Carrent anthor entries.

UNITED STATES DEPARTMENT OF AGRICULTURE MISCELLANEOUS PUBLICATION NO. 447

Washington, D. C.

HasHM

Issued January 1942

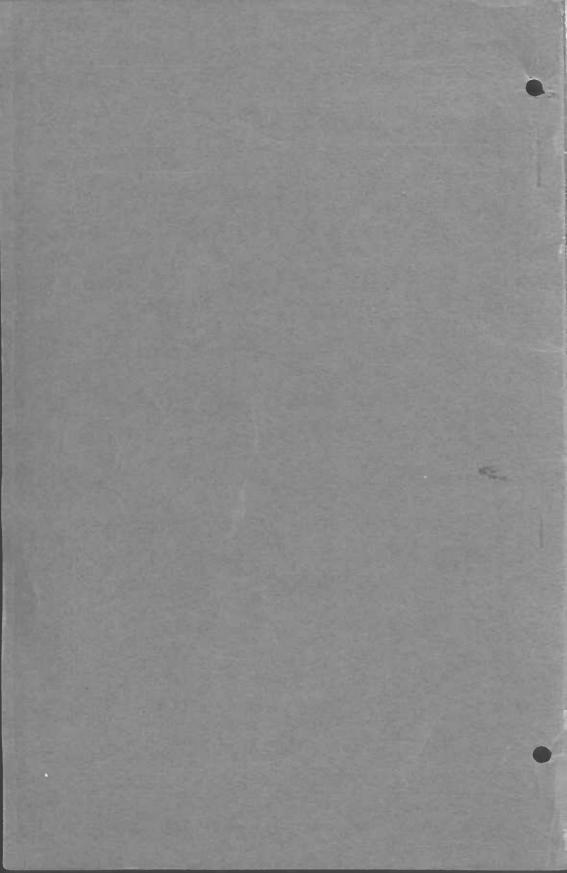
BRA

FEB 1 8 1942 A

A BIBLIOGRAPHY ON THE AGRICULTURE OF THE AMERICAN INDIANS

Compiled by

EVERETT E. EDWARDS and WAYNE D. RASMUSSEN Bureau of Agricultural Economics



UNITED STATES DEPARTMENT OF AGRICULTURE MISCELLANEOUS PUBLICATION No. 447

Washington, D. C.

Issued January 1942

A BIBLIOGRAPHY ON THE AGRICULTURE OF THE AMERICAN INDIANS

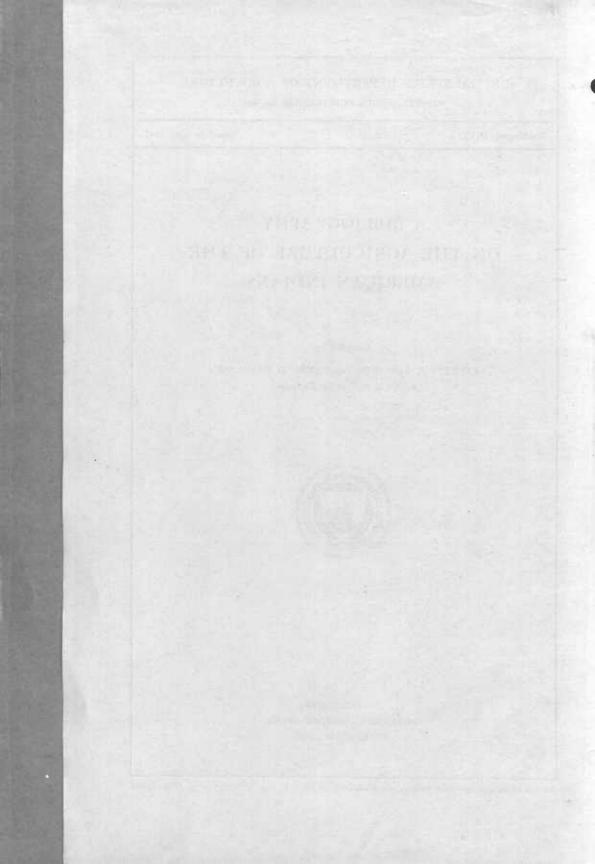
Compiled by

EVERETT E. EDWARDS AND WAYNE D. RASMUSSEN Bureau of Agricultural Economics



UNITED STATES GOVERNMENT PRINTING OFFICE WASHINGTON : 1942

For sale by the Superintendent of Documents, Washington, D. C. - - - - - Price 15 cents



CONTENTS

	Page
Preface	v
Introduction	1
Comprehensive histories	7
Agriculture of the American Indians:	
Comprehensive references	14
Agriculture of particular regions and tribes	24
Specific crops and animals	45
Agriculture on Indian reservations in the United States	64
Uncultivated plants used by the American Indians:	
Food and industrial plants	78
Medicinal plants	89
Index	97

III

8. E. S. FEB 2 3 1942



PREFACE

The scope of this bibliography is delineated in the table of contents. The section of comprehensive references on the pre-Columbian agriculture of the American Indian is of special interest to the general reader. The section on the centers of advanced agricultural development supplies references for the research worker who wishes to know about the methods used by the Indian in terrace farming, irrigation, conservation, and other evidences of progress beyond primitive cultivation. The section on the particular crops domesticated and raised by the Indian will, it is hoped, be helpful to the scientist in carrying on rcsearch incident to the history and improvement of these crops. The section on the agriculture of the reservations in the United States provides selected references on recent and present-day problems of irrigation, conscrvation, forestry, and land use. The sections on food and medicinal plants used by the Indian are of similar import for the scientist who seeks new sources of food and drugs. In view of the fact that the Indians constitute a large share of the populations of the New World countries other than the United States and Canada, the bibliography may also contribute to a better understanding of the culture of these countries and therefore to closer relations between North and South America.

The bibliography is comprehensive insofar as practicable. It includes the references that appear in the publication entitled "Agriculture of the American Indians; A Classified List of Annotated Historical References with an Introduction" which was issued in mimeographed form as U. S. Department of Agriculture Library Bibliographical Contributions 23 (ed. 1, May 1932; ed. 2, June 1933). To insure completeness, the following indexes have been consulted: Agricultural Index, 1916–1939; Annual Magazine Subject Index, 1908–1938; Industrial Arts Index, 1914–1939; International Index to Periodicals, 1920–1939; Poole's Index to Periodical Literature, 1882–1906; Readers' Guide to Periodical Literature, 1900–1939; Readers' Guide to Periodical Literature Supplement, 1907–1919; and Writings on American History, 1906–1935. advanced agricultural development supply of Mennes for the Maduator Subject Index 11408 Indexing Indexing Area

Compiled by EVERETT E. EDWARDS and WAYNE D. RASMUSSEN Bureau of Agricultural Economics 1

INTRODUCTION

If the Western Hemisphere had been unoccupied by an aboriginal people, the story of its conquest by Europeans would have been quite different. Although the American Indian was the cause of the red line of conflict on the frontier, he made many contributions to our present civilization (48).² Not the least of these were his agricultural plants, methods, and processes. It has been estimated that four-sevenths of the total agricultural production of the United States, measured in farm values, consists of economic plants that were domesticated by the Indian and taken over by the white man (104-105). The extent of the debt to the Indian for his work of domestication is emphasized when we recall that the white man has not reduced to cultivation a single important staple during the 400 years that he has dominated the New World.

In taking possession of the continents of the Western Hemisphere, among the first lands utilized by the Europeans were the clearings made by the Indians for their crude farms (315, 317-318). The whites attempted to use their European crops and methods but found it necessary to adopt many of those in use among the Indians. Out of the union of American Indian and European farming came the first solution of the food-quest problem of the colonists and the beginnings of modern American agriculture. Herein lies the reason that, in any adequate study of the history of agriculture in the United States, the agriculture of the Indians cannot be ignored.

Anthropologists tell us that the remote ancestors of the American Indian came from Asia some 10,000 or more years ago, while in the Neolithic stage of development. At that time they had no food supply in the form of domesticated plants and animals, nor did they know how to use metals. Their only implements were bows and arrows, stone axes, and knives. The same was true of the tribes that remained behind in the Eastern Hemisphere. Eventually, each group developed a stable food supply from the plants and animals at hand, entirely ignorant of the way the other was solving the same problem (23, 105, 109). In this connection H. J. Spinden's chronological and economic diagram of the parallelism between the development of the civilization of the Eastern and Western Hemispheres is of interest (104).

¹ Anne C. Chew has aided throughout the preparation of this bibliography. ³ The numbers in parentheses refer to the corresponding items in the bibliography.

For a long time the descendants of these first immigrants to America knew nothing of agriculture, but eventually tribes in the highlands of Mexico and Central America began the practice of protecting the plants relied on as their main source of food. Then, perhaps considerably later, they began to weed and, in a crude way, to cultivate them. Still later, they undertook systematic gathering of seeds and roots for planting in protected areas. This invention of agriculture in the Western Hemisphere, which occurred thousands of years ago, made possible noteworthy advances in human culture.

The flowering of the Mayan civilization—which began about 1000 B. C.—was based upon the economic conquest of the humid tropics. The Mayas not only modified the old series of plants to meet wetland conditions but also domesticated indigenous plants. The cacao plant, representations of whose pods appear as details of several sculptures at Copan dating from the fifth century A. D., was tended, and chocolate was prepared from its seeds. Other plants were also brought under cultivation, among them the papaya, the anona, the avocado, and the zapote (198, 201, 205–206, 208).

As a result of the gradual spread of the cultivation of maize, beans, and squashes to the north and south, agriculture came to be practiced in widely scattered parts of the Western Hemisphere. The process of distribution was slow, for gradual acclimating of the cultivated plants to localities farther and farther from their original tropical or subtropical homes required many centuries. To supplement these nonindigenous plants, however, local plants were brought under cultivation in the several regions. In South America the most important indigenous plant was the potato, a native of the Andes (446). In the Amazon Valley, the manioc, the sweetpotato, the pineapple, and the peanut were developed as sources of food. For North America, above Mexico, the indigenous food plants similarly utilized were limited to the Jerusalem artichoke and the strawberry. Had it not been for their natural abundance, it is probable that the blueberry, the cranberry, and wildrice would have been domesticated.

Paramount among the food plants domesticated and developed by the Indian and given directly or indirectly to the white man is corn, or maize. The white potato was destined to become one of the world's greatest food staples, along with wheat, rice, and corn. Tobacco is one of the most important of our present-day cash crops. Other plants originally used by the Indian are agave, alligator pear or avocado, arrowroot, barnyard grass, the many varieties of kidney and lima beans, cacao, capsicum or chili pepper, cashew nuts, cherimoya, cocoa, cotton (*Gossypium barbadense* L.), gourds of all kinds, guava, Jerusalem artichoke, madia, manioc or cassava, maté or Paraguay tea, oca, papaya, peanut, pineapple, pricklypear or Indian fig, pumpkin, quinoa,s, squash, star-apple, sweetpotato, and tomato (23, 65).

The adaptation of European methods to American conditions proved a problem of extreme difficulty. For several years after their foundation the first colonies faced starvation and survived only because of the supplies they received from the mother country and the food they bought or took from the Indians. The permanence of the colonies was assured only when they were established agriculturally, and this came after the crops and tillage methods of the natives had been adopted. Governor William Bradford told how Squanto came to the

2

relief of the Pilgrim Fathers, "showing them both ye maner how to set it [corn] and after how to dress & tend it. Also he tolud them excepte they gott fish & set with it (in these old grounds) it would come to nothing."

The entire "maize-culture complex"-to use a term of the anthropologist and the sociologist—was taken over by the white man (402). The farm of the pioneer, whether in the seventeenth century or the twentieth, is a counterpart of the Indian cornfield. The ground is exposed to the sunlight by girdling the trees or scotching their roots, and the trunks and stumps are removed by burning. The kernels of corn are planted in hills 3 or 4 feet apart; beans are planted with the corn, and pumpkins and squashes between the hills. The soil is cultivated to check the weeds and to keep it loose and friable. Scarecrows-and sometimes children on platforms-are used to keep away the birds. In harvesting the corn, the husking peg is still useful. The corn is stored in slatted cribs upon posts to facilitate air circulation. When used for human food, it is prepared in ways devised by the Indians. It must be granted that the white man has added machinery and animal power to the Indian method of planting corn and other plants of New World origin, but the native system of placing the plants in hills and heaping earth about the stalks during cultivation is still a fundamental process in farming, just as broadcast seeding is essential in growing the grains of Old World origin.

Several varieties of cotton were used by the Indian in pre-Columbian times. It is probably the only important cultivated plant which was domesticated independently in both hemispheres. Today the mainstay of the world's cotton industry is a native American species, Gossypium hirsutum L., which was cultivated by the Indians of Mexico. Besides llama wool and alpaca the Indian used several kinds of the maguey (Agave americana L.) and the Agave sisalana Perr., the sisal hemp, the piassava, the leaves of the pineapple, and the ixtile as sources of fiber. In northeastern North America the whites followed the Indian in making ropes and strings from black Indian hemp (Apocynum cannibinum L.) and the mark of the leatherwood (Dirca palustris L.). The Indian realized the properties of rubber. When the Spaniards entered Mexico they watched Indian ball games played in public courts and obtained balls as souvenirs to send home. A recent writer has referred to this incident as the beginning of the world's rubber trade (3).

Many vegetable products were gathered by the Indians but were not cultivated because of their natural abundance. Berries and roots were important sources of food and medicine. In contrast to our field crops, the American fruit industry is built mainly on fruits not native to this country. Of the common fruits, the following may be cited as native: Blackberry, blueberry, crab apple, cranberry, dewberry, elderberry, June berry, gooseberry (native in distinction from the European type), grape (excepting the European or vinifera type), huckleberry, mulberry (certain relatively unimportant types), persimmon (native in distinction from the Oriental type), plum (native in distinction from the Japanese and European types), raspberry (both red and black), and strawberry. The preponderance of berries in this native list is striking, and the absence of fruit trees is equally so. Two diagrams in the Yearbook of the United States Department of Agriculture for 1925 indicate effectively the relative importance of vegetables and fruits native to the United States and those introduced from other lands. Although the great bulk of the fruit grown represents varieties originated here, these varieties have come largely from foreign species.

The Indian had few domesticated animals. The dog alone was practically universal. In the Andes, the Incas had llamas and alpacas. The llamas were raised in herds, numbering thousands, and were not only used in transportation but were sheared for their wool and slaughtered for their flesh. Other domestications include that of the guinea pig by the Incas and that of the turkey by the tribes of Mexico and the southwestern United States, who kept them for their eggs and feathers as well as for their flesh. Bees were kept by the Aztecs, Mayas, and certain of the lesser tribes.

In aboriginal America, irrigation was practiced from Arizona to Chile. In the Salt River Valley there were about 150 miles of main irrigation ditches, and some of these have been incorporated into the modern systems. In Peru, irrigation was carried out on a scale scarcely equaled by modern peoples. The remains of the aqueduct systems of the Inca Empire show genius and organization which may well be respected today (280, 313).

Artificial fertilization was widely undertaken. One of the most prevalent methods, especially along the Atlantic coast, was to place fish in the cornhills during planting. In parts of the area of intensive agriculture manures were used.

In North America, hominy, pone, sagamité, samp, succotash, and supawn are typical native dishes. Pemmican and jerked beef were first prepared by the Indian, and in the Great Lakes region wildrice was and still is used in such quantity as to make it a staple (490). The entire technique of preparing maple sugar has been acquired from the Indian, and his way of cooking clams by baking and of preparing fish by planking have been adopted. The folk foods of Spanish America are largely aboriginal in origin; so also are the drinks—pulque, mescal, chicha, and cachiri. Various methods of making more palatable certain fruits, herbs, roots, and game were learned from the natives. Chewing gum also came from the Indian.

Following the discovery of America, many of the medicines used by the Indians became popular in Europe (48). While some of these are now regarded as having little therapeutic value, others are still of prime importance. At first Europeans regarded guaiacum wood (lignumvitae) and sarsaparilla as the most important American medicines. Tobacco and copal were first introduced into Europe as medicines. In the American colonies the Indian doctor who knew the uses of herbs, barks, leaves, roots, and juices treated the white pioneers or taught them secret remedies. The natives of Bolivia and Peru chewed the leaves of the coca plant long before the Spanish conquest, and they realized its physiological action in diminishing the feeling of fatigue and in dulling pain. Observing these facts, the white man developed cocaine for use as a local anesthetic.

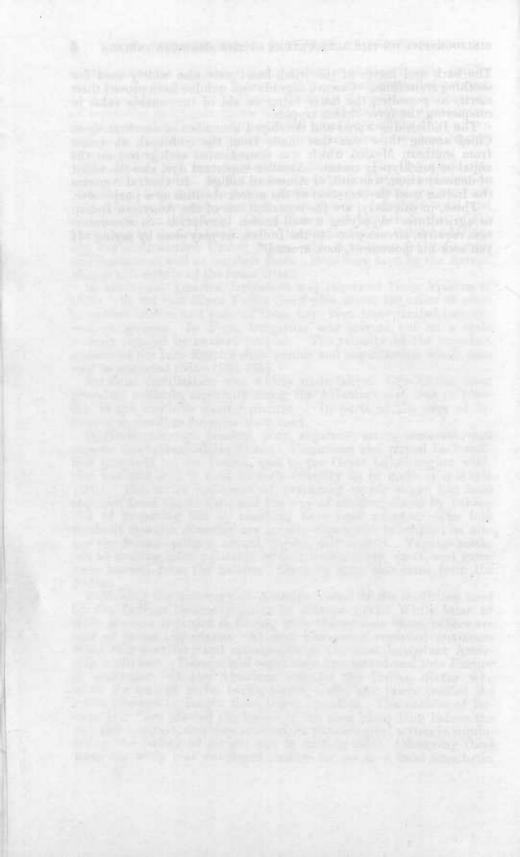
4

The bark and leaves of the witch-hazel were also widely used for soothing irritations. Cascara sagrada and quinine have proved their merits as remedies, the latter being an aid of inestimable value in conquering the fever-ridden tropics.

The Indian discovered and developed a number of excellent dyes. Chief among these was that made from the cochineal, an insect from southern Mexico which was domesticated and grown on the nopal or pricklypear cactus. Another important dye, also the result of domestication, was anil, or American indigo. In Central America the Indian used the secretion of the murex shellfish as a purple dye.

These, in summary, are the contributions of the American Indian to agriculture. Applying a well-known inscription—Si monumentum requiris, circumspice—to the Indian, we may close by saying "If you seek his monument, look around."

5



BROWN, F. MARTIN.

AMERICA'S YESTERDAY. 319 pp., illus. Philadelphia, J. B. Lippincott Co. 1937.

"A well-written and well-illustrated volume describing, in a nontechnical manner, the cultures of significant areas in the New World as revealed by archaeology, together with general observations on Indian civilization."—Canad. Hist. Rev. 20:97 (March 1939).

The volume includes material on the agriculture of the ancient Indian civilizations.

CAPITAN, LOUIS, AND LORIN, HENRI.

LE TRAVAIL EN AMÉRIQUE AVANT ET APRÈS COLOMB. Publiée sous la direction de Georges Renard. 463 pp. Paris, Librairie Félix Alcan. 1930.

The first part deals with labor among the prehistoric peoples of Mexico, Yucatan, and Peru; the second part with labor after the time of Columbus in all the colonies (New France, New England, the West Indies, and South America). The 1930 edition has not been examined. In the 1914 edition, see the section on agriculture in Mexico, pp. 40–48. Also French Canada, pp. 213–234. Review by Gustave Lanctôt in Canad. Hist. Rev. 12: 432–433 (December 1931).

DAVIS, EMILY CLEVELAND.

ANCIENT AMERICANS; THE ARCHAEOLOGICAL STORY OF TWO CONTINENTS. 311 pp., illus. New York, Henry Holt & Co. 1931.

See especially ch. 18, We Owe These to the Indian, pp. 272–282, and Basket Makers agriculture, pp. 77, 80; world debt to Indian agriculture, pp. 274–275; development of Indian agriculture, pp. 242–246; Mexican archaic agriculture, pp. 175, 213; Mound Builders' agriculture, pp. 119, 131; Indian agriculture in New England, p. 7; Peruvian agriculture, pp. 224, 276; Pueblo agriculture, pp. 6, 91; Irrigation, pp. 6, 25, 26, 229; menu for complete dinner of American origin, p. 272.

Review by Warren K. Moorehead in Miss. Val. Hist. Rev. 19: 411-413 (December 1932).

DIXON, ROLAND B.

THE BUILDING OF CULTURES. 312 pp. New York and London, Charles Scribner's Sons, 1928.

See the discussion of the problems concerning the origin and development of American prehistoric cultures and the different theories of diffusion.

EMBREE, EDWIN ROOERS.

INDIANS OF THE AMERICAS: HISTORICAL PAGEANT. 260 pp., ilius. Boston, Houghton Mifflin Co. 1939.

Prologue: White Magic, pp. 1-11; A Bronze Race in a New World (the settling of America; a separate life in America; the growth of Indian cuiture; products of the Indian world), pp. 12-25; Classic Indian Cultures (the Maya, pp. 28-52; the Aztecs of Mexico, pp. 53-84; the Inca Empire of Peru, pp. 85-114), pp. 27-114; North American Indian Life (introduction pp. 117-125; life on the western plains, pp. 127-159; the United States of the Iroquois, pp. 161-186; the Pueblos of the Southwest, pp. 187-234), pp. 117-234; Indians in a White World (the soul of a people, pp. 237-243; Indian contributions, pp. 245-245); a new Indian policy, pp. 245-249), pp. 237-249.

234; Indians in a White World (the soul of a people, pp. 237-243; Indian contributions, pp. 243-245; a new Indian policy, pp. 245-249), pp. 237-249. See also the index under the following headings: Agave; Agriculture; Ahuacotl; Animals, domestic; Avocado pear; Aztec calendar cycle; Aztec markets; Buffalo; Chicle; Coca, cocaine; Communal living; Cotton; Crops; Diseases; Food; Gardens; Highways; Horses; Inventions; Irrigation systems; Llama; Maguey plant; Maize; Maya agricultural year; Medicine; Money economy; Ovens; Pemmican; Pianned economy; Quinine; Sanitary regulations; Slsai; Slaves; Social organization; Teocalli; Teocentl; Textiles; Tobacco; Vicuña; Warehouses.

Reviews by Edward Frank Allen in N. Y. Times Book Rev., Jan. 14, 1940, p. 3; Anna Lewis in Miss. Val. Hist. Rev. 26: 561-562 (March 1940).

(1)

(2)

(3)

ent

(5)

(4)

8

FARRAND, LIVINOSTON.

BASIS OF AMERICAN HISTORY, 1500-1900. 303 pp., maps. New York and London, Harper & Bros. 1904. (The American Nation: A History, edited by A. B. Hart, v. 2.)

See pp. 70-262, which include the following chapters: 6, Classification and Distribution of the American Indians (1500-1900); 7, The Eskimo and the North Pacific Indians (1500-1900); 8, The Indians of the Northern Interlor and the Lower Pacific Coast (1800-1900); 9, The Indians of the Great Plains (1709-1900); 10, Northern Tribes of the Eastern Woodlands (1600-1900); 11, Southern Tribes of the Eastern Woodlands (1600-1900); 12, Indian Tribes of the Southwest and of Mexico (1500-1900); 13, Social Organization of the Indians (1500-1900); 14, Indian Houses, House Life, and Food Quest (1500-1900); 15, Indian Industrial Life and Warfare (1500-1900); 16, Indiau Rellgion, Mythology, and Art (1500-1900); 17, Character and Future of the Indians (1904). Critical essay on authorities, pp. 272-289. The map following p. 90 indicates the location of the Indian tribes.

FISKE, JOHN.

THE DISCOVERY OF AMERICA; WITH SOME ACCOUNT OF ANCIENT AMERICA AND THE SPANISH CONQUEST. 2 v. Boston, Houghton, Mifflin & Co. 1891.

Importance of Indian corn, p. 28; tillage with Irrigation, p. 29; distinction between horticulture and field agriculture, p. 48; effect of pastoral life upon property and upon the family, pp. 61-63; horticulture with irrigation, p. 83.

HERMANT, PAUL.

ÉVOLUTION ECONOMIQUE ET SOCIALE DE CERTAINES PEUPLADES DE L'AMÉRIQUE DU 110 pp. Paris. 1904. NORD.

Economic conditions, houses, arts and industrles, hunting and fishing, agriculture, social and polltical conditions, and family and marriage.

Brief review in Rev. Hist. Pub. Relating to Canada (1905) 10: 183-184.

HODGE, FREDERICK WEBB, ed.

HANDBOOK OF AMERICAN INDIANS, NORTH OF MEXICO. 2 V., Illus. 1907-1910. (U. S. Bur. Amer. Ethnol. Bul. 30.)

This handbook combines the features of a dictionary, cyclopedia, gazetteer, and bibliography of things pertaining to the aboriginal inhabitants of North America north of Mexico. Consult such topics as the following : Agriculture ; cotton, by Walter Hough; domestication; food; gourds; irrigation; maize, by Cyrus Thomas; tobacco, by Joseph D. McGuire; wildrice, hy Alexander F. Chamberlain; hoes; implements and utensils; spades. The folded map at the end is important; it shows the regional distribution of the Indians and the barriers which the various tribes made to the white advance. Bibliography, pt. 2, pp. 1179-1221, and a blbliography with each Important subject.

The work is reviewed by Clark Wissler in Amer. Anthrop. 9: 403-405 (April-June 1907). Also reviewed in Hist. Pub. Relating to Canada (1907) 12:160-161. Pt. 1 published also as House Doc. 926, pt. 1, ser. 5001, 59 Cong., 1st sess.

HULBERT, WINIFRED.

(10)INDIAN AMERICANS. 161 pp., illus. New York, Friendship Press. 1932.

Indlan contributions to the world, pp. 9-22. Review by Warren King Moorehead in Miss. Val. Hist. Rev. 19: 471-472 (December 1932).

HUNTINOTON, ELLSWORTH.

THE RED MAN'S CONTINENT; A CHRONICLE OF ABORIGINAL AMERICA. 183 pp., illus. New Haven, Yale Univ. Press. 1921. (Chronicles of America, edited by Allen Johnson, v. 1.)

See ch. 5, The Red Man In America, pp. 188-172; and the Bibliographical Note, pp. 173-175. See also the same author's article entitled "The First Americans" in Harper's Mag. 122: 451-462 (February 1911).

JENNESS, DIAMOND.

THE INDIANS OF CANADA. Canad. Nat. Mus. Ottawa, Bull. 65, 446 pp., illus. Ottawa, F. A. Acland, Printer. 1932.

See chapters 3, Economic Conditions, pp. 28-39; 4, Food Resources, pp. 40-52; 29, Agricultural Tribes of the Eastern Woodlands (Huron; Tobacco Nation and Neutrals; Iroquois), pp. 288-307; Bibliography, pp. 430-436.

(6)

(7)

(8)

(11)

(12)

JENNESS, DIAMOND--Continued.

For material on agriculture, see pp. 29 ff., 40 ff.; corn, pp. 29–30, 40–42 et passim; dogs, pp. 9, 29, 55, 67, 103–104, 174, 281, 301, 316, 347; maple sugar, p. 44; tobacco, pp. 41, 165, 173, 250, 273, 281, 288, 313–314, 317, 322, 334, 357; and wild rice, pp. 42–43, 279, 308. Review by Clark Wissier in Geog. Rev. 23: 245–246 (April 1933); T. F. McIlwraith in Canad, Hist. Rev. 15:318–320 (September 1934).

KROEBER, A. L.

CULTURAL AND NATURAL AREAS OF NATIVE NORTH AMERICA. Calif. Univ. Pubs. Amer. Archaeoi. and Ethnoi. 38:1-242, maps. 1939.

Many scattered comments on agriculture with a summary on pp. 218-221. Abstract of the conclusions under the title "Native American Population," in Amer. Anthrop. 36: 1-25, map (January-March 1934). Abstract reviewed by Diamond Jenness in Geog. Rev. 25: 514-516 (July 1935).

LATCHAM, RICARDO E.

LA AGRICULTURA PRECOLOMBIANA EN CHILE Y LOS PAÍSES VECINOS. 336 pp. Santlago, Chile. 1936.

Introduction, pp. 1-21; 1, The Native Towns at the Time of the Conquest, pp. 23-32; 2, Wild Plants used for Food by the Natives, pp. 33-59; 3, Other Fruit Trees (Peru, Chile), pp. 60-68; 4, Shrubs and Plants Bearing Edible Fruit, pp. 69-79; 5, Wild Roots and Tubers, pp. 80-110: 6-7, The Cuitlyated Plants, pp. 111-267; 8, Various Methods of Cultivating the Soil, pp. 268-303; 9, Farm Implements, pp. 304-331; Bibliography, pp. 332-336.

LAUBER, ALMON WHEELER.

(15)INDIAN SLAVERY IN COLONIAL TIMES WITHIN THE PRESENT LIMITS OF THE UNITED STATES. 352 pp. New York, Columbia Univ., 1913. (Columbia Univ., Studies Hist., Econ., and Pub. Law, v. 44, No. 3; whole No. 134.)

Indian slavery as practiced by the English, with the first three chapters on Indian slavery among the Indians themselves, the Spaniards, and the French. Bibliography, pp. 320–339. Published also as Ph. D. thesis, Columbia Univ., 1913. Reviews by Philip Alexander Bruce in Amer. His. Rev. 19: 356–357 (January 1914); and Louis Pelzer in Miss. Val. Hist. Rev. 1: 123–124 (June 1914).

LILLY, ELI.

PREHISTORIO ANTIQUITIES OF INDIANA. 293 pp., illus. Indianapolis, Ind. Hist. Soc. 1937.

"A description of the more notable earth-works, mounds, implements and ceremonial objects left in Indiana by our predecessors, together with some information as to their origin and antiquity, and the prehistory of Indiana." -Subtitle.

Nothing on agriculture or food, but considerable material on implements. Reviewed by R. G. M. in Ohio State Archaeol. and Hist. Quart. 48: 85-87 (January 1939).

MACLEOD, WILLIAM CHRISTIE.

THE AMERICAN INDIAN FRONTIER. 598 pp., ilius., maps. New York, Alfred A. Knopf. 1928. (History of Civilization . . . Historical Ethnology.)

"This volume represents the first attempt at an analysis of American frontier history made particularly from the viewpoint of the Indian side of frontier development." It is a study of the impact of European clvillzation on the American Indians. For reviews, see Canad. Hist. Rev. 10: 73-75 (March 1929); and Eng. Hist. Rev. 44: 326-327 (April 1929). Pt. 1, The Indians: 1, The Origin of the Indian; 2, How the Indian

Lived (numerical strength; economic pressure; ownership of iand; private ownership; soclai classes and slavery; political society; the Indian's indus-trial disadvantages); 3, How the Indian Tried Prohibition but Drank Too Much; 4, Smailpox and Other Diseases Among the Indians; 5, The Pre-Columbian Discoveries and the Meaning of Columbus.

Pt. 2, The Conquerors: 6, Spanish Aims in the Americas; 7, The Spaniards Kili off the First Indians and Replace them with Negroes; 8, They Put the Rest to Work; 9, The Catholic Missions; from Canada to Paraguay; 10, Ensiavement of Indians in Latin America: A Retrospect; 11, The Business Corporation Takes a Hand in Emplre Building.

9

(13)

(14)

(16)

(17)

MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE 10

MACLEOD, WILLIAM CHRISTIE-Continued.

Pt. 3, The Trader: 12, The Indian Trade and the French Policy in North America; 13, Celt and Indian; Britain's Old World Frontier in Relation to the New; 14, Old Virginia and New England, 1606-1633; 15, Jacob and Esau; or Why the Europeans Bought Indian Land; 16, Wars of 1637-1644, North and South; 17, King Philip's War and Bacon's Rebellion, 1675-1676; 18, The End of the Coast Tribes, 1711-1742; 19, The Iroquois Republic, Its

Rise and Fall, 1607–1754. Pt. 4, Social Retrospects: Contrasts Between the Latin and Anglo-Saxon Americans; 20, The Indian Labour Supply, Free and Slave, and Negro Slavery; 21, Other Compulsory Indian Labour, North and Latin American Compared; 22, The Mission System, and the Failure in North America; 23, Indian Against Indian, the Price of Freedom; 24, The Origin of Hate, Race Prejudice in North and Latin America; 25, Segregation of Races in Reservations in Latin America and Early North America.

Pt. 5, The Sweep of Empire: 26, The French War and Its Effects, 1754-1763; 27, Pontiac and his Beaver War, 1763-1765; 28, Tecumseh, the Meteor, and His Background, 1774-1814; 29, The Rise of the Great Reservation System; 30, The Eastern Tribes Moved to the Great Plains; 31, The Indian Country of the Plains; 32, The Destruction of the West Coast Tribes; 33, The Revolt of the Plains Indians; 34, The Red Cry for a Savior; 35, The Messiah and the Forerunner; Conclusion, the Liquidation of the Indian Problem in the United States; Bibliography, pp. 565-595.

MASON, GREGORY.

COLUMBUS CAME LATE. 341 pp., illus. New York, London, Century Co. 1931.

See ch. 3, Mother Maize, pp. 33-45; ch. 6, Vegetable-Fed, pp. 81-106; ch. 7, Agricultural Cities, pp. 107-129; ch. 13, The World's Most Successful Experiment in Socialism, pp. 257-282; List of Agricultural products and byproducts given to the world by America, p. 129; Bibliography, pp. 329-334.

Picture of Peruvian pottery representing ears of corn and peanuts, p. 4; fossilized ear of corn found in Peru, p. 4; vases representing vegetables cultivated in ancient South America, p. 96. Review by Warren K. Moorehead in Miss. Val. Hist. Rev. 19: 411-413

(December 1932); and Pacific Hist. Rev. 1: 374-376 (1932).

MASON, OTIS TUFTON.

THE ORIGINS OF INVENTION : A STUDY OF INDUSTRY AMONG PRIMITIVE PEOPLES. 419 pp., illus, London, Walter Scott. 1895.

1, Introduction, pp. 13-32; 2, Tools and Mechanical Devices, pp. 33-83; 3, Invention and Uses of Fire, pp. 84-120; 4, Stone-Working, pp. 121, 151; 5, The Potter's Art, pp. 152-182; 6, Primitive Uses of Plants, pp. 183-223; 7, The Textile Industry, pp. 224–257; 8, War on the Animal Kingdom, pp. 258–290; 9, Capture and Domestication of Animals, pp. 291–324; 10, Travel and Transportation, pp. 325-365; 11, The Art of War, pp. 366-409; 12, Conclusions, pp. 410-413.

PAYNE, EDWARD JOHN.

HISTORY OF THE NEW WORLD CALLED AMERICA. 2 v. Oxford, Clarendon Press. 1892-99.

V. 1, bk. 2, and v. 2 deal with aboriginal America, chiefly the conditions of life among the Indians as the result of natural conditions, especially the nature of the food supply and the lack of useful domestic animals.

In v. 1, note particularly the following discussions: Artificial production of food (savagery, barbarism, and civilization; food and the food surplus; method of artificial production; prevalence of savagery in the New World accounted for; unequal value of food animals and plants in relation to advancement; the dog in relation to advancement; poverty of the New World in animals capable of domestication; absence in New World of milch animals; effect of milch animals on population), pp. 276-292; the llama (antiquity of its domestication; basin of Lake Titicaca; economical value of the auchenias; minor domesticated animals; conversion of the auchenias into an artificial basis of subsistence; groups of alimentary vegetable species), pp. 292-304; alimentary vegetables of Old and New World

(19)

(20)

(18)

PAYNE, EDWARD JOHN-Continued.

compared (fruits in relation to advancement), pp. 304-310; cultivation of roots prior to that of cereals (the potato; roots superseded by cereals; advanced root culture, desiccation, instance of a root-cultivating population-Haiti; manioc cultivation in Haiti; social condition of Haitl; Haitian religion; labour involved in the culture of vegetable species), pp. 310-320; cereal agriculture in the New World—maize (origin of maize cultivation in Mexico and Central America; other centres of maize agriculture probable; obstacles to maize cultivation; maize in South America—Paraguay and Southern Peru; Cañari legend of the origin of malze cultivation; Northern Peru and New Granada; centres of artificial food production in America; migratory and stationary food production; primitive agriculture in America; transition to permanent agriculture; surface tillage in eastern North America; natural surface tillage on the Pacific side; cultivation of maize in relation to temperature; artificial extension of cultivable lands, terraces of Peru; minor extensions of cultivable areas; irrigation; irrigation for the purpose of warping, manuring; formation of the calendar; calendar feasts; modes of determining the solsticcs; art of masonry), pp. 320–354; extension of agriculture to nonalimentary and subalimentary plants (agri-culture and intoxicants; agriculture and drunkenness; extensions of agriculture, chilli pepper; the cotton plant; the American aloes; the pulque aloe; reduction of the aloe to cultivation; saccharines from the aloe and malze; the cacao tree; historical importance of the cacao tree; cacao the first object of special tropical agriculture; cacao, coffee, and tca; the Chian plant; the oil Chian; the coca tree), pp. 362-389; agriculture and religion pp. 389-433.

Review by Justin Winsor in Eng. Hist. Rev. 8: 246-251 (April 1893).

THOMAS, CYRUS.

(21)

THE INDIANS OF NORTH AMERICA IN HISTORIC TIMES. In conference with M. J. McGee. 464 pp. Philadelphia, George Barrie & Sons. 1903. (History of North America, edited by Guy Carleton Lee, v. 2.)

See especially ch. 20, The Indians as a Race and as a Factor In American History, pp. 414-432. Editor's introduction, pp. v-viii; author's preface, pp. ix-xi; 1, Aborigines of the West Indies and Central America, pp. 3-27; 2, Tribes of Mexico, pp. 29-51; 3, The Indians of Florida and the Eastern Gulf Statès, pp. 53-68; 4, The Indians of the Southern Atlantic Colonies, Virginia and Maryland, pp. 69-90; 5, The Indians of the Southern Atlantic Colonies, virginia and Maryland, pp. 109-130; 7, The Indians of New York, pp. 131-154; 8-9, The Indians of New England, pp. 155-209; 10, The Indians of the St. Lawrence, pp. 211-236; 11, The Indian History of the Ohio Valley; or, The Border Wars, pp. 237-260; 12, The Shawnees and the Mlamls, pp. 261-282; 13, The Indians of the Old Northwest, pp. 283-304; 14. The Indians of Alabama, Mississippl, and Western Georgia, pp. 305-324; 15, The Sioux and Tribes of the Plains, pp. 325-345; 16, Tribes of the Far Northwest, pp. 363-379; 18, The Indians of the Northwest Coast, pp. 381-398; 19, The Indians of the United States, pp. 399-413; 20, The Indians as a Race and as a Factor in American History, pp. 414-432; Appendix 1, List of Linguistic Families and Tribal Languages of Mexico and Central America, pp. 433-440; Appendix 2, List of Indian Stocks North of Mexico, pp. 441-443; Appendix 3, List of Indian Reservations in the United States in 1902, and the Number of Acres Contained in Each, pp. 445-480.

WIENER, LEO.

(22)

AFRICA AND THE DISCOVERY OF AMERICA. 3 v., illus. Philadelphia, Innes & Sons. 1920-1922.

See ch. 5, Tobacco, 1: 102–191; ch. 6, The Bread Roots, 1: 192–268; ch. 3, The Prehistory of Cotton, 2: 3–22; ch. 4, Cotton and Columbus, 2: 23–35; ch. 5, Cotton in Mexico, 2: 36–56; ch. 6, Cotton in Peru, 2: 57–82; ch. 7, Smoking in Antiquity, 2: 85–98; ch. 8, The Smoke Vender, 2: 99–121; ch. 9, Tobacco of the Moors, 2: 122–134; ch. 10, The Sovereign Remedy of the Indians, 2: 135–150; ch. 11, The Rediscovery of Tobacco, 2: 151–179; ch. 12, Tobacco and the Sciences, 2: 180–200. Bibliographical footnotes. Sources quoted, 1: xi-xix; 2: xi-xxii; 3: xlii-xxi.

200256-41-2

12

WISSLER, CLARK.

THE AMERICAN INDIAN; AN INTRODUCTION TO THE ANTHROPOLOGY OF THE NEW WORLD. Ed. 2, 474 pp., ilius., maps. New York, Oxford Univ. Press. 1922.

Note especially ch. 1, The Food Areas of the New World, pp. 1–27; and ch. 2, Domestication of Animals and Methods of Transportation, pp. 28–41. Note also fig. 1, Food Areas of the New World, p. 2; fig. 2, Map of the American Arctic, Showing the Habitat of the Muskox and the Caribou and the Migration Routes of the Eastern Eskimos, p. 4; fig. 3, The Distribution of Maize and Manioc, p. 20; fig. 6, The Distribution of Coca and Tobacco, p. 26; fig. 7, The Distribution of Animai Transport, p. 29; fig. 14, General Distribution of Types of Basketry, p. 51; fig. 58, Culture Areas, p. 219; fig. 59, The Plains Indians Culture Area (the most typical tribes are underlined), p. 221; fig. 65, Linguistic stocks in the United States and Canada (after J. W. Powell), p. 306; tables of linguistic stocks (after J. W. Powell), pp. 403–419. Bibliography, pp. 421–449.

and Canada (after J. W. Powell), p. 306; tables of linguistic stocks (after J. W. Powell), pp. 403–419. Bibliography, pp. 421–449. 1, The Food Areas of the New World, pp. 1–27; 2, Domestication of Animais and Methods of Transportation, pp. 28–41; 3, The Textile Arts, pp. 42–65; 4, The Ceramic Arts, pp. 66–75; 5, Decorative Designs, pp. 76– 101; 6, Architecture, pp. 102–118; 7, Work in Stone and Metals, pp. 119–131; 8, Special Inventions, pp. 132–139; 9, The Fine Arts, pp. 140–155; 10, Social Grouping, pp. 156–174; 11, Social Regulation, pp. 175–190; 12, Rituaiistic Observances, pp. 191–205; 13, Mythology, pp. 206–216; 14, The Classification of Social Groups According to Their Cultures, pp. 217–260; 15, Archaeoiogical Classification, pp. 261–286; 16, Chronology of Cultures, pp. 287– 303; 17, Linguistic Classification, pp. 304–323; 18, Somatic Classification, pp. 324–358; 19, Correlation of Classification, pp. 359–374; 20, Theories of Culture Orlgin, pp. 375–388; 21, New World Origins, pp. 389–400; Linguistic Tables, pp. 401–419.

Reviews by A. A. Goldenweiser in Amer. Hist. Rev. 23: 859-860 (July 1918); and Aibert Ernest Jenks in Amer. Mus. Jour. 18: 646-661 (Decemher 1918). Wissler's methods analyzed by A. L. Kroeber in chapter entitled "The Culture-Area and Age-Area Concepts of Clark Wissler" in Methods in Social Science, edited by Stuart A. Rice, pp. 248-265 (Chicago, Univ. Chicago Press, 1931). Resume of the book, including the maps of the food areas of the New World and the culture areas of the American Indians, is given in the article "The Culture of the American Indian: Its Regional Distribution and Origin," Geog. Rev. 10: 262-266 (October 1920). See also Carter A. Woods, "A Criticism of Wissler's North American Culture Areas," in Amer. Anthrop. 36: 517-523 (October-December 1934).

(24)

INDIANS OF THE UNITED STATES; FOUR CENTURIES OF THEIR HISTORY AND CUL-TURE. 319 p., iiius. New York, Doubleday, Doran & Co. 1940. (Amer. Mus. Nat. Hist. Sci. Ser.)

"The Indian of the frontier is the theme of this book few books specialize in the Indians of the United States, portray their struggies to resist the advancing frontier, describe their mode of life and its modifications due to residing among white people, and finally, give some account of the Indian personalities of the time. All this we have attempted to do in the succeeding pages."—p. v.

In the succeeding pages. --p. v. Pt. 1, The Indian in Prehistoric America; 1, The Aboriginal Pioncer, pp. 3-11; 2, Rise of the Stone Boilers, pp. 12-19; 3, The Farmers and the Potters, pp. 20-27; 4, The Builders (the Mound Builders; the aboriginal apartment houses), pp. 28-36; 5, The Coming of the Grand Pipe, pp. 37-48. Pt. 2, The Great Indian Families, pp. 52-234. Pt. 3, Indian Life in General: 18, the Indian Way of Life, pp. 237-250; 19, When the White Man went Indian, pp. 251-256; 20, Three Strange Gifts from the White Man (the gun; the horse; liquor), pp. 257-269; 21, The Mystery of the Indian Mind, pp. 270-280; 22, Life on a Reservation, pp. 281-291; 23, Did the Indian Live in Vain?, pp. 292-297. Publications on Indians, p. 298. Questions and answers, pp. 301-306.

See also the index under Acorns, as food; Agriculture; Animals, domesticated; Aqueducts; Calendars; Cigarettes; Cigars; Cooking methods; Corn; Cotton; Dog Domestication; Fibers; Foods; Horse; Irrigation; Land claims; Mapie sugar; Tobacco etc.

Review by R. L. Duffus in N. Y. Times Book Rev., Feb. 4, 1940, pp. 5, 20.

(23)

WISSLER CLARK-Continued.

THE RELATION OF NATURE TO MAN IN ABORGINAL AMERICA. 248 pp., illus., maps. New York, Oxford Univ. Press. 1926.

Introduction; 1, Traits of Material Culture; 2, Segregated Distributions; 3, Social Traits; 4, Somatic Traits; 5, The Distribution Form and Its Meaning; Bibliography.

Reviews by T. F. McIlwraith in Canad. Hist. Rev. 7:300-301 (December 1926); and R. B. Dixon in Amer. Anthrop. 29: 326-334 (July 1927).

See also the same author's article "Relation of Nature to Man as Illustrated by the North American Indians" in Ecology 5: 311-318 (October 1924).

- SKINNER, CONSTANCE LINDSAY, and WOOD, WILLIAM. (26)

ADVENTURERS IN THE WILDERNESS. 369 pp., illus., maps. New Haven, Yale Univ. Press. 1925. (The Pageant of America, edited by R. H. Gabriel, v. 1.)

Pp. 1-64 deal particularly with the American Indians and contain 127 pictures of them. Other parts of the book also contain material on the Indians.

(25)

AGRICULTURE OF THE AMERICAN INDIANS

COMPREHENSIVE REFERENCES

ANONYMOUS.

THE INDIAN AS A FARMER, Red Man 8: 111-113. December 1915.

INDIAN FOODS THAT WE EAT TODAY. School Arts Mag. 35: 77. October 1935. Brief list of plants received from the Indian and a Thanksgiving menu of foods cultivated by the Indian.

REDSKINS APPLIED CHEMISTRY IN CROP BAISING. Pop. Mechanics Mag. 61: 370-371. March 1934.

Many Indian activities called for a certain amount of practical chemistry. Planting fish in corn hills is an example.

AMSDEN, CHARLES.

THE FIRST FARMERS OF AMERICA. Masterkey (Southwest Mus., Highland Park, Los Angeles, Calif.) 3 (2): 5-12; (3): 13-17. July-August 1929.

The agricultural knowledge of the Indians in pre-Columbian times. Reprinted in Stone & Webster Jour. 47: 69-81 (July 1930).

THE LOOM AND ITS PROTOTYPES. Amer. Anthrop. 34: 216-235, illus. April-June 1932.

The probable technological evolution of the loom in ancient America.

ATWATER, HELEN W., and LANGWORTHY, C. F.

(32)AMERICA'S GIFTS TO THE OLD WORLD; A PAGEANT OR MASQUE FOR HOME ECONOMICS STUDENTS, 20 pp. Baltimore, Amer. Home Econ. Assoc. 1915. (Richards Mem. Fund Pub.)

"The Pageant or Masque is designed to emphasize the fact the New World gave to the Old many new fruits, vegetables, grains, ornamental plants, dye-stuffs, and other things valuable for daily use, as well as some new useful arts and new sports which were learned from the Indians."—p. v.

BATES, ERL.

THE BEDMAN AND HIS ANIMALS. Cornell Countryman 33:23. November 1935. The Indian's life was greatly influenced by his animals.

BLAOKBURN, GLEN A.

PREHISTORIC AMERICAN DIET. Ind. Mag. Hist. 29: 96-103. June 1933.

THE WHITE MAN TOOK MORE THAN THE LAND; HE ACQUIRED CROPS AND TILLAGE METHODS FROM AMERICA'S FIRST FARMER, THE INDIAN. Wallace's Farmer 54 (31):7. Aug. 2, 1929.

BRAND, DONALD D.

THE ORIGIN AND EARLY DISTRIBUTION OF NEW WORLD CULTIVATED PLANTS. Agr. Hist. 13: 109-117. April 1939.

Introductory discussion on methods of research used in the study of the origin and early distribution of plants, pp. 109-112; and summary of the author's conclusions concerning the plants used and cultivated by the American Indians, pp. 112-117.

(37)SYMPOSIUM ON PREHISTORIC AGRICULTURE. N. Mex. Univ. Bul. 296, 72 pp., illus. Albuquerque, N. Mex. 1936. (Anthropol. Ser. v. 1, No. 5.)

Introduction, by Donald D. Brand, pp. 5-10; The Origin of the Maize Plant and Maize Agriculture in Ancient America, by Paul Weatherwax, pp. 11-18; Maize as a Measure of Indian Skill, by James H. Kempton, pp. 19-28;

ED.

(29)

(27)

(28)

(34)(35)

(36)

(33)

(30)

(31)

BRAND, DONALD D., ED .-- Continued.

The Utilization of Malze among the Anclent Pueblos, by Katherine Bartlett, pp. 29-34; An Experimental Corn Field in Mesa Verde National Park, by Paul R. Franke and Don Watson, pp. 35-41; Prehlstoric Irrigation in the Salt River Valley, by Odd S. Halseth, pp. 42–47; The Snaketown Canal, by Emil Haury, pp. 48–50; A Summary of Data on Aboriginal Cotton in the South-west, by Volney H. Jones, pp. 51–64; An Approach to Southwestern Agri-cultural History through Adobe Brick Analysis, by G. W. Hendry and M. K. Bellue, pp. 65-72.

BRANEGAN, JAMES A.

(38)CHEMISTRY AND SCIENCE IN PREHISTORIC AMERICA. JOUR. Chem. Ed. 2: 588-592. July 1925.

Three short paragraphs on the agriculture of the Indians.

BROWNE, C. A.

(39)THE CHEMICAL INDUSTRIES OF THE AMERICAN ABORGINES. Isls 23:406-424. Sept. 1935.

Fertllizing soil, food preparation, beverages, salt, tanning skins, dyes, pottery making, metallurgy, medicine, and blbliography.

BRUMAN, HENRY J.

(40)THE RUSSIAN INVESTIGATIONS ON PLANT GENETICS IN LATIN AMERICA AND THEIR BEARING ON CULTURE HISTORY. In Handbook of Latin American Studies; A Guide to the Material Published in 1936 . . . Edited by Lewls Hanke, pp. 449-458. Cambridge, Mass., Harvard Univ. Press. 1937. Excellent summary with a bibliography, pp. 457-458.

BUKASOV, S. M.

(41)THE CULTIVATED PLANTS OF MEXICO, GUATEMALA, AND COLOMBIA. Trudy Prikl. Bot., Genet., i Selek. (Bul. Appl. Bot., Genet., and Plant Breeding.) Sup. 47. 553, xxxvii pp., illus. LenIngrad. 1930.

The results of the expedition of the Institute of Applied Botany of Leningfirad in 1925-26. Russion text, pp. 1-469; English text, pp. 470-553.

BUSHNELL, DAVID I., JR.

(42)PRIMITIVE SALT-MAKING IN THE MISSISSIPPI VALLEY. Man 7: 17-21, illus. February 1907.

The findings on the site of Indian salt-making, discovered by the author in 1902, about 30 miles below the mouth of the Missouri and a half mile west of the Misslssippi, near Klmmswick, Jefferson County, Mo.

CAMPBELL, HARRY.

(43)THE EVOLUTION OF MAN'S DIET. Lancet [London] 167: 781-784, 848-851; 909-912, 967-969, 1097-1099, 1234-1237, 1368-1370, 1519-1522, 1667-1670, illus. Sept. 10, 17, 24, Oct. 1, 15, 29, Nov. 12, 26, Dec. 10, 1904.

The article uses North American Indians as examples of several stages of dlet.

CAPRON, MARJORIE.

(44)AN ALL-AMERICAN THANKSGIVING DINNER. World Rev. 3: 151, Illus. Nov. 22, 1926.

"What we eat to-day Is what the Indlans taught our Pllgrim Fathers to raise three hundred years ago." The illustration Is "The First Thanksgiving Feast in America" from the painting by J. L. G. Ferris in Independence Hall, Philadelphia, reproduced from The Pageant of America.

CARE, LUCIEN.

(45)THE FOOD OF CERTAIN AMERICAN INDIANS AND THEIR METHODS OF PREPARINO IT. Amer. Antiquarlan Soc. Proc. (1895) 10 (1): 155-190.

See also the same author's article "Food of North American Indians" in Lend a Hand 15: 347-354 (November 1895).

(46)THE MOUNDS OF THE MISSISSIPPI VALLEY, HISTORICALLY CONSIDERED. Smithsn. Inst. Ann. Rpt. 1891: 503-599.

The Indian as an agriculturist, pp. 507-533. Bibliographical footnotes.

CARRIER, LYMAN.

THE BEGINNINGS OF AGRICULTURE IN AMERICA. 323 pp., illus. New York, McGraw-Hill Book Co. 1923.

See 3, American Indlans, pp. 20-25; 4, Natural Vegetation in Eastern America, pp. 26-40; 5, Indian Agriculture, pp. 41-52; 6-7, Indian Crops, pp. 53-78; 8, South and Central American Indian Crops, pp. 79-89; 9, Miscellaneous Indian Products and Practices, pp. 90-101; Bibliography, pp. 308-312.

See also the same author's article "Indian Agriculture" in South. Agr. 59 (4): 16-17 (Feb. 15, 1929).

CHAMBERLAIN, ALEXANDER F.

THE CONTRIBUTIONS OF THE AMERICAN INDIAN TO CIVILIZATION. Amer. Antiquarian Soc. Proc. (1904) 16: 91-126.

Valuable summary of the contributions of the American Indian, other than agricultural, to civilization: geographic names; words; influence on literature; trails; devices in hunting and fishing; agricultural processes; materials and methods in arts and industries; recreations llke lacrosse and snowshoeing; foods and drinks; medicines and narcotics.

COOK, ORATOR FULLER.

THE DEBT OF AGRICULTURE TO TROPICAL AMERICA. Pan Amer. Union Bul. 64: September 1930. 874-887.

Domestication of American plants; interchange of crops; tropical agriculture in the United States; maize our preponderant crop; food habits dlfficult to change; valuable cottons from Mexico; domestication of quinine and rubber; our tropical heritage.

The illustrations include vlews of the following: terraced gardens in the Peruvian highlands; ear and kernels of the Cuzco type of maize from the middle farming zone of Peru at elevations between 8,000 and 11,000 feet; ears and kernels of the Pigmy maize of the highest altitudes on the islands and slopes around Lake Titicaca; a field of Acala cotton in southern California; a mature plant of Acala cotton, showing abundant fruiting habit; open boll and combed fiber and seeds of Acala cotton; tapping a Hevea or Para

rubbertree on a small plantation on the north coast of Haiti. Reprinted In Smithsn. Inst. Ann. Rpt. 1931: 491-501, illus. Caroline B. Sherman in Social Sci. Abs. 3: 4117 (March 1931). Summary by

(50)

(51)

FOOD PLANTS OF ANCIENT AMERICA. Smithsn. Inst. Ann. Rept. 1903: 481-497.

A revision of the author's article "The American Origin of Agriculture" in Pop. Sci. Monthly 61: 492-505 (October 1902), with abstract in Current Lit. 34: 73-75 (January 1903).

MILPA AORICULTURE, A PRIMITIVE TROPICAL SYSTEM. Smithsn. Inst. Ann. Rpt. 1919: 307-326, liius.

"The milpa system of agriculture is characterized by the planting of crops in temporary clearings."

DU BOIS, CONSTANCE GODDARD.

THE PRIMITIVE INDIAN AS AN AGRICULTURIST. South. Workman 35: 500-503. September 1906.

EDWARDS, EVERETT E.

AMERICAN INDIAN CONTRIBUTIONS TO CIVILIZATION. Minn. Hist. 15: 255-272. September 1934.

Summary of the contributions of the Indians to present-day civilization with emphasis on agricultural contributions, Reprinted with the title "Indian Contributions to Civilization" in Scholastic 29 (6): 16 (Oct. 24, 1936).

EGGLESTON, EDWARD.

THE ABORIGINES AND THE COLONISTS. Century Illus. Monthly Mag. (n. s. 4) 26; 96-114, illus. May 1883.

See especially the "lessons learned from the barbarians," pp. 98-101.

(47)

(48)

(49)

(54)

(52)

FARABEE, WILLIAM CURTIS.

THE SOUTH AMERICAN INDIAN IN HIS RELATION TO GEOGRAPHIC ENVIRONMENT. Pan Amer. Union Bul. 45: 760–769, illus. December 1917. Orginally printed in Amer. Phil. Soc. Proc. (1917) 96: 281–288.

Agriculture and geographic environment are closely connected. See also Azara, Felix de, Voyages dans l'Amerique Méridionale . . . depuis 1781 jusqu'en 1801. 4 v. (Paris, 1809).

FAULKNER, HAROLD UNDERWOOD.

AMERICAN ECONOMIC HISTORY. Ed. 4, 828 pp., maps. New York and London, Harper & Bros. 1938. (Harper's Hist. Ser., Ed. by G. S. Ford.)

See pp. 8-11, on the influence of the character and distribution of American native products on the early settlers; pp. 60-63, on the agricultural achievements of the American Indian; and pp. 131-132, on Indians and the early westward movement.

