébé-kra		tebe kra,
espain (white)						iebe-kra		tri'kwa,
								kri'kr a
caraña							dibit-krá	dibit-kr u';
								rejus'
carbonero								grifin-kra'
cassava (see yuca)								-,
cat						bis		bis
				cuc-cha		djë-bui; kup-		du-bui
chicha (from corn alone)		yi-wo;		euc-cha		a je-bui; kup- txa-bui		agr-our
		djiteô (in Pit-				txa-vui		
		tier, 1941,						
		p. 55)		,				
chicha (mixed with ñampí)		1.77						dqkatja'
chicha (mixed with pejibaye)				suba-chá				nipa-t [a'
				supa-coa		mua dië-bui		newadzebwi?
chicha (mixed with ripe or						тия взе-ош		mmageowi.
green plantain)								
chicha (mixed with yuca)				ung-ca-chá				uŋ-ka-tʃa'
chicha punsetti								twist (a'
chicken				coró		krob'		kro
chocolate		kaó		cáu-cá		kaó, kaŭ	•	. k20
chonta (large roots)								kanagira
chonta (small roots)								mana-kra'
clam								krú
clam (large)					•			naru'
clay vessel (large)				cvureb				kvure'
				C CAP CO				gwan
clay vessel (comal)						xik		(ik
cocoa-butter						xik		
cuffee								krangwa
Conostegia						•		kana kra'
copal								ųit-kra
cordoncillo							kui-krá	kuiki ar
corn	ko-ep	kup		сир	cuúp	kup	ru-krá	kæp
corn (black)	,				cuúp surinas	kup-turinit		kæp-turjnat;
Corn (Diack)					camp minat	Aup mines		ka:p-brjnas
com-patch			crih	eri; eup-cae		ri		37
	THE PERSON NAMED AND	carrier.		N. Astron				
ENGLISH	VALEN-	GABB	THIEL	THIEL	PITTIER	PUTTIER	PITTIER	STONE
ENGLISH	TINI	GABB 1881	THIEL 1881	THIEL 1920	PITTIER 1891	PITTIER 1941	P17771ER 1908	5TONE 1945
ENGLISH	TINI (1862)							
ENGLISH	TINI							
	TINI (1862)							1945
corn (sprouted)	TINI (1862)			1920		1941		1945 kus-pə
corn (sprouted) corozo palm	TINI (1862)			tza-aguá	1891	1941 tsa-kra		1945 kus-pə tsa-kra'
corn (sprouted) corozo palm cutton	TINI (1862)			1920	1891 Ishebil	tsa-kra txëbu-krá		1945 kus-p) tsa-kra' t{eb)'
corn (sprouted) corozo palm cutton	TINI (1862)			tza-aguá	1891	1941 tsa-kra		kus-pə tsa-kra' t{ebə' trik(u:
corn (sprouted) corozo palm cutton cotton, colored	TINI (1862)			tza-aguá	1891 Ishebil	1941 tsa-kra txëbu-krá terik txëbá		kus-p) tsa-kra' t[eb)' trik[u; trik[u;
corn (sprouted) corozo palm cuttun cotton, colured	TINI (1862)			tza-aguá	1891 Ishebil	tsa-kra txëbu-krá terik txëbú gua-krá; ua-		kus-pə tsa-kra' t{ebə' trik(u;
corn (sprouted) corozo palm cutton cotton, colured coyol palm	TINI (1862)			1920 tza-aguá chebő	1891 Ishebil	1941 tsa-kra txëbu-krá terik txëbú gua-krá; ua-krá; u-krá		kus-po tsa-kra' t febo' trik fu; trik fubuk kuwa-kra
corn (sprouted) coroza palm cutton cutton, colored coyol palm crab (river)	TINI (1862)			tza-aguá chebó croc	1891 Ishebil	tsa-kra txēbu-krā terik txēbú gua-krā; ua- krā; u-krā korōk; gzú		kus-p) tsa-kra' t feb)' trik fu; trik fubuk kuwa-kra
corn (sprouted) coruzu palm cutton cotton, colured coyol palm crab (river) crayfish	TINI (1862)			1920 tza-aguá chebő	1891 Ishebil	1941 tsa-kra txëbu-krá terik txëbú gua-krá; ua-krá; u-krá		kus-po tsa-kra' t febo' trik fu; trik fubuk kuwa-kra
corn (sprouted) coroza palm cutton cutton, colured coyol palm crab (river) crayfish (small)	TINI (1862)			tza-aguá chebó croc	1891 Ishebil	tsa-kra txēbu-krā terik txēbú gua-krā; ua- krā; u-krā korōk; gzú		kus-p) tsa-kra' t feb)' trik fu; trik fubuk kuwa-kra
corn (sprouted) corous palm cutton cotton, colored coyol palm crab (river) crayfish crayfish (small) crosker	TINI (1861) 1910		189:	tza-aguá chebó croc núb	1891 Ishebil	tsa-kra txēbu-krā terik txēbú gua-krā; ua- krā; u-krā korōk; gzú		kus-p) tsa-kra' tjeb; trikju; trikjubuk kuwa-kra k-rok' su a'
corn (sprouted) corous palm cutton cotton, colored coyol palm crab (river) crayfish crayfish (small) crosker	TINI (1862)		189:	tza-aguá chebó croc núb	1891 Ishebil	tsa-kra txēbu-krā terik txēbú gua-krā; ua- krā; u-krā korōk; gzú	1908	kus-po tsa-kra' tjebo' trikju; trikjubuk kuwa-kra korok' su a' ju
corn (sprouted) corate palm cutton cutton, colored coyol palm crab (river) crayfish crasyfish (small) croaker Craphes	TINI (1861) 1910		189:	tza-aguá chebó croc suáb	1891 Ishebil	tsa-kra txēbu-krā terik txēbū gua-krā; ua- krā; u-krā korōk; gzū tēuā; seua		kus-p.) tsa-kra' tsekra' tsekra' tsekra' tseks' triksfus, triksfushuk kutwa-kra kotok' su a' su a' tssssssssssssssssssssssssssssssssssss
corn (sprouted) corate palm cutton cutton, colored coyol palm crab (river) crayfish crasyfish (small) croaker Craphes	TINI (1861) 1910		189:	tza-aguá chebó croc nuáb " is in use dibi-ram-at	1891 Ishebil	tsa-kra txēbu-krā terik txēbú gua-krā; ua- krā; u-krā korōk; gzú	1908	kus-po tsa-kra' tjebo' trikju; trikjubuk kuwa-kra korok' su a' ju
corn (sprouted) cornus palm cotton, colured coyel palm coyel palm crab (river) crayfish crawfish crawfish crawfish crawfish crawfish curassow	TINI (1862) 1920 Apparently, only		189:	tza-aguá chebó croc suáb "is in use dibi-ram-at D	1891 Ishebil	tsa-kra txébu-krá terik txébú gua-krá; ua- krá; u-krá korók; gzú sčuá; seua kuúng; kug	1908	kus-po tsa-kra' tseka' tseka' tsik fubuk kuwa-kra korok' su a' fu tsfu-kra' kuug'
