Chapter 10

Kiowa Ethnobotany

10.1 Introduction

The ethnological and ethnohistorical literature review documented approximately 124 plant resources acknowledged or used by the Kiowa. Seventy-three plants were recorded as food resources, including fodder for horses. Sixty-eight plants were listed as having medicinal value and 26 plants had explicit religious or spiritual value. Fifty-seven flora resources were used in the manufacture of material items. Of the complete plant inventory, the literature recorded six plants with no cultural use for the resource. Below are the plant resources listed by scientific name, although some plants could not be specifically identified. These plants are listed as unidentified.¹

10.2 Ethnobotanical Resources

<i>Acer negundo L.</i> Boxelder; Aceraceae	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Kaw-sen-an-daw</i> Not given
Habitat/Ecological Zone: Found in moist, sheltered locations, the foothills to montane regions. The tree is distributed from central British Columbia, Canada to New Mexico	
Plants Parts Harvested:	Wood
Season Collected:	Not given

Spiritual/Religious Use(s): Wood burned in the altar fire of the peyote ceremony

References: ²

Aesculus glabra var. arguta (Buckl.) B.L. Robins Ohio Buckeye; Hippocastanaceae Western Buckeye

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Kon-ta-la</i> Not given
Habitat/Ecological Zone:	Found from Nebraska south into Texas
Plants Parts Harvested:	Fruit
Season Collected:	Not given
Medicinal Use(s): powerful emetic.	The inside of the fruit is brewed into a drink that makes a
References: ³	

Amaranthus blitoides S. Wat Mat Amaranth; Amaranthac Spreading Pigweed; Prostrate Amaranth	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Wyoming south to northern	Occurs in dry or cultivated ground. It is found from Mexico.
Plants Parts Harvested:	Not specified in the literature
Season Collected:	Not given
Artifacts:	Used to make glue

References: ⁴

Ambrosia trifida Ambrosia psilostachya DC Ambrosia artemisiifolia Giant Ragweed; Cuman Ragweed; Asteraceae

Tribal Nation:	Kiowa
Indigenous Name:	Ko-'khad-la, tan-go-pan-ya A-'sahe
Meaning:	"Horse worm plant "Green plant"
Habitat/Ecological Zone:	Pastures, roadsides, stream banks, and disturbed areas
Plant Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s): for slow healing sores	Decoction or tea of plant used as a wash for sores or drank
Additional Commentary: applied to pickles and vinegation	Because of the plant's bitter taste the same terms also is r.
References: ⁵	

Ambrosia trifida Ambrosia psilostachya DC Ambrosia artemisiifolia Giant Ragweed; Asteraceae Cuman Ragweed	
Tribal Nation:	Kiowa
Indigenous Name:	Ko-ʻkhad-la, tan-go-pan-ya A-ʻsahe
Meaning:	"Horse worm plant "Green plant"

Habitat/Ecological Zone:	Pastures, roadsides, stream banks, and disturbed areas
Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s): disease of horses.	Decoction or tea of plant was used for "worm holes", a skin
References: ⁶	

Ambrosia trifida Ambrosia psilostachya DC Ambrosia artemisiifolia Giant Ragweed; Asteraceae Cuman Ragweed	
Tribal Nation:	Kiowa
Indigenous Name:	Ko- 'khad-la, tan-go-pan-ya
Meaning:	<i>A- 'sahe</i> "Horse worm plant "Green plant"
Habitat/Ecological Zone:	Pastures, roadsides, stream banks, and disturbed areas
Plants Parts Harvested:	Plant
Season Collected:	Not given
Spiritual/Religious Use(s): sages in the sweathouses.	Western Ragweed was rolled up and used with various
References: ⁷	

Ambrosia trifida	
Giant Ragweed; Asteraceae	

Tribal Nation:	Kiowa
Indigenous Name:	Below is literal translation of the Kiowa name, but no

Meaning:	Kiowa terms recorded for the plant "Bloody plant"
Habitat/Ecological Zone:	Pastures, roadsides, stream banks, and disturbed areas
Plant Parts Harvested:	Plant
Season Collected:	Not given
Artifacts: plant to watch the "bloody" l	Kiowa children took delight in breaking off a branch of the iquid that would exude from the stems.
Additional Commentary:	Formerly the plant was held in fear by the Kiowa. ⁸
References: ⁹	