FRACHTENBERO, LEO J.

(57)OUR INDEBTEDNESS TO THE AMERICAN INDIAN. Soc. Amer. Indians Quart. Jour. 2: 197-202. July-September 1914.

Also in Wls. Archeol. 14: 64-69 (July 1915). A summary of Indian contributions, including agriculture, based in part on Item 48.

GABRIEL, RALPH HENRY.

(58)TOILERS OF LAND AND SEA. 340 pp., illus., maps. New Haven, Yale Unly. Press. 1926. (The Pageant of America, edited by R. H. Gabriel, v. 1.)

See pp. 29-32 for seven paragraphs on the agriculture of the Indians of Virginia and New England. Illustrations showing an Indian village In Virginia with its fields, Indians planting corn, a Virginia harvest, Indians storing corn, Indians making maple sugar, and Squanto teaching the principles of corn culture accompany these paragraphs.

GILMORE, MELVIN RANDOLPH.

AN ETHNOBOTANICAL GARDEN. South. Workman 55: 220-223, illus. May 1926.

The proposal of the Museum of the American Indian, Heye Foundation, to lay out and plant an American ethnobotanical garden in the interlor court of their collection building in the Bronx, New York, near Pelham Bay Park.

IMPORTANCE OF ETHNOBOTANICAL INVESTIGATION. Amer. Anthrop. 34: 320-327. April–June 1932.

Introduction; interpretation of culture traits; as a measure of culture; relation to symbolism ceremonials, philosophy, linguistics, history; scope of primitive science; botanical observation in connection with pursuit of other lines of investigation; methods; preparation of specimens for herbarium; specimens of plant products; discrimination and careful sifting of information; distinction between indigenous and introduced plants; etymology of Indian plant names. Summary by the same author in Social Scl. Abs. 4: 14152 (August 1932).

GREGORY, CLIFFORD V.

(61)FARMING THROUGH THE AOES; THE FIRST FARMERS OF AMERICA. Prairie Farmer 101: 77, illus. Jan. 19, 1929.

The pictures are of agricultural implements made and used by early North American Indians-digging and planting stick, rakes, hoes, shoulder blade hoe with decoration, winnowing basket, and pick made of a jawbone are shown. Also plctures of ancient Maya pottery—a jug representing a gourd or melon, one personifying corn, and a bowl containing peanuts— "just as they were left centuries ago in a Maya tomb."

GRINNELL, GEORGE BIRD.

TENURE OF LAND AMONO THE INDIANS. Amer. Anthrop. 9:1-11. January-March 1907.

(62)

(59)

(60)

(55)

(56)

18 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

HAWLEY, FLORENCE M.

CHEMISTRY IN PREHISTORIC AMERICAN ARTS. JOUR. Chem. Educ. 8: 35-42, illus. January 1931.

(63)

(64)

(65)

(66)

(67)

(68)

(69)

(70)

(71)

(72)

(73)

"Simple chemlstry, as a result of long observation rather than as a science, was of considerable importance to primitive people who employed it in the production of their arts."—p. 35.

it in the production of their arts."—p. 35. Origin of ceramics; materials used in pottery; decoration of pottery; pastes and pigments used in pottery; chemical composition of the black pigments; coloring matter employed in other arts.

HERNDON, C. A.

A DINNER FROM THE INDIANS. Mentor 12 (2): 52. March 1924.

A menu for an all-American dinner is given. "The main ingredient of every dish on this bill of fare originated in the Americas and had been won from the wilds by Indians before white men put foot on the continent."

HOLMES, GEORGE K.

ABORIGINAL AGRICULTURE—THE AMERICAN INDIANS. In Cyclopedia of Amer. Agr. Edited by L. H. Bailey, 4:24-39. New York, Macmillan Co. 1909.

Particularly noteworthy is the list of plants used by the Indians before the advent of the whites, pp. 25-29, and the bibliographical notes.

JENKS, ALBERT ERNEST.

FAITH AS A FACTOR IN THE ECONOMIC LIFE OF THE AMERIND. Amer. Anthrop. 2: 676-689. October-December 1900.

Introduction; some beliefs affecting production; some beliefs affecting distribution; some beliefs affecting consumption.

KINNEY, CLESSON S.

HISTORY OF ANCIENT IRRIGATION IN VARIOUS COUNTRIES. ITTIG. Age 33 (3): 86-89. May 1918.

This article was written for The Irrigation Age in the early nineties by the late Judge Clesson S. Kinney of Salt Lake City, who in his day was considered one of the best informed men ln irrigation law and history in the United States. About half of the article is devoted to ancient irrigation ln the New World.

KIRKLAND, EDWARD C.

A HISTORY OF AMERICAN ECONOMIC LIFE. Rev. ed., 810 pp., maps. New York, F. S. Crofts & Co. 1939. (Crofts Amer. Hist. Ser., Dixon Ryan Fox, gen. ed.)

LANTIS, L. O.

THE FIRST AMERICAN FARMERS; AUTHENTIC ACCOUNTS OF THE RED MEN'S AG-RICULTURE. Ohio Farmer 164 (3): 60-61. July 20, 1929.

FIRST AMERICANS' FOOD AND COOKERY : INTERESTING DATA OLEANED FROM ANCIENT CHRONICLES. Ohio Farmer 164 (4): 80-81. July 27, 1929.

LOWIE, ROBERT HARRY.

THE INVENTIVENESS OF THE AMERICAN INDIAN. Amer. Mercury 24: 90-97. September 1931.

MACLEOD, WILLIAM CHRISTIE.

CONSERVATION AMONO PRIMITIVE HUNTING PEOPLES. Sci. Monthly 43: 562-566. December 1936.

DEBTOR AND CHATTEL SLAVERY IN ABORIGINAL NORTH AMERICA. Amer. Anthrop. 27: 370-380. July 1925.

The available data on slavery among the agricultural tribes of North America. Supplement with the same author's article "Economic Aspects of Indigenous American Slavery" in Amer. Anthrop. 30: 632–650 (October– December 1928); and "Some Aspects of Primitive Chattel Slavery" in Social Forces 4: 137–141 (September 1925).

MASON, GREGORY.

NATIVE AMERICAN FOOD. Nat. Hist. 37: 309-318, ilius. April 1936.

"What the Indians gave us to eat and how their discoveries influenced the dietary habits of the world."-Subtitle. Summarized under the title "American Aborigines; Great Farmers" in Lit. Digest 121 (16): 22 (Apr. 18, 1936).

MERRILL, ELMER D.

CROPS AND CIVILIZATIONS; CULTIVATEN PLANTS AND THE ORIOINS OF CIVILIZA-TIONS. Nat. Hist. 33: 235-250, illus., map. May-June 1933.

Special attention is given to the plants of New World origin on pp. 240-247. (76)

DOMESTICATED PLANTS IN RELATION TO THE DIFFUSION OF CULTURE. In Early Man, edited by George Grant MacCurdy, pp. 277-284. Philadelphia and New York, J. B. Lippincott Co. 1937.

"Agriculture in America was developed independently and was not influenced in the slightest by any agricultural development in the Old World."

(77)THE PHYTOGEOGRAPHY OF CULTIVATED PLANTS IN RELATION TO ASSUMED PRE-COLUMBIAN EURASIAN-AMERICAN CONTACTS. Amer. Anthrop. 33: 375-382. July-September 1931.

"The diametrically opposed theories of early Eurasion influences versus an autochthonous civilization in America," have led the author "to approach the subject from a point of view that has curiously been overlooked, ignored, or minimized by proponents of the Eurasion influence idea, and by most or all popular writers on ethnological subjects bearing on this question, and that is from the standpoint of the origins of cultivated plants and domestic animals, or in other words the origins of agriculture. These points have been considered by some ethnologists who have realized their full significance, but many seem to have avoided anything approaching the field of biography." His conclusion is that "the biological-agricultural evidence is wholly and unmistakably in support of an autochthonous development of the pre-Columbian civilizations in America, with no Eurasion contacts or influences shaping or developing them." Summary by E. B. Renaud in Sociai Sci. Abs. 4: 101 (January 1932).

(78)THE PROBLEM OF ECONOMIC PLANTS IN RELATION TO MAN IN PRE-COLUMBIAN AMERICA. 5th Pacific Sci. Cong. Canada, Proc. (1933) 1: 759-767. Toronto, Univ. Toronto Press. 1934.

NEWHALL, BEATRICE.

CHOCOLATE IN NEW SPAIN. Pan. Amer. Union Bul. 70: 786-793, illus. October 1936.

Article based on José García Payón, Amaxoxoatl; o Libro del Chocolate (Toluca, Mexico, 1936).

Cacao was cultivated and used in many ways by the Indians, and early became popular with the Spaniards.

NICOL, HUGH.

MIXED CROPPING IN PRIMITIVE AORICULTURE. Empire Jour. Expt. Agr. 3: 189-195. April 1935.

American Indian agriculture, pp. 193-194.

NORDENSKIÖLD, ERLAND,

THE AMERICAN INDIAN AS AN INVENTOR. Roy. Anthrop. Inst. Jour. 59: 273-309. July-December 1929.

Elucidation of the important problem of independent inventions and culture loans. The illustrations show manioc graters, cigar holder, vessel with holiow rim, flutes, hearthstones of baked ciay, barbed fish hook, wooden spurs, and sugar mill. Bibliography, pp. 307-309. Summary with same title in Scot. Geog. Mag. 47: 39-40 (Jan. 15, 1931).

For a criticism of Nordenskiöid's studies, see Wilhelm Koppers, "Methodoiogisches zur Frage der Kulturbeziehungen zwischen der Alten und der Neuen Welt; mit besonderer Berücksichtigung neuerer einschlägiger Untersuchungen von E. von Nordensklölds," in Anthrop. Gesell. Wien Mitt. 62 (6): 319-327 (1932).

(74)

(79)

(80)

(81)

(75)

OLIN, WALTER HERBERT.

(82)AMERICAN IRRIGATION FARMINO; A SYSTEMATIC AND PRACTICAL TREATMENT OF EVERY PHASE OF IRRIGATION FARMINO, INCLUDING ITS HISTORY, WITH STATISTI-CAL TABLES AND FORMULAS. 364 pp. illus. Chicago, A. C. McClurg & Co. 1913.

Ancient irrigation in the Americas, pp. 8-12. Bibliography, pp. 349-355. PARKINS, A. E. (83)

THE INDIANS OF THE OREAT LAKES REGION AND THEIR ENVIRONMENT. Geog. Rev. 6: 504-512. December 1918.

The Five Nations; the Hurons; the Ottawas; the Chippewas; wildrice Indians; Indians of the lake plains and river valleys between Lakes Erie and Michigan; the Indians forest economy; Indian as fisherman; Great Lakes fishing sites; Indian as hunter; unused resources and the effect of civilization.

PEET. S. D.

(84)PREHISTORIC FARMINO. Wis. State Agr. Soc. Trans. (1887) 25: 390-408.

Early Indian agriculture throughout America, with emphasis on Wisconsin. PÉNARD, J. M.

LAND OWNERSHIP AND CHIEFTAINCY AMONO THE CHIPPEWAYAN AND CARIBOU-EATERS. Primitive Man 2 (1-2): 20-24. January 1929.

Landownership among the little-known Chippewayan, an Athapascanspeaking tribe of northern Saskatchewan and Alberta. A note by Father John Cooper summarizing the data in old sources on northwestern tundra land tenure, and indicating its significance in relation to the similar land tenures of the northern Algonkian is also included.

PETRULLO, VINCENZO.

(86)ANCIENT CIVILIZATIONS OF AMERICA. Pan Amer. Union Bul. 69: 169-182, ilius. March 1935.

Aziec, Mayan, and Incan civilizations, including agricultural achievements. POWELL, E. P. (87)

THE INDIANS AS OARDENERS. Country Life [Garden City, N. Y.] 29 (6): 130, 132. April 1916.

POWELL, J. W.

(88)THE NORTH AMERICAN INDIANS. In The United States of America, edited by Nathaniei Southgate Shaier, 1: 190-272. New York, D. Appleton & Co. 1894.

Subsistence of the Indians, pp. 245-249; domestication of animals by Indians, pp. 249-251; Indian technology, pp. 251-256.

RENAUD, E. B.

(89)INFLUENCE OF FOOD ON INDIAN CULTURE. Social Forces 10: 97-101. October 1931.

Chiefly concerning the buffalo as the center of the plains culture.

SAFFORD, WILLIAM EDWIN.

(90)FOOD PLANTS AND TEXTILES OF ANCIENT AMERICA. 19th Internati. Cong. Americanists, Washington, Proc. 1915: 12-30. 1917.

Also in 2d Pan Amer. Sci. Cong. Proc., Washington, Dec. 27, 1915-Jan. 8, 1916, v. 1, sect. 1, Anthropology, pp. 146-159 (Washington, Govt. Print. Off., 1917).

The illustrations show a display in the U.S. National Museum of terra cotta funerai vases representing food products, from ancient Peruvian graves of the coast region near Trujilio and Chimbote, and four individual vases. The subheadings are: maize; quenua; beans; iupines; peanuts; other legumes; Bromeliaccae; gourds; squashes and pumpkins; Annonaceae; Lucumas; pepinos; Cuphomandias; almonds of Chachapoyas; Capsicum peppers; pichurim beans; baisam of Peru; seeds used as rattles; roots and tubers; coca; chocolate; Ilex paraguayensis (yerba maté); Nicotiana tabaeum (tobacco); cohoba, the narcotic snuff of Hispanioia; other narcotics; textiles; cotton; Furcraea fiber.

(91)FOODS DISCOVERED WITH AMERICA. Sci. Monthiy 21: 181-186. August 1925. The menu composed entirely of dishes made up of foods discovered with America is of considerable interest.

SAFFORD, WILLIAM EDWIN.

THE ISOLATION OF ANCIENT AMERICA AS ESTABLISHED BY THE CULTIVATED PLANTS AND THE LANGUAGES OF ITS ABORIGINES. 20th Internatl. Cong. Americanists, Rio de Janeiro, Proc. (1922) 1: 167-171. 1924.

The complete isolation of America from the rest of the world before the time of Columbus, indicated by the fact that no grain or food plant of the Old World had found its way to the Western Hemisphere in prehistorle times and vice versa.

(93)THE ISOLATION OF ANCIENT AMERICA AS INDICATED BY ITS AGRICULTURE AND LANGUAGES. Sci. Monthly 22: 55-59. January 1926.

(94)NOTRE HERITAGE DES INDIENS AMÉRICAINS. 20th Internatl. Cong. Americanists, Rio de Janeiro, Proc. (1922) 1: 173-178, illus. 1924.

The important plants used as food, medicine, and dyes, and the textile and other economic plants discovered and introduced into cultivation by the American aborigines before the time of Columbus. Translated under the tltle "Our Heritage from the American Indians" in Smithsn. Inst. Ann. Rpt. 1926: 405-410, illus.

SANFORD, ALBERT HART.

(95)THE STORY OF AGRICULTURE IN THE UNITED STATES. 394 pp., illus. Boston, New York, D. C. Heath & Co. 1916.

See ch. 1, The Indians as Farmers, pp. 1-11.

SAPPER, KARL.

(96)GEOGRAPHIE DER ALTINDIANISCHEN LANDWIRTSCHAFT. Petermanns Mitt. aus Justus Perthes' Geog. Anst. 80: 41-44, 80-83, 118-121, map. Gotha, Germany. 1934.

Tropical agronomy in pre-Columbian America; temperate agronomy in America; ancient' Indian animal breeding; pre-Columbian additions to Indian agriculture. The map following p. 72 gives a good picture of the agricultural regions of pre-Columbian America.

(97)DIE GEOGRAPHISCHE BEDINGTHEIT DER ALTAMERIKANISCHEN HOCHKULTUREN UND KULTURSTAATEN. Petermanns Mitt. aus Justus Perthes' Geog. Anst. 178-182, 245-248. 1931. 77:

The reasons why the pre-Columbian cultures developed on highlands; the types of states developed among the Indians. Climatic factors are stressed.

SAUER, CARL.

(98)AMERICAN AGRICULTURAL ORIGINS: A CONSIDERATION OF NATURE AND CULTURE. In Essays in Anthropology Presented to A. L. Kroeber, pp. 279–297. Berkeley, Univ. Calif. Press. 1936.

American agriculture had plural origins in the humid lands of mesothermal climate.

SPECK, FRANK G.

ABORIGINAL CONSERVATORS. Bird-lore 40: 258-261. July-August 1938.

"Both the system of land tenure and the close association, often of an almost spiritual nature, that existed between the Algonklan Indians of north-eastern Canada and all species of animals and plants prevented wanton destruction, and led to a thoroughly satisfactory system of wild life con-servation."-Canad. Hist. Rev. 20: 104 (March 1939).

(100)LAND OWNERSHIP AMONG HUNTING PEOPLES IN PRIMITIVE AMERICA AND THE WORLD'S MARGINAL AREAS. 22d Internatl. Cong. Americanists, Rome, Proc. (1926) 2: 323-332.

SPINDEN, HERBERT JOSEPH.

LA AGRICULTURA EN LA AMERICA PRECOLOMBIANA. La Haclenda 23:202-204, illus. June 1928.

"De Cómo los Indígenas del Continente Americano Cultivaban y Explotaban Numerosas Plantas Agrícolas, Forestales y Medicinales—Patatas, Maíz, Cacao, Habichuelas, Cocahuetes, Caucho, etc.—ya Muchos Siglos Antes de la Llegada de los Espanoles."-Subtitle.

(92)

(99)

(101)

22 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

SPINDEN, HEBBERT JOSEPH.

(102)

(103)

(104)

THE INVENTION AND SPREAD OF AGRICULTURE IN AMERICA. AMER. Mus. Jour. 17 (3): 181-188. March 1917.

The lijustrations show the following: pottery reproductions of maize, cast in molds that were made over actual ears of maize-these reproductions were sometimes used as details on great ceremonial urns in southern Mexico; pottery reproductions of squashes; the "maize god" of the Peruvians whose body is formed of molded ears of malze, buried in the field as a prayer for good crops; a water jar decorated with peanuts found in the cemetery of Chimbote on the arid coast of Peru. The map shows the pottery distribution and agriculture in the New World.

Reprinted, Including the illustrations, under the title "Origin of American Agriculture ; Ancient Pottery Reveals the Invention and Spread of Agriculture in America" in Sci. Amer. Sup. 88: 120-121, 127, Illus. (Aug. 23, 1919).

THE ORIGIN AND DISTRIBUTION OF AGRICULTURE IN AMERICA. 19th Internati. Cong. Americanists, Washington, Proc., 1915: 269-276. 1917.

Reprinted In Alfred Louis Kroeber and Thomas Talbot Waterman, eds., Source Book in Anthropology, pp. 245-251 (Callf. Univ. Syllabus Ser. No. 118, Berkeley, Unlv. Calif. Press, 1920).

THE POPULATION OF ANCIENT AMERICA. Geog. Rev. 18: 641-660, maps. October 1928.

Though pertaining primarily to Central America, the factors which have led to the decrease of the Indians there are applicable to the race as a whole, and the author's estimates of population refer to both continents. The chronological and economic diagram of the parallelism between Old and New World civilizations presenting in summary form some of the facts bearing on the question of the population of ancient America is of particular interest. There are a few paragraphs on Indlan agriculture, including the statement that about four-sevenths of the agricultural production of the United States (farm values) is in economic plants domesticated by the American Indian and taken over by the white man.

Reprinted in Smithsn. Inst. Ann. Rpt. 1929: 451-471.

(105)

THANK THE AMERICAN INDIAN; WE OWE TO THE INDIAN WELL OVER HALF OF OUR GREAT AGRICULTURAL WEALTH; POTATOES, MAIZE, CACAO, BEANS, THE PEANUT, RUBBER AND OTHER PLANTS WERE DOMESTICATED HERE LONG BEFORE COLUMBUS DISCOVERED AMERICA. Sci. Amer. 138: 330-332, Illus. Aprli 1928.

Excellent study of the origin and domestication of the plants which constluted our inheritance from the ancient civilization of American Indians. In the first paragraph the author states that four-sevenths of our total agricultural wealth "consists of crops unknown in the Old World until after the momentous voyage of Columbus."

The iliustrations show the following: A stone on which is a carving of the monkey god of cacao, cacao pods being attached to his limbs and tall; the goddess of water holding ears of maize in her hands; a sixth century sculpture from Copan of the god of maize, his head being an opening ear of maize; the god of maize of Peru, a bundle of actual ears supplying the mold for this tusked god, whose children are also shown.

STIBLING, MATTHEW W.

(106)

AMERICA'S FIRST SETTLERS, THE INDIANS. Natl. Geog. Mag. 72: 535-596, illus. November 1937.

Useful for its illustrations and general comments on the various contributlons of the American Indians.

STURTEVANT, E. LEWIS.

(107)KITCHEN GARDEN ESCULENTS OF AMERICAN ORIGIN. Amer. Nat. 19: 444-457, 542-553, 658-669. May, June, July 1885.

Introduction, p. 444; alkekengi (strawberry tomato), pp. 444-446; kidney bean, pp. 446-452; lima bean, pp. 452-454; asparagus bean, p. 454; scarlet runner bean, pp. 454–455; cucumber, pp. 455–456; garllc, leek, onion, chives, pp. 456–457; Jerusalem artlchokc, p. 542; martynla, pp. 542–543; nasturtium, pp. 543–544; peppers, pp. 544–550; potatoes, pp. 550–553; pumpkins and squashes, pp. 668–663; purslane, pp. 663–664; sweet corn, pp. 664–665; sweetpotato, pp. 666-667; tomato, pp. 667-669. Bibliographical footnotes.

THOMAS, CYRUS.

REPORT ON THE MOUND EXPLORATIONS OF THE BUREAU OF ETHNOLOGY. U. S. BUR. Amer. Ethnol. Ann. Rpt. (1890-91) 12: 3-742, illus., maps. Agriculture of the Indians, pp. 615-620.

VAVILOV, N. I.

MEXICO AND CENTRAL AMERICA AS THE PRINCIPAL CENTER OF ORIGIN OF CULTIVATED PLANTS OF THE NEW WORLD. Trudy Prikl. Bot., Genet., 1 Selek. (Bul. Appl. Bot., Genet., and Plant Breeding) 26: 135-199. Leningrad. 1931.

Russlan text, pp. 135-178; English text, pp. 179-199. Revlew ln Geog. Rev. 21: 680-682 (October 1931).

(110)THE PROBLEM OF THE ORIGIN OF THE WORLD'S AGRICULTURE IN THE LIGHT OF THE LATEST INVESTIGATIONS. 10 pp., illus. In Science at the Cross Roads; Papers Presented to the International Congress of the History of Science and Technology, London, June 29-July 3, 1931, by the Delegates of the U. S. S. R. London, Kniga (England). 1931.

LE PROBLÉME DE L'OBICINE DES PLANTES CULTIVÉES. Inst. Natl. Agron. Paris, Ann. (ser. 2) 26: 239-246. 1934.

VERRILL, ALPHEUS HYATT.

FOODS AMERICA GAVE THE WORLD. 289 pp., illus. Boston, L. C. Page & Co. 1937.

Introduction, pp. v-x; 1, The Grass We Call Corn, pp. 1-9; 2, The Grain of the Gods, pp. 10-17; 3, What Corn Has Done for Civilization, pp. 18-24; 4, The Strange Story of the Potato, pp. 25-32; 5, First Cousins of the Spud, pp. 33-41; 6, The Most Valuable Root Food, pp. 42-48; 7, Foods our Southern Neighbors Love, pp. 49–57; 8, Food Made from Polson, pp. 58–66; 9, The Story of Chocolate, pp. 67–74; 10, The Tea of the Gauchos, pp. 75–82; 11, Pumpkins and Their Kln, pp. 83–87; 12, Who Doesn't Know Beans?, pp. 88–94; 13, The Mighty Peanut, pp. 95–100; 14, Our Edible Weeds, pp. 101–109; 15, The Most Useful Trees, pp. 110-119; 16, The Fruit of Hospitality, pp. 120-125; 17, Fruits the Roses Give Us, pp. 126-137; 18, The Orchid that Flavors our Cakes, pp. 138-143; 19, Fruits We Seldom See, pp. 144-171; 20, Nuts for Dessert, pp. 172-182; 21, Strange Foods of Strange People, pp. 183-188; 22, The Thanksgiving Bird, pp. 189-195.

Appendices in collaboration with Otis W. Barrett: Check List of all American Food-Plants; Derivation and Meanings of Plant Names; List of American Food Animals, pp. 197-279.

WEDEL, W. R.

DUST BOWLS OF THE PAST. Science (n. s.) v. 86, No. 2232, Sup. Oct. 8, 1937. The possible use of evidence concerning ancient Indian village sites to indicate undependable areas for farming. Same in Sci. News Letter 32: 232 (Oct. 9, 1937).

WISSLER, CLARK.

AGRICULTURE; PRIMITIVE AGRICULTURE. Encycl. Social Scl. 1: 572-574. New York, Macmillan Co. 1930.

Bibliography, pp. 598-599. See also articles on Irrigation, Migration, Nomads, Culture, and Anthropology.

(115)THE INDIAN AND THE WHITE MAN'S BUFFALO. Nat. Hist. 40: 625-630, 697. November 1937.

The difficulty of getting the Indians to adopt white civilization.

THE NORTH AMERICAN INDIANS OF THE PLAINS. Pop. Sci. Monthly 82: 436-444, maps. May 1913.

The maps show the culture areas of North America, the location of the Indians of the Plains, and the distribution of forests ln western Unlted States. (117)

PREHISTORIC MAN. Mentor 8 (2): 1-11, illus. Mar. 1, 1920.

Agricultural as well as general characteristics of prehistoric man. The illustrations are of the American Indians.

(114)

(116)

(113)

(111)

(112)

(109)

(108)

AGRICULTURE OF PARTICULAR REGIONS AND TRIBES

AZTEC AGRICULTURE

BUTMAN, CARL HAWES.

XOCHIMILCO AND ITS LAKE OF GARDENS; AZTEC IRRIGATION OF THE SIXTEENTH CENTURY. Sci. Amer. Sup. 74: 132-133, illus. Aug. 31, 1912.

The unique Irrigation system which the Aztecs were using when Cortez invaded Mexico in 1521.

CURRAN, C. H.

INSECT LORE OF THE AZTECS. Nat. Hist. 39: 196-203, Ilius. March 1937. "Revealing early acquaintanceship with many of our agricultural pests and therapeutlc measures against so currently prominent a creature as the black widow spider."-Subtitle.

HOUGH, WALTER.

THE PALM AND AOAVE AS CULTURE PLANTS. 15th Internatl. Cong. Americanists, Quehec, Proc. (1906) 1: 213-221.

The civilization of the Mexican plateau was based on the agave.

PREHISTORIC AMERICAN OARDENS. Gard. Mag. and Home Builder 42: 41-43, September 1925. Illus.

Gardening in the two Americas before the advent of Columbus; the part flowers played in Incaland and early Mexico; amusing movable gardens and how bird conscrvation began four centuries ago.

MENDIZÁBAL, MIGUEL O. de.

INFLUENCIA DE LA SAL EN LA DISTRIBUCIÓN GEOGRÁFICA DE LOS GRUPOS INDIGENAS DE MEXICO. 23d Internatl. Cong. Americanists, New York, Proc. 1928: 93-100, map.

NUTTALL, ZELIA.

THE FLOWER LOVERS AND GARDENERS OF ANCIENT MEXICO. Internatl. Gard. Club Jour. 3: 364-379, illus. September 1919.

For a Spanish version, see "Los Aficionados a las Flores y los Jardines del Mexico Antiguo," in Mcmorlas y Revista de la Sociedad Científica "Antonia Alzate" Mexico 43: 593-608, illus. (Septiembre-Diciembre 1924).

THE OARDENS OF ANCIENT MEXICO. Internatl. Gard. Club Jour. 3: 573-590, ilius. December 1919.

Reprinted in Smithsn. Inst. Ann. Rpt. 1923: 453-464, illus. For a Spanish version, see "Los Jardines del Antiguo Mexico," in Memorias y Revista de la Sociedad Científica "Antonio Alzate" Mexico 37: 193-213, illus. (Diciembre 1920).

ROBERTS, FRANK H. H., JR.

IN THE EMPIRE OF THE AZTECS. Natl. Geog. Mag. 71: 724-750, illus. June 1937.

Short description of ancient Aztec agriculture is included.

SAFFORD, WILLIAM EDWIN.

AN ECONOMIC amaranihus OF ANCIENT AMERICA (WITH EXHIBITION OF SPECI-MENS AND LANTERNS). Science 44: 870. Dec. 15, 1916.

"Among the tributes paid to Montezuma by the pueblos of Mexico was a certain grain of ivory whiteness and more minute than a mustard seed, called by the Aztecs huauhtli. Eighteen imperial granarles were filled with it each year, each having a capacity of about 9,000 bushels.

A FORGOTTEN CEREAL OF ANCIENT AMERICA. 19th Internatl. Cong. Americanists, Washington, Proc. 1915: 286-297. 1917.

The white-seeded amaranthus is identified with the ceremonial huauhtli of the Aztecs and with the "bledo" of Cabeza de Vaca.

STEFFEN, MAX.

DIE LANDWIRTSCHAFT BEI DEN ALTAMERIKANISCHEN KULTURVÖLKERN. 139 pp. Leipzig, Duncker & Humbolt. 1883.

Die Azteken; die Mayas; dle Chibchas; das Incareich.

(126)

(127)

(128)

(118)

(122)

(123)

(124)

(125)

(119)

(120)

(121)

MANCHESTER, H. H.

THOMPSON, JOHN ERIC.

MEXICO BEFORE CORTEZ; AN ACCOUNT OF THE EARLY LIFE, RELIGION AND RITUAL OF THE AZTECS AND KINDRED PEOPLES. 298 pp., illus. New York and London, Charles Scribner's Sons. 1933.

See pp. 8-11, 60-68, 137-150, 159, 168, 179-181, 283, 286, and 288. Review in Hispanic-Amer. Hist. Rev. 14: 90-92 (1934).

TORO, ALFONSO.

(130)

(129)

LAS PLANTAS SAGRADAS DE LOS AZTECAS Y SU INFLUENCIA SOBRE EL ARTE PRE-CORTESIANO. 23d Internatl. Cong. Americanists, New York. Proc. 1928: 101-121, illus. New York. 1930.

The sacred plants of the Aztecs and their influence on pre-Cortesian art. WRIGHT, RICHARDSON. (131)

THE STORY OF GARDENING FROM THE HANGINO GARDENS OF BABYLON TO THE HANGING GARDENS OF NEW YORK. 475 pp., illus. New York, Dodd, Mead & Co. 1934.

Plants and gardens the conquistadors found, pp. 167-175; primitive corn planting, pp. 8-10.

See also items 2-5, 17–18, 20–22, 67, 82, 86, 109, 152, 211, 349, 354, 357, 373, 396, 412, 467, 637–638, 727–732, 755, 769, 774, 777, 779, 782, 797, 807, 807, 820, 823.

CALIFORNIA

KROEBER, A. L.

HANDBOOK OF THE INDIANS OF CALIFORNIA. U. S. BUT. Amer. Ethnol. Bul. 78, 995 pp., illus., maps. 1925.

Review by E. W. Gifford in Geog. Rev. 16: 238-239 (April 1926).

See also items 6, 301, 461, 517, 635, 640, 657, 666, 682, 702, 710, 718, 739, 752, 786.

CARIBBEAN SEA AND CENTRAL AMERICA

CONZEMIUS, EDWARD,

ETHNOGRAPHICAL NOTES ON THE BLACK CARIB (OABIF). Amer. Anthrop. 30: 183-205. April-June 1928.

This Central American group is part Indian and part Negro, but many Indian customs are retained. Their agriculture is discussed under the sub-titles "Customs and habits"; "Foodstuffs-preparation of cassava bread"; and "Other occupations, industry."

(134)

ETHNOGRAPHICAL SURVEY OF THE MISKITO AND SUMU INDIANS OF HONDURAS AND NICARAGUA. U. S. BUR. Amer. Ethnol. Bul. 106, 191 pp., illus. 1932. Domestic utensils, pp. 33-35; tools, pp. 35-38; cotton textiles, pp. 50-51; other handicrafts, pp. 52-54; domestication of animals and birds (indigenous animals and birds, bees, cattle, horses, pigs, fowl, dogs), pp. 57-60; agri-culture (cassava, sweetpotatoes, yams, other vegetables, maize, beans, cacao, cactus, fruits, gardens), pp. 60-65; food preparation, pp. 88-91; narcotics, stimulants, etc. (tobacco, pepper, oils, etc.), pp. 91-95; nonfermented beverages, pp. 95-98; intoxicating beverages, pp. 98-101; diseases, pp. 118-126; bibliography, pp. 173-178.

FEWKES, JESSE WALTER.

THE ABORIGINES OF PORTO BICO AND NEIGHBORING ISLANDS. U. S. BUR. Amer. Ethnol. Ann. Rpt. (1904) 25: 3-320, illus.

See especially Agriculture, pp. 50-53.

MORALES CABRERA, PABLO.

PUERTO RICO INDÍGENA; PREHISTORIA Y PROTOHISTORIA DE PUERTO RICO; DESCRIP-CIÓN DE LOS USOS, COSTUMBRES, LENGUAJE, RELIGIÓN, GOBIERNO, AORICULTURA, INDUSTRIAS DEL PUEBLO TAINO DE BORIQUÉN, SEGÚN LOS CRONISTAS DE INDIAS EN LA ÉPOCA DEL DESCUBRIMIENTO DE AMÉRICA. 381 pp., illus. San Juan, Puerto Rico, "Imprenta Venezuela." 1932.

Treatise, with frequent quotations from early historians, on the natives of a section of Pucrto Rico before and at the time of the Spanish conquest in the sixteenth century. See especially "industrias agricolas," pp. 121-137, which discusses yucca, corn, potatoes, beans, and other products.

(136)

(135)

(133)

(132)

26 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

REYNOSO, ALVARO.

AGRICULTURA DE LOS INDÍGENAS DE CUBA Y HAITI. 111 pp. Paris. 1881. (Notas Acerca del Cultivo en Camellones.)

Una nueva edición, notablemente corregida y aumentada de Apuntes acerca de varios cultivos Cubanos. Hemos creído conveniente separar de esa próxima publicación lo que se refiere al cultivo de los tubérculos por los indígenas de Cuba y Haití, porque en ella no podiamos exponer ciertas consideraciones, mientras que, en la present forma, es posible manifestarlas oportunamente con un fin determinado.

INCAN AGRICULTURE

BARRIENTOS, E.

(138)

(137)

LA AORICULTURA EN EL TIEMPO DE LOS INCAS. [Peru] Min. de Fomento, Dir. de Agr. y Ganad. Bol. 2: 426, 428, 430, 432, 434. Lima. July-December 1932.

BAUDIN, LOUIS.

(139)

LES COMMUNAUTÉS AGRAIRES DU PÉBOU PRÉCOLOMBIÉN. Rev. d'Hist. Econ. et Sociale (Paris) 15(3): 302-320. 1927.

"Cet article constituera un chapitre d'un ouvrage qui paraîtra prochainement sur: L'Empire des Inka." Its contents are indicated by the following headings : La politique agraire ; le partage du sol ; le partage du bétall ; l'exportation du modes de culture; les traces de propiété individuelle; bibliography, pp. 318-320. (140)

L'EMPIRE SOCIALISTE DES INKA. 296 pp., maps. Paris, Inst. d'Ethnol. (Paris Univ., Trav. et Mém. de l'Inst. d'Ethnol., 5.) 1928.

Review by G. Grandidier in Jour. des Débats 35 (2): 397-399 (Sept. 7, 1928). (141)

LES INTERPRÉTATIONS DU SOCIALISME DES INCAS. Soc. Amér. Belgique Bul. 17: 51-56, 1935.

Discussion of the Interpretations which have been given by various writers of the eightcenth and nineteenth centurles concerning the socialism of the Incas.

(142)

(143)

(144)

(145)

(146)

(147)

L'ORGANISATION ÉCONOMIQUE DE L'EMPIRE DES INCAS (PÉROU PRÉCOLOMBIEN). Rev. de L'Amér. Latine 17 (89) : 385-393. May 1929.

The economic organization of the Inca Empire, stressing the agrarian village-community, or ayllu, which was the basis of the economic and social structure of pre-Hispanic Peru. Extensive abstract by Phllip A. Means in Social Sci. Abs. 1: 8051 (November 1929).

Also published in [Paris] Acad. des Sci. Morales et Polit., Séances at Travaux, Compt. Rend. 89: 445-455 (November-December 1929).

BENNETT, WENDELL C.

WEAVINO IN THE LAND OF THE INCAS. Nat. Hist. 36: 62-72, illus. June 1935. The cotton and wool fabrics of the ancient Incas.

BONTHOUX. VICTOR ADOLPHE.

LE RÉOIME ÉCONOMIQUE DES INCAS. 116 pp. Paris, Amand Girard. 1927.

BUTTERFIELD, H. M.

THE AGRICULTURE OF ANCIENT PERU. Calif. Univ. Jour. Agr. 7 (4): 31. April 1921.

[COLLIER, CHARLES.]

MODERN FARMERS TO LEARN LESSONS FROM LAND LORE OF ANCIENT INCAS. Lit. Digest 122 (21): 23, illus. Nov. 21, 1936.

Incan agriculture, apropos of Charles Collier's trip to South America.

COOK, ORATOR FULLER.

FOOT-PLOW AGRICULTURE IN PERU. Smithsn. Inst. Ann Rpt. 1918: 487-491, illus.

The highly specialized agriculture of the ancient Peruvians considered in terms of three principal types or systems, namely, the more primitive milpa system in the lower valleys at altitudes of less than 5,000 feet, the terrace

COOK, ORATOR FULLER-Continued.

system in the intermediate or temperate valleys of the eastern Andes at altitudes between 5,000 and 11,000 feet, and the system in the higher valleys at altitudes of from 11,000 to 14,000 feet where the farming was done by human labor, facilitated by a peculiar implement for breaking the sod, which is described in detail. The illustration shows the cashrom or foot-plow of the Hebrides, from Mitchell's The Past in the Present, p. 113. Its survival suggests that northern Europe may have passed through a stage correspond-ing to the foot-plow agriculture of Peru.

Also in Pan Amer. Union Bul. 52: 160-166, illus. (February 1921). The pictures show the taclla, the ancient instrument used by the Aztecs for turning the earth on the terraced farms of the Andes of Peru and Bolivia.

(148)

PERU AS A CENTER OF DOMESTICATION; TRACING THE ORIGIN OF CIVILIZATION THROUGH THE DOMESTICATED PLANTS. JOUR. Hered. 16: 3-46, 72, 94-110, February, March 1925. illus.

Plants domesticated before animals; agriculture indigenous in America; relative antiquity of domestication; unity of American agriculture; location of Maya civilization; endemic crop plants of the Peruvian region; native Peruvian plant names; list of names of domesticated plants in Peru; crop plants of extra-Pcruvian origin; other centers of domestication; conditions of domestication in Peru; domestication of animals in Peru; agricultural arts in Peru; building of terraces and irrigation works; weaving of cotton and wool; astronomical determination of seasons; social organization and colonization; summary.

The lllustrations include the following: terrace agriculture of ancient Peru; pigweeds as seed crops; a field of quinoa; cocaine shrub; a seedbearing cassava; a cultivated lupine; oca (Oxalis tuberosum) roots; Peruvlan potato varieties; roots of the Papa lisas; an edible canna, a nasturtium root crop; a strlped variety of anyus; a sweetpotato in flower; roots of the llacon; Înea storehouses. Reprinted in slightly abridged form in Smithsn. Inst. Ann. Rpt. 1925;

509-532, illus.

(149)

PERU AS A PRIMITIVE CENTER OF AGRICULTURE. Wash. Acad. Sci. Jour. 19: 127-128. March 1929.

(150)

QUICHA NAMES OF SWEET POTATO. Wash. Acad. Scl. Jour. 6: 86-90. Feb. 19, 1916.

See also John R. Swanton, "Notes on the Aboriginal name 'Aje'," Wash. Acad. Sci. Jour. 6: 136-137 (Mar. 19, 1916).

(151)

STAIRCASE FARMS OF THE ANCIENTS : ASTOUNDING FARMING SKILL OF ANCIENT PERUVIANS, WHO WERE PROBABLY THE MOST INDUSTRIOUS AND HIGHLY ORGAN-IZED PEOPLE IN HISTORY. Natl. Geog. Mag. 29: 474-534, illus. May 1916.

There are 48 illustrations; among those of particular interest are the following: An artificial waterfall connecting two ancient irrigation ditches ln the high coastal desert of southwestern Peru; wheat and barley fields of the slopes above the Urubamba Valley; one of the highest agricultural canals in the world; two views of plowing in Peru; llamas loaded with rock salt in a typical Peruvian plaza; a boy shepherd and his sheep near Chincheros, Peru; several views of staircase farms of the ancients; storehouses for the crops of the Incas; ear of Cuzco, the large-kernel corn of Peru; cuzco kernels; pigmy corn of the highest altitudes; a pile containing 16 potato varleties from one field; views of two other varieties of potatoes; coca-drying yard at Santa Ana; two vlews of coca plantations; a native Peruvlan cotton; a tree tomato; a wild cherry tomato; a wild tomato of the eastern Andes.

See also the photographs of foot-plowing In Peru and of a flock of young alpacas In Hiram Blngham's "Further Explorations in the Land of the Incas" on p. 452 ln the same number.

200256-41----3 28 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

CONSTANTIN, J.

MYSTÈRES AGRICOLES DES ANDES: ORGES DU PÉROU, MAÏS DE JALA, Nature [Paris] 62: 193-203, Illus. Mar. 1, 1934.

(152)

(153)

(155)

(158)

(163)

Anomalles culturales des céréales des Andes du Pérou; maïs de Jala (Mexique); le mais de Jala et des céréales des hautes Andes du Pérou explication des anomalles; llen entre la taille et la durée de végétation (maïs); agriculture Péruvienne; culture de la pomme de terre au Pérou et types sauvages.

- and BOISE, D.

SUR LES OBAINES ET TUBERCULES DES TOMBEAUX PÉRUVIENS DE LA PÉRIOQUE INCASIQUE. Rev. Gén. de Bot. 22:242-265, illus. June 15, 1910. Bibliographical footnotes and fifteen figures in the text.

CRAWFORD, MORRIS DE CAMP.

(154)PERUVIAN FABRICS. Amer. Mus. Nat. Hist. Anthrop. Papers 12(4): 105-191, illus. New York. 1916.

PERUVIAN TEXTILES. Amer. Mus. Nat. Hlst. Anthrop. Papers 12(3): 53-104, illus. New York. 1915.

"The object of this paper is to give some idea of the technical side of the fabrics found in the graves of Coastal Peru. The nature of design and color will be considered only in this relation."

EATON, GEORGE F.

(156)FOOD ANIMALS OF THE PERUVIAN HIOHLANDS. 21st Cong. Internatl. Américanists, Göteberg, Proc. 1924: 61-66. Göteberg, Museum. 1925.

Introduction; comparison of plant and animal foods; garniture of graves and contents of kltchen middens as evidence of fiesh diet; groups of mammals represented (deer; dog; rodents; marsupials); note on ceremonlal cannibalism.

ENOCK, C. REGINALD.

(157)THE LAND LAWS AND "SOCIALISM" OF THE INCAS OF PERU. 33 pp. London, P. S. King & Son. 1912. (Natl. Liberal Club. Polit. and Econ. Circle, Trans. 83.)

GASCOIN, E.

DEUX EXPÉRIENCES SOCIALISTES DES "RÉDUCTIONES" À L'EMPIRE DES INCAS. Rev. Polit. et Lltteralre 71: 714-718. Dec. 2, 1933.

GUERRERO, J. C.

(159)DER STAATSSOZIALISMUS IM ALTEN PERU. Nord und Süd 52: 538-543. June 1929.

State sociallsm in ancient Peru.

HARCOURT, RAOUL D'.

(160)TECHNIQUE DES TISSUS PÉRUVIENS À FILS DE CHAÎNE ET DE TRAME DISCON-TINUS; LE NOEUD DE FILET MODERNE AU PÉROU. Soc. Américanistes Jour. (n. s.) 28(2): 323-325, illus. 1936.

Technical discussion of Peruvian weaving.

(161)LES TEXTILES ANCIENS DU PÉROU ET LEURS TECHNIQUES. 170 pp., illus. Paris, Les editions d'art et d'histoire. 1934.

Technical discussion, very well illustrated. Index bibliographique, pp. 163-166.

- and HARCOURT, M.

(162)LES TISSUS INDIENS DU VIEUX PÉROU. 32 pp., Illus. Paris, Albert Morancé. 1924.

Généralités, pp. 5-7; les matières textiles, pp. 7-8; le filage, pp. 9-10; les fils, pp. 10-12; les teintures, pp. 12-13; les métlers, pp. 13-14; les genres de tissus, pp. 14-20; les styles décoratifs, pp. 21-26; bibliography, p. 27.

Also issued by Brentano's with an English title-page.

HARDY, OSGOOD.

THE INCAS. Mentor 6(3): 1-11, Illus. Mar. 15, 1918.

Note particularly the printed text on the abundant food supply of the Incas on the back of plate 4; the material on peasant and labor conditions, p. 8; and agriculture and architecture, pp. 9-11. There are 27 illustrations.

JESSUP, MORRIS K.

(164)INCA MASONRY AT CUZCO. Amer. Anthrop. 36: 239-241, illus. April-June 1934.

The article holds that stones were fitted by grinding during construction. JOYCE, THOMAS ATHOL. (165)

SOUTH AMERICAN ARCHAEOLOGY; AN INTRODUCTION TO THE ARCHAEOLOGY OF THE SOUTH AMERICAN CONTINENT WITH SPECIAL REFERENCE TO THE EARLY HISTORY OF PERU. 292 pp. New York, G. P. Putnam's Sons. 1912. Review by William Curtis Farabee in Amer. Hist. Rev. 18: 116-118 (October 1912).

KELL, WALTER V.

(166)INDIANS DISCOVERED NITRATE OF SODA IN SOUTH AMERICA; NOW USED FOR ONE HUNDRED YEARS BY AMERICAN FARMERS. HOOSIER Farmer 15(4): 12-13, 29. Feb. 15, 1930.

LANGLOIS, GÉNÉRAL.

(167)DEUX CIVILISATIONS DU PÉROU PRÉCOLUMBIEN. Rev. Sci. [Paris] 72: 349-356, 383-388, illus. June 9-23, 1934.

The civilizations of the coast and the mountains are treated separately. LATCHAM, RICARDO E. (168)

LOS ANIMALES DOMÉSTICOS DE LA AMÉRICA PRECOLOMBIANA. Santiago del Chile Museo de Etnología y Antropología de Chile Publicaciones 3(1); 1-199. 1922.

Mainly animals used by the Incas.

(169)ATACAMEÑO ARCHAEOLOGY. Amer. Anthrop. 38: 609-619, illus. October-December 1936.

Agriculture and irrigation of a pre-Incan tribe of Peru.

MCBRIDE, GEORGE MCCUTCHEN.

(170)

THE AGRARIAN INDIAN COMMUNITIES OF HIGHLAND BOLIVIA. Amer. Geog. Soc. Res. Ser. 5, 27 pp., illus., maps. New York, Oxford Univ. Press. 1921. Bolivia an agricultural country; distribution of the population; attachment to the soil; organization of the communities; common lands; modifications introduced by the Spaniards; modifications introduced by the Bolivian Republic; distribution of surviving communities; department of La Paz; department of Oruro; department of Potosi; department of Chuquisaca; department of Cochabamba; number of Indians living in communities; extent of community holdings; present tendencies.

MEANS, PHILIP AINSWORTH.

(171)ANCIENT CIVILIZATIONS OF THE ANDES. 586 pp., illus., maps. New York, Charles Scribner's Sons. 1931.

See pp. 12, 20-21, 36-37 for material on agriculture; and pp. 11, 19-22, 309-317, 323 for material on diet. Bibliography, pp. 545-573. Review by Osgood Hardy in Amer. Hist. Rev. 37: 785-787 (July 1932).

(172)THE DOMESTICATION OF THE LLAMA. Science 47: 268-269. Mar. 15, 1918. Comment by O. F. Cook, "Domestication of Animals in Peru," Jour. Hered, 10: 176-181 (April 1919).

(173)THE INCAS: EMPIRE BUILDERS OF THE ANDES. Natl. Geog. Mag. 73: 225-264, illus. February 1938.

Summary history of the Incan Empire. Paintings and photographs contrast the old and new. For agriculture, see especially: Incaland gave the world the Irish potato, p. 234; manpower presses coca leaves, p. 248; sheep graze in the ruins of Tiahuanaco, p. 250; almost to the tops of the peaks climbed the elaborate staircase farms of the ancients, p. 252; llamas and longer-wooled alpacas graze in the chill shadow of Ausangate snow peak, p. 254; potatoes little larger than golf balls grow in the high altitudes of the Andes, p. 257.

MUBDOOK, GEORGE PETER.

(174)

THE ORGANIZATION OF INCA SOCIETY. Sci. Monthly 38: 231-239, March 1934. The article includes discussion of the types of agriculture and irrigation. Same condensed under the title "The Incas were Communists" in Lit. Digest 117 (12): 19 (Mar. 24, 1934).

NORTON, HENRY KITTREDGE.

THE HEIRS OF THE INCAS. Travel 60 (1): 13-17, 47-48, illus. November 1932.

Comparison of past and present ways of life in Peru.

OLSON, RONALD L.

OLD EMPIRES OF THE ANDES. Nat. Hist. 31: 3-22, illus. January-February 1931.

The succession of civilizations in the Andes-Nazca, Early Chimu which led over to Tiahuanaco, Epigonal, Chavin (the last two probably derivatives of Tiahuanaco), Late Chimu (derived from Chavin), Ica and Inca (derived from Ica). There are 19 pictures, a map of the Incan Empire, and a chart of the sequence of cultures. Summary by L. L. Bernard in Social Sci. Abs. 3: 14976 (October 1931).

POINDEXTER, MILES.

THE AYAR-INCAS. 2 v., illus., maps. New York, Horace Liveright. 1930.

"The first volume records . . . observations at many of the more famous ancient sites and summarizes many of the facts about the early Peruvian cultures, religion, architecture, implements, weaving, music, and agriculture." Reviews by J. W. Gregory in Geog. Jour. 78: 555-557 (December 1931); Hispanic Amer. Hist. Rev. 11: 232-234 (May 1931).

See especially ch. 10, Terraced Farms, 1: 83-88; ch. 15, The Spread of Aboriginal American Culture, 1: 122-127; ch. 18, Colonization, Trade and Communication, 1: 141-148; ch. 35, Weaving, 1: 240-245, affording information on cotton; ch. 38, Roads, 1: 253-254; ch. 39, Agriculture and Stock-Breeding, 1: 255-256.

ROOSEVELT, CORNELIUS VAN S.

ANCIENT CIVILIZATIONS OF THE SANTA VALLEY AND CHAVÍN. Geog. Rev. 25: 21-42, illus., map. January 1935.

Some coast wails; curious ruins near Casma; the Santa Valley and the "Great Wall"; en route to Chavín; the ruins of Chavín.

TAOLIANI, G., and WIAZMITINOW, A.

ÜBER ALTPERUANISCHE OEFÄRBTE GEWEBE. Melliand Textii. Ber. 15: 257-260, illus. 1934.

A lecture on the dyestuffs used by the Incas.

TROLL, C.

DIE GEOGRAPHISCHEN GRUNDLAGEN DER ANDINEN KULTUREN UND DES INCAREICHES. Ibero-Amer. Arch. 5: 258-294, maps. October 1931.

The geographical foundations of the Andean cultures and of the Incan empire. Die Eigenart und die Räumliche Gebundenheit der Andinen Bodenkulture (Die Haustiere der Andenvölker; Die Weidegründe der Anden, Puna und Paramo; Die andinen Kulturegewächse und ihre Verwertung; Die Böden der Punazone; Künstliche Bewässerung und Terrassierung); Alter und Herkunft der Kulturen; Die Landschaftszonen der Tropischen Anden; Landschafts und Kulturgrenzen in den Anden (Die Ausbreitung des Inkareiches über die Puna-Anden; Die Vorstösse der lezton Inkas nach Chile und Ecuador; Der "Limes" des Inkareiches; Das Yungasproblem; Die drei Kulturwellen Boliviens in vorspanischer zeit; Die spanische Landnahme); Bibliographical footnotes. Summary by William E. Rudolph in Social Sci. Abs. 4: 14288 (September 1932).

UGARTE CÉSAR ANTONIO.

THE COMMUNISM OF THE ANCIENT PERUVIANS; ARCHEOLOGICAL RESEARCHES HAVE CHANOED TRADITIONAL IDEAS UPON THE FAMOUS EMPIRE OF THE INCAS. Pan Amer. Mag. 32: 307-316, illus. May 1921.

Note particularly the conclusions on pp. 313-316. Eleven of the 17 pictures are of ruins of the Inca period.

(182)THE ECONOMIC LIFE OF ANCIENT PERU. Inter-Amer. (Eng. ed.) 8: 126-138, December 1924. iilus.

Translation of article in Mercurio Peruano (Lima, Peru), May 1924, on the results of investigations, conducted during recent years, concerning the economic life of ancient Peru. Summary under the title "Economic Life of Aucient Peru" in Amer. Rev. of Reviews 70: 547-549, illus. (November 1924).

(178)

(180)

(175)

(176)

(177)

(181)

VALETTE, M. F.

(183)NOTE SUR LA TEINTURE DE TISSUS PRÉCOLOMBIENS DU BAS-PÉROU. Soc. des Américanistes de Paris Jour. (n. s.) 10: 43-45. 1913.

Dyes used by the pre-Columbian Peruvian Indians.

VERRILL, ALPHEUS HYATT.

AMERICA'S FIRST INTERNATIONAL HIGHWAY. Sci. Amer. 143: 50-51, illus. July 1930.

Pre-Incan aborigines engineered a "modern" highway 4,000 miles through the South American Andes. "This highway did not link the two continents but it linked several great nations; it was over 4,000 miles in length. . . . The International Highway was the 'King's Road' of the Incas. . . From Quito in Ecuador, to beyond Tucuman in Chile, the Incan Highway followed the general lines of the Andes. At intervals, side roads branched off. A second road 25 feet in width, . . . followed the shore line from Ecuador to Chile."

(185)THE COMMUNISM OF THE INCAS. Fortnightly Rev. 138: 492-503. October 1932.

WICKES, D. R., and LOWDERMILK, W. C.

(186)SOIL CONSERVATION IN ANCIENT PERU. U. S. Dept. Agr. Soil Conserv. Serv. Soil Conserv. 4:91-94, illus. October 1938.

WRIGLEY, G. M.

(187)FAIRS OF THE CENTRAL ANDES. Geog. Rev. 7: 65-80, illus., map. February 1919.

The various kinds of fairs; transportation and the fair; the Huari fair; the Huancayo fair; the weekly fair (its ancient origin; twofold function of the market); the annual fair (seasonal and religious origin; festivals in ancient Peru; Christian ritual and pagan festival; other aspects of the fair; early connection with trade and transportation; location of the commercial fairs ; fairs in transition zones ; present conditions ; relation to North Americall commerce).

See also items 2-5, 9, 14, 17-18, 20, 22, 47, 49, 67, 80-82, 86, 90, 102, 121, 128, 383, 404, 438-439, 441, 444, 446, 449, 686, 694, 759-760, 767, 800.

IROQUOIS AGRICULTURE

BATES, ERL A.

OUR FIRST NEW YORK CO-OPERATORS. Bur. Farmer 6 (2): 3, 25. October 1930. DOUOLAS, FREDERIC H.

IROQUOIS FOODS. Denver Art Mus., Dept. Indian Art Leaflet 26, 4 pp. Denver. June 1931.

HERRIOTT, WILLIAM.

ABORIOINAL AGRICULTURE IN SOUTHWESTERN ONTARIO. Waterloo Hist. Soc. Ann. Rpt. (1923) 11: 18-21.

The Jerusalem artichoke, pumpkin, maize, tobacco, and aquatic plants. Based on Candolle.

PARKER, ARTHUR C.

THE ARCHEOLOGICAL HISTORY OF NEW YORK. N. Y. State Mus. Buls. 235-238, 743 pp., lilus. July-August, September-October 1920.

Mainly descriptions of sites of villages, etc., where remains were found. Very little on agriculture, some material on tools. Commented on under the title "Aborlginai Geography of New York State and City" in Geog. Rev. 13: 133 (January 1923).

THE LEAOUE OF THE IROQUOIS. Home Geog. Monthly 2 (2): 7-12, illus. August 1932.

STITES, SARA HENRY.

(193)ECONOMICS OF THE IROQUOIS. 160 pp. Lancaster, Pa., New Era Print. Co. 1905.

Note particularly the "Sketch of the Economic Systems of the North Amerlcan Indlans," and ch. 1, The Environment of the Iroquois, pp. 13-19; ch. 2, The Productive Activities of the Iroquois, pp. 20-26; ch. 3, The Organization

(188)

(189)

(190)

(191)

(184)

(192)

32 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

STITES, SARA HENBY-Continued.

of Producers, pp. 27-43; ch. 4, The Wealth of the Iroquois, pp. 44-68; and Bibliography, pp. 157-159.

This doctoral dissertation of Bryn Mawr College is revlewed by Alexander F. Chamberlain in Rev. Hist. Pub. Relating to Canada (1905) 10: 187-188.

WAUOH, FREDERICK WILKERSON.

IROQUOIS FOODS AND FOOD PREPARATION. 235 pp., illus. Ottawa, Govt. Print. Bur. 1916. (Canada, Geol. Survey, Mem. 86. Anthrop. Ser. 12.)