corn (aprounted) convax palm convax palm cornon, colored coyol palm crab (river) cray/sish cray/sish cray/sish cray/sish counter conser Cuphes curssow deer	TINI (1861) 1910		189:	tza-aguá chebó croc nuáb " is in use dibi-ram-at	1891 Ishebil	tsa-kra txēbu-krā terik txēbū gua-krā; ua- krā; u-krā korōk; gzū tēuā; seua	1908	kus-p.) tsa-kra' tsekra' tsekra' tsekra' tseks' triksfus, triksfushuk kutwa-kra kotok' su a' su a' tssssssssssssssssssssssssssssssssssss
corn (aprounted) convax palm convax palm cornon, colored coyol palm crab (river) cray/sish cray/sish cray/sish cray/sish counter conser Cuphes curssow deer	TINI (1862) 1920 Apparently, only		189:	tza-aguá chebó croc suáb "is in use dibi-ram-at D	1891 Ishebil	tsa-kra txébu-krá terik txébú gua-krá; ua- krá; u-krá korók; gzú sčuá; seua kuúng; kug	1908	kut-po tta-kra' tjeb' trikfu; trikfu; trikfushk kutua-kra k-rok' ne a' fu tafu-kra' kuug' suturik
corn (sprouted) cornus palm cutton cu	TINI (1863) 1910 Apparently, only suturik		189:	tza-aguá chebó croc suáb "is in use dibi-ram-at D	1891 Ishebil	1941 11a-kra 1xēbu-krā 1xēbu-krā 1xēbu-krā 10a-krā; un- krā; u-krā 1xēbuā; grū 1ēbuā; seun kutīng; kug 111-turik	1908	kur-pə tra-kra' tfebə' trikfur, trikfuhuk kurua-kra kərok' su a' fu təfu-kra' kuuy' suturik fit
corn (aprounted) contain palm conton, colored coyol palm crab (river) cray/this cray/this cray/this cray/this cray/this direj/finall)	TINI (1862) 1920 Apparently, only	the Spanish	189:	ta-aguá chebó eroc nuib "is in use dibi-rem-at D nuturic auf	1891 Ishebil	tsa-krs txébu-krá txibu-krá txibu-krá terik txibu gus-krá; ua- krá; u-krá korók; grú těuá; seus kuting; kug tu-turik aŭą, súx*	1908	kus-p) tsa-kra' tjeb; trik kus trik fubu kwwa-kra kwok' su a' fu tsfu-kra' kuuŋ' tuturik fit oof
corn (sprouted) cornus palm cotton, cohured coyol palm coyol palm crayfish crayfish crayfish crayfish distributed crayfish distributed curssow deer distributed dog drum	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tza-aguá chebó croc naib "is in use dibi-ram-at D puturic	1891 Ishebil	tsa-kra txèbu-krā txèbu-krā txèbu-krā gua-krā; ua- krā; u-krā korōk; grū sēuā; seua kusing; kug tu-turik aių, sāx* kčbė	1908	kus-pə tus-kra' tjebə' rrik jubuk kraus-kra krok' ju' tafu-kra' kuuŋ' tuturik jii oof
corn (sprouted) corton palm corton, colored coyol palm crab (river) cray/thi cray/thi cray/thi cray/thi cray/thi definal) cray/thi definal cra	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	ta-aguá chebó eroc nuib "is in use dibi-rem-at D nuturic auf	1891 Ishebil	tsa-krs txébu-krá txibu-krá txibu-krá terik txibu gus-krá; ua- krá; u-krá korók; grú těuá; seus kuting; kug tu-turik aŭą, súx*	1908	kut-pə tsa-kra' tfeb' trik fut, trik fut, fut, fut, fut, fut, fut, fut, fut,
corn (sprouted) corton palm corton, colored coyol palm crab (river) cray/thi cray/thi cray/thi cray/thi cray/thi definal) cray/thi definal cra	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	ta-aguá chebó croc nuib "is in use dibi-ram-at D nututic auf	1891 Ishebil	tsa-kra txèbu-krā txèbu-krā txèbu-krā gua-krā; ua- krā; u-krā korōk; grū sēuā; seua kusing; kug tu-turik aių, sāx* kčbė	1908	kus-pə tus-kra' tjebə' rrik jubuk kraus-kra krok' ju' tafu-kra' kuuŋ' tuturik jii oof
corn (uprouted) cornus palra curton corton, colured coyol palm crab (river) crayfish crayfish (mall) crayfer Cupbea curssow deer	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tgaa aguá chebó croc nuib " is in use dibi-ran-at D nuturic aui quebé	1891 Ishebil	tsa-kra txèbu-krā txèbu-krā txèbu-krā gua-krā; ua- krā; u-krā korōk; grū sēuā; seua kusing; kug tu-turik aių, sāx* kčbė	1908	kut-pə tsa-kra' tfeb' trik fut, trik fut, fut, fut, fut, fut, fut, fut, fut,
corn (sprouted) cornus palm cuton cuton cuton cuton cuton(cuton) cutol (siver) cutylish (small) craythi (small) craythi cutses cutses deer diciplina palm dog drum dug-out canoe for rea (hongo)	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	ta-aguá chebó croc nuib "is in use dibi-ram-at D nututic auf	1891 Ishebil	tsa-kra txèbu-krā txèbu-krā txèbu-krā gua-krā; ua- krā; u-krā korōk; grū sēuā; seua kusing; kug tu-turik aių, sāx* kčbė	1908	kut-pə tas-kra' tāfeb'; trik fu; trik fu; trik fu; trik fu; trik kuma-kra krok' fu ta fu-kra' kum'; tritmik fit orf trik kra' ri tritmik fit orf ri trik kum' ri trik funda kum' ri trik funda kum' ri trik funda kum' ri trik funda kum' ri trik funda kum' ri trik funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda funda f
corn (sprouted) cornor palm corton, cohord coyed palm crab (river) crayfish crab(river) crayfish crab(river) crayfish distribution distribution definition distribution distri	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tgaa aguá chebó croc nuib " is in use dibi-ran-at D nuturic aui quebé	1891 Ishebil	tashra tazhu-bri tazhu-bri terik tathii gus-bri; us- kri; u-bri;	1908	kut-p, tsa-kra' tsa-kra' tsa-kra' tsa-kra' tsa-kra' tsa' tsa' fu kwa-kra kwa-