Ambrosia trifida Giant Ragweed; Asteraceae

Tribal Nation:	Kiowa
Indigenous Name:	Below is literal translation of the Kiowa name, but no Kiowa terms recorded for the plant
Meaning:	"Bloody plant"
Habitat/Ecological Zone:	Pastures, roadsides, stream banks, and disturbed areas
Plant Parts Harvested:	Plant
Season Collected:	Not given
Artifacts:	The plant is used in making an arbor shelter
Additional Commentary:	Formerly the plant was held in fear by the Kiowa. ¹⁰
References: 11	

Ambrosia trifida Giant Ragweed; Asteraceae

Tribal Nation: Kiowa

Indigenous Name: Meaning:	Below is literal translation of the Kiowa name, but no Kiowa terms recorded for the plant "Bloody plant"
Habitat/Ecological Zone:	Pastures, roadsides, stream banks, and disturbed areas
Plant Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s):	The plant is used in making the covering of the sweatlodge.
Additional Commentary:	The Kiowa formerly held the plant in fear. ¹²
References: ¹³	

Amorpha fruticosa L Desert Indigobush; Fabaceae False Indigo

Indigenous Name: *Khawdl-pa'* Meaning: Not given

Habitat/Ecological Zone: Streams and dependable water, Central Texas west to California, north to Wyoming across, south into northern Mexico.

Kiowa

Plants Parts Harvested: Stems

Season Collected: Not given

Artifacts: Long stems used as a foundation for bedding material on which to build temporary beds of leaves.

References: 14

Tribal Nation:

Apocynum cannabinum L. Dogbane; Apocynaceae Indian Hemp

Tribal Nation:

Kiowa

Indigenous Name:	'Ghola
Meaning:	Not given

Habitat/Ecological Zone: Prairies, open and wooded waterways, lakeshores, sparsely wooded slopes and disturbed roadsides. Found from Canada and widely distributed across the United States

Plants Parts Harvested: Milky latex or sap

Season Collected: Not given

Food Use(s): Milky latex used as chewing gum by allowing the sap to harden over night into a white gum.

Additional Commentary: Two types of gum are recognized. The first is the sap allowed to harden over night. The other is sap allowed to set for only a few hours.¹⁵

References: ¹⁶

Argemone polyanthemos (Fedde) G.B. Ownbey Leafy White Prickly Poppy; Papaveraceae Crested Prickly Poppy

Tribal Nation: Kiowa

Indigenous Name:Senzt-ka-ya-keeMeaning:Not given

Habitat/Ecological Zone: Found on the prairies and plains from southern Wyoming south into Texas and New Mexico

Plants Parts Harvested:	Leaves
Season Collected:	Not given
Artifacts: prickles.	Leaf ash used under the skin for tattooing with sharp
References: ¹⁷	

Artemisia filifolia Torr

Sand Sagebrush; Asteraceae Sivery Wormwood

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>H-taig-h-gai</i> "Sage"
Habitat/Ecological Zone: Texas and New Mexico	The plant is native to Wyoming, Nebraska, and south into
Plants Parts Harvested:	Plant
Season Collected:	Not given
	6
Artifacts: for toilet paper.	Circa 1939, they use for drying hands and as a substitute

Artemisia filifolia Torr Sand Sagebrush; Asteraceae Sivery Wormwood

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>H-taig-h-gai</i> "Sage"
Habitat/Ecological Zone: Texas and New Mexico	The plant is native to Wyoming, Nebraska, and south into
Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s): it of diseases, but the practice	Pre-reservation the plant was used to wash the scalp to rid ended after the reservation period

References: 19

Artemisia ludoviciana ssp. ludoviciana Artemisia gnaphalodes

Foothill Sagewort; Asterace: Prairie Sage	ae
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Ta-a</i> Not given
Habitat/Ecological Zone: into Mexico	Common to the prairie region from Colorado, Texas and
Plants Parts Harvested:	Leaves and small stems
Season Collected:	Not given
Medicinal Use(s): indigestion	Infusion of plants taken for stomach troubles and
Additional Commentary: swallow them	Usually they roll up the leaves and small stems, chew and
References: ²⁰	