Agricultural methods and customs, pp. 3-46; cookery and eating customs, pp. 46-54; utenslls used in the gathering, preparation, and eating of food, pp. 54-71; food materials and recipes, pp. 71-154; blbliography, pp. 155-158. Review in Rev. Hist. Pub. Relating to Canada (1916) 21: 172-174.

See also items 5, 12, 17, 21, 23, 25, 83, 333, 380, 383, 389, 832.

MAYAN AGRICULTURE

BABELON, JEAN.

LA VIE DES MAYAS. 250 pp., illus. Paris, Gallimard. 1933. (Le Roman des Peuples, No. 2.)

Apercu bibliographique, pp. 247-250.

BLOM, FRANS.

COMMERCE, TRADE, AND MONETARY UNITS OF THE MAYA. Smithsn. Inst. Anu. Rpt. 1934: 423-440.

Monetary unlts included the almond and cacao bean, and much of the trade was in agricultural products. Reprinted from Tulane Univ., Middle Amer. Res. Ser. Pub. 4.

MAYA CALCULATION AND CONSTRUCTION. Mil. Engin. 27: 1-5. January-February 1935.

The numerical system and calendar of the Mayas and their methods of mceting major englneering problems.

COOK, ORATOR FULLER.

THE SIZE OF MAYA FARMS. Wash. Acad. Sci. Jour. 9: 11-14. January 4, 1919.

DAVIS, EMILY C.

TREE BINOS AND THE MAYAN CALENDAR. Science (n. s.) v. 86, No. 2239, Sup. Nov. 26, 1937.

"Tree rings of the Southwest are now expected to solve the puzzle of the Mayan calendar, enabling archeologists at last to date the ancient civilization that flourished in the American tropics before Columbus."

GAMIO, MANUÉL.

(200)OULTURAL EVOLUTION IN OUATEMALA AND ITS GEOGRAPHIC AND HISTORIC HANDI-CAPS. (Transl. from the original Spanish by Arthur Stanley Riggs). Art and Archaeol. 22: 202-223; 23: 16-32, 70-78, 129-133, illus. December 1926-March 1927.

Agriculture is one of the phases of cultural evolution considered.

GANN, THOMAS WILLIAM FRANCIS, and THOMPSON, J. ERIC.

(201)THE HISTOBY OF THE MAYA, FROM THE EARLIEST TIMES TO THE PRESENT DAY. 264 pp., illus. New York, Charles Scribner's Sons. 1931.

See especially pp. 65, 120 ff., 138, 165, 188, 189, 233, 237; and the bibliography, pp. 255-257.

GRAY, GEORGE W.

(202)A CIVILIZATION WITHOUT A WHEEL. Rotarian 46 (2): 9-12, 48-49, illus., map. February 1935.

A popular account with very little on agriculture.

HOFFMANN, ELEANOR.

(203)DESCENDANTS OF THE MAYANS. South. Workman 59: 21-27, illus. January 1930.

Present Indian conditions in Guatemala.

(198)

(197)

(196)

(195)

(194)

(199)

KIRK, WILLIAM.

(204)SOCIAL CHANGE AMONO THE HIOHLAND INDIANS OF GUATEMALA. Sociol. and Social Res. 23: 321-333. March-April 1939.

The agriculture of the Guatemalan Indians is changing with the rest of their culture.

See also Raymond Stadelman, "Maize Cultivation in Northwestern Guatemala," Carnegie Inst. Washington, Contrib. Amer. Anthrop. and Hist., 33: 83-263, illus., maps. (Washington, June 1940).

MASON J. ALDEN.

THE EGYPT OF AMERICA. Nat. Hist. 28: 394-406, illus., map. July-August 1928.

"A short outline of the Maya, who developed the outstanding aboriginal American civilization, and left sculptured monuments that record their history since before the dawn of the Christian era."

MORLEY, SYLVANUS GRISWOLD.

(206)UNEARTHINO AMERICA'S ANCIENT HISTORY; INVESTIGATION SUCCESTS THAT THE MAYA MAY HAVE DESIGNED THE FIRST ASTRONOMICAL OBSERVATORY IN THE NEW WORLD IN ORDER TO CULTIVATE CORN. Natl. Geog. Mag. 60: 99-126, illus. July 1931.

Agriculture, with special attention to corn, pp. 99-106. Twenty-seven photograph and one diagram of Maya ruins.

(207)YUCATÁN, HOME OF THE GIFTED MAYA. Natl. Geog. Mag. 70: 590-644, illus., map. November 1936.

Decline of agriculture given as cause of coliapse of Old Empire. Present income depends on sisal cuitivation. Illustrations: good hunting; from 75 to 85 percent of a Maya Indian's diet is corn; papayas fit for a giant's breakfast; a housewife grinds corn the age-old way; tortilla making; ancient Maya planting corn; field of sisal; bale of henequen fiber.

POPENOE, WILSON.

THE USEFUL PLANTS OF COPAN. Amer. Anthrop. 21: 125-138. April-June 1919. A study of the plants for foodstuffs and other uses cultivated by the ancient Mayas in the Copan River Valley of western Honduras under the following headings: Cereals and vegetables; fruits; beverage plants; plants used for seasoning and flavoring; fiber plants; plants used for coloring and dyeing; fence and hedge plants; miscellaneous useful plants.

RILEY, ROBERT M.

(209)ANCIENT MAYAS BURNED THEIR FORESTS ; A PRACTICE THAT MAY HAVE BEEN THE SOURCE OF THEIR DECADENCE. Amer. Forests 38: 442-443, 480, illus. August 1932.

ROYS, RALPH LOVELAND.

(210)THE ETHNO-BOTANY OF THE MAYA. 359 pp. New Orleans, La., Dept. Middle Amer. Res., Tulane Univ. 1931. (Tulane Univ., Middle Amer. Res. Ser. (Tulane Univ., Middle Amer. Res. Ser. Pub. 2.)

Annotated list of Maya plant names, pp. 213-216; annotated list of Maya fauna names, pp. 327-344; bibliography, pp. 352-359.

Review by Maurice Ries in the Med. Jour. and Rec. 134: 405 (Oct. 21, 1931). SPINDEN, HERBERT. (211)

ANCIENT CIVILIZATIONS OF MEXICO AND CENTRAL AMERICA. 271 pp., illus. New York. 1928. (Amer. Mus. Nat. Hist. Handbook Ser. No. 3, ed. 3, rev.)

Distribution of agriculture, pp. 67-71; influence of agriculture on Mayan culture, p. 73; invention of agriculture, pp. 45, 51-53, 67, 251; spread and development of agriculture, pp. 63, 70, 250; bibliography, pp. 255-258.

[STEGGERDA, MORRIS.]

(212)PLAOUES OF LOCUSTS, DROUGHT, MAY HAVE DRIVEN OUT MAYAS. Sci. News Letter 33: 314. May 14, 1938.

"New evidence indicates great cities may have been abandoned in weari-ness over battling plant pests."—Subtitle. A summary of suggestions by Morris Steggerda of the Carnegie Institution.

(208)

(205)

34 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

TAX. SOL.

CULTURE AND CIVILIZATION IN GUATEMALAN SOCIETIES. Sci. Monthly 48: 463-467. May 1939 .

Indians of Guatemala, in spite of close physical contact with civilization, retain their ancient cultural patterns.

TEEPLE, JOHN E.

THE LUNAR CALENDAR AND ITS RELATION TO MAYA HISTORY. Amer. Anthrop. 30: 391-407. July-September 1928.

TERMER, FRANZ

DIE MAYAKULTUR ALS GEOGRAPHISCHES PROBLEM. Ibero-Amer. Arch. 5: 72-88. April 1931.

The Mayan cuiture as a geographical problem. Summary by L. Waibel in Social Sci. Abs. 4: 14486 (September 1932). (216)

DIE MAYAKULTUR IN YUKATAN UND GUATEMALA. Preuss. Jahrb. 233: 158-171. August 1933.

General article on the Maya culture in Yucatan and Guatemala. Agriculture and landholding, pp. 100-102.

See also items 2, 5, 18, 20, 61, 80, 128, 148, 644, 704.

MICHIGAN

HINSDALE, WILBERT B.

DISTRIBUTION OF THE ABORIGINAL POPULATION OF MICHIGAN. 35 pp., maps. Ann Arbor, Univ. of Mich. Press. 1932. (Mich. Univ. Mus. Anthrop. Occas. Contrib. No. 2.)

Population and food, pp. 6-12; important sources of food (animal; vegetable-herbaceous plants, trees, and shrubs), pp. 12-29.

(218)

(217)

THE FIRST PEOPLE OF MICHICAN. 178 pp., illus. Ann Arbor, George Wahr. 1930. See ch. 5, Medicine, pp. 71-82, especially pp. 77-82; and ch. 10, Indian Corn Culture in Michigan, pp. 142-167. A revision of item 369. (219)

THE INDIANS OF WASHTENAW COUNTY, MICHIGAN. 68 pp., illus. Ann Arbor, George Wahr. 1927.

Food, pp. 20-22; debt to the Indians, pp. 35-36; References, 2d preliminary leaf.

See also items 369, 456, 677.

MINNESOTA

BABCOCK, WILLOUOHBY M.

MINNESOTA INDIAN LIFE. Wis, Archeol. (n. s.) 14:9-14. September 1934.

Foods used and ways of preparing them, pp. 9-11.

BALMER, F. E.

THE FARMER AND MINNESOTA HISTORY. Minn. Hist. 7: 199-217. September 1926.

The agriculture of the Indians, pp. 200-205.

MILLER, FRED.

FISHING WITH EARLY MINNESOTA INDIANS. Minn. Conserv. No. 68, pp. 4-5, illus. May 1939.

This article lists the various methods by which the Indians caught fish; it also describes the primitive hooks, spears, and nets made by the red men, and how they were used, together with the methods of preserving the fish. With the article appear pictures of hooks, spears, floaters and other Indian fishing equipment found in the collections of the Minnesota Historical Society.

WEYL, CHARLES G.

CLOTH WEAVING OF THE DAKOTA. Wis. Archeol. (n. s.) 3: 22-23. January 1924. Description of specimens of cloth made by the early Indians of Wisconsin and Minnesota.

(221)

(222)

(223)

(220)

(214)

(215)

(213)

WINCHELL, N. H., COLLATOR.

THE ABORIGINES OF MINNESOTA. 761 pp., illus., maps. St. Paul, Minn. Hist. Soc. 1911.

A report based on the collections of Jacob V. Brower and the field survevs and notes of Alfred J. Hill and Theodore H. Lewis. The Dakota Indians, pp. 1-559; The Ojibwa, pp. 580-731. See especially pp. 491-497 on the agri-culture, ornaments and food of the Dakota (agricultural implements; vegetable foods not agricultural--rice, bulbous roots, mdo, Indian turnip, berries, maple sugar, tripe-de-roche); pp. 518-559 on the history, treaties, missions, res-ervations, of the Dakota In Minnesota; pp. 592-596 on the food of the Ojibwa (wildrice; waub-es-see-pin; maple sugar; berries; trlpe-de-roche or reindeer moss); and pp. 616-636 on the Ojibwa treatles ceding lands in Minnesota.

See also items 482, 484-489, 492-494, 545, 564, 592, 601, 664-665, 719, 815-816.

MISSOURI RIVER REGION

BERRY, J. BREWTON.

THE MISSOURI INDIANS. Southwest. Social Sci. Quart. 17: 113-124. September 1936.

Social and economic organization, including a brief account of agriculture. (226)

DENIG, EDWIN THOMPSON. INDIAN TRIBES OF THE UPPER MISSOURI. Edited with notes and biographical sketch by J. N. B. Hewitt. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1928-29) 46: 375-628, illus.

Agriculture, pp. 407-408, 463-464; food, pp. 581-582; horses, p. 412; table of roots, berries, animals, birds, eaten by the Indians of the Upper Missouri, p. 583; paints and dyes, p. 591; bibliography, pp. 627-628.

GILMORE, MELVIN RANDOLPH.

A OLIMPSE AT NEBRASKA INDIAN OEOGRAPHY. JOUR. Geog. 13:179-185. February 1915.

"Besides the wild fruits, nuts, tubers, and seeds which were regularly harvested from the wild growths by the tribes of Nebraska, they had also certain crops which they regularly cultivated. They planted fields of corn, beans, squashes and pumpkins, gourds, watermelons and tobacco." (228)

THE MISSOURI RIVER AND THE INDIANS. Geog. Soc. Phila. Bul. 25: 155-161. October 1927.

The influence of the Missouri as a channel along which coursed the flow of peoples and of aboriginal trade. The last four pages pertain to agriculture. (229)

01.D ASSINIBOIN BUFFALO-DRIVE IN NORTH DAKOTA. Indlan Notes 1: 204-211, illus. October 1924.

The drive described is on the north slde of the Missourl River, about 12 miles east of Elbowoods, N. Dak.

GRINNELL, GEORGE BIRD.

THE CHEYENNE INDIANS, THEIR HISTORY AND WAYS OF LIFE. 2 v., illus., map. New Haven, Yale Univ. Press. 1923.

For material on agriculture, see 1: 251-254, and also scattered paragraphs on pages indicated in the index under agriculture. For various early foods, see 1:247-251; for useful plants, see 2:166-191.

HODGKIN, CARLYLE.

FIRST FARMERS; INDIAN TOWN DISCOVERED BY DR. [EARL H.] BELL DATES AORI-CULTURE IN NEBRASKA BACK MANY CENTURIES. Nebr. Farmer 78(16): 1, 19, 22, illus. Aug. 1, 1936.

MANDELBAUM, DAVID G.

BOOM PERIODS IN THE HISTORY OF AN INDIAN TRIDE. Social Forces 16: 117-119. October 1937.

Introduction of the gun and fur trade, of the horse, and of the railroad brought the Plains Crees three distinct periods of exuberant activity.

(224)

(225)

(227)

(230)

(231)

(232)

PRESCOTT, PHILANNER.

FARMING AMONG THE SIOUX INDIANS. U. S. Patent Off., Rpt. on Agr. 1849: 451-455. 1850.

The author's report as superintendent of farming for the Sioux.

SIBLEY, GEORGE.

INDIAN MODE OF LIFE IN MISSOURI AND KANSAS. Mo. Hist. Rev. 9:43-50. October 1914.

STRONG, W. D.

THE PLAINS CULTURE AREA IN THE LIGHT OF ARCHAEOLOGY. Amer. Anthrop. 35 : 271-287. April-June 1933.

WILL, GEORGE FRANCIS.

INDIAN AGRICULTURE AT ITS NORTHERN LIMITS IN THE GREAT PLAINS REGION OF NORTH AMERICA. 20th Internati. Cong. Americanists, Rio de Janeiro, Proc. (1922) 1:203-205. 1924.

WILSON, GILBERT LIVINGSTONE.

AORICULTURE OF THE HIDATSA INDIANS; AN INDIAN INTERPRETATION. 129 pp., ilius. Minneapolis, Univ. Minn. Press. 1917. (Minn. Univ. Studies in Social Sci. No. 9.)

This study of the economic life of the American Indian is based largely on data obtained from an expert agriculturist of the Hidatsa tribe, an old woman, born about 1839. It is not "an account merely of Indian agricuiture. It is an Indian woman's interpretation of economics; the thoughts she gave to her fields; the philosophy of her labors." The material was collected by the author during the summers of 1912-1915 at Fort Berthold reservation.

1, Tradition; 2, Beginning a Garden; 3, Sunflowers; 4, Corn; 5, Squashes; 6, Beans; 7, Storing for Winter; 8, The Making of a Drying Stage; 9, Toois; 10, Fields at Like-a-Fishhook Viliage; 11, Misceilanea; 12, Since White Men Came; 13, Tobacco.

The review of this book with the title "Agriculture of the Hidatsa Indians; An Indian Interpretation" in Jour. Home Econ. 11: 168 (April 1919) emphasizes the information which the study gives on characteristic Indian dishes prepared from agricultural products. Also review by Warren Upham in Minn. Hist. Bui. 2: 369–371 (February 1918); and Albert Ernest Jenks, "Agriculture of the Hidasta Indians," in Science 44: 864–866 (Dec. 15, 1916).

WISSLER, CLARK.

(238)

(239)

(240)

(241)

(233)

(234)

(235)

(236)

(237)

MATERIAL CULTURE OF THE BLACKFOOT INDIANS. Amer. Mus. Nat. Hist. Anthrop. Papers 5: 1-175, ilius. 1910.

Pp. 20-52 deal with food habits and describe methods of cooking, hunting, types of food, and utensiis used. Bibliography.

WOONBUFF, K. BRENT.

MATERIAL CULTUBE OF THE TETON NAKOTAS. S. Dak. Hist. Coilect. (1934) 17: 605-647.

Animais hunted and uses made of buffaio, pp. 618-622; plants used as food, pp. 622-623; dishes and cooking utensiis, pp. 623-624; buffaio hunting, pp. 631-633.

See also items 42, 332, 399-401, 680, 743.

NEW ENGLAND

JACKSON, ERIC P.

EARLY USES OF LANN IN RHONE ISLANN. Geog. Soc. Phila. Bui. 24: 69-87. April 1926.

The early uses of land by the Indians, pp. 69-74.

KINNICUTT, LINCOLN N.

PLYMOUTH'S NEBT TO THE INDIANS. Harvard Theoi. Rev. 13: 345-361. October 1920.

Massasoit, Tisquantum (Squanto), Hobomok and what they did for Touches very briefly on Squanto showing Pilgrims how to plant Piymouth. corn.

WILLOUOHBY, CHARLES C.

THE ADZE AND THE UNOROOVED AXE OF THE NEW ENOLAND INDIANS. Amer. Anthrop. 9: 296-306, illus. Aprll-June 1907.

HOUSES AND GARDENS OF THE NEW ENGLAND INDIANS. Amer. Anthrop. 8: 115-132, January-March 1906.

See also the author's chapter on the Wilderness and the Indian in the Commonwealth History of Massachusetts, edited by Albert Bushnell Hart, 1: 127–158 (New York, 1927).

See also items 2-3, 6, 17, 21, 47, 58, 353, 364, 370.

SOUTHEASTERN UNITED STATES

BATTLE, HERBERT B.

THE DOMESTIC USE OF OIL AMONG THE SOUTHERN ABORIOINES. Amer. Anthrop. 24: 171-182. April-June 1922.

Introduction (oils and fats of animal origin; oils and fats of vegetable orlgin), pp. 171–175; preparation of oils and fats (by rendering; by extraction; by pressing), p. 175; ancient preparation of the oils, pp. 175–177; how the oils and fats were used by the natives (as food; in paints; ln leather making or the treatment of skins; for bodily health; in hairdressing; for the rubbing and polishing of ornaments and implements), pp. 177–182; yield of oil from nuts, p. 182.

GRAY, LEWIS CECIL.

HISTORY OF AGRICULTURE IN THE SOUTHERN UNITED STATES TO 1860. Assisted by Esther Katherine Thompson. 2 v., illus. Washington, Carnegie Inst. Wash. 1933. (Carnegie Inst. Wash. Pub. 430.)

See ch. 1, Agriculture before the Coming of the English, pp. 3–13, with discussion on the Influence and contributions of native agriculture in the South Atlantic section, native agriculture in the lower Mississippi Valley, and early agriculture of Spanish Florida. See also the pages indicated in the Index under names of Indian tribes; bibliographical introduction, pp. 945–951; and list of works cited, pp. 951–1016.

JONES, CHARLES COLCOCK.

ANTIQUITIES OF THE SOUTHEEN INDIANS PARTICULARLY OF THE GEORGIA TRIBES. 532 pp., illus. New York, D. Appleton & Co. 1873.

Medicinal plants, p. 34; tenure of property, p. 40; agricultural pursuits, p. 40; town plantations and private gardens, p. 40; public granaries, p. 41; animal and vegetable food, p. 42; agriculture and agricultural implements, pp. 296-320.

SWANTON, JOHN REED.

ABORIGINAL CULTURE OF THE SOUTHEAST. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1924-25) 42: 673-726. 1928.

Agriculture, pp. 691-692; most popular medicines, pp. 710-711. See also pertinent items in the index.

(248)

EARLY HISTORY OF THE CREEK INDIANS AND THEIR NEIOHBORS. U. S. Bur. Amer. Ethnol. Bul. 73. 492 pp., maps. 1922.

Agriculture, pp. 63, 75, 359-360. Bibliography, pp. 457-462.

(249)

AN INDIAN SOCIAL EXPERIMENT AND SOME OF ITS LESSONS. Sci. Monthly 31: 368-376. October 1930.

The social and governmental experiment undertaken or evolved by the Creek Indians who formerly occupied most of the territory of the present States of Georgia and Alabama. Several paragraphs on their agriculture are included.

(242)

(243)

(244)

(245)

(247)

(246)

38 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

SWANTON, JOHN REED.

INDIAN TRIBES OF THE LOWER MISSISSIPPI VALLEY AND ADJACENT COAST OF THE GULF OF MEXICO. U. S. Bur. Amer. Ethnol. Bul. 43. 387 pp., map.

Notes on the agriculture of the Chitimacha, pp. 345-346; Iberville's note on the agriculture of the Houma, p. 286; importance of agriculture among the Natchez, pp. 73–79; Pascagoula agriculture, p. 304; beans, pp. 77, 290, 303, 345; cooking, pp. 303, 315, 357; corn, pp. 73–76, 217, 286, 303, 304, 345, 346, 355, 358; fruits, pp. 77, 282, 286, 303, 317, 346; hominy, pp. 286, 303; medicines of Natchez, pp. 80–86; tobacco, pp. 79, 146, 154, 157, 285–287, 356; turkeys, pp. 73, 289, 317, 320; vegetal foods, pp. 317, 345. See also other pertinent subjects in the index.

(251)

(252)

(253)

(250)

SOCIAL ORGANIZATION AND SOCIAL USAGES OF THE INDIANS OF THE CREEK CON-FEDERACY. U. S. Bur. Amer. Ethnoi. Ann. Rpt. (1924-25) 42: 23-472, illus.

Agriculture, pp. 443-444. Bibliography, pp. 471-472. See also other pertinent items in the index.

See also items 6, 21, 329, 466.

SOUTHWESTERN UNITED STATES

AMSDEN, CHARLES AVERY.

NAVAHO WEAVING: ITS TECHNIC AND HISTORY. Foreword by Frederick Webb Hodge. 261 pp., ilius. Santa Anna, Calif., Fine Arts Press in Cooperation with Southwest Mus. 1934.

Review by Liia M. O'Neaie in Amer. Anthrop. 36: 611-612 (October-December 1934); and in Pacific Hist, Rev. 3: 454-455 (1934).

ARNOLD, OREN.

A VANISHED EMPIRE OF THE SOUTHWEST. Travel 58: 25-29, 45, ilius. November 1931.

"The empire of the Canal Builders-the Forgotten Ones, as the Indians call them—embraced the better parts of the Salt and Gila Valleys in Arizona, a richly cultivated region today as it was in prehistoric times. With the most primitive implements, the Canal Builders made over two hundred miles of canais, reclaimed vast areas of desert and built temples, houses and fortresses."

BARNES, WILL C.

THE PREHISTORIC CORN BELT. Amer. Forestry 33: 604-607, ilius. October 1927.

Interesting, especially for its photographs of the cliff dwellings of southwestern United States.

BARTLETT, KATHARINE.

PREHISTORIC PUEBLO FOODS. Museum Notes (Mus. North. Ariz., Flagstaff) 4 (4):1-4. October 1931.

Summary by Frank H. H. Roberts, Jr., in Social Sci. Abs. 4: 6983 (May 1932).

(256)PUEBLO MILLING STONES OF THE FLAGSTAFF REGION AND THEIR BELATION TO OTHERS IN THE SOUTHWEST. Mus. North. Ariz. Bui. 3, 32 pp. Flagstaff, North. Ariz. Soc. Sci. and Art. January 1933.

BELL, WILLIS H., and CASTETTER, EDWARD F.

THE UTILIZATION OF MESQUITE AND SCREWBEAN BY THE ABORIGINES IN THE AMERICAN SOUTHWEST. N. Mex. Univ. Bul. Biol. Ser. 5, No. 2, 55 pp., map. Albuquerque, Univ. N. Mex. Press. 1937. (Ethnobiol. Studies Amer. Southwest V.)

BEMIS, M. E.

FIRST FARMERS OF ARIZONA. Calif. Cult. 81: 293, 297. June 9, 1934. The agriculture of the ancient cliff dwellers.

BOWERS, GEORGE BALLARD.

THE FIRST FARMERS IN AMERICA. South. Workman 59: 74-82, illus. February 1930.

The cliff dweliers of the American southwest.

(259)

(258)

(254)

(257)

(255)

BRAND, DONALD D.

PREHISTORIC TRADE IN THE SOUTHWEST. N. Mex. Business Rev. 4: 202-209. October 1935.

BRYAN, BRUCE.

READING HISTORY FROM THE DIARY OF THE TREES. Amer. Forests 40: 10-14, 44-45, illus. January 1934.

"One of the most amazing scientific achievements of recent years was the discovery and working out of what has come to be known as the Tree Ring Calendar. Approached at first as a useful and desirable means of studying climatic conditions of the past in an endeavor to provide some reasonable method of forecasting those of the future, this research into the indelible records of the Arizona pines led into a most unexpected field. Its far-reaching results filled the scientific world with enthusiastic astonishment."-p. 10.

BURR, WALTER.

OLIFF-DWELLING FARMING. Country Gent. 91(1): 7, 47, illus. January 1926. The cliff-dwelling farmers of 7,000 years ago and their methods in what is now Mesa Verde Park, Colorado.

CASTETTER, EDWARD F., and BELL, WILLIS H.

THE ABORIGINAL UTILIZATION OF THE TALL CACTI IN THE AMERICAN SOUTH-WEST. N. Mex. Univ. Bul. Biol. Ser. 5, No. 1, 48 pp., map. Albuquerque, Univ. N. Mex. Press. 1937. (Ethnobiol. Studies Amer. Southwest 4.) (264)- BELL, WILLIS H., and GROVE, ALVIN R.

THE EARLY UTILIZATION AND THE DISTRIBUTION OF AGAVE IN THE AMEBICAN southwest. N. Mex. Univ. Bul. Biol. Ser. 5, No. 4, 92 pp., maps. Albu-querque, Univ. N. Mex. Press. 1938. (Ethnobiol. Studies Amer. Southwest 6.)

Introduction, pp. 5-10; early history, pp. 10-12; distribution of important species of agave in the southwest, pp. 13-27; agave as food, pp. 27-60; agave as a source of beverage, pp. 60-64; agave as a source of fiber and woven objects, pp. 64-73; miscellaneous uses of agave, pp. 73-77; summary, pp. 78-84; bibliography, pp. 85-92.

- and OPLER, M. E.

THE ETHNOBIOLOGY OF THE CHIRICAHUA AND MESCALERO APACHE-THE USE OF PLANTS FOR FOODS, 2EVERAGES AND NABCOTICS. N. Mex. Univ. Bul. Biol. Ser. 4, No. 5, 63 pp. Albuquerque, Univ. N. Mex. Press. 1936. (Ethnobiol. Studies Amer. Southwest 3.) (266)

- and UNDERHILL, RUTH M.

ETHNOBIOLOGY OF THE PAPAGO INDIANS. N. Mex. Univ. Bul. Biol. Ser. 4, No. 3, 84 pp. Albuquerque, Univ. N. Mex. Press. 1935. (Ethnobiol. Studies Amer. Southwest 2.)

CLARK, S. P.

(267)

(265)

ARE THE ORIGINAL DRY-FARMERS; HOPI INDIANS OF ARIZONA HAVE LONG RECORD OF SUCCESSFUL EFFORT. Agr. Rev. 13 (8): 9, illus. October 1921.

(268)

LESSONS FROM SOUTHWESTERN INDIAN AGRICULTURE. Ariz. Agr. Expt. Sta. Bul. 125, pp. 229-252, illus. Tucson. 1928.

Introduction; country and the climate of the Hopi; effect of neighboring tribes on the life of the Hopi; Hopi agriculture and the selection of fields (planting methods; protecting the crop; harvesting and storing the corn; Hopi cotton growing; bcans an important Hopi crop; melons and squashes; Hopi irrigation; Hopi farming at Moenkopi; fruits in the Hopi country; Zuni Indian gardening; Zuni livestock); the Navajo Indians (Navajo livestock; weaving blankets); prehistoric irrigation; the Papago Indians and their agriculture (harvesting and threshing the wheat; grinding the wheat into flour; storing grain; livestock of Papago Indians); conclusions.

The illustrations show the following: Hopi Indian corn field; a Hopi Indian bean and corn field; corn piled in a house; a Zuni Indian garden; a flock of Navajo Indian sheep; a Navajo Indian homemade cultivator; a Papago Indian plow made from a single piece of mesquite wood; Papago Indians cooperating in harvesting wheat; a Papago Indian threshing floor; winnowing wheat; Papago Indian custom mill 75 miles southwest of Tucson; granaries made of woven grasses; Papago Indian cattle.

39

(260)

(261)

(262)

(263)

COLTON, HABOLD S.

THE RISE AND FALL OF THE PREHISTORIC POPULATION OF NORTHERN ARIZONA. Science (n. s.) 84: 337-343. Oct. 16, 1936.

CUMMINGS. BYRON.

THE TEXTILE FABRICS OF THE CLIFF DWELLERS. Nati. Assoc. Cotton. Ffrs. Trans. (1915) 98: 371-377, illus.

"An abundance of yucca . . . is found in ail stages of preparation for spinning. . . . Likewise bundles of cotton, some with the seed still clinging to the fibrcs, have been found that show the source of the yarn that has been woven into various forms of cloth." References, p. 371.

CUSHING, FRANK H.

THE NATION OF THE WILLOWS. Atlantic Monthly 50: 362-374, 541-559. September, October 1882.

A travel narrative, dealing with the Havasupaí or Kuhnikwe tribe of Indians. This tribe is related to the Zuñis. Their home was in Cataract Creek Canyon which is a branch of the Grand Canyon of the Colorado, and is located about 115 miles north of Prescott, Ariz. The visit took place in 1880. Agriculture is mentioned.

DOUGLASS, ANDREW ELLIOTT.

THE SECRET OF THE SOUTHWEST SOLVED BY TALKATIVE TREE RINGS. Natl. Geog. Mag. 56: 736–770, ilius., map. December 1929.

Commented on under the title "'Dating' Old America; Indians Battled Drought in Time of Crisis 600 Years Ago," in Lit. Digest 121 (15): 29 (Apr. 11, 1936).

EASTWOOD, ALICE.

NOTES ON THE CLIFF DWELLERS. ZOE 3: 375-376. January 1893.

The uses of some of the plants of the region as well as the plants formerly cultivated there.

ESTABROOK, EMMA FRANKLIN.

GIVERS OF LIFE; THE AMERICAN INDIANS AS CONTRIBUTORS TO CIVILIZATION. Foreword by Edgar L. Hewett. 101 pp., iilus. Albuquerque, New Mex., Univ. New Mex. Press. 1931.

The Puebio Indians are used as the medium of the author's survey, because their cuiture, which is in general typical, has come down to the present day with only slight modifications and so can be easily studied. See especially the chapter on the American Indian as plant experimenter and agriculturist, pp. 85-94. References, pp. 95-97; bibilography, pp. 99-101.

FLOOD, FRANCIS A.

FARMING, A WAY OF LIFE. Farmer-Stockman 50: 663, 672, ilius. Nov. 15, 1937.

Popular account of Indian agriculture in the Southwest. Illustrations of Navajo women grinding corn on the metate, Indian vegetables ready to be placed in storage pit, and the cliff dwellings of Pueblo Indians. Also printed with the title "Where Farming Began" in Ind. Farmer's Guide 94: 36, 46, 51, illus. (Jan. 15, 1938).

GILMORE, MELVIN R.

(276)VEGETAL REMAINS OF THE OZARK BLUFF-DWELLER CULTURE. Mich. Acad. Sci., Arts, and Letters Papers (1930) 14: 83-102, illus. Ann Arbor. 1931.

The results of an archaeological exploring expedition in the northwest part of Arkansas and the southwest part of Missouri,

HAAS, WILLIAM H.

THE CLIFF-DWELLER AND HIS HABITAT. Assoc. Amer. Geog. Ann. 16: 167-215. December 1926.

The importance of food, pp. 172-175; the importance of corn, pp. 177-178; location of agricultural lands, pp. 195-198; the products of the region, p. 198; as an irrigation farmer, p. 210; area of crop lands, pp. 210-212; food requirements, pp. 214-215. The map by Omar A. Turney on p. 211 shows the prehistoric irrigation canals in the Salt River Valley in the vicinity of Phoenix.

40

(275)

(277)

(272)

(269)

(270)

(271)

(274)

(273)

HAEBERLIN, HERMAN KARL. THE IDEA OF FERTILIZATION IN THE CULTURE OF THE PUEBLO INDIANS. Anthrop. Assoc. Mem. (1916) 3: 1-55. Thesis, Ph. D., Columbia University. References, pp. 52-55. HALSETH, ODD S. (279)PREHISTORIC IRRIGATION IN CENTRAL ARIZONA. Masterkey (Southwest Mus.,

Highiand Park, Los Angeies, Caiif.) 5: 165-175, iilus. January 1932. (280)

PREHISTORIC IRRIGATION SYSTEMS REVEALED BY AERIAL SURVEY IN ARIZONA. Prof. Engin. 16 (6): 7-8, 26, iiius. June-July 1931.

HAMILTON, J. B.

ANCIENT AMERICAN SYSTEM FOR COLLECTING WATER SUPPLY. Engin, News-Rec. 110:225, ilius. Feb. 16, 1933.

A groove cut in the face of a cliff near Pueblo Bonito, Chaco Canyon National Monument.

HARGRAVE, LYNDON L.

(282)THE INFLUENCE OF ECONOMIC GEOGRAPHY UPON THE RISE AND FALL OF THE PUEBLO CULTURE IN ARIZONA. MUSEUM Notes (Mus. North. Ariz., Flagstaff) 4 (6): 1-3. December 1931.

Summary by Forrest Ciements in Social Sci. Abs. 4: 4918 (April 1932). HARRINGTON, M. R. (283)

ANCIENT SALT MINE NEAR ST. THOMAS, NEVADA, Indian Notes 2: 227-231. July 1925.

ANCIENT SALT MINES OF THE INDIANS. Sci. Amer. 135: 116-117, illus. August 1926.

Description of a cave in Nevada with peculiar markings made by man, which proved to be a salt mine of the Indians of 2,000 years ago.

ANOTHER ANCIENT SALT MINE IN NEVADA. Indian Notes 3: 221-232, illus. October 1926.

(286)

(287)

(288)

(285)

(284)

THE "LOST CITY" OF NEVADA. Sci. Amer. 133: 14-16, illus., map. July 1925. Pueblo Grande de Nevada, the ruins of a village of 15 or 20 centuries ago, belonging to "about the close of the pre-Pueblo period and the beginning of the early Pueblo period," near St. Thomas, Nev. The article refers to the evidences of farming, cotton growing, weaving, dyeing.

HODGE, F. W.

PREHISTORIC IBRIGATION IN ARIZONA. Amer. Anthrop. 6: 323-330. July 1893. From notes made in 1887-1888 while the author was a member of the Hemenway Archeological Expedition, operating in the Southwest under the directorship of Frank Hamilton Cushing.

HOLDER, CHARLES F.

INDIAN GRANARIES. Sci. Amer. 89 (15): 263, illus. Oct. 10, 1903.

The granaries of the Indians in the West, particularly Arizona and New Mexico. The illustrations show a Chemehuevi Indian reclining under a grass bower, watching his cornfield; a Chemehuevi granary; and a granary on top of a Yuma Indian's house.

HOUGH, WALTER.

ANCIENT PUEBLO SUBSISTENCE. 23d Internati. Cong. Americanists, New York, Proc. 1928: 67-69.

The deer, antelope, and rabbit formed the chief meat supply, while maize and squash, and, later, beans were the chief cultivated plants.

(290)

THE CLIFF DWELLER HOUSEKEEPER. Amer. Indian Mag. 7 (4): 6-10, illus. August 1920.

"With wonderful realism the . . . article raises the curtain of time upon the home life of a people who may have been extinct before Columbus discovered America."

The illustrations show ears of cliff-dweller corn strung on a strip of yucca leaf and hung up for the winter store, a fire bowl, a sandal made from leaves of a yucca plant, and a miller's grinding stone and handstone.

(289)

(278)

(281)

JOHNSON, GAYLORD.

FABRICS WOVEN 1,600 YEARS AGO FOUND UNSTAINED IN ARIZONA CAVE. Pop. Sci. Monthiy 119 (6): 54-55, iilus. December 1931.

The wooi sashes and other beiongings of the Basket Makers No. 3, found by the party of archeologists under the direction of the Carnegie Institution of Washington, D. C.

JUDD, NEIL M.

(292)

(291)

EVERYDAY LIFE IN PUEBLO BONITA, AS DISCLOSED BY THE NATIONAL GEOGRAPHIC SOCIETY'S ARCHEOLOGICAL EXPLORATIONS IN THE CHACO CANYON NATIONAL MONUMENT, NEW MEXICO. Nati. Geog. Mag. 48: 227-262, iilus., map. Scptember 1925.

KIDDER, ALFRED VINCENT.

(293) AN INTRODUCTION TO THE STUDY OF SOUTHWESTERN ARCHEOLOGY, WITH A PRE-LIMINARY ACCOUNT OF THE EXCAVATIONS AT PECOS. 151 pp., illus., maps. New Haven, Pub. for the Dept. of Archaeoi., Phillips Academy, Andover, Mass., by the Yaie Univ. Press. 1924. (Southwest. Expedition Papers, No. 1.) Material on Indian agriculture is included. Bibliography, pp. 137-151.

See also the author's articlc entitled "American Farmers of 4000 B. C.; A Brief Survey of the Known History of Our Southwestern Aborigines" in Sci. Amer. 137: 22-24, ilius. (July 1927). Spanish translation under the title "La Agricultura en América 4000 años a. de J. C." in La Hacienda 22: 231-233, ilius. (August 1927).

- and GUERNSEY, SAMUEL J.

(294)ARCHEOLOGICAL EXPLORATIONS IN NORTHEASTERN ARIZONA. U. S. Bur. Amer. Ethnol. Bul. 65, 228 pp., ilius. 1919.

See especialiy pt. 2, Material Culture, pp. 98 ff.

KNIFFEN, FRED B.

(295)THE PRIMITIVE CULTURAL LANDSCAPE OF THE COLORADO DELTA. Calif. Univ. Pubs. Geog. 5 (2): 43-66, ilius. Berkeley. 1931.

Introduction (the natural setting), pp. 43-44; the cultural stages in the Colorado delta, p. 45; the primitive stage, pp. 46-57.

MACCLARY, JOHN STEWART.

THE FIRST AMERICAN FARMERS. Art and Archaeol. 24: 83-88, illus. September 1927.

The prehistoric cliff dwellers of the Southwest. The illustrations show a granary in which corn and beans were stored against lean years, dams thrown across drainage channels, forming terraces for water conservation, and a group of large earthenware jars used for holding the fruits of the harvest ; the mouths of the jars were sealed by stone lids mudded in place.

Article by same author with same title in World Rev. 5: 92-93, illus. (Oct. 24, 1927). It relates to the agriculture of the Basket Makers of the region "within a radius of 200 miles from the point where Colorado, Utah, New Mexico, and Arizona meet." The illustrations show large earthenware jars used in preserving fruit and a granary in which corn and beans were stored.

MARKLEY, MAX C.

ARCHAEOLOGY AS A TOOL FOR USE IN PREDICTING THE PERMANENCY OF AORICUL-TURE. Science (n. s.) 86: 492-493. Nov. 26, 1937.

The disappearance of agriculture from the eastern side of the White Mountains in southcastern New Mexico during pre-Spanish times is explained by the usc of archaeology.

MARTIN, PAUL S.

(298)DECENTRALIZATION IS OLD IN AMERICAN ECONOMICS. Sci. News Letter 36: 40. July 15, 1939.

The author's findings concerning the dispersion of Indians in Colorado about 860 A. D.

MATTHEWS, WASHINOTON.

(299)NAVAJO WEAVERS. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1881-82) 3: 371-391, iilus.

Dyeing, weaving processes, and articles woven.

42

(296)

(297)

MCGEE, W. J.

(300)

THE BEGINNING OF AGRICULTURE. Amer. Anthrop. 8: 350-375. October 1895. "A few observations and generalizations made incldentally in the course of an expedition through the little-known region in Arizona and Sonora (Mexico) called by Spanish Americans 'Papagueria,' or land of the Papago Indians. . . . In part the observations recorded herein pertain to subjects concerning which no expert knowledge is clalmed; insofar as they relate to plants and animals they are merely such as any intelligent traveler through a region of pronounced peculiarlties might be expected to make; but the observed relations of plants, anlmals, and men, among each other and to their common environment, were studied with care and generalized with some fullness."

MITCHELL, GUY E.

(301)

(302)

(303)

MOST ANCIENT OF ALL GRIST-MILLS. Amer. Forests and Forest Life 30: 745, 750. illus. December 1924.

The photograph shows an ancient Indian mill near Yosemite National Park, Calif.

[PROVINSE, JOHN H.]

TREE RINGS. Science (n. s.) v. 81, No. 2096, Sup. Mar. 8, 1935.

By the use of tree rings archaeologists at the University of Arizona hope to date diseases that plagued prehistoric Americans of the Southwest,

RAY, CYRUS N.

WAS THE AMERICAN MANO AND METATE AN INVENTION MADE DURING PLEISTOCENE TIME? Science (n. s.) 91: 190-191. Feb. 23, 1940.

Discoveries at the Gibson Site, Tex., may indicate that certain grinding implements were invented during pleistocene times.

REAGAN, ALBERT B.

SOME ANCIENT INDIAN GRANARIES. Utah Acad. Sci., Arts, and Letters, Proc. (1934) 11: 39-41, illus.

Stone granarles on certain Arizona and Utah sites.

RUSSELL, FRANK.

THE PIMA INDIANS. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1904-05) 26: 3-389, illus.

The food supply, pp. 66-83, with paragraphs on preparation of food, plants used for food, medicinal plants, and animals used for food; domestication of animals, pp. 84-86; agriculture, pp. 86-92, with paragraphs on Irrigation, division of labor, cercals, and vegetables; agricultural implements, pp. 97-99; household utensils, pp. 99-102.

SETZLER, FRANK M.

(306)A PREHISTORIC BREWERY. Science (n. s.) v. 87, No. 2269, Sup. June 24, 1938. The cave in the Big Bend region of Texas, believed to have been a ceremonial brewery, where sotol, a desert lily, was converted into an alcoholic drink.

STEWART, GUY R.

SOIL EXPERT STUDIES IDEAS OF PREHISTORIC INDIANS. Scl. News Letter 36: 391. Dec. 16, 1939.

Summary of the observations of Guy R. Stewart of the U.S. Soil Conservation Service in the Southwest.

SWEET, STUART L.

A CONSERVATION LESSON FROM THE CLIFF-DWELLERS. Amer. Forests and Forest Life 30: 654-657, 690, illus. November 1924.

"The remarkable story of an ancient reclamation system recently discovered that is solving a modern problem in water conservation In the Mesa Verde National Park." Illustrations show irrigation dams, the great cliff palace of the Mesa Verde, and pictographs on the walls of one of the Mesa Verde canyons.

THACKERY, FRANK A., and GILMAN, M. FRENCH. (309) A RARE PARASITIC FOOD PLANT OF THE SOUTHWEST [ammobroma sonorae]. Smithsn. Inst. Ann. Rpt. 1930: 409–416, illus. Literature cited, p. 416.

200256-41--4 (304)

(305)

(307)

(308)

THACKERY, FRANK A., and LEDING, A. R.

THE GIANT CACTUS OF ARIZONA. JOUR. Hered. 20: 401-414, illus. September 1929.

The use of its frult and other cactus fruits by the Indlans.

THOBURN, JOSEPH B.

(311)ANCIENT IRRIGATION DITCHES ON THE PLAINS. Chron. Okla. 9: 56-62. March 1931,

Prehistoric irrigation works in Arizona and New Mexico.

(312)PREHISTORIC IRRIGATION WORKS. Prof. Engln. 16 (2): 7-8, map. February 1931.

Description of a prehistoric irrigation system in the southwestern part of Clark County, Kans.

TURNEY, OMAR A.

(313) PREHISTORIC IRRIGATION. Ariz. Hist. Rev. 2 (1): 12-52; (2): 11-52; (3): 9-45; (4): 33-73. April 1929-January 1930.

The prehistoric canais in the Sait River Valley.

WALLACE, DAN A.

ANCIENT AMERICAN AORICULTURE; THE OLD TIME SEARCH FOR RURAL SECURITY. Farmer 56 (15) : 5, 17, ilius. July 16, 1938.

The agriculture of the Puebio cuiture period of the American Southwest, with special attention to irrigation at Casa Grande in Arizona.

See also items 3, 5-6, 18, 37, 344, 391, 403-411, 519, 556, 560-561, 602, 697.

VIRGINIA

BRUCE, PHILIP ALEXANDER.

(315)ECONOMIC HISTORY OF VIRGINIA IN THE SEVENTEENTH CENTURY ; AN INQUIRY INTO THE MATERIAL CONDITION OF THE PEOPLE; BASED UPON ORIGINAL AND CON-TEMPORANEOUS RECORDS. 2 v. New York and London, Macmilian & Co. 1896.

See ch. 2, Aboriginai Virginia: Its Physical Character, 1: 71-139, and particularly ch. 3, Aboriginai Virginia: Indian Economy, 1: 140-188. Pp. 149-165 of ch. 3 are reprinted in L. B. Schmidt and E. D. Ross, editors, Readings in the Economic History of American Agriculture, pp. 40-49 (New York, Macmilian Co., 1925). Bibliography, 1: xv-xix.

BUSHNELL, DAVID I., JR.

EVINENCE OF INDIANS OCCUPANCY IN ALBEMARLE COUNTY, VIRGINIA. Smithsn. Mlsc. Coilect. v. 89, No. 7, 24 pp., illus. Washington, D. C. 1933.

Coming of the colonists; evidence of an early period of occupancy; sites and the distribution of various objects; the sources of Hardware River; the Berkeiey cache; hunting grounds between the junction of the branches of the Hardware River and the mountains.

MAXWELL, HU.

THE USE AND ABUSE OF FORESTS BY THE VIRGINIA INDIANS. Wiiiiam and Mary Col. Quart. Hist. Mag. 19: 73-104. October 1910.

Note especially pp. 79-86 on land cleared for agriculture. Bibliographical footnotes.

WILLOUOHBY, CHARLES C.

(318) THE VIRGINIA INDIANS IN THE SEVENTEENTH CENTURY. Amer. Anthrop. 9: 57-86, ilius. January-March 1907.

Agriculture and food in general, pp. 82-86.

See also items 6, 9, 17, 21, 47, 58, 245.

WISCONSIN

BROWN, CHARLES E.

(319) CHECKLIST OF WISCONSIN INDIAN IMPLEMENTS. Wls. Archeoi, (n. s.) 8: 81-94. Aprli 1929.

Sixty-three classes of stone implements, 36 classes of copper implements, 100 classes of silver, lead, bone and other types, and 62 types of wooden implements.

44

(317)

(314)

(310)

BROWN, CHARLES E. (320)STONE PESTLES AND MORTARS. WIS. Archeol. (n. s.) 3: 7-13. January 1924. Pestles in Wisconsin, stone mortars, corn mills, wooden pestles and mortars. HIBBARD, BENJAMIN HORACE. (321)

INDIAN AGRICULTURE IN SOUTHERN WISCONSIN. WIS. State Hist. Soc. Proc. 1904: 145-155.

Also In Mag. Hist. 1: 97-104. February 1905.

HOFFMAN, WALTER JAMES.

THE MENOMINI INDIANS. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1892-93) 14 (1): 11-328, illus. 1896.

Pipes and tobacco, pp. 247-253; furniture and implements, pp. 256-258; products of manufacture, pp. 258-272; food (food in general, gormandism, offensive food, maple sugar, wildrice, berries and snakeroot), pp. 286-292.

KEESING, FELIX M.

(323)THE MENOMINI INDIANS OF WISCONSIN: A STUDY OF THREE CENTURIES OF CUL-TURAL CONTACT AND CHANOE. 261 pp. Philadelphia, Amer. Phil. Soc. 1939. (Amer. Phil. Soc. Mem. 10.)

Considerable material on agriculture. Revlewed by L[ouise] P[helps] K[ellog] in Wis. Mag. Hist. 23: 366-367 (March 1940).

PACKER, B. G.

ABORIOINAL AND PIONEER AGRICULTURE IN WISCONSIN. WIS. Mag. 1: 3-5, Illus. July 1923.

SCHOEWE, CHARLES G.

USES OF WOOD AND BARK AMONO THE WISCONSIN INDIANS. Wls. Archeol. (n. s.) 11: 148-152. July 1932.

SMITH, HURON HERBERT.

ETHNOBOTANY OF THE FOREST POTAWATOMI INDIANS. Mliwaukee Pub. Mus. Bul. 7 (1): 1-230, illus. May 9, 1933.

Introduction, pp. 11-14; Forest Potawatoml History, pp. 14-23; Material Culture, pp. 23-24; Religion, pp. 24-31; Potawatoml Ethnobotany (vegetal medicines, medicinal materials, vegetable foods, vegetal fibers, miscellaneous uses of plants), pp. 32-124; Conclusion, pp. 124-125; Authorities Quoted, pp. 126-127; Finding Llst of Plants (by scientlfic names; by English names; by Forest Potawatomi names), pp. 128-154.

The Forest Potawatoml of northern Wisconsin are a woodland-dwelling Algonklan trlbe closely related to the Ojibway of western Ontario, whom they closely resemble in mode of life.

ETHNOBOTANY OF THE OJIBWE INDIANS. Milwaukee Pub. Mus. Bui. 4 (3): 329-524, lilus. May 2, 1932.

Ojibwe Mediclnes (Ojibwe medlclnal materlals other than plants; Ojibwe medlcinal plants), pp. 348-392; Ojibwe Vegetal Foods (Ojibwe food plants), pp. 393-411; Ojibwe Vegetal Fibers (Ojibwe fiber plants), pp. 411-423; Ojlbwe Vegetal Dyes (Ojibwe dye plants), pp. 424-426.

See also items 84, 223, 392, 432, 437, 479, 482, 495, 579, 630-633, 737.

SPECIFIC CROPS AND ANIMALS

BEES

NORDENSKIÖLD, E. L'APICULTURE INDIENNE. Soc. des Américanistes de Paris Jour. (1929) 21 (1): 169-182, illus., map.

A collection of references to bee culture in pre-Columbian America and published observations of the author upon aplculture among contemporary South American Indians. The map indicates the distribution of the custom. Index bibliographique, p. 182.

See also Item 134.

CORN

ANONYMOUS.

FIND PREHISTORIC CORN IN TENNESSEE STONE GRAVES. Jersey Bul, and Dairy World 40: 2588. Oct. 12, 1921.

Brief account of the corn found by W. E. Meyer of the U. S. Bur. Amer. Ethnol. in Indian graves in Davldson County, Tenn.

(327)

(329)

(324)

(325)

(326)

(322)

ANONYMOUS.

INDIANS AS CORN GROWERS. Wallaces' Farmer 44: 1624-1625. Aug. 22, 1919. A hrief sketch in the Boys' Corner section.

ALBES, EDWARD.

MAIZE; THE GREATEST OF AMERICAN FOOD PRODUCTS. Pan Amer. Union Bul. 43: 33-54, illus. July 1916.

Note pp. 33-42 and the 16 illustrations.

ATKINSON, ALFRED, and WILSON, M. L.

CORN IN MONTANA; HISTORY, CHARACTERISTICS, ADAPTATION. Mont. Agr. Expt. Sta. Bul. 107, 128 pp., illus. Bozeman. 1915.

Origin of corn; corn growing of the Northeastern Indians; corn growing of the North Central Indians; corn growing of the Upper Missouri Indians (the Arikara; the Mandan; the Hidatsa); history of early Montana corn growing. Part 3, Classification and Variety History, also has pertinent facts. Bibliographical footnotes.

BATES, ERL A.

IROQUOIS GOLD OR MAIZE. Cornell Countryman 20:7-9, illus. Octoher 1922. The picture of the Indian corn house shows a mortar, two baskets of sieves, and corn-carrying hasket, "the grandfather of our pack basket."

(334)

(333)

WHAT THE CORN PLANT TAUGHT THE INDIAN. Cornell Countryman 27: 42-43. November 1929.

BEAUCHAMP, W. M.

INDIAN CORN STORIES AND CUSTOMS. JOUR. Amer. Folk-Lore 11: 195-202. July-September 1898.

BEEDE, AARON MCGAFFEY.,

LARGE INDIAN CORNFIELDS IN NORTH DAKOTA LONG AGO; AND AN INDIAN DBAMA PETITE FOR SCHOOL CHILDREN. 24 pp., illus. [Bismarck, N. Dak., Tribune Print. 1914.]

BIGGAR, HARVEY HOWARD.

THE OLD AND THE NEW IN CORN CULTURE. U. S. Dept. Agr. Yearbook 1918: 123-136. illus.

Corn and the Indian; kinds of corn grown by the Indians; primitive seedtesting methods; primitive corn-planting methods; Indian cornfields; primitive tools; plants as Indicators of the season; seed selection and storing; Indian corn foods; primitive and modern methods of culture.

The illustrations show the types of corn raised by the Indians of the Southwest, an Indian's corn-husking pin made of hear hone, and a scraper made from a deer's jaw and used hy the Iroquois Indians for removing green corn from the coh.

Also issued as Yearbook Separate 776. Also in Dakota Farmer 39: 1596-1599 (Oct. 15, 1919); and in abbreviated form in Hoard's Dairyman 58: 380-381, 384-385 (Sept. 26, 1919).

(338)

PRIMITIVE METHODS OF MAIZE SEED PREPARATION. Amer. Soc. Agron. Jour. 10: 183-185. April 1918.

(339)

(340)

(341)

(342)

TRAILING KING CORN; OLD TRIBESMEN TELL TRUE STORY OF INDIAN MAIZE. Wallaces' Farmer and Iowa Homestead 55 (40); 7, 19, illus. Oct. 4, 1930.

BREWER, WILLIAM H.

HISTORY OF INDIAN CORN; NATURAL HISTORY OF INDIAN CORN. In Report on Cereal Production of the United States, U. S. Bur. Census, 10th Census, 1880, 3: 93-96.

BUBLISON, W. L.

THE RED MAN'S CORN. Home Geog. Monthly 2 (2): 13-18, illus. August 1932.

C.

INDIAN MEAL. Fraser's Mag. 39: 561-563. May 1849.

Also in Littell's Living Age 22: 265-267 (Aug. 11, 1849). Indian corn as an article of food.

46

(332)

(330)

(331)

(335)

(336)

(337)

CASSIDY, LOUISE LOWBER.

AMERICA'S ABORIGINAL CORN BELT; PUEBLO INDIANS WERE CORN GROWERS FIVE THOUSAND YEARS AGO. Wallaces' Farmer 51: 1471, 1481, illus. Nov. 12, 1926.

The illustrations show an ancient wooden harrow found in a New Mexico viliage and a pile of many-colored ears of Indian corn drying in a Pueblo dooryard.

COLLINS, GUY N.

A DROUGHT-RESISTING ADAPTATION IN SEEDLINGS OF HOPI MAIZE. JOUR. Agr. Res. 1: 293-301, illus. Jan. 10, 1914.

Introduction, p. 293; morphology of the maize seedlings, pp. 293-295; germination of Navajo maize, pp. 296-298; description of root system, p. 298; field studies of pueblo varieties of maize, pp. 298-300; conclusions, pp. 300-301; literature cited, p. 301.

A study of the maize grown by the Hopi, Zuñi, and Navajo Indians of New Mexico and Arizona, bringing to light an adaptive character that promises to be of economic importance in dry regions where germination is uncertain.

A FOSSIL EAR OF MAIZE; FIRST TANGIBLE EVIDENCE OF THE EXISTENCE OF INDIAN CORN IN GEOLOGIC TIMES. JOUR. Hered. 10: 170-172, illus. April 1919.

The illustration shows fossil maize compared with modern maize. See also the discussion by Roland W. Brown, "The Supposed Fossil Ear of Maize from Cuzco, Peru," in Wash. Acad. Sci., Jour., 24: 293-296 (July 15, 1934). (346)

NOTES ON THE AGRICULTURAL HISTORY OF MAIZE. Amer. Hist. Assoc. Ann. Rpt. (1919) 1: 409-429.

Also in Agr. Hist. Soc. Papers 2: 409-429 (1923). Much material on corn among the Indians.

(347)

THE ORIGIN OF MAIZE. Wash. Acad. Sci. Jour. 2: 520-530. Dec. 19, 1912. Supplementary statement by the same writer, "Maize: Its Origin and Relationships," in the same publication, 8: 42-43 (Jan. 19, 1918).

(348)

PUEBLO INDIAN MAIZE BREEDING; VARIETIES SPECIALLY ADAPTED TO ARID REGIONS DEVELOPED BY HOPIS AND NAVAJOS; THEIR WORK NOT SUFFICIENTLY APPRE-CIATED; PROBABLY MUCH YET TO BE LEARNED FROM THEM. JOUR. Hered. 5: 255-268, illus. June 1914.

The illustrations include a view of a Zuñi plantation of maize in Arizona; one of a field at the base of the first Hopi mesa, near Polacco, Arizona; a close-up of a stalk of maize, the single ear being more than one-half the height of the entire plant; and a single plant of Navajo maize with the leaves and husks removed grown under irrigation at Shiprock, N. Mex.