corn (sprouted) corozo palu corton cotton, colored coyol palm crab (river) crayhih (small) crayhin (small) crayhin (small) crayhin curston der diriplima palm dog drum dog-out canoe for tiver dog-out canoe for sea (hongo) egg (crocodile) egg (crocodile)	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tgaa aguá chebó croc nuib " is in use dibi-ran-at D nuturic aui quebé	1891 Ishebil	tsa-kra txèbu-krā txèbu-krā txèbu-krā gua-krā; ua- krā; u-krā korōk; grū sēuā; seua kusing; kug tu-turik aių, sāx* kčbė	1908	kut-p) tse-kra' tfeb' trik ju,
corn (sprouted) cornus palm cotton, cohured coyle palm corpol, cohured coyle palm corpol, cohured coyle palm corpol, constant corpol, constant corpol, constant const	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tgaa aguá chebó croc nuib " is in use dibi-ran-at D nuturic aui quebé	1891 Ishebil	tashra tazhu-bri tazhu-bri terik tathii gus-bri; us- kri; u-bri;	1908	kut-p) tse-kra' tsel-kra' tsel-kra' tsel-kra' trik fus trik fus trik fus trik fus kwow-kra kwow' kwow-kra kwok' fu ts fu-kra' kwoy' tuturik fji caf kebe' rå rå kukup krokup tuturka'
corn (sprouted) cornus palm cuton cuton cuton cuton cuton(cuton) cutol (siver) cutylish (small) craythi (small) craythi cutses cutses deer diciplina palm dog drum dug-out canoe for rea (hongo)	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tza-aguá chebó eroc máb is in use dibi-ron-at D nuturic asif quebé E	1891 Ishebil	tashra tazhu-bri tazhu-bri terik tathii gus-bri; us- kri; u-bri;	1908	kut-p) tse-kra' tfeb' trik ju,
corn (sprouted) cornor palm corton, cohored coyol palm corton, cohored coyol palm corpolity (spring) crayfish crayfish crayfish crayfish directly crayfish directly der directly der directly der drum dug-out canoe for river dug-out canoe for river (dug-out canoe for river dug-out canoe for gas (hongo) egg (crocodile) egg (feno) Etteris	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tgaa aguá chebó croc nuib " is in use dibi-ran-at D nuturic aui quebé	1891 Ishebil	tashra tazhu-bri tazhu-bri terik tathii gus-bri; us- kri; u-bri;	1908	kut-p) tse-kra' tsel-kra' tsel-kra' tsel-kra' trik fus trik fus trik fus trik fus kwow-kra kwow' kwow-kra kwok' fu ts fu-kra' kwoy' tuturik fji caf kebe' rå rå kukup krokup tuturka'
corn (sprouted) cornus pain cortes, cobard cortes, cobard cortes, cobard cortes, cobard cortes, cobard cortes, cobard coryl palm crab (river) craylinh (mall) cracker cursusor deer dirigilina palm dog dog dog-out canoe for river dog-out canoe for sea (hongo) egg (crocodile) egg (then) blain blain first stones	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tza-aguá chebó eroc máb is in use dibi-ron-at D nuturic asif quebé E	1891 Ishebil	tas-bra tas-br	1908	kus-ps tas-kra' tjebs' trik liu trik julu kraw-kra krok' fu ts fu-kra' kra' kuunik ji ed kra' kuunik ra' kuunik kbc' ra' kukup krokup tuukra' juukra' juukra'
corn (sprouted) cornus pain cortes, cobard cortes, cobard cortes, cobard cortes, cobard cortes, cobard cortes, cobard coryl palm crab (river) craylinh (mall) cracker cursusor deer dirigilina palm dog dog dog-out canoe for river dog-out canoe for sea (hongo) egg (crocodile) egg (then) blain blain first stones	TINI (1863) 1910 Apparently, only suturik	the Spanish	189:	tza-aguá chebó eroc máb is in use dibi-ron-at D nuturic asif quebé E	1891 Ishebil	tashra tazhu-bri tazhu-bri terik tathii gus-bri; us- kri; u-bri;	1908	kut-p) tse-kra' tsel-kra' tsel-kra' tsel-kra' trik fus trik fus trik fus trik fus kwow-kra kwow' kwow-kra kwok' fu ts fu-kra' kwoy' tuturik fji caf kebe' rå rå kukup krokup tuturka'
corn (sprouted) cornus palm cotton, colhored coyle palm corpol, colhored coyle palm corpol, colhored coyle palm corpol, colhored corpol, colhored corpol, colhored corpol, colhored corpol, colhored corpol, colhored colho	TiNi (186) 1916 Apparently, only sutterik žuj	the Spanish	189:	tsa-aguá chebó croc naib is in use dibi-ren-at D nuturic aif quebé E	1891 Ishebil	tashra tashrahit	1908	kut-p) tsa-kra' tjeb' tsik fu tisk fu tsik fu tsik fu tsik fu tsik fu ta' fa ts fu-kra' kung' munik fi tsik fu-kra' kung det tsik fu ts
coen (sprouted) cornus palm corton, colored coyol palm crab (river) crayfish cryths (mall) cryths cryths cryths cryths dee diriplina palm dog dram dog dram dog dram dog dram dog dram dog fres cone for tiver dogout canoe for sea (bongo) egg (crocodile) egg (crocodile) egg (crocodile) fire stones fire vine (see brjuco de fuego) finh	Tini (1863) 1930 Apparently, only nuturik žuj	the Spanish	1891	tza-aguá chebó eroc máb is in use dibi-ron-at D nuturic asif quebé E	1891 Libebű Leri Libebű	tashra tashu-bri tashu-bri teritashu-bri ter	1908 tni-krá	kut-pa tas-kra' tjeba' tiskin tiskin tus' fu tus' fu tus' fu tus' fu tus' fu tus' kung' munik fit oot kebe' rii kukup kebe' rii kukup kebe' tus' rii kukup kung-ha kung-ha kung' munik fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu fu fu fu fu fu fu fu fu fu fu fu fu
coen (sprouted) cornus palm corton, colored coyol palm crab (river) crayfish cryths (mall) cryths cryths cryths cryths dee diriplina palm dog dram dog dram dog dram dog dram dog dram dog fres cone for tiver dogout canoe for sea (bongo) egg (crocodile) egg (crocodile) egg (crocodile) fire stones fire vine (see brjuco de fuego) finh	Tini (1863) 1930 Apparently, only nuturik žuj	the Spanish	1891	tsa-aguá chebó croc naib is in use dibi-ren-at D nuturic aif quebé E	1891 Libebű Leri Libebű	tashra tashu-bri tashu-bri teritashu-bri ter	1908 tni-krá	kut-pa tsa-kra' tjeba' tikjubuk kuwa-kra kawa' kuwa-kra' kuma' tuturik jii tuturik jii ode kuba' kuba' kubu kukup krokup tutkra' djiwaka' djiwakay-i