Artemisia ludoviciana ssp. lu Artemisia gnaphalodes Foothill Sagewort; Asteracea Prairie Sage	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Ta-a</i> Not given
Habitat/Ecological Zone: into Mexico	Common to the prairie region from Colorado, Texas and
Plants Parts Harvested:	Leaves and small stems
Season Collected:	Not given
Medicinal Use(s):	Infusion of plants taken for the lungs
References: ²¹	

Artemisia ludoviciana ssp. ludoviciana Artemisia gnaphalodes Foothill Sagewort; Asteraceae Prairie Sage

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Ta-a</i> Not given
Habitat/Ecological Zone: into Mexico	Common to the prairie region from Colorado, Texas and
Plants Parts Harvested:	Leaves and small stems
Season Collected:	Not given
Season Collected: Medicinal Use(s):	Not given Infusion of plants taken for the lungs or to cut phlegm.

Artemisia ludoviciana ssp. mexicana (Willd. ex Spreng.) Keck Mexican White Sagebrush; Asteraceae Mexican Mugwort

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Texas, and into Mexico	Prairies and semi-disturbed sites. Found in Oklahoma,
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s):	Poultice of chewed leaves and applied to sores.
References: ²³	

Artemisia ludoviciana ssp. mexicana (Willd. ex Spreng.) Keck Mexican White Sagebrush; Asteraceae Mexican Mugwort

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Texas, and into Mexico	Prairies and semi-disturbed sites. Found in Oklahoma,
Plants Parts Harvested:	Leaves and stems
Season Collected:	Not given
Spiritual/Religious Use(s):	Plant used as a purifying agent in the sweathouse.
References: ²⁴	

Artemisia ludoviciana ssp. ma Mexican White Sagebrush; A Mexican Mugwort	exicana (Willd. ex Spreng.) Keck steraceae
Tribal Nation:	Kiowa

Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Texas, and into Mexico	Prairies and semi-disturbed sites. Found in Oklahoma,
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s):	Leaves chewed for sore throats.
References: ²⁵	

Artemisia ludoviciana ssp. mexicana (Willd. ex Spreng.) Keck Mexican White Sagebrush; Asteraceae Mexican Mugwort

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Texas, and into Mexico	Prairies and semi-disturbed sites. Found in Oklahoma,
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s):	Leaves chewed for sore throats.
Spiritual/Religious Use(s):	Commonly employed in peyote meetings
References: ²⁶	

Artemisia vulgaris L Common Wormwood; Asteraceae Common Mugwort

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: United States	A native to Europe, but has become naturalized across the
Plants Parts Harvested:	Leaves and stems
Season Collected:	Not given
Medicinal Use(s):	Plant used as a "worm" medicine.
References: ²⁷	

Artemisia vulgaris L Common Wormwood; Aster Common Mugwort	aceae
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: United States	A native to Europe, but has become naturalized across the
Plants Parts Harvested:	Fiber
Season Collected:	Not given
Spiritual/Religious Use(s): ceremony.	Used to make cushions for the worshippers in the peyote
References: ²⁸	

Artemisia vulgaris L Common Wormwood; Asteraceae Common Mugwort

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: United States	A native to Europe, but has become naturalized across the
Plants Parts Harvested:	Leaves
Season Collected:	Not given

Spiritual/Religious Use(s): Leaves rubbed on the face and hands as a purifying agent among the worshippers during a peyote ceremony. This was done at the beginning of the meeting.