CURRELLY, C. T.

(349)

(350)

INDIAN CORN NOW FEEDS THE NATIONS. Farmer's Advocate 64: 1819, 1826, illus. Dec. 12, 1929.

"The American Indian was not so much a warrior and hunter as a farmer who has made an outstanding contribution to the agricultural progress of the world."-Subtitle.

The illustrations include views of Indian corn from the southwestern United States about 1,000 years old, now in the Royal Ontario Museum, and a pottery figure of a Mexican god with ears of corn represented in his headress, about 1,000 years old, and now in the Royal Ontario Museum.

CUSHING, FRANK HAMILTON.

ZUNI BREADSTUFF. 673 pp., illus. New York, Museum of the American Indian, 1920. (Indian Notes and Monog., v. 9.) Heye Foundation.

1, Creation, and the Origin of Corn; 2, The Origin of the Dragonfly and of the Corn Priests, or Guardians of the Seed; 3, Land-Law and Labor; 4, Corn-Raising, or the "Decay of the Seed"; 5, Corn-Raising, or the Regenera-tion of the Seed; 6, J'-no-te-kwea-wen-J'-tâ-we, or the "Food of the Ancients"; 7. Na'-na-kwea-wen-J'-tâ-we, or the "Food of the Grandfathers"; 8, "The Young Men Who Were Fond of Parched Corn and Sweet Gruel, or the Four

(343)

(344)

(345)

48 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

CUSHING, FRANK HAMILTON-Continued.

Awkward Sultors"; 9, Ta-a J-ta-we, or the "Food of the Seed of Seeds": 10, He-we J-ta-we, or the Wafer Foods; 11, Khia J-ta-we, or Wheat Food; 12, Hu-mu-a K'la-na-kwe, or the Crooner Bands; 13, The Story of the Younger Hunter; 14, How He Learned to Hunt; 15, How He Was Divorced; 16, How He Twice Returned; 17, About Some Indian Meals; 18, More Indian Meals; 19. Corn Dances and Festivals.

The contents of this book were first published as a series of articles in the Millstone of Indianapolis, a trade magazine that long since ceased publication, in its Issues extending from volume 9, January 1884, to volume 10, August 1885. Later an attempt was made to reprint the articles in condensed form In Milling, of Chicago, but only the first nine chapters thus appeared, extending from volume 3, No. 2, July 1893, to volume 4, No. 4, March 1894, when their publication ceased. Review by A. L. Kroeber in Amer. Anthrop. 23: 479 (October-December 1921).

DAVENPORT, HELEN W.

MONDAMIN, THE SPIRIT OF THE INDIAN CORN. New England Mag. (n. s.) 29: 239-246, illus. October 1903.

DE KRUIF, PAUL HENRY.

HUNGER FIGHTERS. 377 pp., illus, New York, Harcourt, Brace & Co. 1928.

See the Maize Finders; Ancient and Anonymous, pp. 169-175, for an account of the domestication of maize.

DELABARRE, EDMUND BURKE, AND WILDER, HARRIS H. (353)

INDIAN CORN HILLS IN MASSACHUSETTS. Amer. Anthrop. 22: 203-225, Illus., map. July-September 1920.

The remains of small mounds or hills in which the Indians planted their maize and other crops. See also item 364.

DIGUET, LÉON.

LE MÄIS ET LE MAGUEY CHEZ LES ANCIENNES POPULATIONS DU MEXIQUE. Soc. des Américanistes de Paris Jour. (1910) 7:5-35, illus.

Conclusions and bibliography, pp. 34-35.

EARLE, ALICE MORSE.

INDIAN CORN IN COLONIAL TIMES. Chautauquan 26: 584-590. March 1898.

Chlefly instruction of the whites by the Indians in the cultivation of corn and its preparation as food.

EAST. EDWARD M.

A CHRONICLE OF THE TRIBE OF CORN. Pop. Sci. Monthly 82: 225-236, illus. March 1913.

An attempt to trace the exact path of the evolution of maize. Agrees with many of the conclusions of Montgomery and Collins and attempts to present only the probable way in which certain important jumps were made.

ERWIN, A. T.

A RARE SPECIMEN OF ZEA MAYS. VAR. SACCHARATA [FROM THE AZTEC BUIN, NEW MEXICO]. Science (n. s.) 79: 589. June 29, 1934.

(358) SWEET CORN-ITS ORIGIN AND IMPORTANCE AS AN INDIAN FOOD PLANT IN THE UNITED STATES. Iowa State Col. Jour. Sci. 8: 385-389. April 1934.

Early literature on Susquehannah or papoon corn; archeological evidence: sacred corn; genetic aspect; literature cited.

FLETOHER, ALICE C., and LA FLESCHE, FRANCIS.

(359) THE OMAHA TRIBE. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1906) 27: 17-672, illus.

The Quest for Food, pp. 261-312, contains material on the ritual of the maize, cultivation of maize, names of parts, and preparations of maize. Cooking and Foods, pp. 340-342. Some curative plants, pp. 584-587.

FURNAS, ROBERT W.

CORN; ITS ORIGIN, HISTORY, USES, AND ABUSES. 26 pp. Lincoln, Nebr. 1886. See especially pp. 9–13 on the orlgin of corn.

(360)

(355)

(854)

(356)

(357)

GILMORE, MELVIN RANDOLPH.

ARIKARA COMMERCE. Indian Notes 3: 13-18, illus. January 1926.

One illustration shows an Indian woman roasting corn to dry for winter use; another, braided strings of seed corn curing on a scaffold.

(362)GREATER BREEDERS THAN REID OR LEAMING. Wallaces' Farmer 54: 726, 734. May 10, 1929.

"American Indian holds the record in developing the Mid-West's greatest crop."---Subtitle.

[GREGORY, CLIFFORD V.]

FARMING THROUGH THE AGES; THE STORY OF INDIAN CORN. Prairle Farmer 101: 119, 139, illus. Jan. 26, 1929.

The pictures show a drawing of corn, or "Turkie Wheat," made in 1597, a Zapotecan urn with ears of corn on its sides, a wooden Indian hoe, and corn found In Indian ruins of the Basket-Maker era in Arizona.

HALLOWELL, A. I.

INDIAN CORN HILLS. Amer. Anthrop. 23: 233. April-June 1921.

The remnants of Indian agriculture found in the vicinity of Mohegan, Conn. A "footnote" revision of Item 353.

HARRINGTON, M. R.

SOME SENECA CORN FOODS AND THEIR PREPARATION. Amer. Anthrop. 10: 575-590, illus. October-December 1908.

"The principal native methods of corn preparation still in use among the Seneca Indians, as told me by the people themselves during my various sojourns among them on their reservations in western New York, without any attention to treat the subject from the historical standpoint or to make a compilation from various authors."

HARSHBERGER, JOHN W.

MAIZE: A BOTANICAL AND ECONOMIC STUDY. Pa. Univ. Bot. Lab. Contrib. 1 (2): 75-202, illus. Philadeiphia. 1893.

1, Botanical, pp. 75–89; 2, Origin, pp. 90–153; 3, Geographical Distribution, pp. 154–158; 4, Chemical, pp. 159–170; 5, Agriculture-physiological, pp. 171– 176; 6, Utility, pp. 177–188; 7, Economic Considerations, p. 189–198; 8, Future, pp. 199-200. Footnotes and bibliography at the end of certain of the chapters.

See also the same author's article "Maize, or Indian Corn" in Cyclo. Amer. Agr., 2: 398-402.

HENDRY, GEORGE W.

(367)ARCHAEOLOGICAL EVIDENCE CONCERNING THE ORIGIN OF SWEET MAIZE. Amer. Soc. Agron. Jour. 22: 508-514. June 1930.

The author concludes that sweet maize was derived through mutation from an older endosperm type or types, and that such mutation occurred in at least one instance in the Peruvian highlands before 1534 A. D.; that in this instance it seems probable that the sweet mutant first appeared in a variety of the floury type; and that a distinct group of sweet varieties, possessing characteristics similar to the Huanrachuco variety and possibly of similar genesis, is to be found under cultivation among the Indians of the

arid Southwest, and probably in Peru. Photograph of the Huanrachuco ear with sections of representative kerneis, p. 509. Literature cited, pp. 513-514.

HEN-TOH, WYANDOT.

MON-DAH-MIN, AND THE RED MAN'S WORLD OLD USES OF INDIAN CORN AS FOOD. Jour. Home Econ. 10: 444–451. October 1918.

HINSDALE, WILBERT B.

(369)INDIAN CORN CULTURE IN MICHIGAN. Mich. Acad. Sci., Arts, and Letters, Papers (1927) 8: 31-49, illus.

The illustration is of an old Indian corn-field in Haynes Township, Alcona County, Mich.

(366)

(363)

(368)

(365)

(364)

HOSKINS, T. H.

AN INDIAN ON INDIAN CORN. Gard. and Forest 8: 23. Jan. 2, 1895.

The views of Peol Susup, a member of the Penobscot tribe, on their reserve on the Penobscot River, above Bangor, Maine, concerning Indian corn.

HUDSON. PETER J.

CHOCTAW INDIAN DISHES. Chron. Okla. 17: 333-335. September 1939. Detailed recipes of the various ways the Choctaw Indians prepare corn.

KELLEBMAN, W. A.

THE PRIMITIVE CORN. Meehans' Monthly 5: 44. January 1895.

"Speculation on the origin of Indian corn."

KEMPTON, J. H.

MAIZE AND MAN. Jour. Hered. 17: 32-51, Illus. February 1926.

There are 18 Illustrations, including reproductions of photographs of the following: prehistoric vases decorated with maize or corn, its use as a decorative motif emphasizing the plant's importance to the ancient aborlgines; an Aztec terra cotta ceremonial urn showing the season's history of the maize plant from the planting to the harvest; a clay whistle made by the Maya Indians; prchistoric ears of maize; a plant of Tripsacum pilosum, a North Americau cousin of maize; plants of Gama grass (Trip-sacum lanceolatum), a remote ancestor of maize; plants of the annual teosinte (Euchlaena mexicana), relative of maize; Jala maize which has the largest plants of any known variety; Cuzco malze which has the largest kernels.

See also the article by the same author with Wilson Popence, "Teosinte In Guatemala," Carnegie Inst. Washington, Contrib. Amer. Archaeol., 23: 199-217, Illus. (June 1937).

KEMPTON, J. H.

MAIZE-OUR HERITAGE FROM THE INDIAN. Smithsn. Inst. Ann. Rpt. 1937: 385-408, Illus., maps.

Introduction, pp. 385-388; history, pp. 388-394; birthplace of maize, pp. 394-396; theories of origin, pp. 396-408.

(375)

(374)

MAIZE, THE PLANT-BREEDING ACHIEVEMENT OF THE AMERICAN INDIAN. In Old and New Plant Lore: A symposium, Smithsn. Sci. Ser., 11: 319-349, illus. New York. 1931.

The domestication of plants as a measure of civilization, pp. 319-328; the orlgin of maize, pp. 329-348; selected bibliography, p. 349. The 18 lllustrations are excellent.

LACY, MARY G.

CORN, OUR OLDEST INHABITANT. Wallaces' Farmer 44: 2517. Dec. 19, 1919.

[LANMAN, CHARLES.]

GREEN-CORN CEREMONIES OF THE CHEROKEES. Mag. Hist. 19: 89-92. August-September 1914.

LAWBENCE, D. H.

THE DANCE OF THE SPROUTING CORN. Theatre Arts Mag. 8: 447-457, Illus. July 1924.

The corn dance of a Rio Grande pueblo. This account appears under the title "Indianische Mysterien; 1, Der Tanz des spiessenden Korns," in Neue Rundschau 45(1): 79–94 (January 1934).

LINTON, RALPH.

THE SIGNIFICANCE OF CERTAIN TRAITS IN NORTH AMERICAN MAIZE CULTURE. Amer. Anthrop. 26: 345-349. July-September 1924.

The maize culture of eastern United States differed in several particulars from the maize cultures of the Southwest and Mexico, and the article shows that the tralts peculiar to the Unlted States were either developed Independently after the acquisition of maize or were derived from some older food complex which did not center around maize

(378)

(379)

(376)

(377)

(372)

(371)

(370)

(373)

LORD, RUSSELL.

MEN OF EARTH. 298 pp. illus. London, New York, Toronto, Longmans, Green & Co. 1931.

See pp. 13-23 for material on agriculture, especially corn, among the Iroquois.

MANGELSDORF, P. C., and REEVES, R. G.

THE ORIGIN OF INDIAN CORN AND ITS RELATIVES. Tex. Agr. Expt. Sta. Bul. 574, 315 pp., illus. College Station, Tex. May 1939.

Botanical Relationships of Maize, pp. 10-34; Previous Evidence on the Origin of Maize, pp. 34-62; Previous Theories on the Origin of Maize, pp. 62-70; New Evidence from Cytogenetic Studies, pp. 70-203; The Origin of Teosinte, pp. 203-221; The Origin of Maize, pp. 221-267; The Origin of Tripsacum, pp. 267-268; Theoretical Phylogeny of the American Maydeae, pp. 268-270; Relationship of the American Maydeae to the Andropogoneae, pp. 271-272; Maize in Relation to Culture and Civilization (arrival of man in America; ancient cultures and civilizations-the Andean, the middle American, others; maize, agriculture, and the archaic culture—the origin of American agriculture, primitive agriculture in South American lowlands, geographical features in relation to domestication, possibility of an early indigenous agriculture in mlddle America, the spread of maize and agriculture), pp. 273-302; Conclusions, pp. 302-307; Literature Cited, pp. 308-315.

Review by E. D. Merrill in Geog. Rev. 30: 172-173 (January 1940).

MCNAIR, JAMES B.

Field Mus. Nat. Hist., Chicago, Bot. Leaflet 14, 33 pp., illus. INDIAN CORN. Chicago, 1930.

Origin, geographic distribution and varieties, pp. 2-13; use by the American Indian, pp. 14-18; modern industrial and experimental products, pp. 19-33. Note the photograph of the ancient Peruvian jar, p. 4, and that of a preconquest Mexican maize almanac, pp. 16-17.

MEAD, CHARLES W.

INDIAN CORN OR MAIZE. Nat. Hist. 21: 408-413, illus. July 1921.

Description of how corn was planted, ground, and prepared by the Indians. The illustrations show an Iroquois woman pounding maize into meal; a metate and handstone; a grinding device used in Peru and Bolivia; and an ear of corn from a pre-Columbian grave in Peru.

MESSEDAGLIA, LUIGI.

IL MAIS E LA VITA BURALE ITALIANA, SAGGIO DI STORIA AGARIA. 446 pp., illus., map. Piacenza, Federazione italiana dei consorzo agrari. 1937.

See ch. 2. Generalità sul mais il mais nell'antica America; ch. 3, Cristoforo Colombo e il mais; ch. 4, I nomi del mais; ch. 5, Il grano turco; perchè turco? Bibliographical note at end of each chapter.

MILLSPAUGH, CHARLES, F.

INDIAN CORN. Chautauquan 31: 338-343, illus. July 1900.

N., H. B.

PROGENITORS OF THE GOLDEN EAR. Christian Sci. Mont. Mag. May 25, 1938. p. 13.

The attempts of archaeologists to find the American origin of cultivated corn.

NEVILLE, RUSSELL T.

PREHISTORIC FOLKS OF AMERICA. Prairie Farmer 100: 1422, illus. Oct. 13, 1928.

"Growing corn a thousand years before Christ."

NUTTALL, ZELIA.

DOCUMENTARY EVIDENCE CONCERNING WILD MAIZE IN MEXICO. JOUR. Hered. 21: 217-220. May 1930.

Attention is called to the statement made on page 21 of the Chevalier Boturini's Idea de una Nueva Historia General de la America Septentrional to the effect that he found wild maize growing in forests on the tierra caliente of Mexico and urges the reliability of this report of the comparatively late survival in the wild state of an ancestor of cultivated maize.

Bibliographical footnotes.

See also the same writer's "Wilder Mais in Mcxiko," in Ztschr. f. Ethnol. (1927) 59 (3-6): 252-254.

(383)

(384)

(382)

(381)

(380)

(385)(386)

(387)

(388)

PARKER, ARTHUE CASWELL.

IROQUOIS USES OF MAIZE AND OTHER FOOD PLANTS. N. Y. State Mus. Bul. 144, 119 p., illus. Albany, Univ. State of N. Y. 1910.

A valuable scientific ethnobotanical study. Pt. 1, Maize, pp. 9-88: 1, Maize or Indian Corn in History, pp. 9-15; 2, Early Records of Corn Cultivation, pp. 15-20; 3, Iroquois Customs of Corn Cuitivation, pp. 21-36; 4, Ceremoniai pp. 19-20; 5, froquois customs of confit curvation, pp. 21-30; 4, certainman and Legendary Ailusions to Corn, pp. 36-39; 5, Varieties of Maize Used by the Iroquois and Other Eastern Indians, pp. 41-44; 6, Corn Cuitivation Terminology, pp. 44-45; 7, Utenslis Employed in the Preparation of Corn for Food, pp. 45-58; 8, Cooking and Eating Customs, pp. 59, 65; 9, Foods Prepared from Corn, pp. 66-80; 10, Uses of the Corn Plant, pp. 80-88.

Pt. 2, Notes on Certain Food Plants Used by the Iroquois, pp. 89-110; 11. Beans and Bean Foods, pp. 89-90; 12, Squash and Other Vine Vegetables, pp. 90-92; 13, Leaf and Staik Foods, p. 93; 14, Fungi and Lichens, pp. 93-94; 15, Fruit and Berrylike Foods, pp. 94-99; 16, Food Nuts, pp. 99-102; 17, Sap and Bark Foods, pp. 102-104; 18, Food Roots, pp. 104-109; List of authorities quoted, pp. 110-113.

The illustrations are excellent and include views of the following: Hoe blades; husking pins; corn mortars; baskets of various kinds; roasting frame; storage barrels, pits and cribs; corn picking and husking; ceremonials; masks of shreds of braided husk; husk moccasins.

RIPPERGER, HENRIETTA.

NOW COME THE DAYS FOR SWEET CORN. N. Y. Times Mag. Aug. 5, 1934, p. 14.

"The recipes of the Indian, whose gift it was, are still followed by the white man."-Subtitle.

STEECE, HENRY M.

CORN CULTURE AMONG THE INDIANS OF THE SOUTHWEST. Nat. Hist. 21: 414-424. July-August 1921.

This description of the agricultural methods of the Pueblo and the nomadic Indians of Arizona and New Mexico, is reprinted in Indian School Jour. 22 (3): 9-19, illus. (Chiiocco, Okia., October 1922).

The iliustrations show the foilowing: Charred corn from pit in prehistoric communal dweiling on mesa north of Los Alamos Cañon, N. Mex.; hill of corn at Zuñi Puebio, N. Mex.; agricuitural implements of the natives of Laguna Puebio, the hoes having been fashioned from old shovels and the handles made of piñon; the Heppatinna, a Zuñi shrine in the midst of a large Indian cornfleid, the structure being consecrated to the center of the earth over which spot it is supposed to stand; a Navajo's corn crop; a Hopi Indian demonstrating his method of corn planting; Laguna Indian husking corn into a sacking apron; Pima granaries at Sacaton, Ariz.; corn drying on the house tops at San Felipe Pueblo, N.M.; corn in a dooryard at Laguna; field of Hopi corn and melons at the foot of the First Mesa, Polacca, Ariz., produced without irrigation; exterior view of a kiva or estufas, underground rooms where the secret fraternities hold their ceremonials; Hopi Indians making bread.

STICKNEY, GARDNER P.

THE USE OF MAIZE BY WISCONSIN INDIANS. Parkman Club Pub., 13: 63-87. [Milwaukee, Wis., Printed for the Parkman Ciub by E. Keogh. 1897.]

Bibiiographical footnotes.

STURTEVANT, E. LEWIS.

INDIAN CORN. N. Y. State Agr. Soc. Trans. (1877-82) 33: 37-74.

Bibliography, pp. 39-40; antiquity of its culture, pp. 42-46; mythology, pp. 47-49; original varieties, pp. 55-59; Indian cultivation, pp. 66-68; products, pp. 68-69.

(394)INDIAN CORN AND THE INDIAN. Amer. Nat. 19: 225-234. March 1885.

Agricultural products other than corn are included.

THONE, FRANK.

A CORRIDOR FOR CORN. Sci. News Letter 27: 419. June 25, 1935.

Mr. R. Gilmore's suggestion that agriculture spread from Mexico to the eastern United States by way of "a belt of oak-hickory forest that reaches westward along the scarp of the Edwards Piateau almost to Dei Rio on the Rio Grande."

(392)

(393)

(395)

(390)

(391)

TINDALL, CORDELL.

A GIFT FROM THE GODS; THAT'S THE INDIAN VERSION OF THE ORIGIN OF COBN. MO. Ruralist 78 (22): 10, illus. Oct. 30, 1937.

"Really, since the dawn of history agriculture has advanced as methods of corn growing having improved. . . . It cannot definitely be proved, but many scientists think that corn was the first cultivated cereal."

The illustrations show an Aztec urn decorated with ears of corn, annual teosinte, and ears of Navaho corn.

WEATHERWAX, PAUL,

THE EVOLUTION OF MAIZE. Torrey Bot. Club Bul. 45: 309-342. August 1918. References, pp. 340-342. Review by J. H. Kempton in Wash. Acad. Sci. Jour. 9: 3-11 (Jan. 4, 1919).

THE STORY OF THE MAIZE PLANT. 247 pp., illus., maps. Chicago, Univ. Chicago Press. 1923.

See 1, Introduction, pp. 1-3; 2. Names and Relationships, pp. 4-10; 3, History and Geographical Distribution, pp. 11-21; 26, Maize in Aboriginal America (food supply and civilization; maize areas in America; origin of maize culture; evolution of maize culture; varieties grown by the Indians; agricultural engineering; harvesting and storage; uses; maize and religion; America's gift to mankind), pp. 197-216; 27, Maize in American Life, pp. 217-225; Bibliography, pp. 226-235.

WENZ, ALFRED.

(399)

(400)

IN THE HEART OF THE CORN COUNTRY. Dakota Farmer 36: 1068-1070, illus. Oct. 15, 1916.

The corn growing of the Mandan Indians in the Upper Missouri Valley.

WILL, GEORGE FRANCIS.

CORN FOR THE NORTHWEST. 158 pp., illus. St. Paul, Minn., Webb Book Pub. Co. 1930.

See especially 3, Brief History of Corn Growing, pp. 18-22; and 5, History of Aboriginal Corn Growing in the Northwest, pp. 29-34; References, pp. 154-156. Photographs of aboriginal agricultural tools and products, p. 18; Arikara Indians preparing corn for drying, p. 20; Indian woman roasting corn beside her cornfield, p. 21; typical Mandan and Arikara corn ears, p. 30; Ft. Berthold village, about 1870, showing the earth lodges and corn scaffolds, p. 33.

- and Hyde, George E.

(401)

CORN AMONG THE INDIANS OF THE UPPER MISSOURI. 323 pp., illus. St. Louis, Mo., William Harvey Miner Co. 1917. (Little Histories of North American Indians, No. 5.)

Acknowledgements; Introduction; 1, The upper Missouri Indians (1, migrations and early history; 2, The earth-lodge village; 3, agriculture); 2, Planting and Cultivation (1, spring work; clearing and planting the ground; 2, hoeing and weeding; 3, the patches, acreage, and yields); 3, Harvest (1, the return from the summer hunt; 2, the green-corn harvest; 3, the ripe-corn harvest; 4, storing the crop; 5, yields); 4, Corn as food (1, methods of preparing corn; 2, utensils); 5, Corn as an article of trade (1, early inter-tribal trade; 2, trade with the whites); 6, The sacred character of corn (1, the corn and the buffalo; 2, corn origin myths); 7, corn ceremonies (1, ceremonial organization; 2, sacred corn; 3, spring, summer, and fall ceremonies; 4, various ceremonies, beliefs, and practices); 8, Varieties.

The illustrations show the following: Set of Hidatsa agricultural implements; ears of various varieties of corn raised by the Indians; plants of various varieties of corn raised by the Indians; Mandan squash; rawhide bowl and stone mortar; bone hoe; baskets of the Mandans, Hidatsa, and Arikaras; Arikara woman threshing corn on the roof of her house.

An appreciation by Clark Wissler, "Indian Corn as a World Food," Amer. Mus. Jour. 18: 25–29, illus. (January 1918); and a review by William Trimble in Miss. Val. Hist. Rev. 4: 531–532 (March 1918).

(396)

(397)

(398)

WISSLER, CLARK.

(402)ABORIGINAL MAIZE CULTURE AS A TYPICAL CULTURE-COMPLEX. Amer. Jour. Sociol. 21: 656-661. March 1916.

Reprinted under the title "Some Permanent Influences of Aboriginal Cultivation" in L. B. Schmidt and E. D. Ross, eds., Readings in the Economic History of American Agriculture (New York, 1925), pp. 49-52. Also reprinted In condensed form in Lit. Digest 52: 1277 (May 6, 1916).

See also Items 2-3, 5-9, 12, 18-20, 23-24, 29-30, 32, 35, 37, 45-47, 49-50, 54-58, 61, $\begin{array}{c} 65, \ 69, \ 74, \ 90-95, \ 101-105, \ 107, \ 109, \ 112, \ 114, \ 131, \ 134, \ 136, \ 151-152, \ 188-190, \ 193, \ 206-207, \ 217-218, \ 224, \ 227, \ 237, \ 240-241, \ 250, \ 254, \ 268, \ 275, \ 277, \ 289-290, \ 296, \ 315, \ 518-519, \ 541, \ 550-551, \ 556-557, \ 571, \ 596, \ 623, \ 630, \ 644, \ 649, \ 672. \end{array}$

COTTON

BAILEY, VERNON.

(403)THE WILD COTTON PLANT (Thurberia thespesioides) IN ARIZONA. Torrey Bot. Club. Bul. 41: 301-306. May 1914.

Description of the wild cotton plant, Thurberia thespesioides, found in Arizona, giving its zonal range and a list of other plants generally associated with it.

CRAWFORD, M. D. C.

(404)THE HEBITAGE OF COTTON, THE FIBRE OF TWO WORLDS AND MANY AGES. 244 pp., illus. New York and London, G. P. Putnam's Sons. 1931.

See especially ch. 4, The New World, pp. 30-45; and ch. 5, Peru, pp. 46-61. Bibliography, pp. 233-237. Ed. 1, 1924.

HANSON, HEBBERT C.

(405)DISTRIBUTION OF ARIZONA WILD COTTON (Thurberia thespesioides). Ariz. Agr. Expt. Sta. Tech. Bul. 3, pp. 49-59, illus. Tucson. 1923.

Introduction, p. 49; description of Arizona wild cotton, pp. 50-51; previous investigations, pp. 51-52; distribution of Thurberia, pp. 52-55; description and distribution of the wild cotton boll weevil, p. 55; map of the southern part of Arlzona showing the known distribution of Arizona wild cotton and the wild cotton boll weevil, pp. 56-57; conclusion, p. 58. Bibliography, p. 59.

HAURY, EMIL W., and CONRAD, CARL M.

THE COMPARISON OF FIBER PROPERTIES OF ARIZONA CLIFF-DWELLER AND HOPI COTTON. Amer. Antiquity 3: 224-227. January 1938.

Prchistoric (fourteenth century) cliff-dweller raw cotton compared with modern Hopi cotton. Commented on under the title "Prchistoric Cotton Analyzed in Bureau's Cotton Laboratory" in [U. S.] B[ur.] A[gr.] E[con.] News 36 (5): 2 (Mar. 1, 1937).

KEARNEY, THOMAS H.

COTTON PLANTS, TAME AND WILD. JOUR. Hered. 21: 195-210. May 1930.

Introduction; domesticated in prehistoric times; the beginnings of European contact with cotton; what cotton plants are like; development and structure of the seed hairs; biological significance of the seed halrs; geographical distribution of Gossypium; classification of the cultivated forms: wild species of Gossypium; origin of the modern commercial cottons; literature cited.

LEWTON, FREDERICK LEWIS.

THE COTTON OF THE HOPI INDIANS: A NEW SPECIES OF gossypium. Smithsn. Inst. Misc. Collect. v. 60, No. 6, 10 pp., illus. 1912. (Pub. No. 2146.)

The antiquity of cotton culture in the Southwest; references to cotton by the first Spanish explorers; evidence of former cultivation by the Hopi Indlans and the Pima Indlans; and the modern uses and cultivation of cotton by the Hopls.

Commented on in an article entitled "An Early Type of Cotton Raised in the United States by the Hopi Indians" in Sci. Amer. 107: 442 (Nov. 23, 1912). See also the article on "Early Cotton of the Hopl Indians" in Llt. Digest 45: 1009 (Nov. 30, 1912).

MCDONALD, R. K.

TEXAS GREW COTTON A THOUSAND YEARS AGO; RECORDS INDICATE THAT THE STAPLE WAS PRODUCED AND WORN BY THE INDIANS BEFORE EUROPEANS CAME OVER. Farm and Ranch 47 (4): 1, 3, 23. Jan. 28, 1928.

(408)

(407)

MCGREGOR, J. C.

(410)PREHISTORIC COTTON FABRICS OF ARIZONA. Museum Notes (Mus. North. Ariz., Flagstaff) 4 (2): 1-4, illus. August 1931.

Bibliography, p. 4. Summary by Katherine Bartlett in Social Sci. Abs. 4:16001 (October 1932).

REAGAN, ALBERT B.

(411)ANCIENT COTTON OF THE SOUTHWEST. South. Workman 56: 426-429. September 1927.

VAILLANT, GEORGE C.

AN EARLY OCCURRENCE OF COTTON IN MEXICO. Amer. Anthrop. 41: 170. January-March 1939.

WATT, SIR GEORGE.

(413)THE WILD AND CULTIVATED COTTON PLANTS OF THE WORLD; A REVISION OF THE GENUS gossypium, FRAMED PRIMARILY WITH THE OBJECT OF AIDING PLANTERS AND INVESTIGATORS WHO MAY CONTEMPLATE THE SYSTEMATIC IMPROVEMENT OF THE COTTON STAPLE. 406 pp., illus. London, etc. Longmans, Green & Co. 1907.

Discovery of cotton in America, pp. 17–18; species, races, etc., of cotton in America, pp. 65, 70, 73, 98, 100–101, 117–118, 123–124, 156–157, 160, 162, 165, 167, 169–170, 181, 183, 194–196, 201, 204–211, 214–215, 217–219, 224, 226–239, 241, 252, 254, 256, 259–265, 268, 272, 275–290, 296, 302–310; indigenous cotton in America, pp. 17–18, 169–172, 182, 192, 204–206, 208, 210, 257, 267, 324.

ZAITZEV, G. S.

(414)A CONTRIBUTION TO THE CLASSIFICATION OF THE GENUS gossypium 1. Trudy Prikl. Bot., Genet., i Selek. (Bul. Appl. Bot., Genet., and Plant Breeding) 18 (1): 1-65, illus., map. Leningrad. 1927.

The diversity of cotton forms, their geographical distribution, and their phylogenetic relations. Russian text, pp. 1-38. English text, pp. 39-65.

See also items 5, 9, 20, 22, 24, 37, 49, 90, 134, 143, 148, 151, 162, 177, 268, 270, 286, 292, 294, 516-517.

ALLEN, GLOVER M.

DOGS

DOGS OF THE AMERICAN ABORIGINES. Harvard Univ., Mus. Compar. Zool. Bul. 63 (9): 431-517, illus. Cambridge, Mass. 1920.

The information recorded by the early travelers on the appearance of the dogs of the American aborigines and the characteristics of the various breeds that can be distinguished considered under the following subheads: Origin of the domestic dog; origin of American dogs; breeds of American aboriginal dogs; summary. The bibliography, pp. 504-517, gives "the more important papers on the origin of the dog, and on prehistoric dogs of the New World, as well as references to the aboriginal dogs of America."

CABRERA, ÁNGEL.

LOS PERROS DOMÉSTICOS DE LOS INDÍGENAS DEL TERRITORIO ARGENTINO. 25th Internatl. Cong. Americanists, La Plata, Proc. (1932) 1: 81-93, illus. Buenos Aires. 1934.

ROE, F. G.

(417)FROM DOGS TO HORSES AMONG THE WESTERN INDIAN TRIBES. Roy. Soc. Canada, Trans. (ser. 3) 33 (2): 209-275. May 1939.

Extensive bibliographical footnotes.

See also items 12, 20-21, 24, 134, 156, 428, 742.

HORSES

CARDOSO, ANÌBAL

(418)BREVES NOTICIAS Y TRADICIONES SOBRE EL ORIGEN DE LA "BOLEADORA" Y DEL CABALLO EN LA REPUBLICA ARGENTINA. Buenos Aires Mus. Nac. de Hist. Nat. An. 28:153-181. 1916.

DENHARDT, ROBERT M.

(419)SPANISH HORSES AND THE NEW WORLD. Historian 1: 5-23. Winter 1938.

(420)THE INDIAN ACQUIRES THE HORSE. West. Horseman 2 (6): 13, 24. November-December 1937.

(415)

(416)

(412)

DOBRIZHOFFER, MABTIN.

AN ACCOUNT OF THE ABIPONES, AN EQUESTRIAN PEOPLE OF PARAGUAY. 3 v. London, J. Murray. 1822.

Account of the South American horse complex. Translated from the Latin by Sara Coleridge.

GRINNELL, GEORGE BIRD.

WILD HORSES AND THE INDIANS. Forest and Stream 71: 209-210, 248-249, 290-291. Aug. 8, 15, 22, 1908.

HAINES, FRANCIS.

THE NORTHWARD SPREAD OF HORSES AMONG THE PLAINS INDIANS. Amer. Anthrop. 40: 429-437, map. July-September 1938.

Bibliography, pp. 436-437.

WHERE DID THE PLAINS INDIANS GET THEIR HORSES? Amer. Anthrop. 40: 112-117. January-March 1938.

Contends that Indians acquired horses from the settlement at Santa Fe rather than from strays of Coronado's and DeSoto's expeditions. See item 426.

STONE, ARTHUR L.

THE ABORIGINAL HORSETRADER. Red Man 7: 19-24. September 1914. The horses raised by the Indians on the rich hluejoint grass of the western Montana valleys.

SWANTON, JOHN R.

THE SURVIVAL OF HORSES BROUGHT TO NORTH AMERICA BY DE SOTO. Amer. Anthrop. 41: 170-171. January-March 1939.

Evidence in substantiation of the view in item 424 that the Indians did not acquire horses from the De Soto expedition.

TURNEY-HIGH, HARRY.

THE DIFFUSION OF THE HORSE TO THE FLATHEADS. Man 35: 183-185. December 1935.

A tradition of the Fiatheads, interior Saiish, regarding the capture of their first horses in the middle of the eighteenth century.

WILSON, GILBERT LIVINOSTONE.

THE HORSE AND THE DOG IN HIDATSA CULTURE. Amer. Mus. Nat. Hist. Anthrop. Papers 15 (2): 125-311, iiius. New York. 1924.

During the period 1908–18, the author spent from 1 to 2 months of each year among the Hidatsa Indians, collecting for the Museum and gathering information as to their culture. This study contains only the portion of his data hearing upon, or associated with, the dog and horse culture complexes of the tribe.

The section on Horse Culture, pp. 141–196, considers the subject under the following subheadings: Origin; ideas concerning horses; the coit; castration; stailions; training; summer pasturing and herding; winter care of horses; care of horses on the warpath; protecting pack horses from magples; horsegear; names for horses.

The section on Dog Cuiture, pp. 196-228, under the following subheadings: Origin; the puppy; castration; feeding; kennels; the village dogs; dogs as property; gathering wood; collecting wood from the river; fetching firewood and game by buil-boat; training a dog; names and descriptions of dogs; children ride on a dog travois; making a dog travois; dog travois shelter tent.

(429)

(421)

(422)

(423)

(424)

(425)

(426)

(427)

(428)

THE INDIAN AND HIS HORSE. Farmer 37: 8, 19, 68, 72, 118, 174, 189, 240, 256. Jan. 4, 11, 18, 25, Feb. 1, 1919.

A series of tales on the origin, breeding, care, and training of horses among the Indians in the early days, told by Tseca-matseitcic, or Wolf Chief, to Gilbert L. Wilson, arranged under the following headings: 1. The birth of a colt; 2, training a colt; 3, tending the herd and making of bridies; 4, caring for the herd in the winter camp; 5, use of horses in warfare.

WISSLEB, CLARK.

AMERICAN INDIAN SADDLES, BORROWED, TOGETHER WITH OTHER FEATURES OF HORSE CULTURE FROM THE SPANISH COLONIZATION, IN THE FIRST HALF OF THE SIXTEENTH CENTURY. Amer. Mus. Jour. 16 (8) : 496-499, illus. December 1916.

"Wrapped up in their histories is the whole story of bringing the horse to the New World and in part his domestication in the Old." The illustrations show a Shoshone Indian saddle, a saddle being made in an Indian camp, and an Indian travois, a primitive vehicle consisting of two trailing poles hearing a net or cross har for a load.

(431)THE DIFFUSION OF HORSE CULTURE AMONG THE NORTH AMERICAN INDIANS. Natl. Acad. Sci. Proc. 1: 254-256. April 1915.

(432)

THE INDIAN AND THE HORSE. Amer. Indian Mag. 7 (4): 20-26, illus. August 1920.

The origin of the horse ln America and the manner ln which the wild herds bred from the horses of Coronado and De Soto were utilized hy the Indlans.

The illustrations show the following: Old Spanish hits found among the Navajo and the Crow; a woman's saddle used hy the Blackfoot; a headed saddle cloth of huffalo hide from the Teton-Dakota; a man's saddle from the Crow Indians; a finely carved saddle of wood used hy the Menomini Indians; Crow indians; a mery carved saddle of wood used by the Mellolinin Indians, Plains Indians in camp, showing a saddle in the making in the foreground, and horses and huffalo in the distance, from a painting hy George Catlin in 1833, the original being in the Mills Collection; a pad saddle used by the Dakota Indians; a woman's saddle from the Wind River Shoshone; a Thompson Indian saddle from British Columbia; a saddle frame; a crupper Thompson Indian saddle from British Columbia; a saddle frame; a crupper for a woman's saddle; a drawing, "Moving Camp hefore the Day of the Horse," by F. N. Wilson; a sketch of a Spanish mount from a drawing by an Aztec In the time of Cortez; drawings showing how the Indian made his stirrup after the old Spanish model.

(433)

(437)

(438)

THE INFLUENCE OF THE HORSE IN THE DEVELOPMENT OF PLAINS CULTURE. Amer. Anthrop. 16:1-25. January-March 1914.

The material of this article is reprinted in Alfred Louis Kroeher and Thomas Talhot Waterman, eds., Source Book on Anthropology, pp. 252-259 (Calif. Univ. Syllabus Ser., No. 118, Berkeley, Univ. Calif. Press, 1920).

See also Items 5, 24, 134, 226, 232, 417, 742,

MAPLE SUGAR

CHAMBERLAIN, A. F. (434)THE MAPLE AMONOST THE ALGONKIAN TRIBES. Amer. Anthrop. 4: 39-43. January 1891.

(435)MAPLE SUGAR AND THE INDIANS. Amer. Anthrop. 4: 381-383. Octoher 1891. HENSHAW, H. W.

(436)INDIAN OBIOIN OF MAPLE SUCAR. Amer. Anthrop. 3: 341-351, Illus. Octoher 1890.

WOJTA, J. F.

A VISIT TO THE INDIAN SUCAR-BUSH CEREMONIALS. Wis. Archeol. 11: 172-175. July 1932.

Ceremonials; the appointed day; the feast; change of drums; dancing; sugaring; customs of Indlan tribes.

See also items 12, 24, 58, 217, 224, 322, 601, 674.

POTATOES

ANONYMOUS.

NEW FIELD FOR THE OLD POTATO. N. Y. Herald Tribune, July 22, 1934. Editorial on the work of Russian scientists in developing a potato for Arctic Slheria and on their deht to the Indians of the western Andes.

(430)

58 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

BALLIVIÁN, MANUEL VICENTE, and CEUALLOS-TOVAR, WALTER. (439)

NOTICIA HISTÓRICA Y CLASIFICACIÓN DE LA PAPA DE BOLIVIA. 22 pp., illus. La Paz, Bolivia. 1914.

Historical and descriptive account of the cultivation, manner of growth, habitat, uses and varieties of the potato. Reviewed under the title, "Geographical Features of Potato Production in Bolivia," in Geog. Rev. 4: 318 (October 1917).

FUESZ, WILHELM.

(440)

WER HAT DIE KARTOFFEL NACH EUROPA OEBRACHT DIE EINFUHRUNG DER KARTOFFEL IN EUROPA. Geschl. f. Gesch. u. Lit. der Landw. Jahrb. (Göttingen) 37 (4): 1938. 49-55, illus.

JUZEPCZUK, S. W., and BUKASOV, S. M.

A CONTRIBUTION TO THE QUESTION OF THE ORIGIN OF THE POTATO. U. S. S. R. Cong. Genet. Plant and Animal Breeding Proc. 3: 593-611. Leningrad. 1929.

Russian text, pp. 593-610; bibliography, p. 610; English summary, pp. 610-611. The potato originated in two centers: the Peru-Bolivian plateau and southern Chile.

LAUFER. BERTHOLD.

THE AMERICAN PLANT MIGRATION; PT. 1, THE POTATO. 132 pp., illus. Chicago, 1938. (Field Mus. Nat. Hist., Chicago, Pub. 418, Anthrop. Ser., v. 28, no. 1.)

Introduction, pp. 9–11; botanical origin of the potato, pp. 12–18; early history of the potato in South America, pp. 19–26; the potato in the West Indies, p. 27; introduction of the potato into North America, pp. 28–39; the potato in Spain, Italy, and Central Europe, pp. 40–45; the potato in Great Britain, pp. 46–58; the potato in France, pp. 59–65; the potato; Germany, Scandinavia, and eastern Europe, pp. 66–68; the potato in Central Asia and Siberia pp. 84–87; the potato in Persia the Near Fast and the Caucasus Siberia, pp. 84-87; the potato in Persia, the Ncar East, and the Caucasus, p. 88; the potato in Africa, p. 89; the potato in India, Burma, Siam (Thaipp. 95-101; Bibliography, pp. 112-125. The illustrations show: Distributions of potato varieties cultivated by the

South American Indians; potato-form vessels from Chimbato, Peru; woodengraving of potato plant and tubers; potato plant showing branch with blossoms and tubers; John Gerard holding spray of potato piant; sketch of potato plant.

Review in Geog. Rev. 29: 335-336 (April 1939).

LAWSON, ALEXANDER, and MOON, H. P.

CLAY ADJUNCT TO POTATO DIETARY. Nature 141: 40. Jan. 1, 1938.

The Quechua Indians on the Capachica Peninsula near Puno dip potatoes in an aqueous suspension of clay, consisting of kaolin and possibly coumarin, before cating.

LA PAPA EN EL PERÚ PRIMITIVO. Soc. Geog. de Lima Bol. 11: 316-324. July-December 1902.

Bibliographical footnotes.

RYBIN, V. A.

(445)KARYOLOGICAL INVESTIGATIONS ON SOME WILD GROWING AND INDIGENOUS CULTI-VATED POTATOES OF AMERICA. Trudy Prikl. Bot., Genet., i Selek. (Bul. Appl. Bot., Genet., and Plant Breeding) 20: 655-720, illus. Leningrad. 1929.

Introduction; Literary data concerning the cytology of the potato; results of cytological investigation of wild-growing potatoes; results of cytological investigation of American local cultivated potatoes. Russian text, pp. 655-710; English text, pp. 711-720. Technical; no conclusion as to origin. Also in U. S. S. R. Cong. Gcnet. Plant and Animal Breeding Proc. (1929) 3: 467-477, with English summary, pp. 476-477.

(444)

(441)

(442)

(443)

PATRÓN, PABLO.

SAFFORD, WILLIAM EDWIN.

THE POTATO OF ROMANCE AND OF REALITY. JOUR. Hered. 16: 112-126, 174-185, 217-230, illus. April-June 1925.

The potato of romance; testimony from prehistoric tombs; true history of the potato; potatoes cultivated by the Indians of southern Chile; introduction of the potato into culture; the potato ln Prussia and France; the potato in North America; search for the wild form; summary.

The 31 illustrations show: Sir Walter Raleigh, legendary introducer of the potato into Europe, depicted In the act of giving the potato to the Irish; John Gerard holding in his hand a flowering branch of Solanum Irish; John Gerard holding in his hand a howering branch of Socarum tuberosum, which he called Battata Virginiana sive Virginianorium & Pappas, pretending to have received from Virginia the tuber from which it was propagated, he being responsible for the transfer of the name "potato" from Ipomoea batatas to Solanum tuberosum and for the con-fusion of the latter with the Apenauk of Virginia; the original potato, now called the sweetpotato; the first published illustration of Solanum tuberosum from John Gerard's Herbal (1597); the Virginia potato or Apenauk; Apenauk roots or Indian potatoes; Moray or "white chunyo"; ancient foods found with Peruvian mummies; potato vascs; Indians drying ancient foods found with return munimies, potato vases, indinis drying potatoes for "chunyo"; oldest drawings of the potato—drawing received by Charles de L'Ecluse from Philippe de Sivry, January 26, 1588, original in Plantin-Moretus Museum at Antwerp; the Great Elector, Frederick William, with his consort, inspecting potatoes planted by his order in the Berlin Lustgarten; Frederick the Great visiting a potato field planted in obedience to his decree; four scenes portraying the measures taken by Parmentier to Introducc potato culture into France.

Reprinted in slightly abridged form in Smithsn. Inst. Ann. Rept. 1925; 509-532.

SALAMAN, REDCLIFFE N.

(447)THE POTATO IN ITS EARLY HOME AND ITS INTRODUCTION INTO EUROPE. Roy. Hort. Soc. Jour. 62: 61-77, 112-123, 153-162, 253-266, illus., map. February, March, April, June 1937.

Detailed account, based mainly on pottery remains for the early history and a careful examination of ail records for the introduction into Europe. Excellent illustrations. The author believes that a "potato religion" existed among the Indians.

Summary of the study under the title "'Potato Spirit' Believed Ancient Indian God," Sci. News Letter 35: 151, 159, ilius. (Mar. 11, 1939). Review in Geog. Rev. 29: 335-336 (April 1939). Detailed criticism by S. Linné under the title "Potato Problems; The Potato in Ancient and Present Times In America, and Its Introduction into Europe" in Nature 143: 12-16, illus. (Jan. 7, 1939).

SWANTON, JOHN R.

(448)NOTE ON THE ABORIOINAL NAME "AJE." Wash. Acad. Sci. Jour. 6: 136-137. Mar. 19, 1916.

The name "age" or "aje" was applied to all kinds of potatoes by various Indian tribes.

TAYLOR, NORMAN.

тне ротато. Amer. Mercury 28: 347-351. March 1933.

The article shows that "from the plunder of Peru came the first potato" and that "neither Sir Walter Raleigh in 1586 nor Sir Francis Drake in 1580 brought the potato from Virginia to England or Ireland, for it did not grow In Virginia at that time."

See also items 18, 20, 74, 90, 101-103, 105, 107, 112, 136, 147-148, 151-152, 173, 517, 630, 701.

CHEVALIER, AUOUSTE.

TOBACCO

(450)

(449)

LES ORIGINES DU TABAC ET LES DÉBUTS DE SA CULTURE DANS LE MONDE. 21 pp. Paris Éditions de la Revue Internationale des tabacs. 1927.

Découverte du tabac; le tabac au point de vue botanique; classification et hybridation; la culture et l'usage du tabac chez les Indiens; les débuts de la culture européenne en Amerique; mode de culture et de préparation du tabac aux Antilles au XVII^e siècle; les débuts du tabac en Océanie; les débuts de la culture en Asie; l'orlgine du tabac en Afrique; introduction du tabac en Europe et spécialement en France; conclusions; bibliographie.

200256-41-5

(446)

DALE, GEORGE IRVING.

THE EARLIEST KNOWN MENTION OF TOBACCO AND ITS USE. Hispanla 8: 134-135. March 1925.

An extract from Gonzalo Fernández de Oviedo y Valdés, La Historia General y Natural de las Indias (Seville, 1535), which is the earliest known account of the use of tobacco. The brief introductory statement Is based on an account of the book in the Mo. Bot. Gard. Bul., Decemher 1924.

DAM, CORNELIA H. (452)TOBACCO CHEWINO ON THE NORTHWEST COAST. Amer. Anthrop. 35: 146-150.

DIXON, ROLAND B.

TOBACCO CHEWING ON THE NORTHWEST COAST. Amer. Anthrop. 35: 146-150. January-March 1933.

The alleged chewing of tobacco with lime by the Haida and Tingit of northern British Columbla has been used by diffusionists as evidence of trans-Pacific culture contact. Investigation throws doubt on the fact; the plant was probably not a tobacco at all, though its identification remains obscure.

WORDS FOR TOBACCO IN AMERICAN INDIAN LANGUAGES. Amer. Anthrop. 23: 19-49. January-March 1921.

DOUOLAS, FREDERIC H.

(455)

(457)

(458)

(459)

(460)

(461)

(454)

(453)

(451)

AMERICAN INDIAN TOBACCO; VARIETIES, CULTIVATION, METHODS OF USE. Denver Art Mus. Dept. Indian Art Leafiet 22. 4 pp., map. Denver. April 1931.

DUSTIN, FRED.

(456)

INDIAN PIPES COLLECTED IN SAGINAW COUNTY, MICHIGAN. Mich. Acad. Sci., Arts, and Letters Papers (1930) 14: 35-46, illus. Ann Arbor. 1931.

ERNST, A.

ON THE ETYMOLOGY OF THE WORD TOBACCO. Amer. Anthrop. 2: 133-141. April 1889.

"The development, with some necessary corrections, of a note . . . sent to the International Congress of Anthropology, held at New York In the month of June 1888."

GILMORE, MELVIN RANDOLPH.

ARIKARA ACCOUNT OF THE ORIGIN OF TOBACCO AND CATCHING OF EAOLES. Indian Notes 6: 26-33. January 1929.

SOME COMMENTS ON "ABORIGINAL TOBACCOS," Amer. Anthrop. 24: 480-481. October-December 1922.

A commentary on item 471.

GRIMES, KATHARINE ATHERTON.

THE STORY OF TOBACCO. South. Agr. 61 (9): 7, 35; (10): 12, 21; (11): 16-17, ilius. September, October, November 1931.

Pt. 1, The Indian's Smoke of Incense; Pt. 2, A Pagan Becomes Civillzed; Pt. 3, The Indian Weed Goes to Market.

Pictures, accompaying the first installment, show the following: Pipe-head from Ohlo mound; steatite pipe from Georgia; town of Secoton, N. C., drawn by John White, Roanoke Island, 1586, with a tobacco field at the left just below the center; elephant plpe, Iowa; Toucan plpe of the Mound Builders; deerskin tobacco pouch of the Pima trlbe.

HARRINGTON, JOHN PEABODY.

TOBACCO AMONO THE KARUK INDIANS OF CALIFORNIA. U. S. BUR. Amer. Ethnol. Bul. 94. 284 pp., illus. 1931.

Karuk and English text. Bibliography, pp. 14-34. Commented on in an article entitled "Cultivation and Use of Tobacco by Tribe of Nonagri-cultural Indians Is Described," in U. S. Dally 7 (113): 2 (July 15, 1932).

HILL-TOUT, CHARLES.

(462)THE "MOSES COULEE" PIPE. Roy. Soc. Canada, Trans. (ser. 3) 29 (2): 219-224, Illus. 1935.

Description of a pipe from a cave in Moses Coulee of the Columbia River region of Washington.

LAUFER, BERTHOLD.

(463)INTRODUCTION OF TOBACCO INTO EUROPE. Field Mus. Nat. Hist., Chicago, Anthrop. Leaflet 19, 66 pp. Chicago. 1924.

Introduction and early cultivation of tobacco in England, pp. 3-21; the great tobacco controversy in England, pp. 22-33; use of tobacco in England, pp. 33-48; tobacco in France, Portugal, Spain, and Italy, pp. 48-57; tobacco in central and northern Europe, pp. 57-58; tobacco in Russia and Turkey, pp. 59-65.

LINTON, RALPH.

USE OF TOBACCO AMONG NORTH AMERICAN INDIANS. Field Mus. Nat. Hist., Chicago, Anthrop. Leaflet 15, 27 pp., illus. Chicago. 1924.

The illustrations show the different types of American Indian tobacco pipes. Bibliographical references, p. 27.

LOWIE, ROBERT H.

(465)THE TOBACCO SOCIETY OF THE CROW INDIANS. Amer. Mus. Nat. Hist. Anthrop. Papers 21 (2): 101-200, illus. New York. 1919.

"On my first visit to the Crow in 1907 I began to take notes on the Tobacco society and in the course of subsequent visits succeeded in accumulating considerable material on the subject. The greater portion of this information was secured at Lodge Grass, Montana; however, a fair amount of check data was obtained in other districts of the Reservation. Continued investigation would surely have added to my knowledge of detail, but it seems that the information here presented suffices to afford an understanding of the essential principles underlying the organization.'

MACLEOD, W. C.

THE CHEWINO OF TOBACCO IN SOUTHEASTERN NORTH AMERICA. Amer. Anthrop. 32: 574-575. July-September 1930.

MASON, J. ALDEN.

USE OF TOBACCO IN MEXICO AND SOUTH AMERICA. Field Mus. Nat. Hist., Chicago, Anthrop. Leaflet 16, 15 pp., ilius. Chicago. 1924.

The use of tobacco in the pre-Columbian and later days by the aboriginal tribes of Mexico and South America. The six illustrations show tobacco pipes.

MCGUIRE, JOSEPH DEAKINS.

PIPES AND SMOKINO CUSTOMS OF THE AMERICAN ABORIOINES, BASED ON MATERIAL IN THE U. S. NATIONAL MUSEUM. U. S. Natl. Mus. Rpt., 1897, pt. 1, pp. 351-645, illus. 1899.

MORICE, A. G.

SMOKINO AND TOBACCO AMONG THE NORTHERN DENÉS. Amer. Anthrop. 23: 482-488. October-December 1921.

Strong grounds for helieving that the use of tohacco was unknown to the northern tribes of Canada before the advent of the whites.

PHILHOWER, CHARLES A.

INDIAN PIPES AND THE USE OF TOBACCO IN NEW JERSEY. N. J. Archaeoi. Soc. Leaflet 3, 17 pp., illus. Westfield, N. J. 1934.

SETCHELL, WILLIAM ALBERT.

ABORIGINAL TOBACCOS. Amer. Anthrop. 23: 397-414, map. October-Dccember 1921.

The different species and their distribution in aboriginal America. Commented on in item 459.

SHETRONE, HENRY CLYDE.

NICOTIANA: AN ETHNOLOOIC, HISTOBIC AND LITERARY NOVELTY. Ohio State Archaeoi. and Hist. Quart. 46: 81-102, illus. January 1937.

Introduction, pp. 82-83; the botany of tobacco, pp. 83-84; tobacco and the American Indlan, pp. 84-86; tobacco goes abroad, pp. 86-89; tobacco and the colonists, pp. 89-90; tobacco commercially considered, pp. 90-91; various forms of use, pp. 92-96; tobacco and health, pp. 96-98; prehistoric use of tobacco, pp. 98-100; tobacco in ilterature, pp. 100-102.

SIMMS, S. C.

CULTIVATION OF "MEDICINE TOBACCO" BY THE CROWS-A PRELIMINARY PAPER. Amer. Anthrop. 6: 331-335. April-June 1904.

Aithough announced as a preliminary report it has remained without a sequel.

(466)(467)

(464)

(469)

(470)

(471)

(472)

(473)

(468)

SINGER, CHARLES.

THE EARLY HISTORY OF TOBACCO. Quart. Rev. 219: 125-142. July 1913.

Columbus' first sight of the plant, pp. 125-127; the Indians' habit of smoking, pp. 128-130; Jacques Cartier, p. 130; André Thenet, p. 131; his "Singularitez de la France Antarctique," pp. 131-135; process of "curing" and "fermentation," p. 134; introduction into France and Italy, p. 135; medicinal properties of the herb, pp. 136, 141; works on, pp. 137-139; narcotic properties, p. 139; Introduction into England, p. 140; use as a disinfectant. p. 141; amongst native races, p. 142.

SKINNER, ALANSON.

(475)A SENECA ANTIQUE TOBACCO PIPE. Indian Notes 2: 231-232, illus. July 1925. (476)

SOME SENECA TOBACCO CUSTOMS. Indian Notes 2: 127-130. April 1925. STAHL GÜNTHER.

ZIOARRE; WORT UND SACHE. Ztschr. f. Ethnol. (1930) 62: 45-111, illus.

Einleitung: Abschnitt, Tabakrauchrollen im vorkolumbischen Amerika: Abschnitt. Einführung der Rauchrolle in Europa; Abschnitt, Herkunft und Ableitungen des Wortes Zigarre; Abschnitt, Einführung des Wortes Zigarre für die Rauchrolle Anhang : Anfänge der Zigarrenfabrikation in Deutschland. Schluss. Abbildungsverzeichnis. Literaturverzeichnis.

Summary by Herbert Baldus in Social Sci. Abs. 4: 116 (January 1932). WEST. GEORGE A. (478)

TOBACCO, PIPES AND SMOKINO CUSTOMS OF THE AMERICAN INDIANS. 994 pp., lilus., maps. Milwaukee, Wis., The Trustees. 1934. (Milwaukee Pub. Mus. Bul. 17, 2 pts.)