coen (sprouted) cornus palm corton, colored coyol palm crab (river) crayfish cryths (mall) cryths cryths cryths cryths dee diriplina palm dog dram dog dram dog dram dog dram dog dram dog fres cone for tiver dogout canoe for sea (bongo) egg (crocodile) egg (crocodile) egg (crocodile) fire stones fire vine (see brjuco de fuego) finh	Tini (1863) 1930 Apparently, only nuturik žuj	the Spanish	1891	tsa-aguá chebó croc naib is in use dibi-ren-at D nuturic aif quebé E	1891 Libebű Leri Libebű	tashra tashu-bri tashu-bri teritashu-bri ter	1908 tni-krá	kut-pa tsa-kra' tjeba' tikjubuk kuwa-kra kawa' kuwa-kra' kuma' tuturik jii tuturik jii ode kuba' kuba' kubu kukup krokup tutkra' djiwaka' djiwakay-i
coen (sprouted) cornus palm corton, colored coyol palm crab (river) crayfish cryths (mall) cryths cryths cryths cryths dee diriplina palm dog dram dog dram dog dram dog dram dog dram dog fres cone for tiver dogout canoe for sea (bongo) egg (crocodile) egg (crocodile) egg (crocodile) fire stones fire vine (see brjuco de fuego) finh	Tini (1863) 1930 Apparently, only nuturik žuj	the Spanish	1891	tsa-aguá chebó croc naib is in use dibi-ren-at D nuturic aif quebé E	1891 Libebű Leri Libebű	tashra tashu-bri tashu-bri teritashu-bri ter	1908 tni-krá	kut-pa tas-kra' tjeba' tiskin tiskin tus' fu tus' fu tus' fu tus' fu tus' fu tus' kung' munik fit oot kebe' rii kukup kebe' rii kukup kebe' tus' rii kukup kung-ha kung-ha kung' munik fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu fu fu fu fu fu fu fu fu fu fu fu fu
coen (sprouted) cornus palm corton, colored coyol palm crab (river) crayfish cryths (mall) cryths cryths cryths cryths dee diriplina palm dog dram dog dram dog dram dog dram dog dram dog fres cone for tiver dogout canoe for sea (bongo) egg (crocodile) egg (crocodile) egg (crocodile) fire stones fire vine (see brjuco de fuego) finh	Tini (1863) 1930 Apparently, only nuturik žuj	the Spanish	1891	tsa-aguá chebó croc naib is in use dibi-ren-at D nuturic aif quebé E	1891 Libebű Leri Libebű	tashra tashu-bri tashu-bri teritashu-bri ter	1908 tni-krá	kut-pa tas-kra' tjeba' tiskin tiskin tus' fu tus' fu tus' fu tus' fu tus' fu tus' kung' munik fit oot kebe' rii kukup kebe' rii kukup kebe' tus' rii kukup kung-ha kung-ha kung' munik fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu fu fu fu fu fu fu fu fu fu fu fu fu
corn (sprouted) cornor palm corton, cohored coyol palm corton, cohored coyol palm corpol, cohored coyol palm corpol, cohored coyol palm corpol, constant corpol c	Tini (1863) 1930 Apparently, only nuturik žuj	the Spanish	1891	tsa-aguá chebó croc naib is in use dibi-ren-at D nuturic aif quebé E	1891 Libebű Leri Libebű	tashra tashu-bri tashu-bri teritashu-bri ter	1908 tni-krá	kut-pa tas-kra' tjeba' tiskin tiskin tus' fu tus' fu tus' fu tus' fu tus' fu tus' kung' munik fit oot kebe' rii kukup kebe' rii kukup kebe' tus' rii kukup kung-ha kung-ha kung' munik fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu fu fu fu fu fu fu fu fu fu fu fu fu
corn (aprouted) corneas pairs cortens cortens covolored	Tini (1863) 1930 Apparently, only nuturik žuj	the Spanish	1891	tsa-aguá chebó croc naib is in use dibi-ren-at D nuturic aif quebé E	1891 Libebű Leri Libebű	tashra tashrahit	1908 tni-krá	kut-pa tas-kra' tjeba' tiskin tiskin tus' fu tus' fu tus' fu tus' fu tus' fu tus' kung' munik fit oot kebe' rii kukup kebe' rii kukup kebe' tus' rii kukup kung-ha kung-ha kung' munik fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu tus' fu fu fu fu fu fu fu fu fu fu fu fu fu

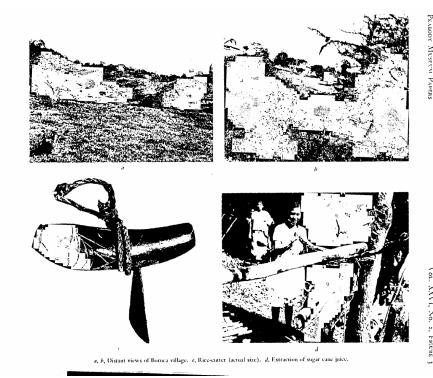
FNGLISH	VALEN-	GABB	LIBEL	THIEL	PETTER	PETHER	PUTTIER	STONE
F.SCH.ISH	UNI	1881	1 NN2	1949	18gt	1941	rueli	1945
	(1861)			.,		.,,,		.,,,
	1929							
	•			G				
gourd (oblong)								tam
gourd tree (oblong)						tam-krá		tam-kra
gourd (round)								k-wa'
gourd tree (round)		y iin-kra		táng-crah		kuá-krá		kwa-kra
grinding stone (for grain)		10		cang		dji-ab-rā		kay-kri'
grinding stone (from graves)								kan; brus
gruel								ok-1f4
guicimo				dián-cráb		dian-krā		dian-kra
guan, crested				dibib		děbi		divj
guanacaste						krú-krá		kru'-kra
				chéh		exeb'		
guatusa		chesht; txext		cnen	,	exeo		m(c,
		(in Pit-						
		tier, 1941,						
		p. 59)						
guava			shuib-uáb "	u		xuib-krá		sui-kra
				н				4
hammock		kung		cung		kun		kuŋ
hearth stone (see stone)								
buiscoyol palın						tsu-krá		tsu-kra
				I				
indigo							tibi-kib	tibi-kra
Inga				gurúoba		guarok-krá		gwarsk-kra
-						J		
* *				J				
jaboncillo								t f is
jar (for chicha)								dse-bwi'-grin'
				L				
								su
little stick grass					cush ibing			tram)ho
little stick grass Ioom								
loom	479, does not list "gr or "stone" as kang.	inding ston	e,"		1100			(hispanic root?)