References: 29

Asclepias sp. Milkweed; Asclepiadaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Zaip-ya-daw</i> Not given
Habitat/Ecological Zone: Montana to New Mexico	Moderately dry, open or shaded sites; plains to sub-alpine;
Plants Parts Harvested:	Young fruits
Season Collected:	Not given
Food Use(s): cooked and eaten.	Young fruits, after first removing the outer "hairy" surface,
References: ³⁰	

Asclepias sp. Milkweed; Asclepiadaceae	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Zaip-ya-daw Not given
Habitat/Ecological Zone: Montana to New Mexico	Moderately dry, open or shaded sites; plains to sub-alpine;
Plants Parts Harvested:	Pods
Season Collected:	Not given
Artifacts:	Dried pods formerly used as spoons.
References: ³¹	

Berberis vulgaris (Linn.) Barberry Tribal Nation: Kiowa

Indigenous Name: Meaning: *'Kawdl-shap-pa-a* Not given

Habitat/Ecological Zone: A native species to Europe and temperate Asia, the species became naturalized throughout North America.

Plants Parts Harvested: None

Season Collected: Not given

Additional Commentary: The Kiowa knew Barberry, but they made to apparent use of the plant, although various parts are edible.

References: ³²

Bothriochloa saccharoides (Silver Bluestem; Poaceae Bear Grass; Big Feather Grass; Cane Beard Grass	Sw.) Rydb.
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>So-wangs- 'kson</i> Not known
Habitat/Ecological Zone:	
Plants Parts Harvested:	Stem
Season Collected:	Not given
Medicinal Use(s):	Stem used as a toothpick.
References: ³³	

Bouteloua curtipendula (Michx.) Torr. Side-oats Grama; Poaceae

Tribal Nation: Kiowa

Indigenous Name: Meaning:	Not given "Lance grass"
Habitat/Ecological Zone: British Columbia, Canada to	Dry, open sites, often on saline soil; plains to montane; New Mexico
Plants Parts Harvested:	Grass stems
Season Collected:	Not given
Food Use(s):	Recognized as a good fodder for livestock.
References: ³⁴	

Bouteloua curtipendula (Michx.) Torr. Side-oats Grama; Poaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given "Lance grass"
Habitat/Ecological Zone: British Columbia, Canada to	Dry, open sites, often on saline soil; plains to montane; New Mexico
Plants Parts Harvested:	Grass
Season Collected:	Not given
Artifacts: lance; the grass resembled a f	Worn by those, who in battle, had killed an enemy with a feathered lance.
References: ³⁵	

<i>Bouteloua hirsuta Lag</i> Black Grama; Poaceae	
Hairy Grama	
Tribal Nation:	Kiowa
Indigenous Name:	Son-pa-pa
Meaning:	Not given

Habitat/Ecological Zone:

Plants Parts Harvested: Grass

Season Collected: Not given

Food Use(s): Very good fodder, according to the U.S. Dept. of Agriculture, Forest Service, for horses and mule

References: ³⁶

Bromus catharticus Vahl Rescuegrass; Poaceae	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Texas, east to the Atlantic co	
Plants Parts Harvested:	Grass
Season Collected:	Not given
Food Use(s):	Grass recognized as an important fodder.
References: ³⁷	

Callirhoe involucrata (Torr. & Gray) Gray Purple Poppy Mallow; Malvaceae

Tribal Nation:	Kiowa
Indigenous Name:	Not given
Meaning:	Not given

Habitat/Ecological Zone: Found in dry soil conditions from Minnesota to Utah, south to Texas, New Mexico and into northern Mexico

Plants Parts Harvested:	Flowers
Season Collected:	Not given
Artifacts:	Flowers, because of their beauty, have an esthetic appeal.
References: ³⁸	

Carya illinoinensis (Wangen Carya Pecan Pecan; Juglandaceae	h.) K. Koch
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>On-ku-a Do'na'i</i> "Pecan Tree" "Fat or Oily Tree Fruit"
Habitat/Ecological Zone:	Found in river bottoms southern Indiana into Mexico.
Plants Parts Harvested:	Bark
Season Collected:	Not given
Medicinal Use(s): taken for tuberculosis.	The Kiowa boil the bark and drink the decoction of bark
References: ³⁹	

Carya illinoinensis (Wange Carya Pecan Pecan; Juglandaceae	nh.) K. Koch
Tribal Nation:	Kiowa
Indigenous Name:	On-ku-a Do'na'i
Meaning:	"Pecan Tree" "Fat or Oily Tree Fruit"
Habitat/Ecological Zone:	Found in river bottoms southern Indiana into Mexico.