Foreword, pp. 21-23; Acknowledgments, pp. 25-28; Introduction (discovery of tobacco; the name "tobacco"; Indian names for tobacco; introduction of tobacco into Europe), pp. 29-35; The Conquest of Tobacco (Europe; Russia; Turkey and the onward march of tobacco), pp. 37-46; Use of Tobacco by the American Indians as a Medicine, pp. 47-51; Cultivation and Use of Tobacco by the American Indians (species of tobacco used or cultivated by the Indians in America; offerings of tobacco in a dry state; smoke offerings and other uses of tobacco; snuff; tobacco chewing among the American Indians; tobacco chewing among the Eskimo), pp. 53-103; Blends and Substitutes for Tobacco, pp. 105–116; Aboriginal Trade Routes, pp. 117–120; Present Produc-tion and Disposition of Tobacco in the United States, pp. 121–122; Myths Relating to Tobacco, pp. 123–124; General Pipe Areas, pp. 125–126; Ciassifica-tion of Aboriginal Smoking Pipes, pp. 127–303; Modern Pipes and Smoking Customs, pp. 305–328; Aboriginal Pipe Materials, pp. 329–331; Methods of Manufacture of Aborlginal Pipes, pp. 333-352; Myths-Tobacco Pipe, pp. 353-354; Distribution of Aboriginal Pipes, pp. 355-378; Summary, pp. 379-388; Conclusion, pp. 389-390; Bibliography, pp. 391-409; Finding List for Pipes by Localities where Found or Collected, pp. 453-466; Finding List for Pipes by Collections and Collectors, pp. 467-477. Reviews by Frances Densmore in Minn. Hist. 15: 453-454 (December

1934); and T. F. McIlwraith in Canad. Hist. Rev. 19: 84-85 (March 1938).

(479)USES OF TOBACCO AND THE CALUMET BY WISCONSIN INDIANS. Wis. Archeol. 10: 5-64, Illus. March-June 1911.

Bibliographical footnotes and four illustrations.

WIENER, LEO.

THE PHILOLOGICAL HISTORY OF "TOBACCO" IN AMERICA. 21st Internatl. Cong. Americanists, Göteborg, Proc. 1924: 305-314, maps. 1925.

See also items 3, 5-7, 9, 12, 18, 20, 22-26, 47, 49, 65, 74, 90-95, 101-103, 105, 112 134, 190, 224, 227, 237, 246, 250, 322, 555, 557, 655, 742, 748, 823,

WILDRICE

ANONYMOUS.

HOW THE INDIANS HARVEST WILD RICE. Sci. Amer. 108 (16): 365. (481)Apr. 19 1913.

Brief statement based on a report from the American consul at Kingston, Ont., devoted to an account of the wildrice (Zizania aquatica), along the shores of Rice Lake, a few miles north of Cobourg.

(474)

(477)

ANONYMOUS.

OUR COVER PICTURE. Farmer 50 (18): 20. Sept. 17, 1932.

How the Indians of Minnesota and Wisconsin harvest wildrice.

ALBES. EDWARD.

(483) RICE IN THE AMERICAS. Pan Amer. Union Bul. 44: 137-160. illus. February 1917.

Note especially pp. 139-143 on the wildrice (Zizania aquatica), indig-enous to North America, and an important item in the domestic economy of various Indian tribes. Illustrations showing wildrice tied in bunches or sheaves, a drying rack used to cure the grain after its collection from the fields, and a stave-lined threshing hole for treading out grain.

BROWN, EDGAR, and SCOFIELD, CARL S.

(484)WILD RICE: ITS USES AND PROPAGATION. U. S. Dept. Agr. Bur. Plant Indus. Bul. 50. 24 pp., illus. 1903.

See especially: Introduction; distribution and habitat of the plant; llfe history and natural propagation; botanical description; varieties; diseases; harvesting the seed; preparation of the seed for food purposes; the food value of rice. Part of this article is reprinted with the same title In Sci. Amer. Sup. 56: 23268-23269 (Oct. 31, 1903).

CARLSON, E. J.

(485)

INDIAN RICE CAMPS WHITE EARTH RESERVATION. Indians at Work 2 (7): 16-23, illus. Nov. 15, 1934.

The Indian rice camps of the White Earth Reservation are described. The article is of value chiefly for lts descriptions of the processes of gathering, parching, hulling, and winnowing the rice, and for the accompanying pictures of these operations.

CATES, J. SIDNEY.

THE HIGHEST PRICED CEREAL; EPICURES SAY WILD RICE IS THE ONLY THING TO EAT WITH ALL SORTS OF GAME. Country Gent. 89 (38): 10, 29. Sept. 20, 1924.

HOUGH, DONALD.

AN ANCIENT HARVEST IN OUR OWN NORTHWEST. Travel 43 (2): 24-26, 48, illus. June 1924.

The wild rice of the Minnesota lakes; the Chippewas as a link with America's past; and primitive methods in gathering the Indian's winter food. The illustrations show a Chippewa Indian boy poling a boat through a rice slough while an old squaw bends the long stalks over the gunwales and beats the kernels into the boat with two short sticks; a camp of the rice harvesters; one of the grass granaries constructed to shelter the bags of grain kept for winter use; groups of Indians threshing wild rice; an old squaw winnowing the rice to remove chaff.

HUBER, ALBERT.

WILD RICE HARVEST. Indians at Work 4: 17-19, illus. Oct. 1, 1936.

Modern methods of harvesting and sale through the Chippewa Indlan Cooperative Marketing Association in Minnesota.

JENKS. ALBERT ERNEST.

(489)

(488)

THE WILD RICE GATHERERS OF THE UPPER LAKES; A STUDY IN AMERICAN PRIMI-TIVE ECONOMICS. U. S. BUR. Amer. Ethnol. Ann. Rpt. (1897-98) 19 (2): 1013-1137., illus., maps. 1900.

1, Botany; 2, Habitat (introduction; habitat according to States; habitat in the wild-rice district; foreign habitat); 3, Indians; 4, Production (in-troduction; sowing and other early care; tying; curing and drying; thresh-ing; winnowing; storing; property right in wild rice; amounts of wild rice harvested); 5, Consumption (nutrition; ways of preparing wild rice for food; provide of consumption); 6, Consult Social food; periods of consumption); 6, General Social and Economic Interpretations (the wild rice moon; wild rice in ceremonials and in mythology as found in Indian traditions; dependence of the Indian on wild rice; dependence of the white man on wild rice; Indian population of the wild-rice district); 7, Influence of Wild Rice on Geographic Nomenclature; Bibliography, pp. 1126-1133.

(482)

(486)

(487)

64 MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

JENKS, ALBERT ERNEST-Continued.

The noteworthy illustrations show the following: Wildrice bed in Lac Courte Oreille River; a narrow bed of wildrice tied in bunches or sheaves; sickle-shaped sticks used to draw the stalks within reach for tying; wildrice field after the harvest; drying rack for grain; a section of a drying rack; a stave-lined threshing hole for treading out the grain; wildrice kernels before threshing; threshing wildrice by means of a churndasherilke stick; Indian woman winnowing wildrice; wildricc kernels after threshing and winnowing; birchbark mococks in which the grain is carried; birchbark winnowing tray.

Also issued separately, Washington, 1901, as thesis (Ph. D), University of Wisconsin. Review by Aicxander F. Chamberiain in Rev. Hist. Pubs. Reiating to Canada 7: 180-181.

JENNESS, DIAMOND.

WILD RICE. Canad. Geog. Jour. 2: 477-482, llius. June 1931.

Photographs of the wild rice gathering, its drying, its threshing, and its winnowing. Summary by Lawrence J. Burpee in Social Sci. Abs. 3: 14915 (October 1931).

LLOYD,	TREVOR.

(491)WILD RICE IN CANADA. Canad. Geog. Jour. 19: 289-299, illus. November 1939.

The activities of the Chippewas at Lac du Bois near Winnipeg receive special attention. The illustrations show steps in the rice harvest.

READAN, ALBERT B.

WILD OR INDIAN RICE. Ind. Acad. Sci. Proc. 1919: 241-242.

Observations of the author at Nett Lake, Minn., where he had charge of the Bois Fort Indian Reservation as superintendent and special disbursing agent from 1909 to 1914.

RIEMER, CHARLOTTE.

WILD RICE. Nat. Mag. 15: 198-199. March 1930.

A legend concerning the discovery of the food value of wildrice.

STICKNEY, GARDNER P.

(494)INDIAN USE OF WILD RICE. Amer. Anthrop. 9: 115-122, illus. April 1896. TITUS, WILLARD H. (495)

ANONYMOUS.

OBSERVATIONS ON THE MENOMINEE INDIANS. Wis. Mag. Hist. 14: 93-105, 121-132. September, December 1930. Gathering wild rice, p. 131.

See also items 3, 5, 9, 12, 83, 91, 103, 224, 322, 545, 601, 659, 672.

WILD TURKEYS

(496)TURKEYS ARE NATIVE AMERICANS. El Palacio (Santa Fe) 23: 576, 1927. SCOTT, JAMES E. (497)

WHAT WE OWE THE WILD TURKEY. Amer. Forests and Forest Llfe 30: 661-662, ilius. November 1924.

WRIGHT, ALBERT HAZEN.

(498)EARLY RECORDS FOR THE WILD TURKEY. Auk 31: 334-358, 463-473; 32: 61-81, 207-224, 348-366. July 1914-July 1915.

Synopsis of references to the wild turkcy in literature from the earliest times to about 1870.

ZIMMER, JOHN T.

(499)THE WILD TURKEY. Field Mus. Nat. Hist., Chicago, Zool. Leaflet 6. 15 pp., llius. Chicago. 1924.

See also items 112, 250.

AGRICULTURE ON INDIAN RESERVATIONS IN THE UNITED STATES

ANONYMOUS.

INDIAN AORICULTURAL FAIRS. Red Man 8 (4). December 1915.

The entire number is devoted to the subject indicated by the title.

(500)

(493)

(490)

(492)

65

BIBLIOGRAPHY ON THE AGRICULTURE OF THE AMERICAN INDIANS ANONYMOUS. (501)INDIAN ALLOTTEE ACQUIRES FULL EQUITABLE ESTATE. Mich. Law Rev. 19: 222-223. December 1920. (502)INDIAN COOPERATIVES. Christlan Sci. Monit. Mag. May 25, 1938, p. 15. Indian cooperatives encouraged by Indian Reorganization Act. (503)INDIAN TAIRS. Outlook 111: 591-592. Nov. 10, 1915. Indian falrs as related to the progress that modern Indians are making in agriculture. The first Indian fair was held on the Crow Reservation In Montana ln the fall of 1905; ln 1915, nearly 100 falrs were held. Picture of an Indian exhibitor and exhibits at an agricultural fair, p. 108. (504)INDIAN FORESTS. Amer. Forestry 36: 223. April 1930. An editorial on the forested lands belonging to the Indians. (505)INDIAN FORESTS. Amer. Forests 41: 504-507, illus. September 1935. Indian forestry; forests for Indian workers; the Indian as a forester; the Indian C. C. C.; and Indian rehabilitation. (506)IRRIGATION WORK IN THE INDIAN BUREAU. Engin. News-Rec. 110: 712-714, illus. June 1, 1933. "On Indian reservations in the West there are a number of reclamation projects operated by the Bureau of Indian Affairs for the purpose of helping the Indian to become self-supporting."—Subtitle. (507)LAND TENURE AND THE ORGANIZATION OF AGRICULTURE IN INDIAN RESERVATIONS IN THE UNITED STATES. Internatl. Rev. Agr. Econ. [Rome] 8 (5): 63-76. May 1917. (508)THE NAVAJO FAIR. Red Man 7: 129-132. December 1914. Extracts are reprinted under the title "Navajo Fair," in Pan. Amer. Union

Bul. 41: 400-405, illus. (September 1915). The falr described is held at the Government school and agency on the San Juan River In New Mexico. Every community in a reservation of about 6,000 square miles contributed toward the display. The blankets served as a background for the many and varied other exhibits-fruits, grains, vegetables, baskets, and the beautifully wrought work of the Navajo silversmiths. (509)

A NEW TRAIL FOR THE INDIAN. Amer. Forests 40: 263. June 1934. Editorial on the Wheeler-Howard "Indian Rights" blll (S. 2755; H. R. 7902), including statements concerning the ownership and management of

land among the Indians. (510)

SEVERALTY BILL AND INDIAN LANDS. Outlook 81: 1045. Dec. 30, 1905.

ABBOTT, F. H.

AORICULTURAL PROGRESS AMONG INDIANS. Redman 4: 313-318. April 1912.

ALLEN, EDGAR P.

THE INDIAN AS A LUMBER BABON. Amer. Indus. 23 (12): 27-29, illus. July 1923.

"Some of the largest timber sales ever made by the Unlted States Government, and at the highest prices, have been from Indian reservations in the last twelve years-many for 1,000,000 feet."-Subtitle.

BARNES, WILL C.

ARE INDIAN AND BUFFALO DISAPPEARING TOGETHER? Amer. Cattle Prod. 20 (2): 1-3; (3):6-7, illus. July, August 1938.

"An understanding report of the red man's struggle for existence."-Editor.

(511)

(512)

(513)

66

MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

BEAGLEHOLE, ERNEST.

NOTES ON HOPI ECONOMIC LIFE. 88 pp. New Haven, Yaie Unly. Press. 1937. (Yaie Unly. Pubs. Anthrop. 15.)

Household, kin and clan (bilateral kin group, the clan group), pp. 5-9: ownership and control of property (personal property, group ownership, iand ownership), pp. 10–17; economic organization (division of iabor, education, specialization, scasonal calendar of work, economic cycle, organization of work, work psychology), pp. 18–32; agriculture (natural phenomena and weather lore, choice and preparation of land, planting and cultivation, har-vesting, ritual in agriculture), pp. 33–48; secondary productive activities (hunting and herding, gathering of natural products, sait, pigments, wood, craft activities house huidding, and 6050; foods, and their superprediction craft activities, house building), pp. 49-59; foods and their preparation (methods, recipes), pp. 60-71; distribution of native wealth through ceremony and exchange (personal ceremonial, birth and naming, initiation, marriage, death, religious ceremoniai, glfts and forfelts, trade), pp. 72-86; bibllography, pp. 87-88.

Abstract under title "Family and Clan in Hopl Economics" in Nature 139: 763 (May 1, 1937).

BLAKELY, C. H.

MADE-TO-ORDER FARMERS; 1, THE SIOUX INDIAN AND THE GOVERNMENT. Dakota Farmer 42: 348-349. May 1, 1922.

"The destiny, past and future, of those tribes of the Sioux Nation located upon the Rosebud and Pinc Ridge Reservations," along the western part of the southern border of South Dakota.

BLANCHARD, C. J.

UNCLE SAM PAYS A DEBT TO INDIANS : AN IRRIGATION SYSTEM FOR THE PIMAS OF Amer. Rev. of Reviews 65: 622-624, illus. ARIZONA. June 1922.

The construction of a diversion dam on the Gila River at Florence, Arlz., completed in 1922 for the Irrigatiou of 62,000 acres, 35,000 of which belong to the Pimas. The lliustrations show: a Pima Indian family and their home in the Glla Valley, Arlz.; the diversion dam across the Gila River at Florence. Ariz., an automobile engine as motive power for a narrow-gage rallway; a Pima Indian with his mule team, cultivating Egyptian iong-staple cotton in Arizona.

BOWERS, GEOROE BALLARD.

CALIFORNIA MISSION INDIANS. South. Workman 54 : 15-20, iilus. January 1925.

The Mission Indians of California, including information on their agriculture. The Illustrations include an Indian potato farm; an Indian vineyard on the Pala Reservation ; a peach orchard ; a cotton field in San Diego County ; an alfaifa fieid.

THE ORIGINAL DRY-FARMERS OF THE SOUTHWEST. South. Workman 58: 453-458, ilius. October 1929.

The present day agriculture of the Hopis. The illustrations show the harvesting of corn, planting corn at a school, and peach orchards on the farm of a modern Hopl.

BRYAN, KIRK.

FLOOD-WATER FARMING. Geog. Rev. 19: 444-456, Illus. July 1929.

"Flood-water farming is practiced in the more remote areas of the South-

west and was more prevalent in the early days of settlement than at present . . this paper consider[s] the geographical relationships of the practice of flood-water farming and . . . the decline in acreage in relation to recent changes in stream channels. This complex relationship has also an anthropological importance sluce flood-water farming was one of the important sources of livelihood of the prehistoric sedentary Indians of the Southwest."

Modern flood-water farming; fields below escarpments; fields at the "arroyo mouth"; fields in main valleys; contrast between Indian and Spanish farming; effect of the recent epicycle of eroslon; dry farming of beans as a new industry. There are three views of cornfields in Gutierrez Canyon, Sandia Mountalus, Bernaiillo County, N. Mex.; one of a bean field near Sedillo, Bernalillo County; two of fields in Arroyo en Medio.

(518)

(519)

(515)

(516)

(514)

(517)

BUNTIN, MARTHA.

BEGINNING OF THE LEASING OF THE SURPLUS GRAZING LANDS ON THE KIOWA AND COMANCHE RESERVATION. Chron. Okla. 10: 369-382. September 1932.

In 1881 and 1882 P. B. Hunt, U. S. Indian agent for the Kiowa, Comanche, and Wichita tribes, leased surplus grazing lands in exchange for beef to feed the Indians, Congress having provided insufficient appropriations for that purpose.

CHUBBUCK, LEVI.

INDIAN BOARDING SCHOOLS AND AORICULTURAL EDUCATION. 5 pp. Washington, Govt. Print. Off. 1911.

Memorial relative to Indian boarding schools and agricultural stations. Ordered to be printed for the use of the Committee on Indian Affairs, Feb. 16. 1911.

TEACHING AGRICULTURE IN INDIAN SCHOOLS. Native Amer. 14: 151-152. Mar. 8, 1913.

COHEN, FELIX S.

ANTHROPOLOGY AND THE PROBLEMS OF INDIAN ADMINISTRATION. Southwest. Social Sci. Quart. 18: 171-180. September 1937.

The anthropologist and Indian administrator should work together on such problems as education, administrative areas, economic activities, land tenure, inheritance, health, art, and recreation.

COLLIER, JOHN.

INDIAN REORGANIZATION. Rural Amer. 14 (8): 8-9. November 1936.

Summary of work accomplished under the Indian Reorganization Act.

INDIANS AT WORK. Survey Graphic 23: 260-265, 297, 299, 300-302, Illus. June 1934.

A plea for the Wheeler-Howard bill, and the Indian's response to new policles.

INDIANS, INC. Survey 63: 519-523, 547-549. Fem. 1, 1930. The allotment policy.

NEEDS IN ADMINISTRATION OF INDIAN PROPERTY. Natl. Conf. Social Work Proc. 1932: 627-639.

Historical survey of governmental policies toward Indian land.

(528)THE OWNERS OF A COLDEN LAND. Rural Amer. 14 (1): 8, 9. January 1936. Brief description of the Wind River and Navajo Reservations.

PUEBLO LANDS. Survey 65: 548-549. Feb. 15, 1931. Effects of the Pueblo Land Act of 1924.

(530)- SHEPARD, WARD, AND MARSHALL, ROBERT. THE INDIANS AND THEIR LANDS. Jour. Forestry 31: 905-910. December 1933. (531)COLLISSON, CHARLES F. [AGRICULTURE ON THE FORT EERTHOLD, NORTH DAKOTA RESERVATION.]

Minneapolls Tribune, June 22, July 6, 13, 20, 1924.

(532)COOK, SOLOMON. THE MOHAWK INDIAN. Cornell Countryman 36: 113. April 1939. The activities of the Mohawk Indians in their present home along the St. Lawrence River near St. Regis.

(533)COOLIDGE, DANE, and COOLIDGE, MARY ROBERTS. THE NAVAJO INDIANS. 316 pp., illus. Boston, Houghton Mifflin Co. 1930. Note the section on economic life. Reviewed by J. Frank Dobie in Miss. Val. Hist. Rev. 18: 73-74 (June 1931).

COOLIDGE, MARY ROBERTS.

THE RAIN-MAKERS : INDIANS OF ARIZONA AND NEW MEXICO. 326 pp. New York, Houghton Mifflin Co. 1929.

See especially ch. 6, Fields, Food, and Stock, pp. 47-52. Reviewed by John Tate Lanning in So. Atlantic Quart. 28: 219-220 (April 1929).

(520)

(521)

(522)

(523)

(524)

(525)

(526)

(527)

(529)

(534)

[COWAN, JOHN I.]

BEDOUINS OF THE AMERICAN DESERT. Amer. Rev. of Reviews 45: 489-490, illus. Aprll 1912.

The Navajos, especially their rngs. A summary of article by John L. Cowan in Out West (Los Angeles).

DABB, EDITH MANVILLE.

AMERICAN INDIANS NEED MISSIONARY AGRICULTURISTS. World Agr. 2: 114. July 1921.

Also available in slightly expanded form as an article entitled "Missionary Agriculturists Needed for American Indians" in South. Workman 51: 378-381 (August 1922). The author was the secretary for Indian schools of the National Y. W. C. A.

DAWES. HENRY L.

(537)THE INDIAN TERRITORY. Independent 52: 2561-2565. Oct. 25, 1900.

The purpose for which the commission to the Five Clvillzed Tribes was ereated, and the "present condition" of their work.

DONAGHY, JAMES A.

FITTING THE INDIAN IN. Nor'-West Farmer 48 (8): 5, 17. Apr. 20, 1929.

What the Indians on some of the large reserves in Alberta are doing.

DORY. WILLIAM.

THE APACHES OF THE HIGHLANDS. South. Workman 51: 472-477. October 1922.

Brief review of the Apaches since the Civil War.

THE MESCALERO APACHES PRESENT CONDITIONS. Sonth. Workman 51: 413-419, illus. September 1922.

DRAPER, W. R.

(541)

THE INDIAN AS A FARMER. Harper's Weekly 45: 725, illus. July 20, 1901. The Illustrations show a Delaware Indian farmer; Comanche Indian boys hoeing a meion patch; the Seger Industrial School Colony, Oklahoma Territory; and Washita and Caddo Indians clearing a cornfield.

(542)THE RECONSTRUCTION OF THE INDIAN TERRITORY. Outlook 68: 444-447. June 22, 1901.

"The curtain will soon be rung down on what has been termed by many the greatest human tragedy of the end of the century. Within two years the Indians of the Five Clvilized Trlbes will be entirely strlpped of their identity as a people, their laws abolished, and their lands divided into small tracts."

DWIGHT, BEN.

(543)RELATIONSHIPS BETWEEN INDIAN HOMES AND SCHOOLS. Natl. Conf. Social Work Proc. 1933: 677-685.

It is necessary that farming be used as the cornerstone for the reconstruction program among the Choetaw Indians.

EASTMAN, ELAINE GOODALE.

YANKEE SCHOOLMISTRESS AMONG THE SIOUX. Rural New Yorker 91: 547-548, 563-564, 579-580, 599, 601, 615-616, 631-632, 647-648, 675-676. June 11-Aug. 6, 1932.

The hunter essays to farm, pp. 599. 601; ranch life in the sand hills, pp. 631, 632.

EGGESTINE, ADELIA L.

(545) CHIPPEWA INDIANS IN BURAL MINNESOTA. Pub. Health Nursing 24: 89-94, illus. February 1932.

The State public-health plan; the clinic at the wildrice harvest, life in the rice camp; teaching by example; lay group aids Indian service; and the Ineffectiveness of the white man's medicine.

ELLIOTT, W. J.

POSSIBILITIES FOR THE RED MAN. Nor'-West Farmer 55 (5): 15, 18. May 1936. Craft work is urged to supplement agriculture, which the western Canadian Indians find difficult.

(544)

(539)

(540)

(535)

(536)

ELLIOTT, W. J.

SCHOOLS FOR RED CHILDREN. Nor'-West Farmer 54 (12): 9, 12, illus. December 1935.

Indiau schools in western Canada teach farming and related occupations. FARIS, C. T. (548)

THE INDIAN AS A WOOL GROWER. Natl. Wool Grower 15 (11): 23-25, illus. November 1925.

The article states that approximately 10 percent of the Indian population of today is engaged in the sheep industry and that the Navajos take the lead in numbers and production. The illustrations show: Navajo owner-herder and his sheep; one of the Navajo designs; ewes on the Jicarllia Apache winter range.

FLETCHER, ALICE C.

LANDS IN SEVERALTY TO INDIANS; ILLUSTRATED BY EXPERIENCES WITH THE OMAHA TRIBE. Amer. Assoc. Adv. Scl. Proc. (1884) 33: 654-665.

FLOOD, FRANCIS A.

FIRST FARMERS OF AMERICA. Farmer-Stockman 50: 631, 658, Illus. Nov. 1, 1937.

Description of the present lands of the Navajo, Hopi, and Pueblo Indians. Also in Ind. Farmers' Gulde 93: 712, 719, illus. (Dec. 4, 1937). The illustration shows an Indian woman shucking corn near Cuya Mengue, N. M.

HOPIS LIVE ON SAND AND HOPE. Farmer-Stockman 50: 693, 710, illus. Dec. 1, 1937.

Present-day Hopi farming practices with illustrations showing corn cultivation and an orchard. Also under the title "Living on Sand and Hope" in Ind. Farmers' Guide 94: 84, 85, illus. (Feb. 12, 1938), with illustrations showing corn drying, corn planting, a cornfield, and a corn hill.

> (552) 6 727 729 illus Dec 15

I'D LIKE TO BE A NAVAJO. Farmer-Stockman 50: 716, 737, 739, illus. Dec. 15, 1937.

Present-day agricultural conditions on the Navajo Reservation with illustrations showing a hogan and sheep. Also in Ind. Farmers' Guide 94: 193, 209, Illus. (Mar. 26, 1938), with illustrations showing sheep and goats, and the drying of meat.

(553) PUEBLOS ARE PEOPLE. Farmer-Stockman 51: 7, 27, illus. Jan. 1, 1938.

Also In Ind. Farmers' Gulde 94: 304, illus. (May 21, 1938).

FORBES-LINDSAY, C. H.

THE NORTH AMERICAN INDIAN AS A LABORER; HIS VALUE AS A WORKER AND A CITIZEN. Craftsman 14: 146-157. May 1908.

For an extensive comment on this article, see "Redskin as Laborer and Agriculturist," Amer. Rev. of Revlews 37: 728-729 (June 1908).

FORDE, CYRIL DARYLL.

ETHNOGRAPHY OF THE YUMA INDIANS. 278 pp., illus. Berkcley, Univ. Calif. Press. 1931. (Calif. Univ. Pubs. Amer. Archaeol. and Ethnol. v. 28, No. 4.)

Agriculture, pp. 107-112; planted grasses, p. 113; landowncrshlp, p. 114; gathered seeds and fruits, pp. 115-116; tobacco, p. 117; hunting, p. 118; fasts, p. 118; fishing, p. 119. Mainly concerns present-day life. (556)

HOPI AGRICULTURE AND LAND OWNERSHIP. Roy. Anthrop. Inst. Jour. (1931) 61: 357-405, illus.

Introduction, pp. 357-358; phonetic note, p. 358; physical conditions, pp. 358-366; village lands and boundarles, pp. 366-367; clan lands, pp. 367-383; Zuñi landholding, pp. 383-384; agricultural seasons and calendar, pp. 384-389; cultivation and crops, pp. 389-395; magle and ritual in cultivation, pp. 395-399; conclusion, p. 399.

Plate 42 includes three pictures of Hopi cornfields; plate 43, a picture of a typical corn clump, one of a bean plot, and one of a squash vine with an Individual windbreak; plate 44, a picture of an irrigated garden, and one of chile and onlon beds.

Commented on In Scot. Geog. Mag. 48: 294 (Sept. 15, 1932). Summary by J. R. Swanton in Social Sci. Abs. 4: 16025 (October 1932).

(555)

(554)

(551)

(550)

(549)

GIFFORD, E. W.

THE COCOPA. Calif. Univ., Pubs. Amer. Arehaeol. and Ethnol. 31 (5): 257-334, illus. Berkeley, Calif. 1933.

The tribes of the Yuman family, situated around the head of the Guif of California. Habitat and neighbors, pp. 260-262; agriculture (maize, beans, cucurbits, other plants), pp. 263-267; gathering and hunting (fish, mcat, salt, tobacco), pp. 267-270; material eulture, pp. 270-280; bibliography, pp. 323-324.

THE KAMIA OF IMPERIAL VALLEY. U. S. Bur. Amer. Ethnol. Bul. 97, 94 pp., illus. 1931.

Agriculture, pp. 5, 21-25; fishing, pp. 25-26; hunting, pp. 26-27; cooking and cating, pp. 27-28.

GOODWIN, GRENVILLE.

THE SOCIAL DIVISIONS AND ECONOMIC LIFE OF THE WESTERN APACHE. Amer. Anthrop. 37: 55-64, map. January-March 1935.

The life of the Apaches about 1850 and brief consideration of the phases of that life that have continued to the present.

GREGORY, HERBERT E.

THE NAVAJO COUNTRY. U. S. Geol. Survey Water-Supply Paper 380, 219 pp., ilius., maps. 1916.

A geographic and hydrographic reconnaissance of parts of Arizona, New Mexico, and Utah. Bibliography, pp. 199-208. See the index under agriculture and irrigation.

HARSHBERGER, JOHN W.

CHANGES IN THE HABITS OF THE HOPI INDIANS, ARIZONA. Geog. Soc. Phila. Bul. 24: 39-45. January 1926.

The last three pages have observations on the changes that are taking place in Hopi agriculture.

HASKETT, BERT.

(562)STAMPING OUT ANIMAL DISEASES ON INDIAN RESERVATIONS. Producer; The Natl. Live Stock Monthly 12(2): 5, 9. July 1930.

HERITAGE, WILLIAM.

(563)FORESTRY ACCOMPLISHMENTS IN THE INDIAN SERVICE IN THE LAKE STATES JOUR. Forestry 37: 717-718. September 1939.

(564)FORESTRY, PAST AND FUTURE, ON INDIAN RESERVATIONS IN MINNESOTA. Jour. Forestry 34: 648-652. July 1936.

The Grand Portage, White Earth, Nett Lake, and Red Lake Indian Reservations and forestry.

HERMSTEAD, OSCAR.

(565)

INDIANS JOIN FARM BUREAU; REALIZING THAT GOVERNMENT AID WILL NOT LAST FOREVER, THEY WELCOME BETTER FARMING IDEALS. Dakota Farmer 43: 166-167. Feb. 15, 1923.

The Promise Indian Farmers' Club in the northwestern portion of Dewey County, S. Dak., the joining by six of their group of the Dewey County Farm Burcau, and the agriculture practiced by these Indians.

HEYWOOD, JAMES.

(566)ON THE APTITUDE OF THE NORTH AMERICAN INDIANS FOR AGRICULTURE. Roy. Statis. Soc. Jour. 33: 456-462. December 1870.

HILL, WILLARD WILLIAMS.

(567)THE AGRICULTURAL AND HUNTING METHODS OF THE NAVAHO INDIANS. 194 pp., ilius., maps. New Haven, Yale Univ. Press. 1938. (Yale Univ. Pubs. Anthrop. 18.)

Introduction (territory, annual cycle, daily round), pp. 11-19; Agriculture (field location, ownership, preparation for planting, planting, cultivation, harvesting, storage, crop utilization, nonfood plants, introduced plants, summary), pp. 20-51; Agricultural Ritual (observances and beliefs, minor rituals, major ceremonies, rain eeremony, summary), pp. 52-95; Hunting (mythological background, education in ritual hunting, ritual hunting, summary), pp. 96-166; Nonritual Hunting (summary), pp. 167-176; Conclusion (the ritualization of everyday behavior, Navaho culture in relation to neighboring cuitures), pp. 177-190; Bibliography, pp. 191-193. Review by J. W. Hoover in Geog. Rev. 30: 318 (April 1940).

(561)

(557)

(558)

(559)

(560)

HILL, WILLARD WILLIAM.

(568)NOTES ON PIMA LAND LAW AND TENURE. Amer. Anthrop. 38: 586-589. October-December 1936.

HODGSON, W. O.

(569)THE INDIVIDUAL INDIAN FARM. Red Man 7: 32-35. September 1914.

"The Pima, Papago, and Maricopa Indians, who live in this country and who are the particular subjects of this article, are primarily farmers and stock ralsers. . .

"Last year authority was granted by the Indian Office in Washington for sixty acres of the school farm at Sacaton to be divided up into ten-acre fields. This unit of ten acres was deemed advisable because in all probability when the Indians receive their allotments in severalty, each allotment will consist of a ten-acre tract of tillable land."

HOOVER, J. W.

THE INDIAN COUNTRY OF SOUTHERN ARIZONA. Geog. Rev. 19: 38-60, illus. January 1929.

Pimería, land of the Pimas and Papagos; the Gila River and its changed character; the terraces of the Gila River in relation to Pima culture; economic conditions of the Pimas; the Mohave Indians; the Papago and the Papagueria; the mountain country and peoples. See also the author's article entitled "Navajo Nomadism" in Geog. Rev.

21: 429-445, illus. (July 1931).

(571)

(570)

NAVAJO LAND PROBLEMS. Econ. Geog. 13: 281-300, illus. July 1937.

"Eastward from the Grand Canyon of the Colorado in Arizona, the Navajo realm stretches to the 108th meridian in New Mexico, and from the Little Colorado River northward to the San Juan River in Southern Utah. The solid block of Navajo reservation area includes 25,000 square mlles or 16,000,000 acres.... The real Navajo country—the country occupied chiefly by Navajo-comes nearer to 28,000 square miles, an area larger than Ireland.

"Incongruously this vast area set aside for the Navajo Indians, with a density of population of about two per square mile, is overcrowded, though it appears vacant.

"The Indian population of the reservation area is estimated to include 46,000 or more Navajo, about 3,000 Hopi, and 100 Piute. The entire white population comprises not more than 2,000 traders, missionaries, teachers, and other government employees."

The land problems incident to this situation are discussed under the following headings: The land; vegetation associations; economic adjustments of the Navajo to their land; the problem of erosion; causal factors of the accelerated erosion; rehabilitation of Navajo lands, the Navajo Erosion Control Project; utilization of vegetation cover; rodent control; reduction of Navajo flocks; cooperative, protective, and highway projects; improvement of Navajo stock; recourse to farming; remunerative employment.

A map delineates the Navajo Indian Reservation and illustrations show a typical hogan, a flock of sheep, a cornfield, a farming community, examples of erosion, and examples of efforts to check erosion.

(572)

TUSAYAN: THE HOPI INDIAN COUNTRY OF ARIZONA. Geog. Rev. 20: 425-444, illus. July 1930.

Fields and crops are considered on pp. 434-440. Other subjects included are: The villages; the mesas; water and fuel supplies; arts; movements of population, past and present; bibliographical footnotes. Summary by Charles M. Davis in Social Scl. Abs. 3: 14935 (October 1931).

(573)

HOUGH, WALTER. THE PATIENT PIMAS. Home Geog. Monthly 1 (12): 7-12, illus. June 1932. (574)

SEMINOLES OF THE FLORIDA SWAMPS. Home Geog. Monthly 2 (3): 7-12, illus. September 1932.

MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE

INSTITUTE FOR GOVERNMENT RESEARCH.

THE PROBLEM OF INDIAN ADMINISTRATION; REPORT OF A SURVEY MADE AT THE REQUEST OF HONORABLE HUBERT WORK, SECRETARY OF THE INTERIOR, AND SUBMITTED TO HIM FEBRUARY 21, 1928. 872 pp. Baitimore, Johns Hopkins Press. 1928. (Its Studies in administration.)

The report of the survey made by Lewis Meriam, technical director; Ray A. Brown, Henry Roe Cloud, Edward Everett Dale, Emma Duke, Herbert R. Edwards, Fayette Avery McKenzic, Mary Louise Mark, W. Carson Ryau, Jr., and William J. Spillman, who spent 7 months in field work and 8 months in office work investigating present conditions among the Indlans.

Agriculture, grazing and stock farming, and irrigation of Indian lands are considered on pp. 488-515.

For comment on this report, see John Collier, "Hammering at the Prison " in Survey 60: 389, 402-405 (July 1, 1928); and Francis Fisher Kane, Door." Door," in Survey of: 359, 402–405 (July 1, 1926), and Francis Francis Francis and "East and West: The Atlantic City Conference on the American Indian" in Survey 61: 472–474 (Jan. 15, 1929). This conference of "over eighty unch and women, representing practically all the Indian defense associa-more well with a discussion of the discussion of the second seco tions in the country, as well as the church organizations, . . . approved the Meriam report." The article entitled "Economic Situation of the American Indians" in the U. S. Bur. Labor Statis. Monthly Labor Rev. 27:699-703 (October 1928) is a summary-review of the report.

KINNEY, J. P.

(576)

(575)

THE ADMINISTRATION OF INDIAN FORESTS. JOUR. Forestry 28: 1041-1052. December 1930.

Historical background of the policy toward Indian lands; present policies and problems in administering the forests owned by the Indians; the administration of grazing on Indian lands.

(577)

A CONTINENT LOST ---- A CIVILIZATION WON; INDIAN LAND TENURE IN AMERICA. 366 pp., illus. map. Baltimore, Johns Hopkins Press. 1937.

1, Indian Land Tenure Pollcy during the Colonial Period, pp. 1-26; 2, The Agitation for the Removal of the Indians, 1776-1832, pp. 27-80; 3, Early Indications of an Aliotment Policy, 1633-1832, pp. 81-102; 4, Ex-3, isarly indications of an Anoment Policy, 1033–1832, pp. 81–102; 4, Experimentation with an Allotment Policy, 1833–1871, pp. 103–162; 5, The Acceptance of a General Allotment Policy, 1872–1887, pp. 163–213; 6, Allotment Purpose Defeated by Lease and Sale, 1888–1909, pp. 214–248; 7, The Development of Reservation Resources, 1910–1936, pp. 249–321; 8, The Past, the Present, and the Future, pp. 322–343; Bibliography, pp. 345–349; Appendix (map showing tribes of North America; table showing total area of Indian lands, 1871-1933; table showing areas of restricted lands on Indian reservations).

The volume is reviewed as follows: Joseph A. Batchelor in Amer. Econ. Rev. 27: 546-547 (September 1937); Randolph C. Downes in Miss. Val. Hist. Rev. 24:252 (September 1937); Paul Wallace Gates in Amer. Hist. Rev. 43: 635-636 (Aprli 1938); Alban W. Hoopes in Social Studies 29: 131 (March 1938); Rupert N. Richardson in Southwest Hist. Quart. 42: 150-152 (October 1938); H. A. Smith in Jour. Forestry 35: 601-604 (June 1937).

(578)

E. C. W. ON INDIAN RESERVATIONS. JOUR. Forestry 31: 911-913. December 1933.

The Emergency Conservation Work made substantial physical improvements on Indian land.

AN INDIAN TRIBE PRACTICES FORESTRY; ON THE MENOMINEE RESERVATION FOREST PRACTICE HAS BROUGHT RESULTS. Amer. Forests and Forest Life 34: 532-534, ilius. September 1928.

The Menominee Reservation consists of 10 townships along the Wolf River and its tributarles and the south branch of the Oconto River, 50 miles northwest of Green Bay, Wis.

The illustrations show an area left after the selective cutting of 1926 on the Menominee Reservation was completed; the nursery and seedbeds on the reservation; spruce transplants in the Menominee nursery.

72

LA FARGE, OLIVER.

THE AMERICAN INDIAN'S REVENCE. Current Hist. 40: 163-168. May 1934. Background of the Wheeler-Howard Bill. The Indians were becoming more and more dependent on Government relief.

REVOLUTION WITH RESERVATIONS. New Repub. 84: 232-234. Oct. 9, 1935. Under Commissioners C. J. Rhoads and John Collier, the Bureau of Indian Affairs has reversed many previous policies.

LEIGH, W. R.

A DAY WITH A NAVANO SHEPHERD. Scribners Mag. 71: 334-343, illus. March. 1922.

A Navaho boy's work In herding sheep and goats.

LEUPP, F. E.

INDIAN LAND TROUBLES AND HOW TO SOLVE THEM. Amer. Rev. of Reviews 42: 468-472. Octoher 1910.

LIPPS, OSCAR HIRAM.

HISTORY OF THE ART OF WEAVING AMONG THE NAVAJOS. Red Man 7: 58-63. October 1914.

"The art of weaving is comparatively a new art among the Navajos . . . he learned it from the Pueblos and since the introduction of sheep into his country by the Spaniards. It is certainly not more than three hundred years since he began to weave, if that long."

LAWS AND REOULATIONS RELATING TO INDIANS AND THEIR LANDS. 91 pp. Lewiston, Idaho, Lewiston Printing and Binding Co. 1913.

1. Laws and Regulations; 2, Digest of Decisions Relating to Indian Affairs; 3, Classified List of Nez Percé Indians.

LUOMALA, KATHARINE.

NAVAHO LIFE OF YESTERDAY AND TODAY, 115 pp., processed, illus. Berkeley, Calif. U. S. Natl. Park Serv. 1938.

Hunting, pp. 43-47; Food, pp. 48-51; Agriculture, pp. 52-56; Livestock, pp. 57-85; Bibliography, pp. 104-115. Reviewed by J. W. Hoover in Geog. Rev. 30: 318 (April 1940).

MARSHALL, ROBERT.

ECOLOGY AND THE INDIANS. Ecology 18: 159-161. January 1937.

"The ecology of most Indian reservations is not only a zoological and botanical problem, but it is also fundamentally influenced by the dominant economic problem of how to make all of the United States yield all of its citizens a reasonable standard of living."—p. 161.

MASON, J. ALDEN.

THE PAPAGO HARVEST FESTIVAL. Amer. Anthrop. 22: 13-25 January-March 1920

Description of the Vlgita or harvest festival of the Papago Indians of the Santa Rosa Valley, held the last of November, supposedly every 4 years.

MCKENZIE, FAYETTE AVERY.

THE INDIAN IN RELATION TO THE WHITE POPULATION OF THE UNITED STATES. 117 pp, Columbus, Ohio, The Author. 1908.

1, Historical Review; 2, Indian Status: Past and Present: Policy for the Future; 3, Results of Citizenship; 4, Trust Funds; 5, Education: KInds of Schools; 6, Educational Policy; 7, Results of Non-reservation School; 8, Voluntary Agencies; 9, Mission and Settlement Work; 10, The Problem. Thesis (Ph. D.), Pa. Univ.

MCLEAN, MARY.

A VISIT TO PRIMITIVE FARMERS. Farmers Advocate and Home Mag. 65: 1192 Aug. 7, 1930.

Report on the comments of Mary McLean, who spent many years among the Hopi Indians of Arizona.

MEACHAM, LOTTA ALLEN.

THE CROW INDIAN FAIR. Independent 65: 656-658. Sept. 17, 1908. The Crow Indian Industrial Fair on the reservation in Montana.

(591)

(590)

(586)

(587)

(588)

(589)

(583)

(584)

MERIAM, LEWIS B., RYAN, W. CARSON, JR., LA DU, BLANCHE L., BRONSON, RUTH (592) MUSKRAT.

STATE AND LOCAL COOPERATION WITH THE NATIONAL GOVERNMENT IN SOCIAL AND EDUCATIONAL WORK FOR THE INDIANS. Natl. Conf. Social Work Proc. 1931: 606-645.

Statement of the problem, by Lewis B. Merlam, pp. 606-616; Cooperation in Indian education, by W. Carson Ryan, Jr., pp. 617-625; What Minnesota is doing for the Indians, by Blanche L. La Du, pp. 626-636; The Indians' attitude toward cooperation, by Ruth Muskrat Bronson, pp. 637-645.

MERRITT, EDOAR B.

THE AMERICAN INDIANS AND THE GOVERNMENTAL INDIAN ADMINISTRATION. U. S. Off. Indlan Affalrs Bul. 12, 18 pp. 1926.

Agriculture, pp. 7-8: Indian timber, p. 12; Indian Irrigation projects, p. 12.

MOULTON, ROBERT H.

IT'S LO. THE RICH INDIAN. Hoard's Dalryman 54: 869, Illus. Jan. 11, 1918. (595)

MUSGRAVE. M. E.

DISTRIBUTION AND UTILIZATION OF FLOODWATERS. Science (n. s.) 82: 461-462. Nov. 15, 1935.

Improving present Navajo farm land by scientific distribution of floodwaters.

PLANT CORN A FOOT DEEP. Wallaces' Farmer and Iowa Homestead 64: 795, 803, Illus. Dec. 30, 1939.

The Hopl and Navajo ways of conserving moisture in farming. The Illustrations show Navajo cornfield, corn husking, the use of a planting stick, and corn partly roasted for winter use hung outside a Hopi house.

WHITE MAGIC IN NAVAJO LAND. Amer. Forests 43: 426-431, 460-461, illus. September 1937.

Activities of the Soli Conservation Service in rehabilitating Navajo lands.

OPLER, M. E.

A SUMMARY OF JICARILLA APACHE CULTURE. Amer. Anthrop. 38: 202-223. April-June 1936.

Agriculture and wild plant foods, pp. 206-207; hunting and fishing, pp. 207-208.

PHAYNE, IONATIUS.

THE RED INDIANS OF TODAY. Quart. Rev. 264: 319-334. April 1935.

Review of United States Indian pollcles, with emphasis on the literature about them and recent reforms.

PRESTON, PORTER J., and ENGILE, CHARLES A.

(600)REPORT OF ADVISORS ON IRRIGATION ON INDIAN RESERVATIONS. In Senate Comulttee on Indian Affairs, Survey of Conditions of the Indians in the Unlted States, Hearings . . ., 71st Cong., 2 sess., Pt. 6, pp. 2210-2661. Jan. 21, 1930.

READAN, ALBERT B.

THE FORT BOIS CHIPPEWA. Wis. Archeol. (n. s.) 3: 101-132, Illus. September 1924.

Modern Implements, p. 118; products of manufacture, pp. 118-123; hunting and fishing, pp. 123-126; food, p. 127; wild or Indian rice, pp. 127-128; maple sugar, pp. 129-130; berrles, p. 130.

ROBERTS, FRANK H. H., JR.

(602)THE VILLAGE OF THE OREAT KIVAS ON THE ZUNI RESERVATION, NEW MEXICO. U. S. Bur. Amer. Ethnol. Bul. 111, 197 pp., Illus. 1932.

See pp. 4, 26, 103, 164. Bibliography. pp. 179-186. Plate 20 ls of two vlews of floodwaters following a rain.

(601)

(596)

(597)

(598)

(599)

(594)

(593)

SCHMECKEBIER, LAURENCE F.

(603)THE OFFICE OF INDIAN AFFAIRS: ITS HISTORY, ACTIVITIES AND ORGANIZATION. 591 pp. Baltimore, Johns Hopkins Press. 1927. (Inst. Govt. Res., Serv. Monog., U. S. Govt., 48.)

In ch. 2, Activities, pp. 143 ff., consult such topics as the following: Making allotments in severalty; supervision over real estate; education of the Indian (kinds of schools, course of study, etc.); promoting industrial advancement (irrigation, water supply, and drainage; promotion of agri-culture and stock raising; promotion of home economics; etc.). See also the section of the bibliography on education and citlzenship, pp. 558-560, and on property questions, pp. 565-573. Review by Joseph C. Green in Amer. Hist. Rev. 34: 857-860 (July 1929),

SEAGER, F. W.

THE HOOPA COUNTRY. Amer. Forests and Forest Llfe 31: 195-198, 254, illus, Aprii 1925.

Hoopa basket weaving.

SERGEANT, ELIZABETH SHEPLEY.

(605)A NEW DEAL FOR THE INDIAN. New Repub. 95: 151-154. June 15, 1938. Recent accomplishments of the Office of Indian Affairs.

CRISIS IN SIA PUEBLO. Scribners Mag. 98: 27-32. July 1935.

"A report from the field on the effect of government policy on the Indians, this article is also a sympathetic and understanding plcture of New Mexlco pueblos. It regards Indians not as art objects but as human beings."-Subtitle.

SEYMOUR, FLORA WARREN.

OUR INDIAN LAND POLICY. Jour. Land and Pub. Util. Econ. 2: 93-108. January 1926.

The clash of dlfferent cultures; status of Indian agriculture; Indian ideas of landed property; conquest and land titles; tribal versus individual rights to land; land tenure under the reservation policy; the attempt to make Indian farmers; land tenure as factor encouraging Indian farming; disposal of surplus lands; the rigidity of Indian customs; leasing Indian allotments; difficulties of allotment policy; land policy, cltizenship, and liquor regulation; the Burke Act of 1906; conditions of landownership in fee simple; remnants of tribal property; sales of Indian iands; result of allotment policy; persistence of tribal customs; present status of Indian land tenure; results of policy of making Indian farm owner-operators.

THUNDER OVER THE SOUTHWEST. Sat. Evening Post 211(40): 23, 71-72, 74, 76. Apr. 1, 1939.

In opposition to policies carried out under the Indian Reorganization Act. (609)

SIPE, SUSAN B.

THE WORK OF THE BUREAU OF PLANT INDUSTRY, UNITED STATES DEPARTMENT OF AORICULTURE IN ITS RELATION TO AGRICULTURAL INSTRUCTION IN INDIAN SCHOOLS. Natl. Ed. Assoc., Jour. Proc. and Addresses 1905: 938-947.

SMITH, JOHN F.

INTERIOR INDIANS' AGRICULTURAL EFFORTS; THE NATIVE INDIANS OF BRITISH CO-LUMBIA ARE ASTONISHINO THE WHITES BY THEIR PROGRESSIVE METHODS. Agr. Jour. [Brit. Columbia] 5: 112. June 1920.

SNIFFEN, MATTHEW K.

AORICULTURE AND THE INDIANS OF NORTH AMERICA. World Agr. 1: 69. January 1921.

An article by the secretary of the Indian Rights Association.

SPECK, FRANK G., and SPECK, FLORENCE I.

THE OJIBWA, HIAWATHA'S PEOPLE. Home Geog. Monthly 2(4): 7-12, illus. October 1932.

STEELE, G. F.

INDIANS GOOD FARMERS; BLOOD INDIANS IN SOUTHERN ALBERTA STARTED FARMING A FEW YEARS AGO AND HAVE MADE GOOD. Nor'-West Farmer 44(20): 56-57. Oct. 20, 1925.

200256-41---6

(611)

(612)

(613)

(610)

(601)

(606)

(607)

(608)

(614)STEVENS, ALDEN. WHITHER THE AMERICAN INDIAN? Survey Graphie 29: 168-174, illus. March 1940. Appraisal of Indian affairs under John Collier's New Deal administration STORY, ISABELLE F. (615)OUR EASTERN CHEROKEE INDIANS. Home Gcog. Monthly 2(6): 7-12, illus. December 1932. (616)SWIFT, LUCY G. A THANKSGIVING FEAST AMONG THE FIRST AMERICANS. JOUR. Home Econ. 19: 639-641. November 1927. The feast of the Indians along the Rio Grande on November 1. UNDERHILL, RUTH M. (617)FIRST PENTHOUSE DWELLERS OF AMERICA, 155 DD. New York City, J. J. Augustin. 1938. Pueblo Indians. Excellent photographs. Some material on agriculture. Review by J. W. Hoover in Geog. Rev. 30: 317 (April 1940). UNITED STATES BUREAU OF THE CENSUS. (618)AGRICULTURE ON INDIAN RESERVATIONS. U. S. BUr. Census, 12th Census, 1900, 5: 717-740. UNITED STATES BUREAU OF LABOR STATISTICS. (619)C. C. C. ACTIVITIES FOR INDIANS. U. S. Bur. Labor Statls. Monthly Labor Rev. 49: 94-95. July 1939. (620)COOPERATIVE SOCIETIES AMONG THE INDIANS. U. S. Bur. Labor Statis. Monthly Labor Rev. 44: 95-96. January 1937. Under the Indian Reorganization Act, livestoek, farm machinery, and marketing cooperatives have been formed. (621)DEVELOPMENT OF AMERICAN INDIAN ARTS AND CRAFTS. U. S. BUF. Labor Statis. Monthly Labor Rev. 46: 655-658. March 1938. Activitles of Indian Arts and Crafts Board of the Department of the Interior. UNITED STATES CONGRESS, SENATE, COMMITTEE ON INDIAN AFFAIRS. (622)SURVEY OF CONDITIONS OF THE INDIANS IN THE UNITED STATES. Hearings . . . 70th-74th Cong. 35 pts. 1929-39. WENZ, ALFRED. (623)IN THE HEART OF THE CORN COUNTRY. Dakota Farmer 36: 1068-1070. Oct. 15, 1916. The corn growing of the Mandan Indians on the upper Missouri River. WHEELER, L. R. (624)III YU OLALLIE! Amer. Forests 44: 352-355, 384, illus. August 1938. Present-day Indian use of huekleberries along the Columbia River. WILSON, CHARLES MORROW. (625)NAVAJO NEW DEAL. Current Hist. 48: 49-51, Illus. June 1938. Present conditions on the Navajo Reservation, including agriculture. WILSON, OWEN. (626)RESCUINO A PEOPLE BY AN IRRIGATING DITCH; THE MAKING OVER OF THE PIMA INDIANS. World's Work 22: 14815-14817, illus. September 1911. Three of the pictures are of Pima Indian farmers; one is of a schoolhouse. WISSLER, CLARK. (627)THE REBIRTH OF THE "VANISHING AMERICAN." Nat. Hist. 34: 415-430, illus. September 1934. Throughout practically all of Canada and the United States, Indian contact with the white men resulted in conflict, armed or economic, followed by settlement of the natives on reserves; it is estimated that the aborlginal population diminished by 40 percent through these causes, but slnce about 1890 it has been increasing. Summary under the title "'Van-lshing American' No Longer Vanishes" in Lit. Digest 118(11): 17, 32, Illus. (Sept. 15, 1934).

WOEHLKE, WALTER V.

THE BATTLE FOR GRASS. Sat. Evening Post 206(22): 10-11, 79, 80, 81, 84, illus. Nov. 25, 1933.

Trying to stop erosion on the southwestern Indian reservations.

THE ECONOMIC REHABILITATION OF THE NAVAJOS. Natl. Conf. Social Work Proc. 1934: 548-556.

Efforts to stop overgrazing and soil erosion on the Navajo Reservation. WOJTA, J. F. (630)

AN INDIAN FARMERS' INSTITUTE. Hoard's Dairyman 57: 1141, illus. June 27, 1919.

The 2-day Indian Farmers' Institute held at Lac du Flambeau, Vilas County, Wis., in April 1919. The illustration shows Indians taking lessons in judging seed corn and cutting seed potatoes.

LAC DE FLAMBEAU INDIAN RESERVATION. Hoard's Dairyman 58: 174, illns. Aug. 22, 1919.

The illustration shows Indians judging dairy cows at an Indian farmers' institute.

(632)

(633)

(631)

WISCONSIN INDIANS IN FARMING. Wis. Archeol. 6: 115-119. September 1927. A resume of what has been done to give the Indians of Wisconsin help in bettering their farming methods. Members of the Menominee tribe started the movement by making a request of the Agricultural Extension Service in 1914.

WISCONSIN INDIANS LEARN FARMING. Wis. Archeol. 18: 19-33. January 1919. The red cliff Chippewa; Chippewa Indians at La Pointe Reservation; a trip to the Menominee Indian Reservation; first Menominee Indian farmer's institute; Winnebago council of food preparedness.

See also items 17, 21, 24, 224, 233, 344, 370, 391, 485, 488, 492.

(628)

(629)

UNCULTIVATED PLANTS USED BY THE AMERICAN INDIANS

FOOD AND INDUSTRIAL PLANTS

ANONYMOUS.

ANCIENT USE OF THE ROOTS OF THE LILY AS AN ARTICLE OF FOOD. In Case, L. B., Bot. Index 1: 40-41. October 1877.

Use of roots of the waterlily, probably Nuphar advena, by the Indians for food.

DISCOVER FOOD PLANT IN CALIFORNIA DESERT. U. S. Dept. Agr. Off. Rec. 9(26): 1. June 26, 1930.

Ammobroma growing wild in dry area may help prevent famine among Indlans. Found lu desert hills of southeastern California. Used from time immemorial by Papagos as food.

(636)INDIAN BREAD OR TUCKAHOE. Mo. Bot. Gard. Bul. 9: 71-75, Illus. June 1921. Popular account of nature and uses.

ALCOCER, GABRIEL V.

(637)CATALOGO DE LOS FRUTOS COMESTIBLES MEXICANOS. Mex. Mus. Nac. Au. (ser. 2) 2:413-488. 1905.

ALTAMIRANO, FERNANDO.

HISTORIA NATURAL APLICADO DE LOS ANTIQUOS MEXICANOS. Mex. Inst. Méd. Nac. Au. 2: 261-272. December 1896.

Trabajo leido en el XI Congreso Internacional de Americanistas, reunido, en la Ciudad de México del 15 al 23 de Octubre de 1895.

ANDRADE, ALFREDO ANT DE.

ESTUDO DAS MATERIAS CORANTES DE ORIGEM VEGITAL EM USO ENTRE OS INDIOS DO BRAZIL E DAS PLANTAS DE QUE PROCEDEM. [Rio de Janeiro] Mus. Nac. Arch. 28: 175-199, illus. December 1926.

Vernacular names. Three colored plates.

Bibliographical footnotes.

See also Auguste de Saint-Hilairc, "Lettre sur une variété remarqua-ble de Mais du Brésil, addressée à M. le Président de l'Académie des Sciences," Ann. Sci. Nat., 16: 143-145 (Paris, 1829).

BARROWS, DAVID PRESCOTT.

(640)THE ETHINO-BOTANY OF THE COAHUILLA INDIANS OF SOUTHERN CALIFORNIA. 82 pp. Chlcago, Univ. Chicago Press. 1900.