Gabb, 1881, p. 4 but liss the word for "Thiel, 1881, p. 9 the fruit as wib.						, in Lehmann, 1921 uib-uib, but does n		root?)
loom	VALEN-	GABB	THIEL	THIEL	PITTIER	PITTIER	PUTTIER	toot?) lists the
Gabb, 1881, p. 4 but liss the word for "Thiel, 1881, p. 9 the fruit as wib.	VALEN- TINI			THIEL 1920				root?)
Gabb, 1881, p. 4 but liss the word for "Thiel, 1881, p. 9 the fruit as wib.	VALEN- TINI (1861)	GABB	THIEL		PITTIER	PITTIER	PUTTIER	toot?) lists the
Gabb, 1881, p. 4 but liss the word for "Thiel, 1881, p. 9 the fruit as wib.	VALEN- TINI	GABB	THIEL	1920	PITTIER	PITTIER 1941	PUTTIER	root?) lists the STONE
Gabb, 1881, p. 4 but liss the word for "Thiel, 1881, p. 9 the fruit as wib.	VALEN- TINI (1861)	GABB	THIEL		PITTIER	PITTIER 1941	PTTTER 1908 .	root?) lists the STONE 1945
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"Gabb, 1881, p., g., bur lists the word for "Thiel, 1881, p., p.,	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920	PITTIER	PITTIER 1941	PTTTER 1908 .	root?) lists the STONE 1945
"Gabb, 1881, p., but laid the word for "The second	VALEN- TINI (1861)	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTIER 1941	PTTTER 1908 .	ists the STONE 1945 fo kro-kws*
"Gabb, 1881, p., but lists the world for "Thiel, 1881, p. o	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTIER 1941	PTTTER 1908 .	root?) lists the STONE 1945
"Gabb, 1881, p. a. but lists the world for "Thick, 1881, p. p. but first as with. ENGLISH macaw marigus marga marga	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTIER 1941 xob' kro-kui	PTTTIER 1908 . krók-ua	root?) lists the STONE 1945 fo kro-kwa' ta kup du'ti-kra'
"Gabb, 1881, p., but lists the world for "Thiel, 1881, p. o	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTIER 1941 xob' kro-kui	PTTTIER 1908 . krók-ua	root?) lists the STONE 1945 Jo kro-kwa' ta kup
"Gabb, 1881, p. a. but late the worl of "Thick, 1882, p. 9. bb frist as with. ENGLISH macaw marigus mango marraca mataste (red)	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTIER 1941 xob' kro-kui	PTTTIER 1908 . krók-ua	root?) lists the STONE 1945 Jo kro-kwa' ta kup du'ti-kra' drok-kwak-
"Gabb, 1881, p. 4. but lists the word for the but lists the word for the first and b. 5. ENGLISH ENGLISH Maria tree maratae Maria tree maratae (white)	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTER 1941 xoh' kro-kuá dúti-krá	PTITIER 1908 krók-ua dét-kri-kra kavák-kra	root?) lists the STONE 1945 fo kro-kwa' ta kup du'ti-kra' drok-kwak-kra' kwak-kra'
"Gabb, 1881, p. a. but late the worl of "Thick, 1882, p. 9. bb frist as with. ENGLISH macaw marigus mango marraca mataste (red)	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTIER 1941 xob' kro-kui	PTITIER 1908 - krók-ua dét-kri-kra	root?) lists the STONE. 1945 fo kro-kwa* ta kup du'ti-kra* drok-kwak-kra*
"Gabb, 1881, p. 4, but lists the word for but lists the word for the w	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTER 1941 xoh' kro-kuá dúti-krá	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	root?) lists the STONE 1945 fo kro-kws' ta kup du'ti-kra' drok-kwak-kra' kawak-'kra' be-kra
"Gabb, 1881, p. a. but lists the world for "Thick, 1882, p. o. but first as with ENGLISH macaw marigus mango maraca maratate (red) matatate (white) May tree (white) May tree (white)	VALEN- TINI (1861) 1910	GABB 1881	THIEL 1882 . thioh	1920 M	PITTIER	PITTIER 1941 xob' kro-kuś dúti-krś be-kra; bi-kra	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	root?) lists the STONE. 1945 fo kro-kwa' ta kup du'i-kra' drok-kwak-kra' kawak-'kra' be-kra fubekra'
"Gabb, 1881, p. 4. but last the world for the first the world for the first and p. 9. ENGLISH ENGLISH Make the first and p. 9. ENGLISH Make the first and p. 9. Make the	VALEN- TINI (1861) 1910	GABB 1881 be no indiq	THIEL 1882 . thioh	M sang-cva	PITTIER	PITTIER 1941 xob' kro-kuś dúti-krś be-kra, bi-kra surėm-it	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	root?) lists the STONE 1945 Jo kro-kwa' ta kup du'ti-kra' drok-kwak- kra' kawak-'kra' be-kra Jubekra' naemii'
"Gabb, 1881, p. a. but lists the world for "Thick, 1882, p. o. but first as with ENGLISH macaw marigus mango maraca Maria tree mastate (white) May tree (white) molkus (cmill) monkey (red)	VALEN- TINI (1861) 1910	GABB 1881 be no indiq nong	THIEL 1882 . thioh	M sang-cvs	PITTIER	PATTIER 1941 xob' kro-kuś dúti-krś be-kra, bi-kra zurém-is	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	root?) lists the STONE 1945 fo kro-kws' ta kup du't-kra' drok-kwak- kra' kwak-'kra' be-kra Jubekra' naemit' nan