Note particularly ch. 5, Plant Materials Used in Manufactures and Arts, pp. 45-50; ch. 6, The Gathering, Preparation, and Storing of Foods, pp. 50-54; ch. 7, Food Plants of the Coahuilla Indians, pp. 54-73; ch. 8, Drinks, Narcotics, and Medicines, pp. 73-82; bibliographical footnotes,

Originally a Ph. D. dissertation, Chicago Univ., June 1897. Pp. 25-31, 54-70 are reprinted in Alfred Louis Kroeber and Thomas Talbot Wateruan, eds., Source Book in Anthropology, pp. 223–238 (Calif. Univ. Syllabus Ser., No. 118, Berkeley, Univ. Calif. Press, 1920).

BARRY, J. NEILSON.

USE OF SOIL PRODUCTS BY INDIANS. Oreg. Hlst. Quart. 30: 43-52. March

Oregon Territory is the region covered by the study. Bibliographical footnotes.

78

(639)

(638)

(634)

(635)

BARTRAM, WILLIAM.

(642)OBSERVATIONS ON THE CREEK AND CHEROKEE INDIANS, BY WILLIAM BARTAM, 1789. With prefatory and supplementary notes, by E. G. Squier. Amer. Ethnol. Soc. Trans. (1853) 3:1-81.

Disease and remedies, pp. 43-47; food and means of subsistence, pp. 47-50.

BECKWITH, MARTHA WARREN.

(643)NOTES ON JAMAICAN ETHNOBOTANY; 1, PLANT MEDICINES; 2, FOOD PLANTS. 47 pp. Poughkeepsie, N.Y., Vassar Col. 1927. (Folklore Found. Pubs. 8.)

Index to references, pp. 1-2.

BENEDICT, FRANCIS G., and STEOOERDA, MORRIS.

THE FOOD OF THE PRESENT-DAY MAYA INDIANS OF YUCATAN. Carnegie Inst. Wash. Contrib. Amer. Archaeol. 3(18): 155-188. June 1936.

Introduction, pp. 157-159; description of individual foods in the diet of the Maya (maize products, vcgetables, meats and nonvegetable products, fruits, bread and craekers, miscellaneous, general information coneerning the food of the present-day Maya), pp. 159-169; description of typical meals and food habits of the Maya, pp. 169-177; medicinal properties of Yucatan plants and animals listed in table 1, pp. 177-178; the food of the Maya in colonial times, as determined from the literature, pp. 178-180; composition and energy value of Maya foods and meals, pp. 180-187; summary, pp. 187–188. Abstract under the title Food of the Maya Indians in Nature [London] 139: 970 (June 5, 1937).

BENOIST, RAYMOND.

UNE NOUVELLE ESPÈCE DE BRUNFELSIA (SOLANACEES), PLANTE MAOIQUE DES IN-DIENS DU HAUT-AMAZONE, Soc. Bot. de France Bul. 75: 294-296. March-April 1928.

Brunsfelsia tastevini, nov. sp.; vernacular name, keya-honé.

BERTONI, GUILLERMO.

LA YERBA MATÉ; UNA PLANTA SIMBÓLICA DE AMERICA. 20th Internatl. Cong. Americanists, Rio de Janeiro, Proc. (1922), 1: 91-93. 1924.

BOURKE, JOHN G.

THE FOLK-FOODS OF THE RIO GRANDE VALLEY AND OF NORTHERN MEXICO. JOUR. Amer. Folk-lore 8: 41-71. January-March 1895.

BROWN, ROBERT (OF CAMPSTER).

ON THE VEOETABLE PRODUCTS USED BY THE NORTH-WEST AMERICAN INDIANS AS FOOD AND MEDICINE, IN THE ARTS, AND IN SUPERSTITIOUS RITES. Edinburgh Bot. Soc. Trans. (1868) 9: 378-396.

Also in Pharm. Jour. [London] (ser. 2) 10:89-94, 168-174 (August, September 1868).

BRUMP, LUCIEN.

UN CURIEUX ALIMENT MEXICAIN; LE CHARBON, CHAMPNIGON PARASITE DU MAIS. La Nature 67 (2) :135-136, illus. Sept. 1, 1939.

Unusual foods of the Mexican Indians, especially corn affected by black rust.

BUSHNELL, DAVID I.

THE CHOCTAW OF BAYOU LACOMB, ST. TAMMANY PARISH, LOUISIANA. U. S. Bur. Amer. Ethnol. Bul. 48, 35 pp., illus., map. 1909.

Food, supply and preparation, pp. 8-10; baskets, pp. 13-15; medicinal plants and treatment, pp. 23-24. Plate 7 shows an old mortar made of black gum; plate 8, an Indian woman pounding corn in a wooden mortar.

CAMERON, C. R.

MATÉ: AN IMPORTANT BRAZILIAN PRODUCT. JOUR. Geog. 29: 54-70, illus., maps. February 1930.

Introduction; harvest and production of maté; the planting of maté; eommeree.

CANDOLLE, ALPHONSE DE.

ORIGIN OF CULTIVATED PLANTS. 468 pp. New York, D. Appleton & Co. 1902. Original French ed. 1883; first Amer. ed., 1885. Review by Asa Gray and J. Hammond Trumbull in Amer. Jour. Sci. (ser. 3) 25: 241-255 (April 1883).

(648)

(649)

(650)

(651)

(652)

(644)

(647)

(645)

(646)

CASTETTER, EDWARD F.

UNCULTIVATED NATIVE PLANTS USED AS SOURCES OF FOOD. N. MEX. Univ. Bul. Biol. Ser. 4, No. 1, 62 pp. Albuquerque, Univ. N. Mex. Press. 1935. (Ethnobiol. Studies Amer. Southwest 1.)

CHAMBERLAIN, LUCIA SARAH.

PLANTS USED BY THE INDIANS OF EASTERN AMERICA. Amer. Nat. 35: 1-10. January 1901.

"The following list of plants used by the North-American Indians inhabiting the country east of the Mississippi River was compiled during a course given to students of Radcliffe College in 1899-1900, at the Peabody Museum, by Dr. Frank Russell of the Department of American Archaeology and Ethnology of Harvard University." The English common names are given; they are arranged according to their uses under the name of the Indian tribe. List of the works from which the information was obtained, pp. 9-10.

CHAMBERLIN, RALPH V.

THE ETHNO-BOTANY OF THE GOSIUTE INDIANS OF UTAH. Acad. Nat. Sci. Phila. Proc. (1911) 63: 24-99.

Also issued under the same title as Amer. Anthrop. Assoc. Mem. 2 (5): 329-405 (May 1911). Here the subject is considered under the following subheadings: Vegetal products used as food; beverages; chewing-gums; smoking; domestic objects; habitations; medicinal plants. Pp. 360-405 give a list of plants according to scientific names, with popular and Gosiute equivalents.

SOME PLANT NAMES OF THE UTE INDIANS. Amer. Anthrop. 11: 27-40. January 1909.

Lists of plants according to scientific names, pp. 32-37; alphabetical list of piants according to Ute names, pp. 37-40.

CHESNUT, VICTOR KING.

(657)

(656)

(653)

(654)

(655)

PLANTS USED BY THE INDIANS OF MENDOCINO COUNTY, CALIFORNIA. U. S. Dept. Agr., Div. Bot., Contrib. U. S. Natl. Herbarium 7 (3): 295-408, illus. Washington, 1902.

CLAUDE, JOSEPH.

PLANTAS TINTÓREAS DE ARAUCANIA. Rev. Chilena de Hist. Nat. (1929) 33: 364-374. iiius.

CLINTON. DEWITT.

(659)AN INTRODUCTORY DISCOURSE, DELIVERED BEFORE THE LITERARY AND PHILOSOPHI-CAL SOCIETY OF NEW YORK ON THE FOURTH OF MAY, 1814. 143 pp. New York, David Longworth. 1815.

See the following: Note 32, pp. 127-128, on food plants used by Indians: note 33, pp. 128-131, on wildricc; note 34, pp. 132-133, on wheat; note 35, pp. 133-134, on fodder grasses; notes 36 and 37, pp. 134-138, on geographical distribution and introduction of plants.

COVILLE, FREDERICK VERNON.

(660)DIRECTIONS FOR COLLECTING SPECIMENS AND INFORMATION ILLUSTRATING THE ABORIGINAL USES OF PLANTS. U. S. Nati. Mus. Bui. 39, pt. J, 8 pp. 1895.

General remarks; material to be collected; description of specimens, and notes; aboriginal uses of plants.

NOTES ON THE PLANTS USED BY THE KLAMATH INDIANS OF OREGON. U. S. Dept. Agr., Div. Bot., Contrib. U. S. Natl. Herbarium 5 (2): 87-108. Washington. 1897.

(662)WOKAS, A PRIMITIVE FOOD OF THE KLAMATH INDIANS. U. S. Nati. Mus. Ann. Rpt. 1902: 725-739, iilus.

A detailed record of the methods used by the Indians in harvesting and preparing their crop of wokas, or wateriliy seed, on Klamath Marsh which contains about 10,000 acres of a solid growth of wokas.

The illustrations include views of the following: A wokas gatherer's camp; wokas gatherer's boat and poie; 1 day's harvest of two women; wokas on a mealing stone; wokas drying pile and implements; Indian extracting wokas seeds.

(658)

(661)

DAHLGREN, B. E.

CACAO. Field Mus. Nat. Hist., Chicago, Bot. Leaflet 4, 14 pp., illus. Chicago. 1923.

"Long before the discovery of the American continent, cacao was used and cultivated from Mexico to Ecuador. It is thus a distinctly American contribution to the world's food resources."

DENSMORE, FRANCES.

CHIPPEWA CUSTOMS. U. S. Bur. Amer. Ethnol. Bul. 86, 204 pp., illus., map. 1929.

Note particularly pp. 39-44 ou food, and pp. 119-131 on the cycle of work during the year. Authorities cited, pp. 195-196.

USES OF PLANTS BY THE CHIPPEWA INDIANS. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1926–27) 44: 274–397, illus. 1928.

Most of the monograph is devoted to plants used as food and medicine, plants used as dyes, plants used as charms, and plants used in useful and decorative arts.

Review by T. F. McIlwralth in Canad. Hist. Rev. 10: 361 (December 1929); and Willoughby M. Babcock in Minn. Hist. 10: 440-441 (December 1929).

Essig, E. O.

(666)

(667)

(668)

(669)

(670)

(671)

(672)

THE VALUE OF INSECTS TO THE CALIFORNIA INDIANS. Sci. Monthly 38:181-186, illus. February 1934.

Insects caten by the Indians, both in the past and at present.

FEWKES, JESSE WALTER.

A CONTRIBUTION TO ETHNOBOTANY. Amer. Anthrop. 9:14-21. January 1896. A fragment of a study originally undertaken by J. G. Owens and J. Walter Fewkes on the foods and resources of the Hopi Indians.

FRANCISCANS, SAINT MICHAELS, ARIZONA.

AN ETHNOLOGIC DICTIONARY OF THE NAVAHO LANOUAOE. 536 pp., Illus. SaInt Michaels, Ariz., Franciscan Fathers. 1910.

Classified plant list, pp. 179-203; Navaho foods, pp. 204-220; sheep raising, pp. 257-259; agriculture, pp. 259-270.

GERARD, W. R.

PLANT NAMES OF INDIAN ORIGIN. Gard. and Forest 9:250-253, 262-263, 282-283, 292-293, 302-303. June 24, July 1, 15, 22, 29, 1896.

GILMORE, MELVIN RANDOLPH.

DISPERSAL BY INDIANS A FACTOR IN THE EXTENSION OF DISCONTINUOUS DIS-TRIBUTION OF CERTAIN SPECIES OF NATIVE PLANTS. Mlch. Acad. Sci., Arts, and Letters, Papers (1931) 13:89-94.

THE GROUND BEAN AND ITS USES. Indian Notes 2:178-187, illus. July 1925.

The scientific name of the ground bean is Falcata comosa.

INDIAN FOOD PRODUCTS FROM NATIVE WILD PLANTS. Good Health 61(9):18-19, 46; (10):12-13, 28, Illus. September, October 1926.

The article deals largely with wildrice (Zizania aquatica); seeds of wild sunflower (helianthus annuus); ground bean (Falcata comosa); and all kinds of native nuts.

Summary under the title "Corn as the Indians Cooked It" in Lit. Digest 90(8):29, illus. (Aug. 21, 1926). One illustration shows green ears, still in their husks, being laid on a bed of willow poles; the other, the roasting process.

(673)

THE INDIAN GARDEN. Indian Notes 3: 209-213, illus. July 1926.

The American Ethnobotanical Garden was begun in 1925 by the Museum of the American Indian, Heye Foundation, on a tract of land given by Archer M. Huntington In the Bronx near Pelham Bay Park at the suggestion and under the direction of Dr. Gilmore. The University of Michigan is developing a similar botanical museum. It is known as the Ethnobotanical Museum.

(663)

(664)

GILMORE, MELVIN RANDOLPH.

INDIAN LORE AND INDIAN GARDENS. 39 pp., illus., maps. Ithaca, N. Y., Published under the auspices of the Coordinating Council on Nature Activities by the Silngerland-Comstock Co. 1930.

The Indian Garden, pp. 27-28; native plants as used by Indians, pp. 32-33; nuts and seeds, pp. 34-35; native wild fruits, pp. 35-36; plants used for making tealike beverages, p. 36; sugar sources, p. 37; plants used for perfumes, p. 37; plants used for dyes and stains, p. 38; fiber plants, p. 38; gums and resins, p. 38; some plant remedies, p. 38; and the list of media back for the teacher tradice to the plant set. the list of useful books for understanding Indian life, p. 39.

(675)

(674)

INDIANS AND CONSERVATION OF NATIVE LIFE. Torreya 27:97-98. November-December 1927.

The fundamental difference in the attitude of mind of white people and of Indians with regard to the indigenous fauna and flora.

(676)

A LIVINO OUTDOOR MUSEUM. Mus. Work 3:144-153. February 1921.

A proposal for outdoor museums or gardens with the natural growths of the region. Special attention is given to plans for a park for the grounds of the State Capitol at Bismarck, N. Dak.

(677)SOME CHIPPEWA USES OF PLANTS. Mich. Acad. Sci., Arts., and Letters, Papers (1932) 17: 119-143.

(687)

SOME NATIVE NEBRASKA PLANTS WITH THEIR USES BY THE DAKOTA. Nebr. Stat. Hist. Soc. Collect. (1913) 17: 358-370.

The result of Inquiry among the Ogiaia Dakota on Pine Ridge Reservation, August 1912.

(679)

A STUDY IN THE ETHNOBOTANY OF THE OMAHA INDIANS. Nebr. State Hist. Soe. Collect. (1913) 17: 314-357.

Economic plants by families, pp. 337-349; plants arranged according to uses among the Omaha, pp. 349-353; bibliography on economic botany of American aborigines, pp. 353-357. Thesis, M. A., Nebr. Univ., June 1909.

(680)USES OF PLANTS BY THE INDIANS OF THE MISSOURI RIVER REGION. U. S. BUR. Amer. Ethnol. Ann. Rpt. (1911-12) 33: 43-154. 1919.

This monograph is an attempt to ascertain the relation of the native people of the plains to one phase of their indigenous physical environment. The region specially represented is Nebraska, and the Teton, Dakota, Omaha, Ponka, and Pawnee localities. Bibliography, pp. 153–154. Also issued separately. For a review see A. L. Kroeber in Amer. Anthrop. 22: 384–385 (October-December 1920); and O. A. Stevens, "Uses of Plants by the Indians," in Science 52: 99–101 (July 30, 1920).

VEGETAL REMAINS OF THE OZARK BLUFF-DWEILER CULTURE. Mich. Acad. Sci., Arts, and Letters, Papers (1930) 14: 83-102, illus.

Part of the findings of the archaeological explorations conducted on the upper course of the White River in Carrol and Benton Counties In Arkansas, and on the Eik River in McDonaid County, in the southwest corner of Missouri in the spring and summer of 1922 and the early part of 1923 by the Museum of the American Indian, New York. List of the species of seed-bearing plants in taxonomic order by familles from the lower to the higher, pp. 93-102.

GODDARD, PLINY EARLE.

LIFE AND CULTURE OF THE HUPA. 88 pp., illus. Berkeley, Univ. Press. 1903. (Calif. Unlv. Pub., Archaeol. and Ethnol., v. 1, No. 1.) See pp. 21-32 on food.

GORE, JAMES HOWARD.

TUCKAHOE, OR INDIAN BREAD. Smithsu. Inst. Ann. Rpt. 1881: 687-701, illus. Bibliography of tuckahoe, pp. 700-701. Also issued separately.

GORMAN, MARTIN W.

ECONOMIC BOTANY OF SOUTHEASTERN ALASKA. Pittonia (1896) 3:65-85,

(682)

(684)

GREENE, ROBERT A.

THE COMPOSITION AND USES OF THE FRUIT OF THE GIANT CACTUS (carnegica gigantea) AND ITS PRODUCTS. JOUR. Chem. Ed. 13: 309-312, illus. July 1936.

The fruit of the giant cactus supplied the Papago and Plma Indians with a variety of edible products.

HARMS, HERMANN.

ÜBERSICHT DER BISHER IN ALTPERUANISCHEN GRÄBERN OEFUNDENEN PFLANZEN-RESTE. In Festschrift Eduard Seler, pp. 157-186, illus. Stuttgart, Strecker und Schroder. 1922.

HARRIS, GEORGE HENRY.

(687) THE INDIAN BREAD ROOT OF THE SENECAS. 8 pp. Waterloo, N. Y., Observer Electric Print. 1890.

Probably Arum triphyllum.

BOOT FOODS OF THE SENECA INDIANS. Rochester Acad. Sci. Proc. 1: 106-117, illus. January 1889-June 1891.

HARSHBERGER, JOHN W.

(689)PHYTOOEOGRAPHIC INFLUENCES IN THE ARTS AND INDUSTRIES OF AMERICAN ABORIGINES. Geol. Soc. Phila, Bul. 4: 137-153. April 1906.

(690)THE PURPOSES OF ETHNO-BOTANY. Bot. Gaz. 21: 146-154. March 1896.

"To the World's Fair in 1893 was brought a unlque collection of objects obtained through the liberality of Mr. Hazzard by the Wetherill brothers in the Mancos cañon, Colorado. Never before in the history of American archaeology had such a complete series of objects been brought together for study and comparison. The University of Pennsylvania was fortunate in securing through the efforts of Mr. Culin the loan of the entire collection, which stands unrivalled in showing a large series of interesting things; plant products in the form of food, dress, and household utensils being very largely represented. It is to the description of the plants and plant prod-ucts that this article is directed." The article is also in Amer. Antiquarian Soc. Proc. (1896) 18: 73-81.

HASKIN, LESLIE L.

FRONTIER FOOD; 1PO, OR YAMPA, SUSTAINED THE PIONEERS. Nature Mag. 14: 171-172, illus. September 1929.

The illustration shows a statue of Sacagawea, the Indian woman guide of Lewis and Clark, in Portland, Oreg. She introduced the carums and was the first to disclose the tastiness of these plants to white men. The fruit of three species of Umbelliferae, Carum kelloggii, C. gairdneri, and C. oreganum, was used by Klamath Indlans, who originally called it "kash."

HAVARD, VALERY.

DRINK PLANTS OF THE NORTH AMERICAN INDIANS. Torrey Bot. Club Bul. 23: 33-46. Feb. 29, 1896.

The plants are considered under the following heads: Those yielding alcoholic llquors; those yielding stimulating, exhllarating, or intoxicating principles other than alcohol; and those furnishing palatable juices, or, by infusion, pleasant beverages more or less used to quench thirst.

(693)THE FOOD PLANTS OF THE NORTH AMERICAN INDIANS. Torrey Bot. Club Bul. 22: 98-123. Mar. 27, 1895.

HERRERA, FORTUNATO L.

FITOLATRÍA INDÍOENA; PLANTAS Y FLORES SIMBÓLICAS DE LOS INKAS. Inca 1: 440-446. April-June 1923.

HOUGH, WALTER.

THE ENVIRONMENTAL INTERRELATIONS IN ARIZONA. Amer. Anthrop. 11: 133-155. May 1938.

List of plants utilized by Hopi Indians arranged according to uses, pp. 142-150; systematic llst of species, pp. 152-155.

(691)

(692)

(694)

(695)

(688)

HOUGH, WALTER.

THE HOPI IN RELATION TO THEIR PLANT ENVIRONMENT. Amer. Anthrop. 10:33-44. February 1897.

The plants, considered and later enumerated, are grouped into a number of classes, according to their uses for food, house building, dress and adornment, domestic life, arts, agriculture and forage, medicine, religion, and folklore.

HRDLIČKA. ALĚS.

(697)

(698)

(696)

PHYSIOLOGICAL AND MEDICAL OBSERVATIONS AMONG THE INDIANS OF SOUTH-WESTERN UNITED STATES AND NORTHERN MEXICO. U. S. Bur. Amer. Ethnoi. Bul. 34, 460 pp., illus. 1908.

Food, pp. 19-26; native foods, pp. 257-266; bibliography, pp. 407-425.

JOYCE, T. A.

YERBA MATÉ; THE TEA OF SOUTH AMERICA. Pan-Amer. Mag. 33: 307-328, illus. November-December 1921.

Historical inquiry into the origin and use of yerba maté. Bibliography, pp. 327-328.

LABARRE, WESTON.

(699)

NATIVE AMERICAN BEERS. Amer. Anthrop. 40: 224-234, April-June 1938. Indian use of plant substances in the past and present for undistilled aicoholic liquors.

LAMPMAN, BEN HUR.

SAVAGE GARDENS, NATURE'S CROP FOR HER NUT-BROWN CHILDREN. Nature Mag. 12:32-34, illus. July 1928.

The Sagittaria latifolia, or arrowhead, the famous wapatoo of the Multnomah Indians. Its tubers were used for food.

LAUFER, BERTHOLD.

THE AMERICAN PLANT MIGRATION. Sci. Monthly 28:239-251. March 1929.

A careful statement of the significance of plant cultivations in the development of mankind. In reference to the United States, the author recognizes four strata of plant cultivations: (1) Those peculiar to the aborigines of America, subsequently adopted by the white settlers, who also succeeded in cultivating wild species of North America; (2) plants introduced from Epgland in colonial times; (3) American plants introduced from the West Indies in the seventeenth and eighteenth centuries; (4) numerous plants brought over from China and Japan from the eighteenth century onward to the present day. Detailed attention is given to the potato and the pincapple.

LEA, FRANK T.

INDIAN BREAD MAKERS IN YOSEMITE. Overland 64: 24-26, illus. July 1914.

A brief account of the process of collecting and preparing acorns for food by the Yosemite Indians, a process which has been followed perhaps for centuries. The illustration shows one of the Indian bread makers posing in her cabin.

LLOYD, JOHN URI.

(703)

(702)

ORIGIN AND HISTORY OF ALL PHARMACOPOEIAL VEGETABLE DRUGS, CHEMICALS, AND PREPARATIONS WITH BIBLIOGRAPHY. VEGETABLE DRUGS. V. 1, 449 pp.,

iilus. Cincinnati, Caxton Press. 1921.

Prepared under the auspices of and published by the American Drug Manufacturers' Association, Washington, D. C. Consult table of contents and index for references to pertinent material. Bibliography, pp. 357-424.

LOESENER. THEODOR.

ÜBER MAYA-NAMEN UND NUTZANWENDUNG YUCATEKISCHER PFLANZEN. In Festschrift Eduard Seler, pp. 321-343. Stuttgart, Strecker und Schröder. 1922.

MALDONADO, ANGEL, and MALDONADO, EDUARDO.

(705)CONTRIBUCIÓN AL ESTUDIO DE LOS PRODUCTOS VEGETALES QUE SE ENCUENTRAN EN LOS "RESTOS DE COCINA" PRECOLOMBINOS DE TAMBO INGA. ASOC. Peruana Para Prog. Cien. Arch. (1921) 1:118-130, illus. Bibilografía, p. 130.

(700)

(701)

MARIE-VICTORIN, FRÈRE. (706)L'IDENTITE DU POGLUS (Heracleum Lanatum MICHX.). Nat. Canad. 46: 121-124. December 1919. MASON, OTIS TUFTON. (707)MIGRATION AND THE FOOD QUEST: A STUDY IN THE PEOPLING OF AMERICA. Smithsn. Inst. Ann. Rpt. 1894: 523-539. MASON, ROBERT LINDSAY. (708)TREE MYTHS OF THE CHEROKEES. Amer. Forests and Forest Life 35: 259-262, 300. illus. May 1929. MEJÍA XESSPE, M. T. (709)KAUSAY-ALIMENTACIÓN DE LOS INDIOS. Wira Kocha 1:9-24. January 1931. Summary by L. L. Bernard in Social Sci. Abs. 3:14975 (October 1931). MERRIAM, C. HART. (710)THE ACORN, A POSSIBLY NEGLECTED SOURCE OF FOOD. Natl. Geog. Mag. 34:129-137, illus. August 1918. Most of the article is devoted to the use and preparation of acorns by the Indians. (711)MILDBRAED, J. VON DEN BULUS GENUTZTE WILDWACHSENDE PFLANZEN DES SÜDKAMEBUNER WALDLANDES. 43 pp. Leipzig and Beriin, Wilhelm Engelmann. 1913. ([Berlin] K. Bot. Gart. u. Mus. Notizbl., app. 27. October 1913). (712)MORTON, F. S. THE ALASKAN INDIANS' BILL OF FARE. Rural New Yorker 76 (4417):234. Feb. 17, 1917. The diminishing Aleuts; wild vegetables; fish and meat; seaweed and berries; drying fish; housing conditions; a luxury in food. (713)MOSELEY, EDWIN LINCOLN. SOME PLANTS THAT WERE PROBABLY BROUGHT TO NORTHERN OHIO FROM THE WEST BY INDIANS. Mich. Acad. Sci., Arts, and Letters, Papers (1931) 13:169-172. (714)NEWBERRY, J. S. FOOD AND FIBER PLANTS OF THE NORTH AMERICAN INDIANS. Pop. Sci. Monthly 32: 31-46. November 1887. (715)PALMER, EDWARD. PLANTS USED BY THE INDIANS OF THE UNITED STATES. Amer. Nat. 12: 593-606, 646-655. 1878. Also in Amer. Jour. Pharm. 50 (11): 539-548, 586-592 (November 1878). The paper includes all the additional matter that came to the author's attention since the publication of his earlier version, "Food Products of the North American Indians," in U. S. Dept. Agr. Rpt. 1870: 404-428, illus. (716)PITTIER DE FABRÉOA, HENRY F. ETHNOGRAPHIC AND LINGUISTIC NOTES ON THE PAEZ INDIANS OF TIERRA ADENTRO, CAUCA, COLOMBIA. Amer. Anthrop. Assoc. Mem. 1: 301-356, illus. map. June 1907. Food, cultivated and other useful plants, pp. 321-324. (717)POPENOE, WILSON. BATIDO AND OTHER OUATEMALAN BEVERAGES PREPARED FROM CACAO. Amer. Anthrop. 21: 403-409, illus. October-December 1919. (718)POWERS. STEPHEN. ABORIOINAL BOTANY. Calif. Acad. Sci. Proc. (1873-74) 5: 373-379. "All the forms of the vegetable world which the aborigines use for medi-cine, food, textile fabrics, ornaments, etc." are considered as coming under the word botany as employed in this paper. See also ch. 38, Aboriginal Botany, pp. 419-431, of the same author's Tribes of California (Washington, Govt. Printing Off., 1877), issued by the Department of the Interior's United States Geographical and Geological Survey of the Rocky Mountain Region as v. 3 of his Contributions to North American Ethnology.

(719)REAGAN, ALBERT B. PLANTS USED BY THE BOIS FORT CHIPPEWA (OJIBWA) INDIANS OF MINNESOTA. Wis. Archeoi. 7: 230-248. July 1928.

MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE 86

REAGAN, ALBERT B.

PLANTS USED BY THE HOH AND QUILEUTE INDIANS. Kans. Acad. Sci. Trans. (1934) 37: 55-70.

"The Hoh and Quileute Indians . . . live on the west side of the Olympic peninsula, about due west of Seattle, Wash. The Quileutes occupy the village of La Push, which is near Mora, at the mouth of the Quillayute river, five miles down the coast from Cape Johnson and thirty-six miles down the coast southwest of Cape Flattery, while the Hohs live in the Indian viliage of Hoh at the mouth of the Hoh river, near Destruction Island, twelve miles southwest of La Push. These Indians were great users of the plants of the region in the old days, and still do use some of them."—p. 55.

(721)

(722)

(720)

PLANTS USED BY THE WHITE MOUNTAIN APACHE INDIANS OF ARIZONA. Wis. Archeol. 8: 143-161. July 1929. The present-day situation.

VARIOUS USES OF PLANTS BY WEST COAST INDIANS. Wash. Hist. Quart. 25: 133-137. April 1934.

Use of kinnikinick, an intoxicating herb; cascara sagrada bark used as medicine; salmon berry sprouts used in courting ceremonies long ago; pit baking; preparing various foods; various uses of cedar, other than that of cance manufacture; the cances; eating rootstalks of the horsetail plant; foxglove flowers for decorative purposes.

ROBBINS, WILFRED WILLIAM, HARRINGTON, JOHN PEABODY, and FREIRE-MARRECO, BARBARA.

ETHNOBOTANY OF THE TEWA INDIANS. U. S. BUR. Amer. Ethnol. Bul. 55, 124 pp., illus. 1916.

Bibliography, pp. 119-120.

RUSBY, HENRY H.

BEVERAGES OF VEGETABLE ORIGIN. N. Y. Bot. Gard. Jour. 5: 79-86. April 1904. Beverages made by the Indians from plants.

(725)

(726)

(731)

(724)

[WILD FOODS OF THE UNITED STATES.] Country Life [Garden City, N. Y.] 9: 718-719, 752, 754; 10: 66-69, 202-204, 220, 222, 224, 328-330, 340, 342, 344, 346, 348, 436-438, 448, 450, 452, 533-535, 564, 566, 598, 600, 602, 604; 11: 82, 84, 86, 88, 90, 92, 94, 456, 458, 546, ilius. April 1906-March 1907.

The titles of the installments vary. The subject is considered by the month in which the food plants are prominent. There are many illustrations.

RYDBERG, PER A.

PLANTS USED BY ANCIENT AMERICAN INDIANS. N. Y. Bot. Gard, Jour. 25: 204-205. July 1924.

Notes on the collections made by M. R. Giimore.

SAFFORD, WILLIAM EDWIN.

(727)AUNONA DIVERSIFOLIA, A CUSTARD APPLE OF THE AZTECS. Wash. Acad. Sci. Jour. 2: 118-125. Mar. 4, 1912.

(728)"CHENOPODIUM NUTTALLIAE," A FOOD PLANT OF THE AZTECS. Wash. Acad. Sci. Jour. 8: 521-527. Sept. 19, 1918.

(729)Cosmos Sulphureus, THE XOCHIPALLI OR FLOWER PAINT OF THE AZTECS. Wash. Acad. Sci. Jour. 8: 613-620. Nov. 19, 1918.

(730) THE REDISCOVERY OF THE XOCHINACAZTLI OF THE AZTECS, WITH NOTES ON MEXICAN ANNONACEAS. Science 33: 470. Mar. 24, 1911.

THE SACRED EAR-FLOWER OF THE AZTECS : XOCHINACAZTLI. Smithsn. Inst. Ann. Rpt. 1910: 427–431, iiius.

(732)SACRED FLOWERS OF THE AZTECS. Volta Rev. 14: 87-93, illus. May 1912. Aiso revised and reprinted separately.

SAFFORD, WILLIAM EDWIN.

USE OF NUTS BY THE ABORIOINAL AMERICANS. North. Nut Growers' Assoc. Rpt. (1923) 14: 54-60.

SAUNDERS, CHARLES FRANCIS.

THE YUCCA AND THE INDIAN. Amer. Bot. 17: 1-3. February 1911. SEARS. PAUL B.

(735)NATURAL VEGETATION IN RELATION TO THE MOUND BUILDERS AND LATER INDIANS. Okla. Acad. Sci. Proc. (1928) 8; 12-15.

The conclusions in this paper arc duc to work by two students. Anna Shephard and Mabel E. Bridges.

SHEA, AGNES.

CONSERVATION OF FOOD AMONG THE INDIANS. Overland Monthly (ser. 2) 72: 441-442. November 1918.

SMITH. HURON HERBERT.

(737)ETHNOBOTANY OF THE MENOMINI INDIANS. 174 pp. illus. Milwaukee, Wis., Published by order of the Trustees. 1923. (Milwaukee Pub. Mus. Bul., v. 4, No. 1.)

Foreword, pp. 8-9; introduction, pp. 10-14; Menomini vegetal medicines, pp. 14–20; Menomini medicinal plants, pp. 10–71; Menomini vegetal fiods, pp. 59–60; Menomini food plants, pp. 60–72; Menomini vegetal fibers, pp. 72–73; Menomini fiber plants, pp. 73–77; Menomini vegetal dyes, pp. 77; Menomini dye plants, pp. 77–79; miscellaneous uses of plants, pp. 79–82; finding list of plants by scientific name, pp. 83–92; by English name, pp. 92 - 102.

Review under the title "Uses of Native Plants by the Menomini," in Wis. Archeol. 3: 24-26 (January 1924).

(738)

(739)

(740)

(733)

(734)

(736)

ETHNOBOTANY OF THE MESKWAKI INDIANS. 177-326 pp., illus. Milwaukee, Wis., Published by order of the Trustees. 1928. (Milwaukee Pub. Mus. Bul., v. 4, No. 2.)

Vegetal medicines; medicinal materials; vegetal foods; food plants; vegetal fibers; fiber plants; vegetal dyes; dye plants; miscellaneous use of plants; finding list of plants, pp. 275-302. The Meskwaki reservation is in Tama County, Iowa.

SPARKMAN, PHILIP STEDMAN.

THE CULTURE OF THE LUISEÑO INDIANS. Calif. Univ. Pubs. Amer. Archaeol. and Ethnol. 8(4): 187-234. Berkeley, Univ. Press. 1908.

Vegetable food, pp. 193-197; articles made of plant fibers, pp. 202-203; plants used by the Luiseños, pp. 228-234.

SPINDEN, HERBERT JOSEPH.

THE NEZ PERCÉ INDIANS, Amer. Anthrop. Assoc. Mem. 2(3): 165-274. November 1908.

Food and its preparation, pp. 200-207, includes material on camas, pouse, other roots, berries, and famine foods. Bibliography, pp. 272-274.

(741)

(742)

ON THE GREATER USE OF INDIAN FOODS. Amer. Mus. Jour. 17(3): 189. March 1917.

A note written on the occasion of the campaigns to change food habits during the World War.

STEEDMAN, ELSIE VIAULT, EDITOR.

ETHNOBOTANY OF THE THOMPSON INDIANS OF BRITISH COLUMBIA; BASED ON FIELD NOTES BY JAMES A. TEIT. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1927-28) 45: 441-552.

Introduction; plants used as medicines, pp. 455-477; plants used as food, pp. 477-492; plants or parts of plants chewed; plants made into nonmedicinal pp. 411–452, plants or parts of plants chewed, plants inde into nonmedicinal drinks; plants used for smoking; plants used in manufacture; plants used in making dyes and paints; plants used as scents; plants used for purifica-tion; plants used as charms; plants concerning which there are special beliefs; plants mentioned in mythology; poisonous plants; plants used especially as horse and dog medicines; plants used as food by animals; alphabetical list of families with genera and species; alphabetical list of genera and species; index.

STEVENS, ORIN A.

USES OF PLANTS BY THE INDIANS. Science 52: 99-101. July 30, 1920.

A summary based on Item 680.

STEVENSON, MATILDA COXE.

ETHNOBOTANY OF THE ZUÑI INDIANS. U. S. Bur. Amer. Ethnoi. Ann. Rpt. (1908-09) 30: 31-102, liius.

Introduction, pp. 35-38; medical practices and medicinal plants, pp. 39-64; edible piants, pp. 65-76; use of plants in weaving, pp. 77-79; use of plants in dyeing, p. 80; use of plants in basketry, p. 81; use of plants in pottery decoration, p. 82; use of plants for the toilet, p. 83; use of plants in folklore, pp. 84-85; cian names and other names derived from plants, p. 86; ceremonial nses of plants, pp. 87–100; llst of plants, pp. 101–102. A summarizing review under the title "Ancient Botany of the Zuũl Indians"

in Sci. Amer. Sup. 82: 197 (Sept. 23, 1916).

STOUT, A. B.

VEGETABLE FOODS OF THE AMERICAN INDIANS. N. Y. Bot. Gard. Jour. 15: 50-60. March 1914.

STOWE, GERARD C.

PLANTS USED BY THE CHIPPEWA. Wis. Archeol. (n.s.) 21:8-13. April 1940.

Plants as medicine; plants as food; seasonings; vegetables; plants used as dyes; plants used as charms.

SWANTON, JOHN R.

CATAWABA NOTES. Wash. Acad. Sci. Jour. 8: 623-629. Nov. 19, 1918.

SWEETSER, ALBERT RADDIN.

WILD PLANTS OF THE NORTHWEST COAST. Oreg. Hist. Quart. 33: 51-59. March 1932.

"These notes consist of edited compilations from various sources. . Their purpose is simply to put into a form, easily available . . . a bit of the history of some of our common wild plants, the origin of their names. and some of the uses to which they were put by the Indians and early settlers."

Cow-parsnip (Heracleum), pp. 51-54; tobacco, pp. 54-56; kinnikinick, pp. 56-58; Oregon tca, yerba bucna, pp. 58-59.

TAYLOR, WILLIAM A.

THE FRUIT INDUSTRY, AND THE SUBSTITUTION OF DOMESTIC FOR FOREIGN-GROWN U. S. Dept. Agr. Yearbook 1897: 305-344, illus. FRUITS.

See especially Fruits Found and Used by the Early Colonists, pp. 305–307. This section is reprinted in U.S. Dept. Agr. Yearhook 1925: 110-111. See also Cuitivation of Native Fruits, pp. 307-308.

TESCHAUER, CARLOS.

(750)ALGUMAS NOTAS SOBRE ETHNOLOGIA E "FOLKLORE" NA FLORA E AVIFAUNA DO [Rlo de Janelro] Mus. Nac. Arch. (1919) 22: 221-230. BRASIL.

TORREY, JOHN.

OBSERVATIONS ON THE TUCKAHOE OR INDIAN BREAD OF THE SOUTHERN STATES . . . Med. Repository 21: 34-44. New York. 1821.

TRIMPLE. HENRY.

SOME INDIAN FOOD PLANTS. Amer. Jour. Pharm. 60: 593-595; 61: 4-6, 556-558; 62: 281-282, 598-600; 63: 525-527. 1888-1891.

Pt. 1, Shepherdia argentea; Pt. 2, Lewisia rediviva; Pt. 3, Peucedanum curycarpum; Pt. 4, Pcucedanum canbyi; Pt. 5, California soap plant, Chlorogalum pomeridianum; Pt. 6, Carum gairdncri.

TRUMBULL, J. HAMMOND.

WORDS DERIVED FROM INDIAN LANGUAGES OF NORTH AMERICA. Amer. Philoi. Assoc. Trans. 3: 19-32. 1872.

A considerable number of plant and cooking words are included.

TURNEY-HIGH, HARRY.

(754)COOKING CAMAS AND BITTER ROOT. Sci. Monthly 36: 262-263. March 1933.

The ways the Interlor Salish tribe of Fiatheads in western Montana prepared their staple vegetahie foods, the root of the camas (Quamasia quamash) and the bitterroot (Lewisia rediviva).

(751)

(752)

(753)

(744)

(746)

(747)

(748)

(749)

(743)

URBINA Y ALTAMIRANO, MANUEL. (755)RAÍCES COMESTIBLES ENTRE LOS ANTIGUOS MEXICANOS. MUS. Nac. Mex. An. (ser. 2) 3:117-190, 1906.

WAUOH, FREDERICK WILKERSON. (756)SOME NOTES ON ETHNO-BOTANY. Ottawa Nat. 31:27-29. May 1917.

WILL, GEORGE F.

(757)ADVENTURES IN PRESERVING AND IMPROVING INDIAN FOOD PLANTS. N. and S. Dak. Hort. 9:78, 82-84. July 1936.

Also with title "George F. Will's Studles of Indian Agriculture" in Dakota Farmer 56: 438-440 (Sept. 12, 1936).

WILSON, TOM.

THE USE OF WILD PLANTS AS FOOD BY INDIANS. Ottawa Nat. 30:17-21. May 1916.

WITTMACK, LUDWIG.

DIE NUTZPFLANZEN DER ALTEN PERUANER. 7th Internatl. Cong. Américanists, Berlin, Proc., 1888: 325-348.

(760)ÜBER BOHNEN AUS ALTERPERUANISCHEN GRÄBEN. Bot. Ver. der Brandenb. Verhandl. (1879) 21(1): 176-184.

Bibliographical footnotes.

WOLF, FREDERICK A.

THE FRUITING STAGE OF THE TUCKAHOE, pachyma cocas. Elisha Mitchell Sci. Soc. Jour. 38: 127-137, Illus. September 1922.

History; distribution; description of sclerotia; origin of sclerotia; forma-tion and structure of the sporophore; summary; and literature cited. "The name tuckahoe is of Indian origin and was applied by them to all to include only certain subterranean fungous growths or sclerotica... Pine root tissues are always included within this tuckahoe and It is apparently parasitic upon the roots of pine."—p. 135.

YANOVSKY, ELIAS.

FOOD PLANTS OF THE NORTH AMERICAN INDIANS. U. S. Dept. Agr. Misc. Pub. 237. 83 pp. 1936.

Foreword, p. 1; introduction, pp. 1-2; plants, pp. 2-64; literature cited, pp. 65-68; index, pp. 69-83.

"This publication is a summary of the records of food plants used by the Indians of the United States and Canada which have appeared in ethnobotanical publications during a period of nearly 80 years. This compilation, for which all accessible literature has been searched, was drawn up as a prellminary to work by the Bureau of Chemistry and Soils on the chemical constituents and food value of native North American plants."-Foreword.

Comment by Frank Thone under the title "Indian Market-Basket" in Sci. News-Letter 32: 222-223 (Oct. 2, 1937).

and KINGSBURY, R. M.

ANALYSES OF SOME INDIAN FOOD PLANTS. ASSOC. Off. Agr. Chem. Jour. 21:648-665. November 1938.

Contribution 138 from the Carbohydrate Research Division, Bureau of Chemistry and Soils, U. S. Department of Agriculture.

MEDICINAL PLANTS

ANONYMOUS.

PEYOTES; DATOS PARA SU ESTUDIO. Inst. Mcd. Nac. Mex. An. 4: 203-214, illus. 1900.

ALBES, EDWARD.

QUININE : A SOUTH AMERICAN GIFT TO HUMANITY. Pan. Amer. Union Bul. 42: 61-78, Illus. January 1916.

Commented on In Geog. Rev. 1:375 (May 1916).

ARCHER, W. ANDREW. THE DENTAL PLANT OF THE CITARÁ INDIANS IN COLOMBIA. Wash. Acad. Scl. Jour. 24:402-404. Sept. 15, 1934.

The Citará Indians use the "querá" plant to blacken their teeth.

(761)

(758)

(759)

(762)

(763)

(764)(765)

(766)

BEALS, CARLETON. (767) THE DRUO EATERS OF THE HIOH ANDES. Travel 70(2):29-31, 40, illus. De- cember 1937.
Use of cocaine by Indians of Peru and Bolivia.
BLAIR, THOMAS S. (768) HABIT INDULGENCE IN CERTAIN CACTACEOUS PLANTS AMONG THE INDIANS Amer. Med. Assoc. Jour. 76: 1033-1034. Apr. 9, 1921. The mescal button or peyote.
(500)
BRAUBACH, CHARLES. ((69) MEDICINAL PLANTS OF THE AZTECS WHICH ARE STILL IN COMMON USE IN MEXICO. Pharm. Assoc. Jour. 14:498-505. June 1925. The vernacular names are used.
BROOKS, HARLOW (KISHKA TANU). (770)
THE MEDICINE OF THE AMERICAN INDIAN. N. Y. Acad. Med. Bul. (ser. 2) 5:509-537. June 1929.
Medicinal piants, pp. 525–531.
BURHAM, H. M. (771) PHARMACY OF THE RED MEN. Maine Pharm. Assoc. Proc. 1916:31-33.
CADZOW, DONALD A. (772) THE VANISHING AMERICAN INDIAN MEDICINE-MAN. Sci. Amer. 140: 418-420, ilius. May 1929.
"With the passing of the tribal wise men, the secrets of the remedies used by these primitive practitioners are being lost to the world."—Subtitle.
CAIRNS, HUNTINGTON. (773) A DIVINE INTOXICANT. Atlantic Monthly 144:638-645. November 1929.
"The peyote cactus (Lophophora williamsii or Lophophora lewinii) is a spineless cactus shaped like a carrot or turnip. The mescal button is the dried flowerlike top of the cactus. The drug mescal should not be con- fused with the Mexican drink of the same name The name 'peyote' is from the Aztec peyotl." The peyote cuit among the Indians and the experiments by white men to ascertain its psychological and physiological effects.
CERNA, DAVID. (774)
THE PHARMACOLOGY OF THE ANCIENT MEXICANS. Ann. Med. Hist. (n. s.) 4:298-305. May 1932.
CHARLEUX, A. (775) EEN BOTANISCHE CURIOSITEIT. Indische Cult. (Teysmannia) 13:18–20, illus. Jan. 1, 1928. The peyote festivals in Mexico.
CLARK, CHARLES UPSON. (776) THE MANUSCRIPT OF FRAY ANTONIO VASQUES DE ESPINOZAS "DESCRIPCIÓN DE LAS INDIAS." 24th Internatl. Cong. Americanists, Hamburg, Proc. 1930: 19-25. 1934.
CRUZ, MARTIN DE LA. (777) THE BADIANUS MANUSCRIPT (CODEX BARBEBINI, LATIN 241)VATICAN LIBRARY; AN AZTEC HERBAL OF 1522. Introduct., trans., and annot, by Emily Wal- cott Emmart with foreword by Henry E. Sigerist. 341 pp., illus. Balti- more, Johns Hopkins Press. 1940.
Foreward, pp. ix-xi; Preface, p. xii-xxiv; Introduction: 1. Description of the Manuscript, pp. 3-10; 2. Discovery of the Manuscript and the Italian Copy, pp. 11-13; 3. Historical Background of the Manuscript, pp. 14-28; 4. Illustrations and Symbols (Illustrations; color pigments; sym- bolism), pp. 29-41; 5. Mythology and Medicine, pp. 42-48; 6. Modes of Treatment, pp. 49-53; 7. Materia Medica (of animal origin; of Bezoars; of stones and earths; of plant origin), pp. 54-70; 8. Aztec Herb Gardens, pp. 71-81. Facsimile of the Badianus Manuscript, pp. 83-202. Transcrip- tion, Translation, Comments, and Footnotes, pp. 205-325. Indices (Aztec; botanical; animals; stones, earths and minerals; materia medica; maladies), pp. 327-338; Bibliography, p. 339-341.

CBUZ, MARTÍN NE LA-Continued.

The Badianus manuscript is also translated by Emily Walcott Emmart under the title "An Aztec Medical Treatise, the Badianus Manuscript (Codex Barberini, Latin 241)," in Johns Hopkins Inst. Hist. Med. Bul. 3:483-506 (1935). See also Emily Walcott Emmart, "Concerning the Badianus Manuscript, an Aztec Herbal, Codex Barberini, Latin 241 (Vatican Library)," Smithsn. Misc. Collect. 94(2): 1-14, illus. (May 18, 1935); and "Medical Writings by Aztecs Translated," in Washington Daily News, Mar. 22, 1933, p. 22.

Review by H. S. Reed in Chron. Bot. 6 (1): 22-23 (Oct. 7, 1940).

EWELL, E. E.

THE CHEMISTRY OF THE CACTACEAE [PEYOTE]. Amer. Chem. Soc. Jour. 18: 624-643. 1896.

GAILI, IONAZIO.

(779)LA MEDICINA E LA BOTANICA DEOLI ANTICHI MESSICANI. Accad. Pontificia del Nuovi Lincei. Atti (1910-11) 64:31-34.

GALLOP, RODNEY.

MAGIC AND MEDICINE IN MEXICO. Cornhill Mag. 159:191-201. February 1939.

"Folk medicine in Mexico as in most countries is a fascinating blend of superstition and of genuine empirical medicinal lore."-p. 191. Many of the plants used are discussed.

GEARE, R. I.

THE CONSUMPTION OF PEYOTE AMONG THE INDIANS. Merck's Rpt. 22:109-110, illus. May 1913.

"There grows in the arid hills along the Rio Grande, and southward in Mexico, a small cactus (Lophophora) which is popularly known as 'Peyote' and which was formerly, and is still, much used for ceremonial and medicinal purposes by all the Indian tribes between the Rocky mountains and the Gulf of Mexico, from Arkansas River southward almost to the City of Mexico."

GERSTE, ACHILLE.

(782)

NOTES SUR LA MÉDECINE ET LA BOTANIQUE DES ANCIENS MEXICAINS. 161 pp. Imprimerie Polyglotte Vaticane. 1909. Rome.

1, La Medecine Indigène, au XVI^e Siècle; 2, La Médecine Précolombienne; 3, La Magie Medicale; 4, La Thérapeutique; 5, La Botanique Indigène; 6, Science Rudimentaire des Végétaux; 7, Iconographie Conventionnelle; 8, Iconographie Figurative; 9, Taxinomie Végétale; 10, Classifications Diverses; 11, Ébauche de Géographie Botanique; 12, Les Fleurs Dans la Poésie Nahua; De Quelques Travaux Récents Sur la Botanique Et la Médicine des Anciens Mexicains, pp. 147-157; Extrait de la Revue des Questions Scientifiques, 1887-1888; Bibliographical footnotes.

GILL, RICHARD C.

(783)

HERBS AND SIMPLES-JUNGLE STYLE. Nat. Hist. 41: 29-33, 76. January 1938. GBOSOURDY, RENATO DE.

(784)EL MÉDICO POTÁICO CRIOLLO. Paris, Libreria de Francisco Brauchet. 1864. Part 1, Flora Méica y Útil de las Antillas y de la Parte Correspondiente del Continente Americano: v. 1, Conteniendo la Botánica Elemental, el Método Dicotómico, etc.; v. 2, Conteniendo las Familias y Terminando por dos Apéndices, uno Sobre las Maderas Útiles de Esos Países y Otro Sobre la Agricultura Apropiada á Ellos.

GUIE, HEISTEB DEAN.

NATURE AND THE NORTHWESTERN RED MAN; MANY PLANTS STILL USED IN MAK-INO CHARMS AND "MEDICINE." Nature Mag. 32: 71-73, illus. February 1939.

Present-day practices in uses of medicinal plants.

HAGENBUCK, I.

CALIFOBNIA HERB LORE. Erythea 5: 39, 97. March, September 1897. 200256-41--7

(786)

(785)

(778)

(780)

(781)

MISC. PUBLICATION 447, U. S. DEPT. OF AGRICULTURE 92 (787) HARMS, HERMANN. ÜBER DOS NARCOTICUM PEYOTE DER ALTEN MEXIKANER. Monatsschr. f. Kakteenk. 31: 90-92. 1921. Brief description of the botany, use, and drugging effect of peyote. Based principally on item 823. (788)HERBERT, LESTER G. WHAT DID THE INDIANS KNOW ABOUT MEDICINES AND HEALING TREATMENTS? Med. Jour. and Rec. 123: 22-24, 117-119. Jan. 6, 20, 1926. List of vegetable drugs, pp. 24, 117-118. (789)HOLMES, E. M. MEDICINAL PLANTS USED BY THE CREE INDIANS, HUDSON'S BAY TERRITORY. Pharm. Jour. and Trans. [London] (ser. 3) 15: 302-304. Oct. 18, 1884. Notes on recent donations to the Pharmaceutical Society Museum. (790) HUNTER, JOHN DUNN. MANNERS AND CUSTOMS OF SEVERAL INDIAN TRIBES LOCATED WEST OF THE MISSISSIPPI; INCLUDING SOME ACCOUNT OF THE SOIL, CLIMATE, AND VEGETABLE PRODUCTIONS, AND THE INDIAN MATERIA MEDICA . . . 402 pp. Philadelphia, printed and published for the author by J. Maxwell. 1823. Materia medica, pp. 368-395. (791)JOHANNESSOHN, FRITZ. VERSCHIEDENES; ZUR OESCHICHTE DES CHININS. München. Med. Wchnschr. 78: 843-844. May 15, 1931. Abstract by P. Lieff in Social Sci. Abs. 4: 7317 (May 1932). (792)JONES, HOWARD. ABORIOINAL MEDICINE. Med. Jour. and Rec. 137: 34-35, 78-80. Jan. 4, 18, 1933. The medical practice of the Indians along the St. Lawrence River and its tributaries, based largely on the Jesuit "Relations." (793)THE PRACTICE OF MEDICINE AMONG OUR ABORIGINES. Ann. Med. Hist. (n. s.) 2: 436-439. July 1930. The material is from Edna Kenton, ed., The Indians of North America. (New York, Harcourt, Brace & Co., 1928, 2 v., illus.). LA WALL, CHARLES H. (794)THE HISTORY OF QUININE. Med. Life 38: 195-216. April 1931. Summary by C. R. Hall in Social Sci. Abs. 4: 12970 (August 1932). LEECHMAN. DOUOLAS. (795)ABORIGINAL PAINTS AND DYES IN CANADA. Roy. Soc. Canada, Trans. (ser. 3) 26 (2): 37-42. May 1932. MACREYNOLDS, GEORGE. (796)MEDICAL USE OF PLANTS BY INDIANS. Bucks Co. Hist. Soc. Papers (1917) 4: 415-421. MARTÍNEZ, JAVIER. (797)

LA MÉDECINE PRÉCOLOMBIENNE AU MEXIQUE. 46 pp. Paris, Jouve et'cie. [1934?].

Thèse pour le doctorate de l'Université de Paris.

MASON, ROBERT LINDSAY.

CHEROKEE PLANT LORE OF THE SMOKIES. Nature Mag. 19: 343-347, illus. June 1932.

(798)

(800)

MAXWELL, HU.

(799)INDIAN MEDICINES MADE FROM TREES. Amer. Forestry. 24: 205-211, illus. April 1918.

Also under the title "Indian Medicines; Numerous Popular Remedies Obtained from Forest Trees" in Sci. Amer. Sup. 86: 100-103, illus. (Aug. 17, 1918).

MAZZINI, GIUSEPPE.

I MEDICI E LA MEDICINA DEL PERU INCAICO. Archelon (Roma) 13: 408-423. Ottobre-Decembre 1931.

Physicians and medicine among the Incas of Peru. Bibliography, pp. 422-423.

MENA, RAMON.

STONE-AGE SURGEONS HAD MODERN SKILL, Pop. Sci. Monthly 120 (2): 22-23. 128, 129, illus. February 1932.

Medicai as distinct from ceremonial practices.

METTEL.	BILLIE	TEEL

MEDICINE IN ANCIENT AMERICA. Hygeia 13: 342-344, illus. April 1935.

MILLSPAUGH, CHARLES FREDERICK.

MEDICINAL PLANTS; AN ILLUSTRATED AND DESCRIPTIVE GUIDE TO PLANTS IN-DIGENOUS TO AND NATURALIZED IN THE UNITED STATES WHICH ARE USED IN MEDICINE, THEIR DESCRIPTION, ORIGIN, HISTORY, PREPARATION, CHEMISTRY, AND MEDICINE, THEIR DESCRIPTION, ORIGIN, HISTORY, PREPARATION, CHEMISTRY, AND PHYSIOLOGICAL EFFECTS FULLY DESCRIBED. 2 v., illus. Philadelphia, J. C. Yorston & Co. 1892.

First published in 1887 with the title American Medical Plants; An illustrated and Descriptive Guide to the American Plants Used as Homeopathic Remedies. Bibliography, v. 2, Appendix, pp. 23-25. Bihliographical index to the general works consulted, v. 2, Appendix, pp. 27-42.

MOONEY, JAMES.

THE SACRED FORMULAS OF THE CHEROKEES. U. S. Bur. Amer. Ethnoi. Ann. Rpt. (1885-86) 7: 301-397, illus.

Selected list of plants used by Indian doctors, pp. 324-328.

- and OLBRECHTS, FRANS M.

(805)

(806)

(807)

(808)

(809)

THE SWIMMER MANUSCRIPT, CHEROKEE SACRED FORMULAS AND MEDICINAL PRE-SCRIPTIONS. U. S. Bur. Amer. Ethnoi. Bui. 99. 319 p., illus. 1932.

MURPHY. HH.

INDIAN MEDICINE, Canad. Med. Assoc. Jour. 17: 725-727. June 1927.

NEUBURGER. MAX.

ESSAYS IN THE HISTORY OF MEDICINE. Translated by various hands and edited, with foreword, by Fielding H. Garrison. 210 pp. New York, Medical Life Press. 1930.

See especially ch. 3, The Medicine of the Ancient Mexicans, translated hy John Ruhräh, pp. 37-54. It is also printed in Medical Life 37: 405-415 (August 1930). It mentions vegetable medicines and states that many of the Aztecs had botanical gardens in which they grew materia medica and that "Mexican botany described more than 1,200 plants."

NEWBERNE, ROBERT EDWARD LEE.

PEYOTE; AN ABRIDGED COMPILATION FROM THE FILES OF THE BUREAU OF INDIAN AFFAIRS. 38 pp., ilius. Washington, Govt. Printing Off. 1922.

Report on the nature and effects of peyote and its use among the Indians.

OPLER, MORRIS EDWARD.

DESCRIPTION OF TONKAWA PHYOTE MEETING HELD IN 1902. Amer. Anthrop. 41: 433-439. July-September 1939.

(810)

THE INFLUENCE OF ABORIGINAL PATTERN AND WHITE CONTACT ON A RECENTLY INTRODUCED CEREMONY, THE MESCALERO PEYOTE RITE. Jour. Amer. Folk-iore 49: 143-166. January-June 1936.

Mainly ceremonial aspects.

USE OF PEYOTE BY THE CARRIZO AND LIPAN APACHE TRIBES. Amer. Anthrop. 40: 271-285. April-June 1938.

Given in the words of a Lipan tribe member.

PARKER, ARTHUR C.

(812)

(811)

INDIAN MEDICINE AND MEDICINE MEN. Ontario Mus. Ann. Archaeol. Rpt. (1928) 36: 9-17. Toronto, King's Printer. 1929.

Materia medica, pp. 11-15; present status of Indian medicine, pp. 16-17.

PETRULLO, VICENZO.

THE DIABOLIC ROOT; A STUDY OF PEYOTISM, THE NEW INDIAN RELIGION, AMONG THE DELAWARES. 185 pp., ilius. Philadelphia, Univ. Pa. Press. 1934.

Bihliography pp. 183-185. Reviews hy T. C. H. in Geog. Jour. 85: 194 (February 1935); and Rupert N. Richardson in Southwest. Social Sci. Quart. 15: 352-353 (March 1935).

(802)

(803)

(801)

(804)

RAMIREZ, JOSÉ.

EL PEYOTE ANHALONIUM LEWINI Y ANHALONIUM WILLIANSII [Sic.], CACTEAS. Inst. Méd. Nac. Mcx. An. 4: 233-250. 1900. Bibliografía, pp. 249-250.

SOME CHIPPEWA MEDICINAL RECEIPTS, Amer. Anthrop. 23: 246-249. April-June 1921.

The receipts here given were copied by the author while he was an Indian agent at Nett Lake, Minn., from the notcbook of a Bois Fort medicine man.

SOME MEDICINAL RECEIPTS OF THE BOIS FORT CHIPPEWAS. Minn. Med. 10:302. May 1927.

Notebook of George Farmer (Ne-ba-day-ke-shi-go-kay), a medicine man, containing medicinal receipts all of which called for roots, bark, leaves, etc.

REDFIELD, ROBERT.

REMEDIAL PLANTS OF TEPOZTLAN; A MEXICAN FOLK HERBAL. Wash. Acad. Scl. Jour. 18: 216-226. Apr. 19, 1928.

The material was gathered in the course of an ethnological study of a Mexican village, made possible by a fellowship granted in 1926-27 by the Social Science Research Council. The identification of the plants listed was made by Paul C. Standley of the United States National Museum. The Compositae were identified by S. F. Blake of the U. S. Department of Agriculture.

REINBURG, P.

(818) CONTRIBUTION À L'ÉTUDE DES BOISSONS TOXIQUES DES INDIENS DU NORT-OUEST DE L'AMAZONE, L'AYAHUÁSCA-LE YAJÉ-LE HUANTO. Soc. des Américanistes de Paris Jour. 13: 25-54, 197-216. 1921.

Abstract by Em. Perrot in Bul. des Sci. Pharmacol. 30: 107-110 (February 1923). Bibliographical footnotes.

ROUHIER, ALEXANDRE.

(819)

(820)

·(814)

(815)

(816)

(817)

LA PLANTE QUI FAIT LES YEAUX ÉMERVEILLIÉS; LE PEYOTL (Echinocactus williamsii LEM). Préface de Em. Perrot, 371 pp., illus., map. Paris, G. Doin. 1927.

Pt. 1, Origine Géographique et Botanique, étude de la drogue sèche; Pt. 2, . Historique et Ethnologie; Pt. 3, Chimie, Pharmacologie et Possibilitiés Thérapcutiques.

Bibliographie botanlque, pp. 71-72; bibliographie, pp. 359-367; Origine.

SAFFORD, WILLIAM EDWIN.

AN AZTEC NARCOTIC (Lophophora williamsii). Jour. Hered. 6: 291-311. illus. July 1915.

"So-called 'sacred mushroom,' or teonanacatl, still in use by the Indians of Mexico and the United States, producing hallucinations of a remarkable nature, is identified with the peyotl zacatecensis, or Devils' root of ancient Mexico, and the 'mescal button' of Texas."-Subtitle.

Based on a paper entitled "Identification of the Teonanacatl, or 'Sacred Mushroom' of the Aztecs with the narcotic cactus, *Lophophora*, and an account of its ceremonial use in ancient and modern times," read before the Botanical Society of Washington on May 4, 1915.

Methods of exorcism; early history of Teonanacatl; determination of the drug ; identity with the narcotic peyotl ; raïz diabólica, or devil's root ; cacalia, also called peyotl; the Genus Lophophora; Lophophora williamsii; gcographical distribution; chemical history of the drug; physiological action; ceremonial use by the Indians; amon gthe Tarahumaris; use by the Huicholes of Jalisco; present use in the United States; the Peyote society; among the Omaha Indians; use in ancient Mexico; summary.

(821)

DATURAS OF THE OLD WORLD AND NEW; AN ACCOUNT OF THEIR NABCOTIC PROPERTIES AND THEIR USE IN ORACULAR AND INITIATORY CEREMONIES. Smithsn. Inst. Ann. Rpt. 1920: 537-567, illus.

Also issued as Smlthsn. Inst. Pub. 2644.

REAGAN, ALBERT B.

SAFFORD, WILLIAM EDWIN.

(822) IDENTITY OF COHODA, THE NARCOTIC SNUFF OF ANCIENT HAITI. Wash. Acad. Scl. Jour. 6: 547-562. Sept. 19, 1916.

Earliest accounts of cohoba ; the cohoba tree still persists in Haitl ; narcotlc snuffs of South America; Humboidt's description; rubber syringes of the Omaguas; account of Spix and Martlus; Robert Southey's account of Parica snuff; identity of trees yielding snuff; cebii and huiilca snuff of Argentina and Peru; botanlcal description of cohoba; geographical distribution; chemlcai properties and physiological action; summary. Bibliographical footnotes.

NARCOTIC PLANTS AND STIMULANTS OF THE ANCIENT AMERICANS. Smlthsn. Inst. Ann. Rpt. 1916: 387-424, illus.

Also issued as Smithsn. Inst. Pub. 2466.

Tobacco; cohoba snuff of the anclent Haitians; the red bean of northern Mexico and Texas; Mexican plant worship; Lophophora williamsii, the so-called sacred mushroom; narcotic daturas; the sacred oloiluhqui of the Aztecs; coca, the source of cocaine; ayahuásca, or dead man's vine, Bansteria caapi; guaraná; chocolate.

PEYOTE, THE NARCOTIC MESCAL DUTTON OF THE INDIANS. Amer. Med. Assoc. Jour. 77: 1278-1279. Oct. 15, 1921.

SCHULTES, RICHARD EVANS.

APPEAL OF PEYOTE (Lophophora williamsii) AS A MEDICINE. Amer. Anthrop. 40: 698-715, illus. Octobre-December 1938.

Peyote popularity due to supposed therapeutlc rather than vision-producing properties. Bibliography, pp. 712–715. Reply by Weston LaBarre, Amer. Anthrop. 41: 340–342 (April-June 1939).

PEYOTE AND THE AMERICAN INDIAN. Nature Mag. 30: 155-157, ilius. September 1937.

Same condensed under the tltle "Peyote Cult" In Lit. Digest 124 (18): 24, 26 (Nov. 13, 1937).

SHONLE, RUTH.

PEYOTE, THE OIVER OF VISIONS. Amer. Anthrop. 27: 53-75, lius., map. January-March 1925.

The ceremonial aspects of using peyote. Blbiiography, pp. 74-75.

SMITH, HARLAN I.

MATERIA MEDICA OF THE BELLA COOLA AND NEIGHDOURING TRIBES OF DRITISH COLUMBIA. Canad. Natl. Mus. Ann. Rpt. Bui. 56: 47-68. 1927.

The materia medica of four tribes of Brltish Columbia, the Beila Coola Valley, the Gitksan of Skenna River, the Carrier who live in the territory behind both of these tribes, and the Sikani of the headquarters of Peace River.

SPECK, FRANK G.

(829)

(830)

(831)

(832)

· (823)

(824)

(825)

(826)

(827)

(828)

MEDICINE PRACTICES OF THE NORTHEASTERN ALGONQUIANS. 19th Internati. Cong. Americanists, Washington, Proc. 1915: 303-321. Washington. 1917.

List of works cited, pp. 321.

STEOOERDA, MOBRIS.

PLANTS OF JAMAICA USED BY NATIVES FOR MEDICINAL PURPOSES. Amer. Anthrop. 31: 431-434. July-September 1929.

STONE, ERIC.

MEDICINE AMONO THE AMERICAN INDIANS. 139 pp., ilius., map. New York, P. B. Hoeber. 1932. (Clio medica: a series of primers on the history of medicine, 7.)

Analysis of the beliefs and practices of various tribes, the plants used, and methods of usc.

MEDICINE AMONO THE IROQUOIS. Amer. Med. Hist. (n. s.) 6: 529-539. November 1934.

SWANSON, JOHN REED.

RELIGIOUS BELIEFS AND MEDICAL PRACTICES OF THE CREEK INDIANS. U. S. BUT. Amer. Ethnoi. Ann. Rpt. (1924-25) 42: 473-672, ilius.

Creek medicines, pp. 639-663; Alabama medicines, pp. 663-666; Natchez medicines, pp. 666-670; Bibliography, p. 672. (834)

SOCIAL AND RELIGIOUS BELIEFS AND USACES OF THE CHICKASAW INDIANS. U. S. Bur. Amer. Ethnol. Ann. Rpt. (1926-27) 44: 169-273.

Doctrines and medicines, pp. 263-272; bibliography, p. 273.

TANTAQUIDGEON, GLADYS.

NOTES ON THE ORIGIN AND USES OF PLANTS OF THE LAKE ST. JOHN MONTAONAIS. Jour. Amer. Foik-lore 45: 265-267. Aprii-June 1932.

The uses of plants for medicinal purposes by the Montagnais of Lake St. John at Pointe Bleue, Quebec, Canada.

TRABUT. LOUIS.

LE PEYOTE (Echinocactus williamsii). Rev. Hort. de l'Aigérie 32: 5-8, illus. January 1928.

UEBINA, MANUEL.

EL PEYOTE Y EL OLOLJUHQUI. Mus. Nac. Mex. An. (1900) 7: 25-48, illus.

History; ethnology; botany; physical and chemical characteristics; physiological effects; therapeutic uses; the oloiiuhqui. Also in Naturaleza (ser. 3) 1: 131-154 (1912).

VILLIERS. MARC DE.

RECETTES MÉDICALES EMPLOYÉES DANS LA RÈGION DES ILLINOIS VERS 1724. Soc. Américanistes de Paris Jour. (n. s.) 18: 15-20. 1926.

Rapport des sauvages sur les mines et simples du pays du Mississipy, pp. 16-17; médecines, pp. 17-19; remèdes des sauvages, pp. 19-20; du mot Mississipy, p. 20.

WALLIS, WILSON D.

MEDICINES USED BY THE MICMAC INDIANS. Amer. Anthrop. 24: 24-30. January-March 1922.

"The following list of diseases and their treatment was obtained by the author from native informants of the Micmac tribe (settlement at Pictou Landing, Nova Scotia) in the summers of 1911 and 1912. This information I submitted to Dr. Wilson Wood, then of the facuity of the Medical School of the University of Pennsylvania, who furnished observations regarding the value of the cures which are here appended. Dr. Wood's observations have been put in brackets."

WOOD. GEORGE B.

DISSERTATION UPON THE SUBJECT OF PERUVIAN BARK. Phila, Col. Pharm. Jour. 3: 22-38, 96-118. April, July 1831.

The sources, the different botanical varieties of cinchona, and the routes by which supplies enter commerce and arrive at the point of distribution and use.

YOUNOKEN, HEBER W.

THE DRUOS OF THE NORTH AMERICAN INDIANS. Amer. Jour. Phar. 96: 485-502; 97: 158-185, 257-271. July 1924, March, April 1925.

Literature cited, pp. 270-271. The first installment is also printed in Pop. Sci. Talks (1923-24) 2: 213-230. It was delivered as one of a series of popular lectures at the Philadelphia College of Pharmacy and Science, 1923-24. The author, a professor of materia medica and pharmacognosy at the Massachusetts College of Pharmacy, gives chief attention to vegetable drugs.

See also items 18, 20, 90, 101, 105, 109, 224, 246, 305, 326-327, 359, 478, 644, 650, 655, 665, 674, 703, 718, 737-738, 742, 744, 746.

(836)

(835)

(833)

(837)

(838)

(839)

(841)

(840)

INDEA

11	Une
ABBOTT, F. H	511
A binonog	421
Abipones	121
Acorns 24, 702,	710
Ree also Nuta	
Administration of Indians 21 5	20
K09 897 875 509 800 800 809 807	014
525, 521, 515, 555, 555-000, 005, 001,	014
Adobe brick analysis	31
Agave 3, 5, 18, 120, 1	264
Administration of Indians21, t 523, 527, 575, 593, 599–600, 603, 607, Adobe brick analysis3, 5, 18, 120, Agave3, 5, 18, 120,	
	117
types See Ferming types	++ •]
types, see raiming, types.	
see also under specific crops; spe-	
types. See Farming, types. See also under specific crops; spe- cific geographical regions; specific tribes of Indians.	1
tribes of Indians.	
Ahuacotl	5
	440
Aje150, Alabama21, 249,	1100
Alabama 21, 249,	833
See also Chickasaws; Choctaws;	
Aje150, Alabama21,249, See also Chickasaws; Choctaws; Creeks.	1000
Alaska 684,	719
Alaska684, Aibemarie County, Virginia684,	210
Albentarie County, virginia	010
Alberta. Nee Canada.	
ALBES, EDWARD 331, 483.	765
ALCOCER, G. V	637
Alouts	712
Algonauing OF 00 494	800
Algonquins 50, 99, 454,	E 10
ALLEN, E. P	91Z
Alaska 684, Alberate County, Virginia 684, Alberta. See Canada. ALDES, EDWARD 331, 483, ALCOER, G. V	415
Ailotment policy	501,
526, 542, 549, 575, 577, 603,	607
14monda 020, 012, 010, 010, 011, 000,	196
Aimonds 90,	130
Aloes	20
Alpacas 151,	173
Alpacas151, ALTAMIBANO, FERNANDO126- Amaranthus126-	638
Amaranthus 126-	127
A multillas	673
American Ethnobotanical Garden	010
American Farm Bureau Federation	56.5
4	625
Ammooroma sonorae 309.	000
AMEDEN C A 30-31.	252
Amsolen, C. A	252
Ammooroma sonorae 309. AMSDEN, C. A 30-31, ANDRADE, A. A. DE	252 639
Ammooroma sonorae 305, AMSDEN, C. A 30-31, ANDRADE, A. A. DE Andropogoneae	252 639 381
Ammooroma sonorae	252 639 381 814
American Farm Bureau Federation	
Annulonvun www.unov	2
Animals	2
Animals 5, 23-24, 33, 88, 66, 90, 112, 134, 1 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffaloes; Carl- bou: Dogs: Horses: Livestock;	2
Animals 5, 23-24, 33, 88, 66, 90, 112, 134, 1 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffaloes; Carl- bou: Dogs: Horses: Livestock;	3, 148. 777
Animals	3, 148, 777
Animals	3, 148, 777
Animals - 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 604, See also Aipacas; Buffalces; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia Annona eae - 90,	3, 148, 777
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia90, Anyus90,	3, 148, 777 727 730 148
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffalces; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia90, Anyus90,	3, 148, 777 727 730 148 265
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffalces; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia90, Anyus90,	3, 148, 777 727 730 148 265
Animalis Animalis 5, 23-24, 33, 88, 66, 90, 112, 134, 1 156, 168, 180, 289, 305, 586, 604, See also Alpacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annonactiversifolia Annonactiversifolia Annonactiversifolia Annonactiversifolia Annonactiversifolia Annonactiversifolia Annonactiversifolia 539-540, 548, 559, 598, 721, 810- See also Arizona: New Mexico.	3, 148, 777 727 730 148 265, -811
Animalis Animalis 5, 23-24, 33, 88, 66, 90, 112, 134, 1 156, 168, 180, 289, 305, 586, 604, See also Alpacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annonactiversifolia Annonactiversifolia Annonactiversifolia Annonactiversifolia Annonactiversifolia Annonactiversifolia Annonactiversifolia 539-540, 548, 559, 598, 721, 810- See also Arizona: New Mexico.	3, 148, 777 727 730 148 265, -811
Animals Animals 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 604, See also Aipacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona eae Anyus Apaches 539-540, 548, 559, 598, 721, 810 See also Arizona; New Mexico. Apiculture 24	727 727 730 148 205, -811 328 253
Animals Animals 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 604, See also Aipacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona eae Anyus Apaches 539-540, 548, 559, 598, 721, 810 See also Arizona; New Mexico. Apiculture 24	727 727 730 148 205, -811 328 253
Animals Animals 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 604, See also Aipacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona eae Anyus Apaches 539-540, 548, 559, 598, 721, 810 See also Arizona; New Mexico. Apiculture 24	727 727 730 148 205, -811 328 253
Animals Animals 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 604, See also Aipacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona eae Anyus Apaches 539-540, 548, 559, 598, 721, 810 See also Arizona; New Mexico. Apiculture 24	727 727 730 148 205, -811 328 253
Animals Animals 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 604, See also Aipacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona eae Anyus Apaches 539-540, 548, 559, 598, 721, 810 See also Arizona; New Mexico. Apiculture 24	727 727 730 148 205, -811 328 253
Animals Animals 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 604, See also Aipacas; Buffaloes; Carl- bou; Dogs; Horses; Livestock; Llamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona eae Anyus Apaches 539-540, 548, 559, 598, 721, 810 See also Arizona; New Mexico. Apiculture 24	727 727 730 148 205, -811 328 253
Animalis	727 727 730 148 265, -811 328 253 766 418 458
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffalces; Carlbou; Dogs; Horses; Livestock; Liamas; Musk oxen; Sheep. Annonac diversifolia Annona diversifolia Annonaceae Apaches 539-540, 548, 559, 598, 721, 810- See also Arizona; New Mexico. Apiculture 134, Aqueducts See also Irrigation. Arikaras Arikaras 253, 261, 267-274, 277-282, 287-201-294, 296, 300, 302, 304-305, 53 311, 313-314, 344, 363, 391, 403. 408, 410, 516, 534, 556, 560-561, t 572, 500, 695. See also Apaches; Horpis; Navajos;	3, 148, 777 727 727 727 148 205, -811 328 205, -811 328 253 766 418 458 256, 288, -100- 405, 770-
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffalces; Carlbou; Dogs; Horses; Livestock; Liamas; Musk oxen; Sheep. Annonac diversifolia Annona diversifolia Annonaceae Apaches 539-540, 548, 559, 598, 721, 810- See also Arizona; New Mexico. Apiculture 134, Aqueducts See also Irrigation. Arikaras Arikaras 253, 261, 267-274, 277-282, 287-201-294, 296, 300, 302, 304-305, 53 311, 313-314, 344, 363, 391, 403. 408, 410, 516, 534, 556, 560-561, t 572, 500, 695. See also Apaches; Horpis; Navajos;	3, 148, 777 727 727 727 148 205, -811 328 205, -811 328 253 766 418 458 256, 288, -100- 405, 770-
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffaloes; Carlbou; Dogs; Horses; Livestock; Liamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona cae Apaches Jogs, Horses; Livestock; Liamas; Musk oxen; Sheep. Annona diversifolia Annona cae Ansonaceae Apaches See also Arizona; New Mexico. Apiculture 134, Aqueducts See also Irrigation. Arrigentina 205, 261, 267-274, 277-282, 287-291-294, 296, 300, 302, 304-305, 531, 313-314, 344, 363, 391, 403, 408, 410, 516, 534, 556, 560-561, 572, 590, 695. See also Apaches; Hopis; Navajos; Papagos; Papagos; Pimas. Artkansas Area, Sino, Apaches; Hopis; Navajos; Papagos; Pimas.	3, 148, 777 727 7300 148 205, -811 328 253 766 418 458 258, 258, 258, 257 -681 258, 257 -681 258, 257 -681 258, 258 258 258 258 258 258 258 258
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffaloes; Carlbou; Dogs; Horses; Livestock; Liamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona diversifolia Annona case Apaches Jogaches Angacas; Buffaloes; Carlbou; Jogaches Annona diversifolia Annona case Annona; New Mexico. Apjaches See also Arizona; New Mexico. Apiculture 134, Aqueducts See also Irrigation. Argentina Arikaras 261, 267-274, 277-282, 287, 201-294, 296, 300, 302, 304-305, 531, 313-314, 344, 363, 391, 403, 408, 410, 516, 534, 556, 560-561, 572, 509, 695. See also North Dakota. Arizona 253-261, 267-274, 277-282, 287, 291-294, 296, 300, 302, 304-305, 531, 313-314, 344, 363, 391, 403, 408, 410, 516, 534, 556, 560-561, 572, 590, 695. See also Apaches; Hopis; Navajos; Papagos; Papagos; Pimas. Artkansas 276, Nuraiss	3, 148, 777 727 7300 148 205, -811 328 253 766 418 458 258, 258, 258, 257 -681 258, 257 -681 258, 257 -681 258, 258 258 258 258 258 258 258 258
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffaloes; Carlbou; Dogs; Horses; Livestock; Liamas; Musk oxen; Sheep. Annona diversifolia Annona diversifolia Annona diversifolia Annona case Apaches Jogaches Angacas; Buffaloes; Carlbou; Jogaches Annona diversifolia Annona case Annona; New Mexico. Apjaches See also Arizona; New Mexico. Apiculture 134, Aqueducts See also Irrigation. Argentina Arikaras 261, 267-274, 277-282, 287, 201-294, 296, 300, 302, 304-305, 531, 313-314, 344, 363, 391, 403, 408, 410, 516, 534, 556, 560-561, 572, 509, 695. See also North Dakota. Arizona 253-261, 267-274, 277-282, 287, 291-294, 296, 300, 302, 304-305, 531, 313-314, 344, 363, 391, 403, 408, 410, 516, 534, 556, 560-561, 572, 590, 695. See also Apaches; Hopis; Navajos; Papagos; Papagos; Pimas. Artkansas 276, Nuraiss	3, 148, 777 727 7300 148 205, -811 328 253 766 418 458 258, 258, 258, 257 -681 258, 257 -681 258, 257 -681 258, 258 258 258 258 258 258 258 258
Animalis 5, 23-24, 33, 88, 96, 99, 112, 134, 156, 168, 180, 289, 305, 586, 664, See also Aipacas; Buffalces; Carlbou; Dogs; Horses; Livestock; Liamas; Musk oxen; Sheep. Annonac diversifolia Annona diversifolia Annonaceae	3, 148, 777 727 7300 148 205, -811 328 253 766 418 458 258, 258, 258, 257 -681 258, 257 -681 258, 257 -681 258, 258 258 258 258 258 258 258 258

					Item
Arts	4,				
See also					, 132
Arum trip					
Assiniboin					229
Astronom	7			5 90	22_94
Astronomy 14	8-149 1	97 199	206	214 261	382
Atacameñ					169
Athabasca					
ATKINSON					332
Atlantic C	ity Conf	erence o	n the A	meri-	
can 1nd	lans				575
ATWATER,	H. W				
Auchenias					
Avocados_					5
Ayahuásco				818	8, 823
Ayar-Inca	s				177
See also AZARA, FE) Incas.				~~
AZARA, FE	LIX DE_				55
Aztecs				11	2-3.
See als	-18, 20-2	0 07 0	0 00 1	00 159	911
11-	354, 3	57 979	208 4	19 439	487
040	-638, 7	07 799	755 7	60 774	777
776), 782,	707 80	7 820	823	also
	exico.	101, 00	, 020	, 020,	
141	CAICO.				

В

BABCOCK, W. M		220
DABCUCK, W. M		195
BABELON, JEANBadianus manuscript		777
Sadianus manuscript		65
SAILEY, L. H		
BAILEY, L. HBAILEY, VERNON		403
BALLIVAN, M. V		439
RALMER F E		221
Banisteria caapi		823
Bark. See Forests, uses.	1.000	
PADIMO W C	254	513
Bark. See Forests, uses. BARNES, W. C BARRETT, O. W		119
SARRETT, U. W	-	138
ARRIENTOS. E	-	640
BARROWS, D. P		
BARRY, J. N		641
BARRY, J. N37, BARTLETT, KATHARINE37,	255-	-256
BARTRAM, WILLIAM		642
Basketry		3,
Basketry	650.	744
Que also Implementa		
BATES, E. A. 33, 188,	333-	-334
Bauluo		
See also Cacao. BATTLE, H. B BAUDIN, LOUIS		0.1.4
BATTLE, H. B	TOO	214
BAUDIN, LOUIS	138-	-142
Savou Lacomu		650
BEALS, CARLETON		767
Beans		18,
74, 90, 105, 107, 112, 134,	136.	227.
027 050 068 020 006 389	19.1	556-
201, 250, 250, 250, 250, 500, 4 557, 672. BEAUCHAMP, W. M BECKWITH, M. W		
Deliverting W M		835
BEAUCHAMP, W. MI		643
BECKWITH, M. W		336
Beer	104	000
BeerBees	134,	320
BELL, F. H. 257. BELL, W. H. 257. Bella Cooia.	-=	231
BELL, W. H 257.	, 263-	-264
Bella Coola		828
See also British Columbia.		
Dur tim M K		37
		258
Dentis, M. B		644
DENEDICT, F. G		143
DENNETT, W. C		645
BENEDICT, F. G. BENNEDICT, F. G. BENNETZ, W. C. BENNIST, RAYMOND.		040
	7	
9	1	

the second se	tem
Berries 0, 14, 18, 20, 47, 65, 112, 224, 2 227, 322, 380, 601, 624, 712, 722, See also Fruits; also under specific	26-
9, 14, 18, 20, 47, 00, 112, 224, 2	740
See also Fruits: also under specific	110
berries. BERRY, J. B. BERTONI, GUILLERMO	
BERRY, J. B.	225
BERTONI, GUILLERMO	646
Beverages18	20,
39, 48, 90, 112, 134, 208, 204-200, 39, 48, 90, 112, 134, 208, 204-200, 30, 30, 30, 30, 30, 30, 30, 30, 30,	749
See also Butido + Chocolate + Coffee !	142
Intoxicants : Tea : Yerba maté.	
BIGOAR, II, H 387-	339
BINOHAM, HIRAM	151
Birds 121,	134
Bitterroot	704
Black Carlbs	133
Rigekfoot Indians 238	432
See also Montana.	1010
BLAIR, T. S. BLAKE, S. F. BLAKELY, C. H. BLAKELY, C. J.	768
BLAKELY, C. H	515
BLANCHARD, C. J	197
BLOW FRANS	197
Blood Indians 538	618
Bors, D	153
Bois Fort Chippewas 492, 601, 719, 815-	816
See also Chippewas; Minnesota.	_
Boilvia 170, 383, 439, 441,	767
BONTHOUT V A	144
BOTHRINI CHEVALIER	388
BOURKD. J. G	647
BOWERS, G. B 259, 517-	518
BRANN, D. D	260
BRANEOAN, J. A.	_38
BRAUBACH, CHARLES	769
Drazii 039, 040, 601,	190
Noo unou Cacau, Couce, Coin, Col-	
ton: Nuts: Rubber: Tobacco:	
ton; Nuts; Rubber; Tobacco; Ycrba maté.	
ton; Nuts; Rubber; Tobacco; Ycrba maté. Breadroot (probably Arum triphyl-	
BLAKEL, S. F. BLAKELY, C. H. BLAKELY, C. J. BLAKELY, C. J. BLAKELY, C. J. BLOM, FRANS. BLOM, FRANS. Bois, D. Bois, Fort Chippewas. Bois Fort Chippewas. Borture. Borture. <	-688
ton; Nuts; Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- BREWER, W. H687-	-688 340
ton; Nuts; Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- Brewers, W. H687- Brewers, M. H	-688 340 306
ton; Nuts; Rubber; Tobacco; Yerba maté. Breadroot (probably Arum iriphyl- lum)	-688 340 306 735
ton; Nuts; Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum)	-688 340 306 735 90
ton; Nuts; Rubber; Tobacco; Yerba maté Breadroot (probably Arum triphyl- lum) 687- Brewerg, W. H Brupges, M. E British Columbia. See Canada. Bromellacene BRONSON, R. M	-688 340 306 735 90 592
ton; Nuts; Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- BREWER, W. H	-688 340 306 735 90 592 770
ton; Nuts; Rubber; Tobacco; Yerba maté. Breadroot (probably Arum iriphyl- lum) 687- BREWER, W. H. 687- Brewery British Columbia. See Canada. Bromellaceae	-688 340 306 735 90 592 770 224
ton; Nuts; Rubber; Tobacco; Yerba maté Breadroot (probably Arum triphyl- lum) 687- Brewers, W. H	-688 340 306 735 90 592 770 224 -320
ton; Nuts; Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- BREWER, W. H	-688 340 306 735 90 592 770 224 -320 484
ton; Nuts; Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- BREWER, W. H. BREWER, W. H. BROWER, M. E. British Columbia. See Canada. Bromellacence. BRONSON, R. M. BROWER, J. V. BROWER, J. V. BROWN, C. E. BROWN, C. E. BROWN, F. M. BROWN, F. M.	-688 340 306 735 90 592 770 224 -320 481 575
ton: Nuts: Rubber; Tobacco; Yerba maté Breadroot (probably Arum triphyl- lum) 687- Brewerg, W. H	-688 340 306 735 90 592 770 224 484 1 575 345
ton: Nuts: Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- Brewers, W. H	-688 340 306 735 90 592 770 224 -320 481 575 345 648
ton: Nuts: Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- BREWER, W. H	-688 340 306 735 90 592 770 224 -320 481 575 345 648 39
ton: Nuts: Rubber; Tobacco; Yerba mraté Breadroot (probably Arum triphyl- lum)	-688 340 306 735 90 592 224 -320 484 575 345 648 39 815
ton: Nuts: Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- Brewers, W. H	-688 340 306 735 90 592 224 -320 484 575 575 345 648 39 815 648 815 649
ton: Nuts: Rubber; Tobacco; Yerba maté. Breadroot (probably Arum triphyl- lum) 687- BREWER, W. H	-688 340 306 735 90 592 770 224 484 575 345 645 815 645
Brewere, W. H	340 306 735 90 592 770 224 -320 484 1 575 345 648 39 815 40 649 649
BEBWER, W, H	340 306 735 90 592 770 224 -320 484 1 575 345 648 39 815 40 649 649
BREWER, W, H	340 306 735 90 592 224 484 1 575 345 648 39 815 648 815 648 815 261 519 5141 520
BEBWER, W, H	340 306 735 90 5592 7770 224 484 1 575 345 648 39 648 39 648 39 648 40 649 645 261 519 519 519 609 609 609
BEBWER, W, H	340 306 735 90 5592 7770 224 484 1 575 345 648 39 648 39 648 39 648 40 649 645 261 519 519 519 609 609 609
BEBWER, W, H	340 306 735 90 5592 7770 224 484 1 575 345 648 39 648 39 648 39 648 40 649 645 261 519 519 519 609 609 609
BIEWWER, W, H Britoers, M. E British Columbia. See Canada. Bromellacene RONSON, R. M BROWER, J. V BROWN, C. B BROWN, F. M BROWN, F. M BROWN, R. A BROWN, C. A BROWN, C. A BROWN, C. A BROWN, C. A BROWN, C. A BURAN, H. J BUREAU Of American Ethnology. See United States Bureau of American Ethnology. BUREAU OF Plant Industry BURHAM, H. M BURLISON, W. L	3400 306 735 90 592 2770 224 484 1 575 345 345 648 839 815 40 649 513 441 5513 441 5513 441 5771 607 771 607
BIEWWER, W, H Britoers, M. E British Columbia. See Canada. Bromellacene RONSON, R. M BROWER, J. V BROWN, C. B BROWN, F. M BROWN, F. M BROWN, R. A BROWN, C. A BROWN, C. A BROWN, C. A BROWN, C. A BROWN, C. A BURAN, H. J BUREAU Of American Ethnology. See United States Bureau of American Ethnology. BUREAU OF Plant Industry BURHAM, H. M BURLISON, W. L	3400 306 735 90 592 2770 224 484 1 575 345 345 648 839 815 40 649 513 441 5513 441 5513 441 5771 607 771 607
BIEWWER, W, H Britoers, M. E British Columbia. See Canada. Bromellacene RONSON, R. M BROWER, J. V BROWN, C. B BROWN, F. M BROWN, F. M BROWN, R. A BROWN, C. A BROWN, C. A BROWN, C. A BROWN, C. A BROWN, C. A BURAN, H. J BUREAU Of American Ethnology. See United States Bureau of American Ethnology. BUREAU OF Plant Industry BURHAM, H. M BURLISON, W. L	3400 306 735 90 592 2770 224 484 1 575 345 345 648 839 815 40 649 513 441 5513 441 5513 441 5771 607 771 607
BIEWWER, W, H Britoers, M. E British Columbia. See Canada. Bromellacene RONSON, R. M BROWER, J. V BROWN, C. B BROWN, F. M BROWN, F. M BROWN, R. A BROWN, C. A BROWN, C. A BROWN, C. A BROWN, C. A BROWN, C. A BURAN, H. J BUREAU Of American Ethnology. See United States Bureau of American Ethnology. BUREAU OF Plant Industry BURHAM, H. M BURLISON, W. L	3400 306 735 90 592 2770 224 484 1 575 345 345 648 839 815 40 649 513 441 5513 441 5513 441 5771 607 771 607
BREWER, W, H	3400 306 735 90 592 2770 224 484 1 575 345 345 648 839 815 40 649 513 441 5513 441 5513 441 5771 607 771 607
BEBWER, W. H	3400 306 735 90 592 2770 224 484 1 575 345 345 648 839 815 40 649 513 441 5513 441 5513 441 5771 607 771 607
BEBWER, W. H	3400 502 502 502 502 502 502 502 5
BREWER, W, H	3400 592 592 224 320 224 484 575 345 345 649 815 519 441 519 513 441 520 6009 771 841 512 202 650 1118 145 416

California 132, 301, 461, 517, 635, 640, 657, 666, 682, 702, 710, 718, 739, 752, 786, 740, 754 740, 754 CAMERON, C. R. CAMERON, C. R._____ 651 43 Canada-

 Alberta
 \$5, 538, 613

 British Columbia
 432, 453, 610, 742, 828

 Eskimos
 6, 23, 24

 Ontario
 190

 Quebec
 2, 12, 835

 Saskatchcwan
 85, 232, 491, 789

 See also 2, 12, 17, 83, 85, 99, 190, 469, 481, 489, 491, 532, 546-547, 604, 613, 682, 792-793, 705, 835, 839.

 mals
 24, 253

 _____ 24, 253 Canals_ CannolLE, A. DE_____ 190, 652 148 Cannas_____ Canoes ______ CAPITAN, LOUIS ______ CAPRON, MARJORIE ______ See Penners. 722 2 44

 CAPRON, MARJORIE_______44

 Capsicums. See Peppers.

 Carlbouraters______85

 Carlboureaters______85

 CARRON, E. J.______485

 CARR, LUCIEN______45-46

 CARRIER, LYMAN______47

 Carlio Angeles

 818

 Carlou - atters______45

 Carlou - atters______45

 Carlou - atters______45

 Carlou - atters_______47

 Carlou - atters_______47

 Carrizo Apaches_____ 811 See also Apaches. Carums G91, 752 Cascara sagrada 722 Cashrom Cassava. See Manloc. 147
 Cassava.
 See Manloc.
 343

 Cassava.
 See Manloc.
 343

 CASSINY, L. L.
 257, 263-266, 653
 266, 653

 Catawbas
 21, 747
 74758, J. S.
 246

 CatLIN, GEORGE
 432
 2511
 822
 Cebii Cedar _ ---- 722 -----See Pottery. Ceramics. corn_____350, 358-350, 377-378, 389, 401, 804 722 courtship______ 722 daturas______ 821, 823 16, 18,

 da turas
 821, 823

 general
 16, 18,

 20, 60, 102, 156, 306, 643, 742, 744

 harvest
 18, 20, 187, 588, 616

 Hopi
 514, 556, 567

 Iroquois
 389

 Navajo
 567

 peyote
 773, 775, 781, 809–810, 818, 827

 See also Peyote.
 437

 tobacco
 478

 tobacco_____ wlidrice_____ See also Wildrice. 478 489 Zuñi_ 744 See also MytDouvey. CERNA, DAVIN 430 CEUALLOS-TOVAR, WALTER 430 CHACO CANYON NATIONAL MONUMENT 281, 292 CHAMBERLAIN, A. F. 9, 48, 434 435 CHAMBERLAIN, L. S. 654 CHAMBERLAIN, L. S. 655 CHARLEUX, A. 775 CHARLEUX, A. 775 Charms 665, 742, 746, 785 Charms 288 299

 LD, II. M_______145
 Cbemehuevis _______28
 288

 C
 Cbemistry ______29
 29

 MOBEL_______416
 38-39, 63, 166, 703, 803, 819-820
 29

 Sce Peyote.
 Sce also Medicine. plants.
 728

 MOBEL______416
 Cherokees_____377, 615, 642, 708, 798, 804-805
 728

 Sce Peyote.
 20, 74, 79.
 Chessur, V. K_____657
 657

 90, 101-103, 105, 134, 196, 663, 717
 CHEVALLER, AUGUSTE______450
 450

Item

541 772

----- 134, 263, 310,685

Cacti 134, 263, 31 Caddo Indians

Canzow, D. A. 772 CARNON, D. A. 773 CAIRNS, HUNTINGTON. 5. 20, 23–24, 148–149, 197, 199, 206, 214, 261, 382

	Item
Chewing Cheyennes Chian plant Chickasaws See also Alabama; M Chicte Chice Chite Chippewas Chippewas Chippewas Chippewas Chick Chick Chick Chick Chick Chick Chick Chick Chick Chickasaws Chickasaws See also Alabama; M Chickasaws Chickasaws Chickasaws Chickasaws Chickasaws Chickasaws Chickasaws Chickasaws Chickasaws See also Alabama; M Chickasaws Ch	453, 466, 478, 655, 742
Cheyennes	230
Chihches	198
Chickasaws	834
See also Alabama; M	lississippi.
Chicie	14 441 448 859
Chippewas	14, 441, 440, 008
224, 327, 481, 4	83-485, 487-489, 491- 0
493, 545, 564, 5	92, 601, 612, 633, 664 $-$
Sce also Minnesota.	746, 815-816
Sce also Minnesota. Chippewayan Indians_ Chirichahua Indians_ Chives	85
Chirichahua Indians	265
Chives	107
See also Vegetable f	num 752
Chocolate	79, 90, 112, 823
See also Vegetable f Chlorogalum pomeridian Chocointe Choctaws See also Alabama; M Chronology CHUBBUCK, LEVI Cinchona bar. See Qui Citará Indians Civilian Conservation (CLARK, C. U CLARK, S. P Classification of Indian CLAUDE, JOSEPH Cliff dweilers24, 37, 273, 275, 277, 5 See also Arizona; Southwest, United	371, 543, 650 G
See also Alabama ; M	11881851pp1. 23 104 199
CHUBBUCK, LEVI	521-522
Cincbona bar. See Qui	nine.
Citara Indians	766 70rps 505 619
CLARK, C U	776
CLARK, S. P	267-268
Classification of Indian	4, 6, 23-24
Claude, JOSEPH	254 258-259 262 270
273, 275, 277, 2	290, 296, 308, 343, 406
See also Arizona;	New Mexico;
CLINTON DE W	States. 859
CLOUD, H. R	575
Coahuilla Indians	640
See also Mexico.	
See also Arizona; Southwest, United CLINTON, DE W Coabuilla Indians See also Mexico. Coca. See Cocaine. Cocaine 101-103, 105, 11 Cocopa Indians Coffee	3, 5, 18, 20, 23, 90,
101-103, 105, 1	48, 151, 173, 767, 823
Cocopa Indians	557
Coffee Cohoba snuff	00 000 000
COHEN, F. S	
COLERIDOE, SARA COLLIEA, CHARLES COLLIEA, JOHN COLLISSON, C. F ColLISSON, C. F Colorado Colorado	
COLLIEA, JOHN	524-530, 575, 581, 614
COLLINS, G. N.	521
Colombia	41, 716, 766
Colorado	$\begin{array}{c} & 41, 716, 766 \\ & 262, 296, 298 \end{array}$
Colorado delta	295]
Contron, H. S Comanches Commerce Communism. See Socia	269
Comanches	108 651
Communism See Socia	iiem Incan
Connecticut	364
CONRAD, C. M	406
Connecticut Connecticut Conservation 09, 121, 146, 1 571, 578-579, Contributions, nonagri 10, 21, 23, CONZEMIUS, EDUARD- CON C E	72,
99, 121, 146, 1	48, 186, 296, 307-308, 505, 505, 507, 698, 629, 629, 675
Contributions, nonagri	cuitural 3-6,
10, 21, 23,	48, 54, 57-58, 68, 70-71
CONZEMIUS, EDUARD- COOK, O. F	133-134
Cook, U. F 4	9-51, 147-151, 172, 198
Cooking	8.
Cooking5, 24, 39, 45, ' 239, 250, 305, 3 400, 514, 558, (70, 134, 194, 220, 237-
239, 250, 305, 3	359, 365, 371, 389-390, [350, 672, 600, 722, 740]
400, 014, 008, 0 753-754 757	550, 672, 690, 722, 740,
COOLIDOE, M. R	533-534
COOPER, JOHN	85
COOPER, JOHN Cooperatives, Indian	488, 502, 571, 592, 620
Corn Cuzco	329-402
Cuzco	
Huanrachuco	373
sweet corn	107, 858, 367, 390

ţ

Corn-Continued.	Item
See also 5-9, 12, 18-20, 23-24, 20-30, 33 37, 45-47, 40-50, 54-58, 61, 65 74, 90-95, 101-105, 109, 112, 114 134, 136, 151-152, 188-190, 193, 206-207, 217-218, 224, 227, 237, 241, 250, 254, 268, 275, 277, 289 206, 316, 518-519, 541, 550-551, 577, 289 206, 316, 518-519, 541, 550-551, 577, 289 206, 623, 630, 644, 649 Coronado 424, 00smos sulphurcus Constrantin, J 152 Coton 424	2-3,
3-9, 12, 18-20, 23-24, 29-30, 32 37, 45, 47, 40, 50, 54, 58, 61, 68	, 30,
74, 90-95, 101-105, 109, 112, 114	131
134, 136, 151-152, 188-190, 193,	204,
206-207, 217-218, 224, 227, 237,	240-
241, 250, 254, 268, 275, 277, 289	-290,
557. 571. 596. 623. 630. 644. 649	. 672
Coronado 424,	432
Cosmos sulphureus	729
Constantin, J 152 Cotton 403	-103
See also 400	5,
See also 9, 20, 22, 24, 37, 49, 90, 134, 143, 151, 162, 177, 268, 270, 286, 516 Coumarin Coumarin	148.
151, 162, 177, 268, 270, 286, 516	-517
Coumarin	443
COWAN, J. L.	535
CRAWFORD, M. DE C 154-155	6, 404
Counarin Coville, F. V. 660 Cowan, J. L. CrawFord, M. DE C. 154-155 Crees. 232	, 789
See also Saskatchewan.	000
Creeks248-249, 251, 642 See also Alahama; Georgia.	, 833
Crops. See under specific names.	
Crow Indians 432, 465, 473, 503	, 591
See also Montana.	777
See also Alahama; Georgia. Crops. See under specific names. Crow Indians	. 784
Cucumhers	107
Cucurbits. See Gourds.	
Cucurbits. See Gourds. Cultivation 55, 194, 337, 383, 400-402, 438 See also Farming, types; Tiilage. CUMMINOS, BAYON CURRAN, C. H CURRAN, C. T CURSTLY, C. T CUSHING, F. H	14,
30, 194, 337, 383, 400-402, 435 See also Farming types ' Tillage	, 409
CUMMINOS. BAYON	270
CURRAN, C. H	119
CURRELLY, C. T	349
Custand appie	797
Cuzco corn. See Corn.	121
Cyphomandias	90
DARR F. M	536
DAHLGREN, B. E	663
Dairying	631
Dakota Indians 223-224	1, 018
kota · Sioux	
DALE, E. E	575
DALE, G. I	451
DAM, C. H	402
DAVENPORT, H. W	351
DAVIS, E. C.	3, 199
DAWES, H. L	537
Dr. KRUE P H	352
DELABARRE, E. B	353
Delaware Indians 541	1, 813
Denés	469
DENHARDT, K. M 413	226
DENSMORE, F664	-665
Desert iily	306
DE SOTO, HERNANDO 424, 420	890
Custor corn. See Corn. Damb.E. M. Dath.GREN, B. E. Dath.Gren, B. E. Dath.Gren, B. E. Dath.Gren, B. E. Dator Dator Dator North Dakota; South Dakota; South Dakota; Sioux. DALE, G. I. Date, G. I. Dater, B. C. Delaware Indians. Dendes Denser, R. M. Denser, B. C. Des Norto, HERNANDO Develis' root. Develis' root. Diouert, L. Disensces Indians Souro, HERNANDO Souro, HERNANDO	020
DIOUET, L	354
Diseases-	000
Diseascs- Indian 5, 17, 134, 302, 545, 642 iivestock	
DIXON, R. B. 4, 45	3-454
DIXON, R. B4,455 DOBRIZHOFFER, M411 Dogs411	421
Dogs 10,00,01,04,194,176,400	-417
See also 12, 20-21, 24, 134, 156, 428	0. 1944
	3-6
Domestication of plants and animals $=$ 9, 19–20, 23–25, 47, 49–50, 65, 7	3-6, 6-77,
Domestication of plants and animals9, 19–20, 23–25, 47, 40–50, 65, 7 88–90, 94–95, 105, 134, 148, 168	3-6, 6-77, , 172,
Domestication of plants and animals $-$ 9, 19–20, 23–25, 47, 49–50, 65, 7 88–90, 94–95, 105, 134, 148, 168 352, 373–375, 381–882, 417, 652	3-6, 6-77, 172,
Domestication of plants and animals – 9, 19–20, 23–25, 47, 40–50, 65, 7 88–90, 94–95, 105, 134, 148, 168 352, 373–375, 381–882, 417, 652 DONAOHY, J. A	3-6, 6-77, , 172, 538 9-540
DOBNIZHOFFER, М 411 Dogs 411 Sce also 12, 20–21, 24, 134, 156, 423 Domestication of plants and animals 19, 19–20, 23–25, 47, 40–50, 65, 7 88–90, 94–95, 105, 134, 148, 168 352, 373–375, 381–682, 417, 652 DONAOHY, J.	3-6, 6-77, 172, 538 9-540 0, 455
Domestication of plants and animals	9, 455 272
DOUGLAS, F. H 183 DOUOLASS, A. E44	3-6, 6-77, 172, 538 9-540 9,455 272 6,449
DOUGLAS, F. H18 DOUOLASS, A. E DRAKE, FAANCIS44 Dramas. See Pageants.	9, 455 272

It	em
DUATIN, FRED DWIGHT, BEN Dyes32, 30, 63, 00, 94, 179, 183, 208, 2 286, 209, 327, 514, 665, 674, 737–7 742, 744, 746, 777, 795.	518 52 575 456 543
E	
EAST, E. M	3556 544 5545 587 587 575 5545 547 575 5545 547 629 3524 662 676 77, 6839 6830
museums 59, 673, purposes 60, Ewell, E. E	

 Fabrics. See Textiles; Weaving.
 Gat

 Fairs
 187, 500, 503, 508, 591

 Fairas
 671-672

 FARABEE.
 55

 FARABEE.
 971-672

 FARABEE.
 55

 GAA
 55

 FARABEE.
 56

 FARMER, GEORGE
 516

 Farmers' Ibstitutes
 630-633

 Farming
 630-633

 Farming
 602-633

 Farming
 604-633

 Farming
 Foot-piow farm

 Ing: Grazing: Irrigation; Milpa
 64

 garicuiture: Mixed cropping; Ter 64

 FarkeND Livingsron
 6

 FarkeND Livingsron
 6

 Farkewes, J. W.
 55, 667

 Fewixes, J. W.
 5667

 Fibers
 52, 222, 555, 557-558, 598, 601, 712

 Fishing
 83, 222, 555, 557-558, 598, 601, 712

F

	100110
Folklore	514, 696, 744, 750
	14. 18, 20, 22-24, 26,
00 00 04 00	49 45 47 50 58 61
28, 32, 34, 30	, 10, 10, 10, 00, 01,
64-65, 70, 74	, 89-94, 101-105, 100,
107, 109, 112,	133-134, 150, 163, 171,
189-190, 194,	207-208, 217, 219-220,
224. 226-227.	230, 237 - 239, 244 - 246,
250 255 264-	-265, 268, 274, 277, 289,
206 205 200-	310 315 318 322 326-
007 007 049	, 14, 18, 20, 22–24, 26, , $43-45, 47-50, 58, 61,$, $89-94, 101-103, 105,$ 133-134, 156, 163, 171, 207-208, 217, 219-220, 230, 237-239, 244-246, 265, 268, 274, 277, 289, 310, 315, 318, 322, 326- 355, 358-359, 368, 389,
900 F14 K10	534, 541, 555-558, 567,
390, 314, 918,	004 060 071 879 874
586, 598, 601,	634-669, 671-672, 674, -693, 695-697, 700, 702,
677-678, 690-	693, 695-697, 700, 702,
704-707, 710-	128, 133, 130-146, 148-
749 (5)-(5).	101-105
Sec also Beans:	Berries: Corn:
Empire Inonio G	ngar' Porstoes:
Smootnotatoog '	Vegetable foods;
Wildwige Wild	turkeys; also
Wildrice, Wild	iffe facily with
under other spec	147 151
Foot-plow farming	ific foods. 147, 151 L 554
FORBES LINDSAY, C. E.	504
FORD, G. S	
FORDE, C. D	555-556
Forest Potawatomi I	56 555–556 Ddians 326
See also Wisconsin	. 504–505, 3–564, 576–579, 593, 604
Forestry	504-505.
K10 KA	3 564 576 579 593 604
Fananka Maag	3, 112, 209, 317, 325, 719 ation 237, 400, 531
Porests, uses o	0, 112, 200, 011, 020, 110
Fort Berthold Reserv	auou
See also North Da	IKOTA.
Fox, D. R. Foxgiove FRACHTENBERO, L. J_	68
Foxgiove	722
FRACHTENBERO, L. J_	57
Franciscopa Saint Mi	choole Arizons nex
FRANKE P R _	BARA 723 whites with In- 17, 21, 24, 26, 58
FREIRE-MARRECO BAR	BARA
Frontion digh of	whites with In-
Frontier, Class Of	17 91 94 90 58
dians	II, 21, 21, 20, 00
FTUITS	20, 32, 47, 65, 101–103, 207–208, 217, 227, 246, 207–208, 217, 518, 551
7, 9, 14, 18.	20, 32, 47, 65, 101-103,
105, 112, 134	, 207-208, 217, 227, 240,
250, 268, 310	, 389, 508, 517-518, 551,
555, 637, 644.	, 389, 508, 517–518, 551, 674, 685, 712, 722, 740,
749.	
See also under sne	cific fruits.
FILEST WILLET M	440
European Shor	90
Emparica D W	360
FURNAS, R. W	000

Item

G

GABRIEL, R. H GALLI, IONAZIO GALLOP, RODNEY	779
Gama grass	
GAMIO, MANUÉL GANN, T. W. F	
CLEOCH DAVAN TORS	79
Gardeds 5, 7, 61, 65, 87, 92, 94-95, 118,	20, 47, 49,
61, 65, 87, 92, 94-95, 118,	121, 123-
124, 131, 134, 237, 243, 246	0 072 907
botanical	777
museum	59. 673. 676
Garif	133
Gariic	107
See also Vegetable foods. GARRISON, F. H	807
GARRISON, F. H	158
GAATOIN, E	
GEARE, R. I	1. 246. 249
Sce also Creeks. GERARD, JOHN	
GERARD, JOHN	442, 446
GERARD, W. R	669 782
GERESTE, ACHILLEGIFFORD, E. W	557-558
Gila Valley	253.570
See also Arizona.	
GILL, R. C	783
GILMAN, M. F	309
GILMOBE, M. R_59-60, 227-229, 27	6, 361-362,
395, 458–459, 670–68 Gitksan Indians	
Goddand, P. E	
GOODWIN, GRENVILLE	

Ite	em
GORE, J. H 6 GORMAN, M. W 6	83
GORMAN, M. W6	84
Gosiute Indians 6	55
Consuming See Potton	
Gourds 3, 5, 9, 61, 90, 227, 5	57
23, 32, 91-95, 101-105, 109, 112, 3	05
See_also Corn.	0
Granaries	27
9, 20, 47, 58, 126–127, 148, 151, 2 246, 268, 275, 288, 296, 304, 337, 3	91,
246, 268, 275, 288, 296, 304, 337, 5 398, 400-401, 489	U 1,
Grand Portage Reservation	64
Vac ales Chippower Mipposots	
CDAY G W	202
GRAY, L. C	245
Grazing (4	24.
425, 428-429, 514, 520, 544, 548, 5	55,
425, 428–429, 514, 520, 544, 548, 5 570–571, 575–576, 582, 628–629, 6	396
See also Livestock.	
See also Livestock. Great Lakes tribes 83, 4	189
	201
GREENE, R. A61, GREGORY, C. V61, GREGORY, H. E61,	585
GREGORY, C. V 61,	500
GREOORY, H. E	160
GRIMES, N. A	100
GRINNELL, G. B	784
GROSOURNY, R. DE671-671-671-671-671-671-671-671-671-671-	879
Gronnd bean 011-	264
Guaraná	823
Guatemala	41.
200, 203-204, 213, 216, 373, '	717
GUPDNERV S I	294
GUERRERO, J. C	159
GUIE, H. D	785
AND THE POST OF A DOMESTIC AND A DOMESTIC AND A DOMESTIC AND A DOMESTICAL ADDRESS OF ADDRESS OF A DOMESTICAL ADDRESS OF A DOMESTICAL ADDRESS OF ADDRESS OF ADDRESS OF A DOMESTICAL ADDRESS OF ADDRESS O	

н

HAAR W H	277
HAAS, W. H HAEBERLIN, H. K	278
HAGENBUCK, I	786
HAGENBUCK, I	453
Halua Inulans	424
HAINES, FRANCIS	293
Halti 20, 45, 151, 522	264
HALLOWELL, A. 1	960
HALSETH, U. S 31, 212	001
HAMILTON, J. B	281
Handicrafts 134, 540	, 021
See also Arts; Pottery.	40
HANNE, LEWIS	40
HANSON, H. C	405
HARCOURT, M160 HARCOURT, R. D160	102
HARCOURT, R. D 160	-162
HAROY, OSGOOD HARORAVE, L. L	163
HARORAVE, L. L.	282
HARORAVE, L. L. 680 HARMS, HERMANN. 680 HARMS, HERMANN. 680 HARRINGTON, J. P. 461 HARRINGTON, M. R. 283-286 HARRING, G. H. 680 HARSHREGER, J. W. 366, 561, 683 HAR A. R. 863, 561, 683	3, 787
HARRINGTON, J. P 461	1, 723
HARRINOTON, M. R	3, 365
HARRIS, G. H 687	-688
HARSHREAGER, J. W 366, 561, 689	9-690
HART A B	3, 243
HASKETT BEET	562
HASKIN L. L.	691
HATTRY E W 31	7,406
HAVADD VALERY 699	2-693
Havesupei Indians	271
UAWINY F M	63
Holianthus annuls See Suntiowers.	
HARSHREGGER, J. W366, 561, 683 HART, A. B HASKETT, BERT HASKETT, BERT HASKETT, BERT HASKETT, BERT HASKETT, BERT	7.367
HENHRY, G. W	207
HenequenW	436
HENSHAW, H. W	368
Hen-10n, wyandot70	R 748
Heracleum tunutum	7 817
Herbals 440, 100, 11	788
HERBERT, L. G	3_564
HERITAGE, WILLIAM	200-0
HERMANT, PAUL	565
HERMSTEAD, OSCAR	64
HERNOON, C. A. HERRERA, F. L.	694
HERRERA, F. L	190
LEDDIOR WITLIAM	
Hevea rubbertree	49
	274
	226
Hovo Foundation	9, 673
HEYWOOD, JAMES	566

Iter	n
Iter HIBBARN, B. H	18
Highways5, 18 HiLL, A. J	4
HILL, W. W. 567-56	8
HINSDALE, W. B 217-219, 36	9
HODOMOK 24 HONOE, F. W 9, 252, 28	17
HODOKIN, CARLYLD 23 HODOKON W O	1
Hoes. Sce Implements.	
HOFFMAN, W. J 32 HOFFMANN, ELEANOR 20	3
HOFFMANN, ELEANOR 72 Hoh Indians 72	0
HOLMES, E. M	9
HolMES, G. K 134, 20	8
Hoopas 604, 68	22
Hopis 267-268, 344, 34	8,
HOFFMANN, ELEANOR. 20 Iloh Indians	16
States. 418-4:	13
Horses 418-45 See also 5, 24, 134, 226, 232, 417, 74 Horsetail plant 72 Horsetail plant 72	2
Horsetall plant (4)	
Horsetall plant Horticulture. See Fruits; Gardens. HOBKINS, T. H HOUOH, DONALD HOUOH, WALLER	27
HOUGH, DONALD HOUGH, WALLER 120, 289–290, 573–574, 695–66 Housing 163, 177, 243, 268, 401, 655, 696, 7 HRALICKA, A HUADRACHUCC COTD 36	D,
Housing4, 6, 8, 2	3,
163, 177, 243, 268, 401, 655, 696, 7 HRALICKA, A6 Huaprachuco corn3	12
Huanrachuco corn3 36 See also Corn. 8 Huánto126-11 126-12 Huber, Albert44 44 Huckieberries64 64 Hunson, P. J34 84 Huicholes Indians38 84 Hullca38 84	37
Huánto	18
HUBER, ALBERT4	38
Huckieberries 0. Hunson, P. J 3'	71
Huicholes Indians 8	20
HULBERT, WINIFRED	10
HUMBOLDT. F. H. A. VON	20
HUNTER, J. D	90 73
HUNTINGTON, ELLSWORTH	11
Hupa Indians 12,	83
Huillea 8 HULBERT, WINIFRED 8 HUMBOLDT, F. H. A. VON 8 HUNT, P. B 5 HUNTER, J. D 7 HUNTINOTON, A. M 6 HUNTINGTON, ELLSWORTH 6 Huntindians 6 Hurne, G. E 4	01
I	
Ilew paraguayensis. See Yerba maté.	38
Itilinois country 8 Implements 2- 9, 14, 16, 19-20, 23, 35, 47, 58, 61, 6 134, 177, 191, 194, 222, 224, 237-25 242, 246, 256, 268, 303, 305, 319-32 322, 337, 343, 363, 389, 391, 400-46 601 100-46	7,
9. 14, 16, 19 -20 , 23, 35, 47, 58, 61, 8 134, 177, 191, 194, 222, 224, 237 -23	11, 19,
242, 246, 256, 268, 303, 305, 319-32	10,
601	07
Incas See also2	-5,
$\begin{array}{c} 110.38 \\ \hline \\ 8e \\ 9, 14, 17-18, 20, 22, 47, 49, 67, 80-6 \\ 86, 90, 102, 121, 128, 383, 404, 43 \\ 439, 441, 444, 448, 449, 686, 694, 75 \\ \hline \\ 760, 762, 800 \\ \hline \end{array}$	sz, 8-
439, 441, 444, 446, 449, 686, 694, 75	9
Indian Arts and Crafts Board6	21
) 2 ,
509, 524-525, 580-5	81 16
Indiana Indians	4
cuitures	16,
376, 381 distribution_4-7, 9, 13, 23-25, 56, 122, 5 origin4, 6-7, 9, 17, 20, 23, 77, 1 See also under names of tribes.	71
origin 4, 6-7, 9, 17, 20, 23, 77, 1 See also under names of tribes.	
Indigo. See Dyes.	