"Gabb, 1881, p. 4. but last the world for but last the world for but faits and p. 9. ENGLISH ENGLISH TRACE Maria tree Maria tree Maria tree May tree (white) May tree (white) May tree (white) monkey (white-faced)	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1882 . thóoh genous name	M sang-ctu	PITTIER	PITTIER 1941 xob' kro-kuś dúti-krś be-kra, bi-kra surėm-it	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	root?) lists the STONE 1945 Jo kro-kwa' ta kup du'ti-kra' drok-kwak- kra' kawak-'kra' be-kra Jubekra' naemii'
"Gabb, 1881, p. a. but lists the world for "Thick, 1882, p. o. but first as sub- ENGLISH macaw marigua mango maraca Maria tree maraste (white) May tree (pink) May tree (white) monkey (red) monkey (white-faced) monkey (white-faced) monket (mile)	VALEN- TINI (1861) 1910	GABB 1881 be no indiq nong ok	THIEL 1882 . thóoh genous name	M sang-ctu	PITTIER	PATTIER 1941 xob' kro-kuś dúti-krś be-kra, bi-kra zurém-is	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	tool2) lists the STONE jo kro-knw' ta kup duli-kru' drok-knw' kruk-lru' knuk-lru' knuk-lru' jubekru' nuemi' nun ok
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"Gabh, 1881, p. 4. "Gabh, 1881, p. 4. "Dur lint the word for "The bear lint of the word for ENGLISH ENGLISH marker marker marker marker Maria tree marker (white) monthey (red) monkey (red) monkey (white-faced) multer (fresh water) multer (fresh water)	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1882 . thóoh genous name	M sang-cou nong oc congue	PITTIER	MTTIER 1941 xob' kro-kusi dúti-krs be-kra, bi-kra móm ok	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	tool2) lists the STONE 1945 Jo Aro-Aud* to kup drivi-kra* drivi-kra* drivi-kra* drivi-kra* hra* kra* kra* kra* hra* nurmi* nur ok 22kus Ji-kra*
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"Gabb, 1881, p. a. but last the worl for but last the worl for but followed by the service of the service ENGLISH TRACE	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1882 . thóoh genous name	M sang-ctu nong oc tongue N thiqu-cra	PITTIER	MTTIER 1941 xob' kro-kusi dúti-krs be-kra, bi-kra móm ok	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	tool2) lists the STONE 1945 Jo Aro-Aud* to kup drivi-kra* drivi-kra* drivi-kra* drivi-kra* hra* kra* kra* kra* hra* nurmi* nur ok 22kus Ji-kra*
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"Gabb, 1881, p. 4. but lists the word for but lists the word for	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1882 . thóoh genous name	M sang-ctu nong oc tongue N thiqu-cra	PITTIER	PITTEM 1941 2007 kra-kni dditi-kri be-kra, bi-kra tan'en-is nois ok	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	tood?) lists the STUNK 1945 Jo kro-knob* ta kup duli-kra* drok-knob-kra* knob kra* knob kra* jahera* nu enit* nu enit* nu enit* ji-kra nubuk; kra* waat du
"Gabb, 1881, p. 4. but lists the word for but lists the word for	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1882 . thóoh genous name	M sang-ctu nong oc tongue N thiqu-cra	PITTIER	net treek sob bro-kus duit-krd be-kra, bi-kra turim-is non ok	PTITIER 1908 krók-ua dét-kri-kra kavák-kra be-kra;	tood?) line the STONE 1945 for kend drok kend for
"Gabb, 1881, p. d. but lists the world for Third, 1882, p. o. ENGLISH ENGLISH ENGLISH Maria tree mariage marata Maria tree maratate (white) May tree (pink) May tree (white) May tree (white) monkey (white) monkey (white) monkey (white) monkey (red) monkey (white) monkey monkey monkey (mail) monkey m	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1882 . thóoh genous name	M sang-ctu nong oc tongue N thiqu-cra	PITTIER	PITTEM 1941 2007 kra-kni dditi-kri be-kra, bi-kra tan'en-is nois ok	PETTER 1908 - krók-ua dőt-kri-kra kevék-kra be-kra; bi-krá	tool2) line the STUNKE 1945 Jo Arro-Aun' ta kup du'ti-kar'a- drip-kar'a- karak-'tra' be-tra jubebra' menji ok 22kus ji-kus ji-kus ji-kus du du kaba-usa kaba-tra'
"Gabb, 1881, p. 4. but last the worl for but last the worl for the first said. 9 ENGLISH ENGLISH Market real market Market (red) market (white) May tree (white) monkey (white) monkey (white) monkey (red) monkey (red) monkey (fred) monkey (red) monkey (red) monkey (red) monkey (red) monkey (white)	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1882 . thóoh genous name	M sang-ctu nong oc tongue N thiqu-cra	PITTIER	net treek sob bro-kus duit-krd be-kra, bi-kra turim-is non ok	PETTER 1908 . krók-ua dőt-kri-kra kazák-kra be-kra; bi-krá	tood?) line the STONE 1945 for kend drok kend for
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"Gabb, 1881, p. 4. "Gabb, 1881, p. 4. "Due lints the word for "Line for the word for "ENGLISH ENGLISH macaw majegus mango marara Maria tree mararate (end) marate (white) May tree (white) molitude (arnall) monkey (red) monkey (red) monkey (white-faced) multer (fresh water) mushroom nance meno (mule) mene (femile) fiampi ejoche (fruit)	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1883: théeb genous name t in the Boruca t	M sang-ctu nong oc tongue N thiqu-cra	PITTIER	net treek sob bro-kus duit-krd be-kra, bi-kra turim-is non ok	PETTER 1908 . krók-ua dőt-kri-kra kazák-kra be-kra; bi-krá	tool2) line the STUNKE 1945 Jo Arro-Aun' ta kup du'ti-kar'a- drip-kar'a- karak-'tra' be-tra jubebra' menji ok 22kus ji-kus ji-kus ji-kus du du kaba-usa kaba-tra'
"Gabb, 1881, p. 4. but lints the word for but lints the word for	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1883	M sang-cvs nong oc thiqu-crs R .	PITTIER	vettreek 1941 20b kro-kui dditi-kri be-kra, bi-kra turdeni nuin 0k xi-kra	PETTER 1908 . krók-us dőt-kri-kra kszák-kra be-kra; bi-krá	tool2) line the STONE 1945 Jo Aro-kwa' ta kup duli-kwa' drok-kwak kra' kwak-lea' be-kra Jakelra' na memir na mir jakena Jikwa
"Gabb, 1881, p. 4. but lints the word for but lints the word for	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1883: theob genous name t in the Boruca t	M sang-cra nong of this sang-cra N this sang-cra R O	PITTIER	nettreik soli kro-kni diiti-kri diiti-kri be-kra, bi-kra tarim-it nin ok zi-kra	PETTER 1908 . krók-us dőt-kri-kra kszák-kra be-kra; bi-krá	iises the STUNE 10 Are-kend 10 Are-kend
"Gabb, 1881, p. 4. but lists the word for but lists the word for the first and by 5. ENGLISH macaw majegua mango marsas Maria tree marsase (white) mollas (mails) monthay (mails) monthay (mails) monthey (wherefaced) multer (fresh water) multer (fresh water) manthroom fannee meme (male) mene (femnle) finampi ajache (tree)	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1883: theob genous name t in the Boruca t	M sang-cvs nong oc thiqu-crs R .	PITTIER	sob kra-kui daii-kra be-kra, bi-kra uurim-is nin ok xi-kra	PETTER 1908 . krók-us dőt-kri-kra kszák-kra be-kra; bi-krá	tood?) lina the STANKE 1945 Jo Ara-kwa' ta kup da'i-kwa' da'ok-kwak-kwa' be-kra Jubekra' nuromi' ok szhwa Ji-kra mund ji-kra nund dq kaba-wa Aba-kri jir-ku-mat dq ku-kra' ku-kra'
"Gabb, 1881, p. 4. but lists the word for but lists the word for the first and by 5. ENGLISH macaw majegua mango marsas Maria tree marsase (white) mollas (mails) monthay (mails) monthay (mails) monthey (wherefaced) multer (fresh water) multer (fresh water) manthroom fannee meme (male) mene (femnle) finampi ajache (tree)	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1883: theob genous name t in the Boruca t	M sang-cra nong of this sang-cra N this sang-cra R O	PITTIER	PETTER 1941 201 201 20-kra, bi-kra tarim-ir min ok zi-kra 4444-441 4444-441-441-444 4444-441-441	PETTER 1908 . krók-us dőt-kri-kra kszák-kra be-kra; bi-krá	iises the STUNE 10 Are-kend 10 Are-kend
"Gabb, 1881, p. a. but lists the world for but lists the world for the first and p. 9 ENGLISH ENGLISH TRACE May tree (white) monkey (white-faced) multer (fred) probable (fred) joiche (fred)	VALEN- TINI (1861) 1910 There appears to	GABB 1881 be no indiq nong ok	THIEL 1883: theob genous name t in the Boruca t	M sang-cra nong of this sang-cra N this sang-cra R O	PITTIER	sob kra-kui daii-kra be-kra, bi-kra uurim-is nin ok xi-kra	PETTER 1908 . krók-us dőt-kri-kra kszák-kra be-kra; bi-krá	tood?) lina the STANKE 1945 Jo Ara-kwa' ta kup da'i-kwa' da'ok-kwak-kwa' be-kra Jubekra' nuromi' ok szhwa Ji-kra mund ji-kra nund dq kaba-wa Aba-kri jir-ku-mat dq ku-kra' ku-kra'
"Gabb, 1881, p. 4. but lists the word for but lists the word for the first and by 5. ENGLISH macaw majegua mango marsas Maria tree marsase (white) mollas (mails) monthay (mails) monthay (mails) monthey (wherefaced) multer (fresh water) multer (fresh water) manthroom fannee meme (male) mene (femnle) finampi ajache (tree)	VALEN-TINI (1861) 1910 There appears to Apparently there	GABB 1881 be no indiq nong ok	THIEL 1883: theob genous name t in the Boruca t	nong octoongue N thiqu-cra R O	PITTIER	PETTER 1941 201 201 20-kra, bi-kra tarim-ir min ok zi-kra 4444-441 4444-441-441-444 4444-441-441	PETTER 1908 . krók-us dőt-kri-kra kszák-kra be-kra; bi-krá	tood?) lises the STUNE PH Jo Ara-kend* as kup dui-kend drak kenda-bad be-ken Jukebrd* mang ok szkwa Ji-ken ji-ken ji-ken ji-ken du kuk-wa du kuk-wa du kuk-wa kuk-wa du kuk-wa kuk-wa du kuk-wa kuk-wa du kuk-wa