INDEX

	Item
Interior Salish Tribe.	119, 212, 666 427, 754
Intoxicants 20, 24, 90, 13 See also Beverage	4, 306, 692, 699, 722, 773
Inventiveness 3, 5- Iowa	-6, 9, 17, 19, 23, 71, 81, 88
Ipo Iroquois See also	188-194
21, 23, 25, Irrigation	83, 333, 380, 383, 389, 832 3, 0, 24, 30, 37, 67, 82, 114,
118, 148, 151 274, 277, 279 311–314, 348	1, 169, 174, 253, 267–268, -281, 287, 296, 305, 308, 3, 506, 516, 556, 560, 575, 0, 603, 607, 626.
	J
LACKRON TO P	240

JACKSON, E. P		240
Jaia maize		373
Jamaica	643.	830
JENKS, A. E	. 66.	489
JENNESS, DIAMOND	12.	490
Jcrusalem artichoke	107.	190
JESSUP, M. K	,	164
Jicariila Apaches 548.		
See also Apaches ; New Mexico.	000,	
JOHANNESSOHN, FRITZ		791
JOHNSON, ALLEN		11
JOHNSON, GAYLOAD		291
JOHNSON, GAYLOAD		246
JONES, HOWARD	792-	793
JONES, V. H		37
JOYCE, T. A.	165.	698
JUDD, N. M		292
JUZEPCZUK, S. W		441
		-

ĸ

Kamia Indians		558
KANE, F. F		575
Kansas	1_ 234.	
Kaoiin		443
Karuk Indians		461
KEARNBY, T. H		407
KRESING, F. M.		323
		166
KELLERMAN, W. A		372
KEMPTON, J. H	87 873-	
KENTON, EDNA	. 01,010-	793
Keya-honé		645
KINDER, A. V	202	
KINGSBURY, R. M	200-	763
KINNEY, C. S		67
KINNEY, J, P	570	570
KINNICUTT, L. N	010-	241
Kinnikinick	700	241
Kiowa Indians	122,	
KIDE WILLIAM		520
KIRK, WILLIAM		204
KIRKLAND, E. C.		68
Kiamath Indians	661-662,	691
See also Oregon.		
KNIFFEN, F. B.		295
KOPPERS, WILHELM		81
AROEBER, A. L. 13, 23 103.	132 433	640
Kuhnikwe Indians		271

L		
LA BARRE. WESTON	699,	825 376
LA DU, B. L. LA FARGE. OLIVEA. LA FLESCHE, F.		592 581 359
Laguna Indians		391 633
See also Wisconsin. Lac du Fiambeau Reservation See also Wisconsin.	630-	631
LAMPMAN, B. H	-	700
aliotments. See Aliotment policy. ownership	17 555-4	- 18, 556,

and-Continued.	Item
policy toward Indian 501, 507, 509-510, 516, 520 527, 529, 537-538, 542, 549 577, 583, 585, 603, 607. LANGLOIS, GENERAL LANGWORTHY, C. F	5, 224,
501. 507. 509-510. 516, 520	, 526-
527, 529, 537-538, 542, 549	, 575-
577, 583, 585, 603, 607.	4.0.0
LANGLOIS, GÉNÉRAL	107
ANGWORTHY, C. F	077
LANMAN, CHARLES	60 70
LANGUORTHY, C. F LANMAN, CHARLES LANTIS, L. O LATCHAM, R. E14, 16 AUBER, A. W LAUFER, BERTHOLD442, 46 LA WALL, C. H	38_169
ATCHAM, R. D	15
ATTER BERTHOLD 442. 46	33. 701
AUFER, HERTHOLD422, 41 LA WALL, C. H	794
LAWRENCE, D. H	878
LAWSON, ALEXANDER	443
LEA, F. T	702
LEDING, A. R	310
LEE. G. C.	21
LEECHMAN, D	107
Gee also Vegetable foods	101
See also Vegetable foods. Legumes	90
Leeks See also Vegetable foods. Legumes See also under specific names. LEIGH, W. R	
See also under specific names. LEIGH, W. R. LEUPP, F. E. LEWIS, T. H. Lewisia rediviva71 Lewron, F. L. LILLY, ELI	582
LEUPP, F. E	583
LEWIS, T. H	224
Lewisia rediviva7	52, 754
LEWTON, F. L	408
LILLY, ELI	01 00
LATATÓ SUCKS	447
LINTON RALPH 3'	79.464
Linan Apaches	811
LEWYDN, F. L. LILLY, ELL. LINNIK, S. LINNE, S. LINNON, RALPH. See also Apaches. See also Apaches. LIPPS, O. H. Liquors. See Intoxicants. Livestock.	
LIPPS, O. H 5	84-585
Liquors. See Intoxicants.	0.0
Livestock 115, 134, 177, 268, 534, 562, 57 586, 603, 620, 628-629, 631, 66 See also Animals; Dogs; Horses;	96,
586 603 690 698 699 631 66	8
See also Animals: Dogs: Horses;	0.
Sheep. Llacon. Llamas 3, 5, 20, 151, 1' LLOYD, J. U LLOYD, J. U	
Llacon	148
Llamas 3, 5, 20, 151, 17	72-173
LLOYD, J. U	703
LLOYD, TREVOR	491
LOESENER, THEODOR	704
Looms. See Weaving.	101
Lophophora lewinii. See Lophophora	
anilliamoli	
Lophophora williamsti Lophophora williamsti T81, 820, 828, 82 LORIN, HENRI	773,
781, 820, 823, 82	5, 836
LORD KUSSELL	380
LORIN, HENEL	050
Louisiana	186
Lowdermitk, W. C Lowder, R. H Lucumas	71. 465
Lucumas	90
Luiseño Indians	739
Lumber. See Forests.	111
LUOMALA, KATHARINE	586
Luiseño Indians Luiseño Indians Lumber. See Forests. LuoMALA, KATHARINE Lupines	90, 148
М	
MACCLARY, J. S MACCURDY, G. G	296

MACCURDY, J. S MACCURDY, G. G MACLEOD, W. C 17, 72–73, 4 MACLEOD, W. C 17, 72–73, 4	296
MACCURDY, G. G.	76
MACLEOD. W. C 17, 72-73, 4	166
MACREINOLDS, GEORGE	190
Maguey 5,	
	370
Maize. See Corn. MALDONADO, ANGEL	
MALDONADO, ANGEL	705
MALDONAFO. ENUARDO	705
	623
See also North Dakota.	040
	232
MANGELSDORF, P. C.	381
	148
Mano	303
Manuring. See Fertilization.	
Maple sugar434 See also 12, 24, 58, 217, 224, 322, 601, 6	437
See also 12, 24, 58, 217, 224, 322, 601, 6	74.
Maricopa Indians	569
MARIE-VICTORIN, FRERE	706
MARK, M. L	575
MARKLEY, M. C	297

	Item
MARSHALL, ROBERT MARTIN, P. S MARTINEZ, JAVIER Martynia Martyna Martyna	530, 587
MARTIN, P. S	298
MARTINEZ, JAVIER	797
Martynia	107
Maryland	21 []
MASON, GREGORY	18, 74
MASON, J. A.	205, 467, 588 1
Marynnd Mason, Gregory Mason, J. A Mason, R. L Masonry, Incan Masques. See Pageants. Massachusetts Massasolt Maté. See Yarba maté	19, 707
MASON, R. L	708, 798
Masonry, Incan	164
Masques, See Pageants.	989
Massachusetts	241
Matsasoft Maté. See Yerba maté. MATTHEWS, WASHINGTON MAXWELL, HU Mayas Sec. dec. 2, 5, 12, 20, 61, 26	241
MARTINES WASHINGTON	200
MAYWELL, HIT	317 799
Mayas	195-216
See also 2, 5, 18, 20, 61, 86,	128 148
644, 704.	128, 148,
Meydene	381
MAZZINI, GIUSEPPE	800
MCBRIDE, G. M	170
MCDONALD, R. K	409
MCGEE, W. J	21, 300
MCGREGOR, J. C	410
MCGUIRE, J. D	9, 468
MCKENZIE, F. A	575, 589
MCLEAN, MARY	590
MCNAIR, J. B	382
	224 501
644, 704. Maydeae Mazzini, Giuseppe McBride, G. M McConato, R. K McGreeor, J. C McGuire, J. D McKenzie, F. A McLEAN, MARY McNAR, J. B McNAR, J. B Meacham, L. A MEACHAM, L. A MEACHAM, L. A MEACHAM, C. W Medicine	382
MEAN, C. W	171-173
Medicine	
general 5, 39, 48, 94, 218	3. 247. 250. 326-
327 473-474 545 64	0. 642-643. 648.
696-697, 722, 737-73	8, 744, 770-772,
774-777, 779, 782, 78	34, 788, 796-797,
799-802, 804-807, 81	2, 815-816, 828-
834, 838-839, 841.	a la faith a la
plants 18, 20, 90, 101, 10	05, 109, 224, 246,
305, 326-327, 359	478. 644. 650.
	0 -000
655, 665, 674, 703, 71	18, 737–738, 742,
Medicine- general 5. 39. 48, 94, 218 327, 473-474, 545, 64 606-607, 722, 737-73 774-777, 776, 782, 78 799-802, 804-807, 81 834, 838-839, 841. plants 18, 20, 90, 101, 14 305, 326-327, 359 655, 605, 674, 703, 71 744, 746, 764-841.	18, 737–738, 742,
Nee also Nanaotias	Charles and the second s
Nee also Nanaotias	Charles and the second s
Nee also Nanaotias	Charles and the second s
Nee also Nanaotias	Charles and the second s
See also Narcotics. MEJA XESSPE, M. T6 MCIONS6 MENA, RAMON6 MENDIZÁBAL, M. O. DE6	700 1, 227, 268, 541 801 122 829
See also Narcotics. MEJIA XESSPE, M. T. MClons MENA, RAMON. MENNIZÁBAL, M. O. DE. Menomini Indians. Menomini Indians.	709 1, 227, 268, 541 801 122 322 570, 632, 633, 737
See also Narcotics. MEJIA XESSPE, M. T. MClons MENA, RAMON. MENNIZÁBAL, M. O. DE. Menomini Indians. Menomini Indians.	709 1, 227, 268, 541 801 122 322 570, 632, 633, 737
See also Narcotics. MEJIA XESSPE, M. T. Mclons. MENNIZÁBAL, M. O. NE. MENNIZÁBAL, M. O. NE. Menomini Indians. 323, 432, 435, 1 See also Wisconsin.	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 801 \\ 122 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\$
See also Narcotics. MEJIA XESSPE, M. T. Mclons. MENNIZÁBAL, M. O. NE. MENNIZÁBAL, M. O. NE. Menomini Indians. 323, 432, 435, 1 See also Wisconsin.	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 801 \\ 122 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\$
See also Narcotics. MEJIA XESSPE, M. T. Mclons. MENNIZÁBAL, M. O. NE. MENNIZÁBAL, M. O. NE. Menomini Indians. 323, 432, 435, 1 See also Wisconsin.	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 801 \\ 122 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\ 322 \\$
See also Narcotics. MEJIA XESSPE, M. T. Mclons. MENNIZÁBAL, M. O. NE. MENNIZÁBAL, M. O. NE. Menomini Indians. 323, 432, 435, 1 See also Wisconsin.	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 801 \\ 122 \\ 322 \\ \hline 579, 632 \\ -633, 737 \end{array}$
See also Narcotics. MEJIA XESSPE, M. T. Mclons. MENNIZÁBAL, M. O. NE. MENNIZÁBAL, M. O. NE. Menomini Indians. 323, 432, 435, 1 See also Wisconsin.	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 801 \\ 122 \\ 322 \\ \hline 579, 632 \\ -633, 737 \end{array}$
See also Narcotics. MEJIA XESSPE, M. T. Mclons. MENNIZÁBAL, M. O. NE. MENNIZÁBAL, M. O. NE. Menomini Indians. 323, 432, 435, 1 See also Wisconsin.	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 801 \\ 122 \\ 322 \\ \hline 579, 632 \\ -633, 737 \end{array}$
See also Narcotics. MEJIA XESSPE, M. T. Mclons. MENNIZÁBAL, M. O. NE. MENNIZÁBAL, M. O. NE. Menomini Indians. 323, 432, 435, 1 See also Wisconsin.	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 801 \\ 122 \\ 322 \\ \hline 579, 632 \\ -633, 737 \end{array}$
See also Narcotics. MEJIA XESSPE, M. T Mclons MENNIZÁBAL, M. O. NE MENNIZÁBAL, M. O. NE Menomini Indians 223, 432, 495, I See also Wisconsin. Menus, all-American MFRIAM, LEWIS MERRIMAN, C. H MERRIMAN, C. H	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 122 \\ & 22-579, 632-633, 737 \\ 18, 28, 44, 64, 91 \\ & -75, 592 \\ & -75, 592 \\ & -75, 593 \\ & -75, 593 \\ & -75, 593 \\ & -75, 78, 593 \\ & -75, 78, 593 \\ & -75, 78, 262, 308 \\ & 265, 540, 810 \\ \end{array}$
See also Narcotics. MEJIA XESSPE, M. T Mclons MENNIZÁBAL, M. O. NE MENNIZÁBAL, M. O. NE Menomini Indians 223, 432, 495, I See also Wisconsin. Menus, all-American MFRIAM, LEWIS MERRIMAN, C. H MERRIMAN, C. H	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 122 \\ & 22-579, 632-633, 737 \\ 18, 28, 44, 64, 91 \\ & -75, 592 \\ & -75, 592 \\ & -75, 593 \\ & -75, 593 \\ & -75, 593 \\ & -75, 78, 593 \\ & -75, 78, 593 \\ & -75, 78, 262, 308 \\ & 265, 540, 810 \\ \end{array}$
See also Narcotics. MEJIA XESSPE, M. T Mclons	$\begin{array}{c} & 700 \\ 1, 227, 268, 541 \\ & 122 \\ & 22-579, 632-633, 737 \\ 18, 28, 44, 64, 91 \\ & -75, 592 \\ & -75, 592 \\ & -75, 593 \\ & -75, 593 \\ & -75, 593 \\ & -75, 78, 593 \\ & -75, 78, 593 \\ & -75, 78, 262, 308 \\ & 265, 540, 810 \\ \end{array}$
See also Narcotics. MEJIA XESSPE, M. T Mclons	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 710 75-78 593 37, 262, 308 265, 540, 810 extco. 738
See also Narcotics. MEJIA XESSPE, M. T Mclons	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 710 75-78 593 37, 262, 308 265, 540, 810 extco. 738
See also Narcotics. MEJIA XESSPE, M. T Mclons	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 710 75-78 593 37, 262, 308 265, 540, 810 extco. 738
See also Narcotics. MEJIA XESSPE, M. T Mclons	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 710 75-78 593 37, 262, 308 265, 540, 810 extco. 738
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians Menomini Indians See also Wisconsin. Menus, all-American MERRIAM, LEWIS MERRIAM, LEWIS MERRIAM, C. H MERRIAM, C. H MER	700 1, 227, 268, 541 122 322- 579, 632-633,737 18, 28, 44, 64, 91 575, 592 710 710 75-78 593 37, 262, 308 265, 540, 810 exico. 738 257 384 384 39 275, 303, 383 900 275, 303, 383 900 2000
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians Menomini Indians See also Wisconsin. Menus, all-American MERRIAM, LEWIS MERRIAM, LEWIS MERRIAM, C. H MERRIAM, C. H MER	700 1, 227, 268, 541 122 322- 579, 632-633,737 18, 28, 44, 64, 91 575, 592 710 710 75-78 593 37, 262, 308 265, 540, 810 exico. 738 257 384 384 39 275, 303, 383 900 275, 303, 383 900 295
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians Menomini Indians See also Wisconsin. Menus, all-American MERRIAM, LEWIS MERRIAM, LEWIS MERRIAM, C. H MERRIAM, C. H MER	700 1, 227, 268, 541 122 322- 579, 632-633,737 18, 28, 44, 64, 91 575, 592 710 710 75-78 593 37, 262, 308 265, 540, 810 exico. 738 257 384 384 39 275, 303, 383 900 275, 303, 383 900 295
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians Menomini Indians See also Wisconsin. Menus, all-American MERRIAM, LEWIS MERRIAM, LEWIS MERRIAM, C. H MERRIAM, C. H MER	700 1, 227, 268, 541 122 322- 579, 632-633,737 18, 28, 44, 64, 91 575, 592 710 710 75-78 593 37, 262, 308 265, 540, 810 exico. 738 257 384 384 39 275, 303, 383 900 275, 303, 383 900 295
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians 223, 432, 495, I See also Wisconsin. Menus, all-American MERNIA, LEWIS MERNIAN, C. H MERRIAN, C. H MERRIAL, E. D MERRIAN, C. H MERRIAN, C. H	700 1, 227, 268, 541 122 322- 579, 632-633, 737 18, 28, 44, 64, 91 757, 592 76-75, 592 76-76, 593 37, 262, 308 265, 540, 810 extco. 78 275, 303, 383 275, 303, 383
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians 223, 432, 495, I See also Wisconsin. Menus, all-American MERNIA, LEWIS MERNIAN, C. H MERRIAN, C. H MERRIAL, E. D MERRIAN, C. H MERRIAN, C. H MERRI	700 1, 227, 268, 541 122 322- 579, 632-633, 737 18, 28, 44, 64, 91 757, 592 76-75, 592 76-76, 593 37, 262, 308 265, 540, 810 extco. 78 275, 303, 383 275, 303, 383
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians 223, 432, 495, I See also Wisconsin. Menus, all-American MERNIA, LEWIS MERNIAN, C. H MERRIAN, C. H MERRIAL, E. D MERRIAN, C. H MERRIAN, C. H MERRI	700 1, 227, 268, 541 122 322- 579, 632-633, 737 18, 28, 44, 64, 91 757, 592 76-75, 592 76-76, 593 37, 262, 308 265, 540, 810 extco. 78 275, 303, 383 275, 303, 383
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians 223, 432, 495, I See also Wisconsin. Menus, all-American MERRIMAN, C. H MERRIMAN, C. H Mesquite Mesquite Mesquite Mesquite Mesquite Mestate Mestate Metate 41, 49, 120, 211, 27 647, 697, 755, 769, 7' See also Aztecs. MEYER, W. E Michigan 217	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 -757, 592 -76, 75, 592 -76, 75, 593 -76, 78, 593 -76, 78, 593 -37, 262, 308 -265, 540, 810 extco. -384 -275, 303, 383 -6, 17, 20-22, 6, 300, 388, 637, 75, 780, 817.
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians See also Wisconsin. Menus, all-American3, MERIAM, LEWIS MERRIMAN, C. H MERRIMAN, C. H_	700 1, 227, 268, 541 122 322- 779, 632-633, 737 18, 28, 44, 64, 91 575, 592 710 757, 78 593 205, 540, 810 exico. 738 275, 303, 383 884 99 275, 303, 383 802 6, 17, 20-22 6, 300, 388, 637, 75, 780, 817. 21 219, 369, 456, 677 89
See also Narcotics. MEJIA XESSPE, M. T Mclons Menomini Indians See also Wisconsin. Menus, all-American3, MERIAM, LEWIS MERRIMAN, C. H MERRIMAN, C. H_	700 1, 227, 268, 541 122 322- 779, 632-633, 737 18, 28, 44, 64, 91 575, 592 710 757, 78 593 205, 540, 810 exico. 738 275, 303, 383 884 99 275, 303, 383 802 6, 17, 20-22 6, 300, 388, 637, 75, 780, 817. 21 219, 369, 456, 677 89
See also Narcotics. MEJIA XESSPE, M. T Mclons Messer All Amon Menomini Indians See also Wisconsin. Menus, all-American MERLIL, E. D MERRIAL, See Peyote. Mescale o Apaches : New MG Meskwaki Indians MessenAGLIA, LUIGI Mestallurgy Metate METTEL, B. T Metate METTEL, B. T Metate METTEL, B. T Metate MEYER, W. D Michigan217 Michigan217 Micmac Indians 11, 17, 20	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 -75, 592 -76, 75, 592 -77, 70 -75, 593 -75, 593 -75, 593 -75, 593 -75, 593 -75, 593 -75, 593 -75, 593 -77, 78 -78, 738 -265, 540, 810 extco. -384 -275, 303, 383 -802 -6, 17, 20-22 6, 300, 388, 637, 75, 780, 817.
See also Narcotics. MEJIA XESSPE, M. T Mclons MENNIZÅBAL, M. O. NE MENNIZÅBAL, M. O. NE Menomini Indians See also Wisconsin. Menus, all-American, MERRIAM, LEWIS MERRIMAN, C. H MERRIMAN, LEWIS Merrima, S. Apaches : New MG MEYER, W. E Micmac Indians Michigan217 Micmac Indians 11, 17, 20	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 37, 262, 308 265, 540, 810 exteo. 738 265, 540, 810 exteo. 738 275, 303, 383 802 6, 300, 388, 637, 75, 780, 817. 329 219, 369, 456, 677 839 329 329 320, 23-25, 670, 707 711
See also Narcotics. MEJIA XESSPE, M. T Mclons MENNIZÅBAL, M. O. NE MENNIZÅBAL, M. O. NE Menomini Indians See also Wisconsin. Menus, all-American, MERRIAM, LEWIS MERRIMAN, C. H MERRIMAN, LEWIS Merrima, S. Apaches : New MG MEYER, W. E Micmac Indians Michigan217 Micmac Indians 11, 17, 20	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 37, 262, 308 265, 540, 810 exteo. 738 265, 540, 810 exteo. 738 275, 303, 383 802 6, 300, 388, 637, 75, 780, 817. 329 219, 369, 456, 677 839 329 329 320, 23-25, 670, 707 711
See also Narcotics. MEJIA XESSPE, M. T Mclons MENNIZÅBAL, M. O. NE MENNIZÅBAL, M. O. NE Menomini Indians See also Wisconsin. Menus, all-American, MERRIAM, LEWIS MERRIMAN, C. H MERRIMAN, LEWIS Merrima, S. Apaches : New MG MEYER, W. E Micmac Indians Michigan217 Micmac Indians 11, 17, 20	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 37, 262, 308 265, 540, 810 exteo. 738 265, 540, 810 exteo. 738 275, 303, 383 802 6, 300, 388, 637, 75, 780, 817. 329 219, 369, 456, 677 839 329 329 320, 23-25, 670, 707 711
See also Narcotics. MEJIA XESSPE, M. T Mclons MENNIZÅBAL, M. O. NE MENNIZÅBAL, M. O. NE Menomini Indians See also Wisconsin. Menus, all-American, MERRIAM, LEWIS MERRIMAN, C. H MERRIMAN, LEWIS Merrima, S. Apaches : New MG MEYER, W. E Micmac Indians Michigan217 Micmac Indians 11, 17, 20	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 37, 262, 308 265, 540, 810 exteo. 738 265, 540, 810 exteo. 738 275, 303, 383 802 6, 300, 388, 637, 75, 780, 817. 329 219, 369, 456, 677 839 329 329 320, 23-25, 670, 707 711
See also Narcotics. MEJIA XESSPE, M. T Mclons MENNIZÅBAL, M. O. NE Menomini Indians See also Wisconsin. Menus, all-American3, MERRIMAN, C. H MERRIMAN, C. H MERRIM, L. H. M. MAN, C. H MER	700 1, 227, 268, 541 122 322- 379, 632-633, 737 18, 28, 44, 64, 91 575, 592 37, 262, 308 265, 540, 810 exteo. 738 265, 540, 810 exteo. 738 275, 303, 383 802 6, 300, 388, 637, 75, 780, 817. 329 219, 369, 456, 677 839 329 329 320, 23-25, 670, 707 711

	I	tem
Minnesota	220-2	294
482, 484–489, 492–494, 545, 5 601, 664–665, 719, 815–816.	64.	92.
601, 664-665, 719, 815-816,		,
See also Chippewas.		
Miskito Indians	_	134
Mission Indians	_	517
Mission Indians Mission system	17.	224
Mississippl	-	21
Mississippi See also Chickasaws; Choctaws	:	
Natchez Indians.		
Mississippi Valley		21.
42, 46, 245, 250,	276.	681
42, 46, 245, 250, Missouri 42, 225, 234,	276,	681
Missouri Valley See also 42, 332, 399-401, 680, 743	225 -	239
See also 42, 332, 399-401, 680, 743	:	
also the tribes of the region.		
MITCHELL, G. E	-	301
Mixed cropping		80
Mohave Indians		570
Mohawk Indians	-	532
See also Iroquois.		
Money Montagnais Indisns	5-7,	196
Montagnais Indians	-	835
Montana	i	332,
399-401, 425, 465, 503, 501,	623,	
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Croy	ē23, w	
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians: Flathcad Indians: Mis	623, w	754
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians: Flathcad Indians: Mis	623, w	754
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians: Flathcad Indians: Mis	623, w	754
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians: Flathcad Indians: Mis	623, w	754
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis sourt Valley. MOON, II. P MOONEY, JAMES MORALES CABRERA, PABLO	623, w 8-	754 443 805 136
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis sourt Valley. MOON, II. P MOONEY, JAMES MORALES CABRERA, PABLO	623, w 8-	754 443 805 136
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Croy Indians; Flathcad Indians; Mis souri Valley. MOONEY, JAMES MORALES CABRERA, PABLO MORLEY, S. G	623, w 804- 206-	754 443 805 136 469 207
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathead Indians; Mis souri Valley. MOON II. P	623, w 804- 206-	754 443 805 136 469 207 712
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis souri Valley. Mooner, JAMES Morales CABRERA, PABLO Morice, A. G. Morter, S. G. Morton, F. S.	623, w 804- 206-	754 443 805 136 469 207 712 713
399-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis souri Valley. Mooner, JAMES Morales CABRERA, PABLO Morice, A. G. Morter, S. G. Morton, F. S.	623, w 804- 206-	754 443 805 136 469 207 712 713
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crow Indians; Flathead Indians; Mis souri Valley. MOON II. P. MOONEY, JAMES MORALES CARRERA, PABLO. MORICE, A. G. MORICE, A. G. MORICE, S. G. MORICE, F. L. MOSTON, F. S. MOSELEY, F. L. MOULTON, R. H. MOULTON, R. H.	623, w 3- 206- - 460,	754 443 805 136 469 207 712 713 594 735
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crow Indians; Flathead Indians; Mis souri Valley. MOON II. P. MOONEY, JAMES MORALES CARRERA, PABLO. MORICE, A. G. MORICE, A. G. MORICE, S. G. MORICE, F. L. MOSTON, F. S. MOSELEY, F. L. MOULTON, R. H. MOULTON, R. H.	623, w 3- 206- - 460,	754 443 805 136 469 207 712 713
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis sourt Valley. MOONEY, JAMES. MORALES CABRERA, PABLO. MORLEY, S. G. MORLEY, S. G. MORLEY, F. L. MOULTON, F. S. MOULTON, R. H. MOULTON, R. H. MOULTON, R. H. MULTOMAB Indians. MURDOCK, G. P. MURDOCK, G. P.	623, 804- 206- 460,	754 443 805 136 207 712 713 594 735 700 174 806
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis sourt Valley. MOONEY, JAMES. MORALES CABRERA, PABLO. MORLEY, S. G. MORLEY, S. G. MORLEY, F. L. MOULTON, F. S. MOULTON, R. H. MOULTON, R. H. MOULTON, R. H. MULTOMAB Indians. MURDOCK, G. P. MURDOCK, G. P.	623, 804- 206- 460,	754 443 805 136 207 712 713 594 735 700 174 806
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis sourt Valley. MOONEY, JAMES. MORALES CABRERA, PABLO. MORLEY, S. G. MORLEY, S. G. MORLEY, F. L. MOULTON, F. S. MOULTON, R. H. MOULTON, R. H. MOULTON, R. H. MULTOMAB Indians. MURDOCK, G. P. MURDOCK, G. P.	623, 804- 206- 460,	754 443 805 136 207 712 713 594 735 700 174 806
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis souri Valley. MOON.EY, JAMES. MORALES CABRERA, PABLO. MORICE, A. G. MORLEY, S. G. MORTON, F. S. MOSELEY, F. L. MOULTON, R. H. MOULTON, R. H. MOULTON, R. H. MULTOMA Indians. MULTOMA INDI	623, w 804- 206- 460, 673, 595-	754 443 805 136 207 712 713 594 735 700 174 806 678 597
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathead Indians; Mis souri Valley. MOON II. P	623, w 804- 206- 460, 673, 595-	754 443 805 136 207 712 207 712 504 735 504 735 700 174 806 6676 806 678 806 678 805 807 823
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Croi Indians; Flathcad Indians; Mis sourl Valley. MOONEY, JAMES. MORALES CABRERA, PABLO	623, 804- 206- 460, 673, 595- 820,	754 443 805 136 469 7712 594 735 594 735 594 735 676 678 676 678 823 23
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Croi Indians; Flathcad Indians; Mis sourl Valley. MOONEY, JAMES. MORALES CABRERA, PABLO	623, 804- 206- 460, 673, 595- 820,	754 443 805 136 469 7712 594 735 594 735 594 735 676 678 676 678 823 23
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Crov Indians; Flathcad Indians; Mis sourl Valley. MOON II. P. MOONEY, JAMES MORALES CABRERA, PABLO. MORICE, S. G. MORLEY, S. G. MORTON, F. S. MOSELEY, E. L. MOULTON, R. H. MOUND builders	623, 804- 206- 460, 673, 595- 820,	754 443 805 136 469 7712 594 735 594 735 594 735 676 678 676 678 823 23
390-401, 425, 465, 503, 501, See also Blackfoot Indians; Croi Indians; Flathcad Indians; Mis sourl Valley. MOONEY, JAMES. MORALES CABRERA, PABLO	623, 804- 206- 460, 673, 595- 820,	754 443 805 136 469 7712 594 735 594 735 594 735 676 678 676 678 823 23

N

N., H. B	-	386
Narcotics		
general 18, 48, 90, 134,	265,	640
conoba	822-	-823
daturas		-823
plants		823
sacred mushroom		823
snuffs	822,	823
See also Medicinal plants.		4.40
Nasturtiums		148
Natchez Indians	250,	833
See also Mississippi.		000
Navajos	252.	208,
275, 299, 344, 348, 391, 396,	432,	508,
528, 533-535, 550, 552, 560, 5 572, 582, 584, 595-597, 625,	89 0	000
572, 582, 584, 555-551, 025,	020,	000.
See also Arizona; New Mexico.	070	000
Nebrasks 227, 231,	100	584
Nett Lake Reservation	492,	004
See also Minnesota.		007
NEUBURGER, MAX Nevada Neville, R. T	600	000
Nevada	200	200
New France. See Canada, Quebcc.		901
	240	-243
New England See also 2-3, 6, 17, 21, 47, 58, 35	3	2.10
804, 310. New Jersey288, 292, New Mexico288, 292, 311, 343-344, 348, 357, 391, 534, 548, 550, 560, 571, 598,	21	470
Now Marico 288 292	296	-297.
311 343-344, 348, 357, 391,	508.	510.
534, 548, 550, 560, 571, 598.	602,	606.
See also Apaches; Navajos; Pueblo	8:	
Zuñis.		
		808

104

INDEX

I

		tem
T C		714
NEWBERRY, J. S NEWHALL, BEATRICE	-	79
NEWHALL, DEATRICE	-	21
New York See also Iroquols.		
Nez Percé Indians	595	740
Nez Perce Indians	000,	134
Nicaragua	-	80
NICOL, HUGH		166
Nicol, Hogh	81	3.98
NORDENSKIOLD, E	. 0.1.9	21
North Carolina 229, 237, 336, 400, North Dakota 229, 237, 336, 400,	591	878
North Dakota 229, 251, 550, 400,	001,	010
See also Arikaras ; Hidatsas ; Man	11-	
dans: Missouri Valley.		175
NORTON, H. K		624
Nuphar advena	110	106
Nuts90,	112, .	750
227, 244, 389, 672, 674, 785,	104	200
NORTON, 11. K	-124,	900
0		
0		
Oca		148
Oglala Dakota Indians		678
See also Sioux.		
0111-		21
See also Mound builders.		
	134,	244
Olihwa Indians 224, 327	, 612,	719
Ohio Sce also Mound builders. Oli Ojibwa Indians		
Oklahoma 537	, 541-	-542
See also Chippewas; Minnesota. Oklalioma 537 OLINECHTS, F. M.		805
OLIN. W. H		82
Ololinhaui	823,	837
OLSON, R. L		176
OLIN, W. H Ololiubqui Otson, R. L Omaba Indians	, 679,	820
110108		107
Gen stan Wagatabla foods		
Ontario. See Canada. OPLER, M. E 265, 598 Oregon		
OPLER. M. E 265, 598	1, 809	-811
Oregon 21, 641, 661	-662	691
Oregon tea		748
Ottawa Indians Ovens. See Cooking.		
Ovens. See Cooking. Oviboo v Valdžs, G. F. 45 Owens, J. G Orack hulf dweller culture		451
OWENS, J. G		667
Oxalis tuberosum		148
Ozark bluff-dweller culture	276,	681

р

Pachyma cocas	761
PACKER, B. G	324 716
Pagents 32,	
Pagents 32, Paints 63, 226, 244, 729, 742,	795
	571
Paintes	0
Pala Reservation	517
See also Mission Indians.	011
Palms	120
PALMER, EDWARD	715
Papa lisas	148
Papagos	266.
268, 300, 569-570, 588, 635,	685
See also Arizona.	
The married	207
Paraguay 17. 20.	421
Рагадиау 17, 20, Рагкина, А. С 191-192, 389	812
PARKING A B	85
Parsnip, cow PATRÓN, PABLO	748
PATRÓN, PABLO	444
LANNE H. J	20
Peanuts 3, 9, 18, 23, 47, 61, 90, 102, 105	, 112
PEET. S. D.	842
Pemmican	5
PENASD, J. M	85
Pennsylvania	21
Penobscot Indians	370
Pepinos	90
Peppers 20, 90, 107,	
Perfumes 677, 742	
PERROT, E 818	, 111
	-018
Peru. See Incas.	
Peruvian bark. See Quinine.	
Pests 119	, 212
PETRULLO, VINCENZO	, 813

	tem
Peucedanum eurycarpum	752 752
Peucedanum canbyi	10
'eyote - 764, 768, 773, 775, 778, 781, 787, 3 811, 813-814, 819-820, 824-827, 3	808-
811, 813-814, 819-820, 824-827, 3	830-
001.	500
PHILHOWER, C. A	470
PHAYNE, IGNATIUS PHILHOWER, C. A77 Phytogeography77 Pimas305,	391
Tytogeography 77 Pimas 305, 408, 460, 516, 568–570, 573, 626 See also Arizona. Pine Ridge Reservation 515	, 685
See also Arizona.	079
Pine Ridge Reservation 515 Sce also South Dakota.	, 010
Pineappies	701
Pipes tes tes tes tes tes	322,
452, 406, 460, 402, 404, 407-408, 475, 478-479	110,
Pipes	716
I lattis Citcossesses	
See also Crees. 5-6 Plains Indians	3, 17,
21, 23, 89, 116, 235-236, 417, 423	-424
narticular tribes.	
Piants used by Indians- cultivated 41, 715	
cultivated 41, 715	-716
foods. See Foods. industrial	640,
665, 674, 689, 696, 714, 716,	718-
industrial 665, 674, 689, 696, 714, 716, 719, 722–723, 726, 729, 734, 739, 742–744, 746.	131-
See also Fibers.	
	18,
28, 30, 41, 04-03, 75, 90-51, 112, 148, 210, 326-327, 654	-656.
$\begin{array}{c} 118ts\28, 36, 41, 64-65, 75, 90-91, \\ 112, 148, 210, 326-327, 654 \\ 668, 605-696, 737-738, 742, \\ 749, 742 \end{array}$	744,
112, 143, 210, 520-527, 004 668, 695-696, 737-738, 742, 748, 762. medicinal. See Medicine, plants.	
	36,
migrations 49, 60, 76, 356, 395, 442, 670,	701,
708, 713 origins	23,
origins	148,
386, 396–398, 652, 701, 803.	722
sacred 130, 447, 730-732, 805, 820)-823
uncultivated 14, 208, 598, 634	X841
Plays. See Pageants.	
Pogius	706
POINDEXTER, MILES	1 24
POPENOE, WILSON 208, 373	3, 717
Population of ancient America	4-7
Poglus Pointiac	, 110,
Potatoes	18 112
20, 74, 90, 101-103, 105, 107, 138, 147-149, 151, 159, 179, 499	112
517, 630, 701.	110
Potatoes 20, 74, 90, 101-103, 105, 107, 136, 147-148, 151-152, 173, 438 517, 630, 701. Potawatomi Indians See die Wisconsin	226
See wood Wisconsin.	0.0
Fottery	l, 90
102, 296, 349, 363, 373, 382, 442, 448-447, 744	396
Pouse	740
Pouse. Power, J. W. Powers, Stephen.	87
POWERS STEPHEN	28, 88 718
PRESCOTT, PHILANDER	23
POWERS, STEPHEN PRESCOTT, PHILANDER PRESTON, P. J Promise Indian Farmers' Ciub	56
PROVINSE, J. II	302
Pueblo Crondo de Neroda	1, 29
	3
18, 37, 255-256, 274-275 278	282
289, 314, 343, 348, 529, 550, 553 617.	, 584
See also New Mexico	
Pueblo Land Act (1924)	5 13
Pumpkins	5-13 74
90, 102-103, 105, 107, 112, 190), 22
Durstano	101

Q	Item
Quamasia quamash Quebec, See Canada.	
Quebec, See Canada, Quenua Quera	90
Quechua Indians Quileute Indians	150, 443
Quinine 9. 18, 49, 65, 90, 105, 112,	83 IN
794, 840. Quinoa	
R	
Raïz diabólica. See Devil's root.	
Rakes. See Implements. RALEIGH, WALTER	. 446. 449
RAMIREZ, JOSÉ RAY, C. N	814
REAGAN, A. B	304,
Red Lake Reservation	, 815-810
See also Minnesota. REDFIELD, ROBERT	817
REEVES, R. G REINBURG, P	381
Reindeer moss	

teligion-				
beliefs			6	, 17,
20, 23, 129, 136, 833-834.				
relation to economic life				20,
relation to economic life 66, 130, 398, 447, 742, 833	465,	478,	514,	556,
See also Ceremonials; M	Avtho	logy.		
RENARD GEORGES				2
RENAUD, E. B				89
Reservations				
Reservations21, 24, 224, 233.	344	370	391	485
488, 492, 500-63	3.			100,
See also under specific r	eserva	ation	s.	
REYNOSO, ALVARO RHOADS, C. J				137
RHOADS, C. J				581
Rhode Island				240
Rice. See Wildrice.				
Rice. See Wildrice. Rice, S. A				23
RICE, S. A RIEMER, CHARLOTTE RIGGS, A. S.				493
RIGGS, A. S				200
RILEY, R. M				209
RILEY, R. M Rio Grande Valley		616,	647,	781
RIDDEDCED HENDIETTA				- 390
Roads			_ 177	, 184
ROBBINS, W. W				723
Roads Robbins, W. W Robegts, F. H. H., Jr			125.	, 602
ROE. F. G				417
ROE, F. G. ROOSEVELT, C. V. S				178
Rosehud Reservation				515
See also South Dakota.				
See also South Dakota. Ross, E. D			. 315	, 402
ROUTHIER, ALEGANDRE				919
Roys, R. L. Rubher Rugs. See Weaving.				210
Rubher	3. 5.	17.49	9. 105.	822
Rugs. See Weaving.		.,		
RUHRÄH, JOHN				807
RUHRÄH, JOHN			. 724	-725
RUSSELL, FRANK			_ 305	, 654
Rust black		_		649
Rust, black RYAN, W. C., Jr			575	. 592
RYBIN, V. A				445
RYDDERG P. A				

S

Sacagawea	691 20
See also Sugar. Saddles430.	432
SAFFORD, W. E90 126-127, 446, 727-733, 787, 820-	-94.
Sagittaria latifolio	700
St. Tammany Parish, Louisiana	650 447
SALAMAN, R. N	754
Salt River Valley 37, 253, 277,	313
See also Arizona.	95
Sanitation	5

I	tem
Santa Rosa Valley	588
Santa Rosa Valley 96 Sappen, KarL 96 Saskatchewan, See Canada. SAUER, CARL	-97
SAUER CARL.	98
SAUNDERS, C. F.	734
SCHMECKABIER, L. F	603
Saskatchewan, See Canada. SAUER, CARL	325
Schools. See Education.	0=0
Schultes, R. E 825-	826
Scoffeld, C. S.	484
SCOTT, J. E	497
Screwbean	257
SEAGER, F. W	735
Screwbean SEAGER, F. W. SEARS, P. B. Seasonings. See also Cooking.	746
See also Cooking. Seasons, astronomical determination 5 23-24, 148-149, 197, 199, 206, 2 261, 382. SELER, EDUARD	90
23-24, 148-149, 197, 199, 206, 2	214.
261, 382.	
SELER, EDUARD	704
See also Florida.	TT
261, 382. SELER, EDUARD	-688
See also Iroquois.	606
SETCHELL, W. A	471
SETZLER, F. M	306
SEYMOUR, F. W 607-	-608
Shawnee Indians	21
SHEA, AGNES	736
Sheep 151, 173, 268, 548, 552, 571, 582, See also Navaios: Southwest United	008
States: Wool.	
SHEPARD, WARD	530
SHEPARD, ANNA	752
SHETRONE, H. C	472
SHONLE, RUTH	827
SIDLEY GEORGE	234
SIGERIST, H. E	777
Sikani Indians	808
SIMMS, S. C.	474
Sioux 21, 233, 515,	544
SHALER, N. S. Shawnee Indians	600
Sigal 5.	. 207
SKINNER, ALANSON 475	-476
SKINNER, C. L. 5 15 17 20	20
SMITH. H. H	-738
SMITH, II. I	828
SMITH, J. F	010
annual reports 124, 147-	148,
196, 309, 374, 446, 468, 636, 821	, 823
miscellaneous collections series 408	.777
SIMMES, CHARLES SINGER, CHARLES Sioux 21, 233, 515, See also Missouri Valley. SIPE, S. B Sisal 5 SKINNER, C. L Slavery 5, 15, 17, 20 SMITH, H. H 326-327, 737. SMITH, J. F SMITH, J. F Smithsonian Institution 124, 147. 106, 309, 374, 446, 468, 636, 821. miscellaneous collections series Misclaneous collections series 408. Scientific scries 408. Se also U. S. Bureau of American See also U. S. Bureau of American	375
The second second	
Ethnology. 21 Smoking-22	2.24,
452 460 468-470 474, 478, 050	, 742
See also Tohacco.	322
Snakeroot SNIFFEN, M. K	611
1 Snuff-	
cebil 90, 822	822
huillea narcotic tobacco4 Social organization4 17, 23, 25, 148, 174, 204, 225, 251, 514	822
tobacco4	-6.8
17 23 25, 148, 174, 204, 225.	249.
202, 021,	100
Socialism, Incan5, 18. 142, 144, 157–159, 174, 181–182	139-
Soil Conservation Service	597
Sotol	
Sotol2, 17, 40, 55, 134 South America2, 17, 40, 55, 134 See also under specific countries.	1, 165
South Carolina 21	, 747
South Carolina 21 South Dakota 515, 565	5, 678

INDEX

Item	1
South, United States. 6, 21, 244-251, 329, 466 See also Catawbas; Cherokees;	
Chickasaws; Chockiws; Creeks; Natchez Indians; Seminoles. 822 Southwest, ROBERT. 30, 252, 279 Southwest, United States. 252-314 See also 3, 5-6, 13, 37, 344, 391, 403-411, 519, 556, 560-561, 602, 697; also under the tribes of the region	3
Southwest Museum	
Southwest, United States 252-314	
403-411, 519, 556, 560-561, 602,	1
697; also under the tribes of the	1
бы ; аляо индер спестное бы спес гедол. 739 Врекк, К. G	17
SPECK, F. G 99-100, 612, 829 SPECK, F. 1 612	555
SPILLMAN, W. JL L L L L 575	
Squanto 44, 47, 58, 241	1
Squashes	
112, 227, 237, 268, 289, 389, 401, 556	1
SQUIER, E. G	111
STADELMAN, RAYMOND 204	1
ing.	1
Staticcase farming. Sce Terrace farming. Staticcase farming. Staticcase farming. STANDLEY. P. C. 817 STEEDER. H. M. 391 STEPETEN, MAX 122 STEPGGERDA. MORRIS. 212, 644, 833 STEVENS, ALDEN. 613 STEVENS, O. A. 614 STEVENS, O. A. 307 STEVENS, O. A. 616 STEVENS, O. A. 302 STEVENS, O. A. 301 STEVENS, O. A. 301 STEVENS, O. A. 301 STEVENS, O. A. 301 STEWENS, S. H. 301 Stricking, M. W. 302 Storehouses, See Granaries. 301-831 Storehouses, See Granaries. 746 Storehouses, See Granaries. 303 Structsvart, E. L. 303 Supar. 303 Supar. 304 Supar. 304 Storehouses. 304	
STEEDMAN, E. V 742	
STEELE, G. F	
STEGGERDA, MORRIS 212, 644, 830	
STEVENS, ALDEN614 STEVENS, O. A680, 743	
STEVENSON, M. C	
STEWART, G. R. 307 STICKNEY, G. P. 392, 494	
STIRLING, M. W 100	3 '
STONE, A. L	
STONE, EBIC 831-832	
STORY, I. F 615	
STOUT, A. B	
STRONG, W. D 230	5
STURTEVANT, E. L. 107, 393-394 Sugar. See Maple Sugar.	
Sumu Indians13	4 2
Surgeons 801	i
SUTGEONS 80 SUBUP, PEOL. 377 SWANTON, J. R. 150 247-251, 426, 448, 747, 833-83 300 Sweetpotatoes 74, 107, 134, 148-15 Sweetpotatoes 74, 107, 134, 148-15 Sweetpotatoes 74 Sweetpotatoes 61 Swimpr, L. G 80	
247-251, 426, 448, 747, 833-834	4
Sweetpotatoes 74 107, 134, 148-150	
SWEETSER, A. R	8
Swimmer manuscript	5
T Taclla 14 TAGUIANI, G 17 TANTAQUIDGEON, GLADYS 83 TANU, KISHKA 77 Tarabumaris Indians 82 TAX, SOL 21 TAYOR, NORMAN 44 Tca 78, 20, 90, 112, 74 See also Yerba maté. 18, 20, 90, 112, 74	7
TAGLIANI, G	9
TANTAQUIDGEON, GLADYS 83. TAND, KISHKA 77	5
Tarabumaris Indians 82	ŏ
TAX, SOL 21 TAYOR, NORMAN 44	3
TAYLOR, W. A	9
Sec also Yerba maté.	0
TECUMSEH 1	7
TEIT, J. A. 74	2
Tenure 82 Tenure 8-7 20 65	9
See also Yerba maté. TECU MSEH 1 TEENLE, J. E. 21 TRIT, J. A. 74 Tennesee 32 Tenure 6-7. 20, 62 Teocontil 74 Teocontil 74	7
Teocentl	5
Teonanacati 82	0.1
Teosinte 373, 381, 39 Tepoztlan 81	7 [
TERMER, FRANZ	7
TESCHAUER, CARLOS75 Teton Dakotas239, 43	0
2000 Datotas 289, 43	4

	Item
Tewa Indians	723
Texas 303	, 306, 409
See also Rio Grande Valley.	
Textiles	5,
18-19, 23, 90, 94, 134, 143,	154-155.
160-162, 183, 223, 252, 270,	286, 291,
294, 299, 404, 409-410, 696,	718
THACKERY, F. A	309-310
THENET. ANDRÉ	474
THOBURN, J. B.	311-312
THOMAS, CYRES	21. 108
THOMPSON E. K	245
THOMPSON J E	129.201
See also Rio Grande Valley. Textiles	432, 742
THOMPSON PRANK	395. 762
Thurboria theonesioides	403 405
Tillago 7 20 35 47 6	1 65 224
See also Cultivation: Implement	R :
Thurberia thespesioides Thurberia thespesioides Tillage 7, 20, 35, 47, 6 See also Cultivation; Implement Irrightion.	
TINDALL, CORDELL	396
Tingit Indians	- 453
TISOTANTIM See SOLANTO	100
TISQUANTUM. See SQUANTO. TITUS, W. H	495
Tobacco	450-480
5-7. 9. 12 18 20 22-26	47. 49
65 74 90-95 101-103	105, 112
134, 190 224 227 237	246, 250
322, 555, 557, 655, 742, 748	823.
See also 5-7, 9, 12, 18, 20, 22-26 65, 74, 90-95, 101-103, 134, 190, 224, 227, 237, 322, 555, 557, 655, 742, 748, Tomatoes Tomatoes Indiana	107, 151
Tonkawa Indians	809
Tools. See Implements.	000
TORO, ALFONSO	130
Tools. See Implements. Tools, See Implements. TORO, ALFONSO TORREY, JOHN TRABUT, LOUIS TRABUT, LOUIS 187 196 260	751
TRABUT. LOUIS	751 836
Trade 187, 196, 260.	478. 514
Transportation	
Trade 187, 196, 260, Transportation 17, 19-20, 23-25, 177,	187. 228
TRIMELE, HENRY Trips de roche. See Reindeer moss Tripsaeum TROLL, C	752
Tripe de roche. See Reindeer moss	
Tripsaeum	371, 381
TROLL, C	180
TROLL, C TRUMRULL, J. H Tseca-matseitcic, or Wolf Chief Tuckahoe636, 683	. 652, 753
Tseca-matseitcic or Wolf Chief	429
Tuckahoe 636, 683	, 751, 761
Turkeys. See Wild furkeys.	2
Tuckahoe 636, 683 Turkeys. See Wild turkeys. TURNEY, O. A	. 277, 313
TURNEY, O. A TURNEY-HIGH, HARRY	. 427, 754
ΰ	
TIGADTE C A	181-182
UNDERGITER N	988 817
United States Burenu of Amoria	an
Ethnology_Annuel Reports	109
135 226 247 251 200 305	222 350
489 665 680 749 744 804	022 834
hulieting 9 139 134 948	250 204
461 558 602 650 664 697	723 805
UGARTE, C. A. UNDERHILL, R. M. United States Bureru of Americ Ethnology—Annurl Reports	, 140, 000
hulleting	660
contributions	657 661
reports	657, 660 657, 661 662 586
United States National Park Service	586
United States Office of Indian Affair	8- 506
569, 575, 581, 593, 603, 605	-606 808
contributions reports United States National Park Service United States Office of Indian Affair 509, 575, 581, 593, 603, 605 URBINA Y ALTAMIRANO, MANUEL Utah296, 304, 560 Ute Indians296, 304, 560 Ute Indians	755 837
Utah 296 304 560	571 655
Ute Indians	656
Utensils. See Implements,	
and a second second	
V	
VAILLANT, G. C	
VALLANT, G. C	412
VALUTTE, M. F	
	183
VANITON N I	
VAVILOV, N. I	183 776 - 109-111
VAVILOV. N. I Vegetable foods	$ \begin{array}{c} 183 \\ -776 \\ 109-111 \\ -6-7, \\ 01 \\ 04 \\ 05 \end{array} $

Item

	Item	1
Vicuña	5	1
Vigita	588	1
VILLIERS, M. DE	838	7
Virginta 3	15-318	1
See also 6, 9, 17, 21, 47, 58, 245.		

W

WALLACE, D. A.	314
WALLIS, W. D.	839
Wanatoo	700
Wapatoo Warehouses. See Granaries.	100
Washington 462,	720
Washita Indians 402,	541
Washtenaw County, Michigan	219
Water supply	281
Water Supply 004	662
Waterilly634, WATERMAN, T. T103, 433, Watermelons61, 227, 268,	002
Watermalong 61 007 969	640 541
WATSON, DON OI, 221, 208,	37
WATT, GEOROE	413
WAUCH, F. W	
Wather ioro	514
Weather iore 37, 397-	-398
WEATHERWAX, FAUL 51, 591-	-598
Weaving	
	223,
252, 286, 299, 535, 548, 584, 604,	744.
WEDEL, W. R WENZ, ALFRED399,	113
WENZ, ALFRED 399,	623
WEST, G. A	-479
West, G. A	2,
	442
WEYL, C. G	223
Wheeler-Howard Act. See Indian Re-	223
Wheeler-Howard Act. See Indian Re-	
Wheeler-Howard Act. See Indian Re-	
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	624 564
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	624 564 460
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R White Earth Reservation485, See also Minnesota. WHITE, JOHN White Mountain Apaches	624 564
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R White Earth Reservation	624 564 460 721
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R485, See also Minnesota. WHITE, JOHN WHITE, JOHN White Mountain Apaches See also Apaches.	624 564 460 721 179
 Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520
 Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520
 Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520
 Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520
Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520
Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520 186 480 495 322,
Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520 186 480 322, -499
Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520 186 480 322, -499
Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520 186 480 322, -499
Wheeler-Howard Act. See Indian Reorganization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 520 186 480 495 322, 499 353 757 318
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 5200 186 4805 322, -499 3533 757 318 625
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 5200 186 4805 322, -499 3533 757 318 625
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 5200 186 4805 322, -499 3533 757 318 625
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	$\begin{array}{r} 624\\ 564\\ 460\\ 721\\ 179\\ 520\\ 186\\ 480\\ 495\\ 322\\ ,\\ 499\\ 3537\\ 757\\ 318\\ 625\\ 432\\ 429\\ 332\end{array}$
Wheeler-Howard Act. See Indian Re- organization Act. WHEELER, L. R. White Earth Reservation	624 564 460 721 179 5200 186 4805 322, -499 3533 757 318 625

	I	tem
	WILSON, TOM WINCHELL, N. H	758 224 528
-	Winnehago Indians	633
1	Wisconsin319- See also 84, 223, 392, 432, 437, 479, 482, 495, 579, 630-633, 737	-327
	WISSLER, CLARK 23 114-117, 238, 401-402, 430-433,	-26, 627
	метрика марриально и какана марриально и каканана марриально и каканананана марриально и каканананананананананананананананананан	-629 -633
	Wokas Wolf Chief WoLF, F, A Wood, See Forests, uses,	662 429 761
	Wood, See Forests, uses. Wood, G. B WOOD, WILLIAM	840 26
	Wood, G. B. Wood, William. Wood, Wilson Wood, K. B	839 239 23
	Wool 143, 148, See also Llamas; Sheep; Weaving. WORK, HUBERT	548 575
	WOODRUFF, K. B	498 131 187
	v	
	Xochimilco Xochimacaztii (sacred can flower) 730- Xochipaiii (flower paint)	118 -732 729
	v	
	Yajé Yampa. See Ipo. YANOVSKY, ELIAS762- Vacha hunna.	818
	Yerha maté 3 18 90 112 646 651	698
	Vosemite Indians 301.	702
	YOUNGKEN, H. W 207, 216 Yucatán 207, 216 See also Mayas.	644
	See also Mayas. 201, 210 Yucca 136, 270, 290, Yuma Indians 555,	734 557
	Z	
	Z ZAITZEV, G. S ZIMMER, J. T Zizania aguatica. See Wildrice. Zuñi Indians	414 499
	Zuñi Indians271, 344, 348, 350, 556, 602.	268, 744

Sce also New Mexico.

0