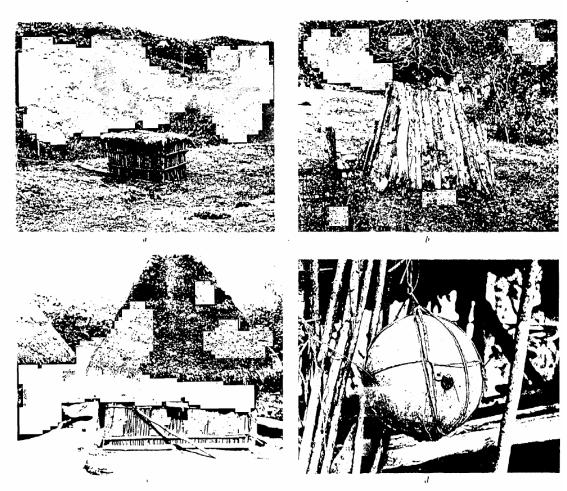
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FNGLISH	VALEN- TINI	GABH	7111FE,	TIME.	PITTIER	PUTTIER	PYTYWA	STONE
	(1862)	1 HH 1	1881	1919	1891	1941	LipoN	1945
parror			curij			kuriç		fris
pejibaye			mbi acra	nabia-cra		suba-krá		mba-kra'
pejibaye (without thorns)								ų kri
penhaye (without seeds)								иор
pejibaye (with seeds) perch								y k
pestle or mano						soát		sort
pesce or mano		yu-ré		cang-e- qui-shuréb		kang i-uah		kay-i-wa'
Philodendron				qui-muren				
Pig.						cuchi		10-kra' kut[i
pig (peccary)		siní				cuem		
pig (wild boar?)		kra-mi-				kram-xuk;		sini'
		thuk				kram-i-xuk		kram-juk
pigeon (large)	oog			óoc		ook; ohak		ork
pigeon (white-wing)	-					kibi-sut		kibi-sut
pineapple		bwat		bost		boait		bwase
pita				ba				ba
plantain		mwa	ma (?)14			muí		muwa
poró				14			bru-kr.i	bru-kra'
paro-paro						min-kra		min-kra*
posole (pemican?)								kubri'
				R				
rattle (maraca)								t-a
rice						su-srus		susrit
royal palm							o-krá	o-kra'
rubber (wild)							gši-krá	gii-kra'
				s				-
salt				quib		ki		kj
salt (rock)								kj-sj-ka
salt (soft)								kj'-kog
sandbox tree	nn, 1920, vol. I, p. is a species of wile the Bishop's vocab	351, gives 2i 1 pig. ulary that 2	ní na		* Thiel	in Lehmann, 19	10, vol. 1, p. 3;	tni-kra'
sart (30ft) sandbox tree "Thiel, in Lehma for cariblanco, which "It appears from may be considered as see Thiel, 1882, p. 103	. várin.	-crx#n	17700	rretë.		, in Lehmann, 19 This Is, however See p. 6		s, gives
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sandbox tree "Thiel, in Lehman for cariblanco, which "It appears from may be considered as see Thiel, 1881, p. 1193 ENERT, 1887 sangritla tree	TINI (1862)	-crx#n	17700	1910		, in Lehmann, 19 This Is, however See p. 6		tsu-kra' 5, gives and not 1945 7us kra'
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¹⁸ Pittier, 1941, p. 45, lists the mua Crantz) as unkab'. The	ne sweet variety (Es	icu-						
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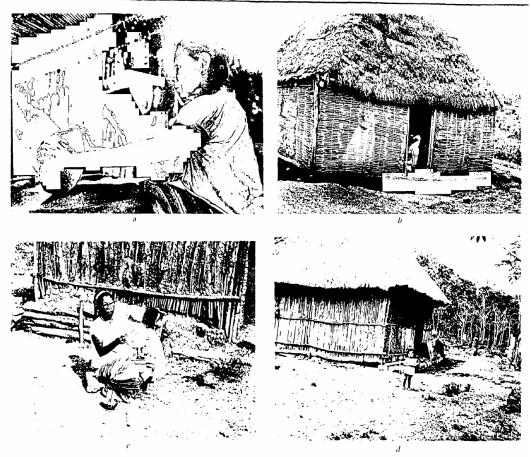
COLLOTYPE FIGURES 3-10

Beraus:
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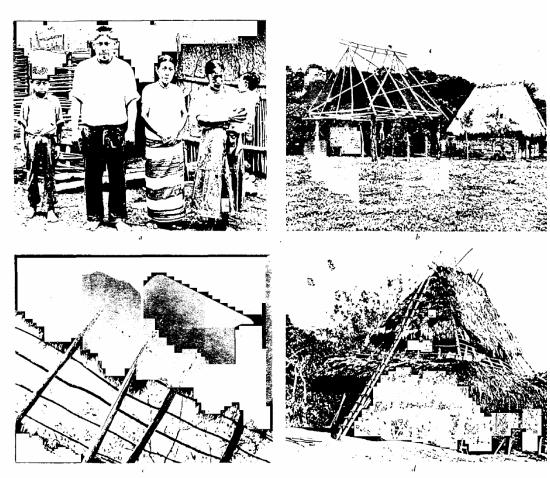




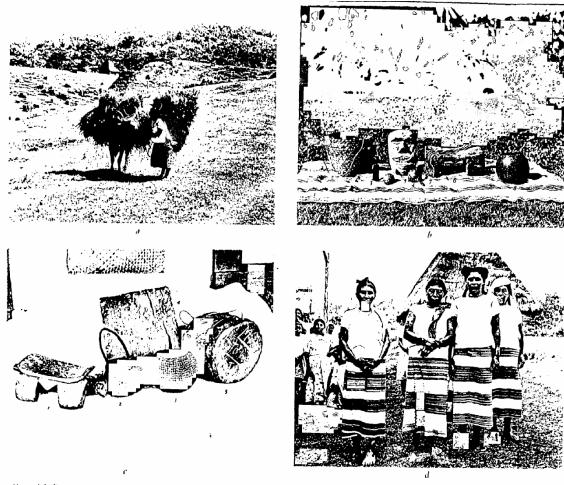
a, b.Two types of chicken coops. c, Vertical pole construction with spots of bajareque and hanging "nest" for setting hen. d, Domestication of bees thire made from a fourd).



a, Method of grinding corn. b, Single pole as base of house (note window on left, and yeast for chicha hanging on front wall). c, House base of earth with wooden pole support (woman scated on low stool making thread). d, Front stone terrace, Curré.



a, Two types of house construction in same house. b, Bare framework of roof, Palmar Norte. c, Roof framework in more advanced stage, Boruca. d, Partly finished roof showing framework, grass, and ladder.



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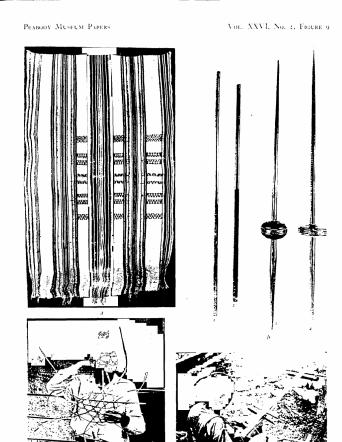
FIGURE

a, Ox and Indian woman laden with grasses for a roof. b, Artifacts of the Boruca: 1, manta or skirt; 2, haba; 3, doll; 4, maracas or rattles; 5, mask; 6, four-legged stool; 7, man's belt; 8, sieve. c, Artifacts of the Boruca: 1, four-legged stool with head and tail; 2, basket; 3, sieve; 4, bark cloth; 5, drum. d Women wearing the manta, or skirt, and blouse.

a, Girls laden with oranges in habas in front of school house, b, Cordage artifacts used by the Borna: 1, haba; 2, 4, 7, string bags made by the Talamanca peoples; 3, haba, 3, string bag made by the Borna; 6, hammock made by the Borna; 7, haba; 8, hammock made by the Borna; 1, haba; 1, haba; 2, haba; 2, haba; 2, haba; 2, haba; 2, haba; 3, haba; 2, haba; 3, haba; 3, haba; 3, haba; 4, haba

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a, Mana or skirt with single-faced weft-pattern weave (courtesy of Peabody Museum, Harvard University). B Pethalle artifacts, it, 2, pojibalie rods used in weaving, 3, 4, spindles and wherly of pejibalie courtesy of Peabody Museum, Harvard Chiversity), c, Start of a hele. A Worman weaving man's belt.

PEABODY MUSEUM PAPERS Vol. XXVI, No. 2, FIGURE 10

a. Funeral of a woman. b. Mask used in New Year's celebration. c. Straw marka (25 actual size). d, Rattles or markas with bone handles. e, Remains of contour agriculture on the savanna.

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