Plants Parts Harvested:	Fruit or nuts
Season Collected:	Not given
Food Use(s):	Nuts harvested as a food source.
References: 40	

<i>Celtis occidentalis L.</i> Common Hackberry; Ulmac Sugarberry; Beaverwood; Bastard Elm; Oneberry; False Elm; Nettle Tree	zeae
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Ya-ai-gaw</i> <i>Ya-aip-hap</i> Hackberry Fruit Hackberry Tree
Habitat/Ecological Zone:	A widespread species found in Kansas and Oklahoma.
Plants Parts Harvested:	Wood
Season Collected:	Not given
Spiritual/Religious Use(s):	Wood used as fuel for the altar fire in the peyote ceremony
References: ⁴¹	

Celtis occidentalis L Western Hackberry; Ulmaceae Rough Leaved Hackberry

Tribal Nation: Kiowa

Indigenous Name: A-ai-paip

Meaning:	Not given
Habitat/Ecological Zone:	Found as far west as Kansas.
Plants Parts Harvested:	Berries
Season Collected:	Not given
Food Use(s): a stick and baked over an ope	Berries pounded into a paste like consistency, molded onto en fire
Additional Commentary: not use the plant in this manr	Other tribes make a tonic from the leaves, but the Kiowa do $her.^{42}$
References: 43	

Centaurea americana Nutt. American Star Thistle; Asteraceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given "Pink Flower Plant"
Habitat/Ecological Zone: Texas	Common to the plains and prairies from Kansas south to
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s): and then applied as a poultice	Leaves applied to skin sores. They were first applied wet
References: 44	

Cephalanthus occidentalis L. Common Buttonbush; Rubiaceae

Tribal Nation: Kiowa

Indigenous Name: *Ee-ton-ba-a*

Meaning: Not given

Habitat/Ecological Zone:	Commonly	found in	swamps	and low	ground	througho	ut
the United States into Mexico							

Plants Parts Harvested:	Roots
Season Collected:	Not given
Medicinal Use(s):	Decoction of roots taken for hemorrhages.
References: 45	

<i>Cercis canadensis L</i> Eastern Redbud; Fabaceae	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Kee-a-gu-la</i> Not given
Habitat/Ecological Zone:	Found in rich soils in Nebraska south to Texas and Mexico
Plants Parts Harvested:	Slender stems
Season Collected:	Late fall and winter
Artifacts:	Slender stems used for fuel during the winter
References: 46	

Cercis canadensis L.
Eastern Redbud; Fabaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Kee-a-gu-la</i> Not given
Habitat/Ecological Zone:	Found in rich soils in Nebraska south to Texas and Mexico
Plants Parts Harvested:	Flower

Season Collected: Early spring

Additional Commentary: Flower welcomed as a sign of spring. The tree is one of the earliest to flower in the spring. The Kiowa believed that it was a welcome sign of spring. Consequently they would break off a few flowering branches and take them to their homes to "drive out winter."

References: 47

Chenopodium berlandieri Chenopodium album, Linn. Lamb's Quarters; Pigweed; Chenopodiaceae

Tribal Nation:	Kiowa
Indigenous Name:	Batl-sai-an
Meaning:	Badl-sai-ya-don "Stink Weed" Not given
Habitat/Ecological Zone:	Pastures and prairies. The origin of the plant is Europe.
Plants Parts Harvested:	Young leaves
Season Collected:	Spring
Food Use(s):	Leaves used for food
Additional Commentary: bother them or drive them av	Some Kiowa believe the plant was put on the earth to way from dangerous places

References: 48

Chrysobotrya odorata (Wendl.) Cockerell Ribes odoratum Wendl. f. Buffalo Currant; Grossulariaceae

Tribal Nation: Kiowa

Indigenous Name:Not givenMeaning:Not given

Habitat/Ecological Zone: Found in sandy, loamy, and clay well-drained soils in woodland, along sunny edges, or lightly shaded areas.

Plants Parts Harvested:	Fruit
Season Collected:	Not given
Food Use(s):	Fruit eaten raw
References: 49	

Chrysobotrya odorata (Wendl.) Cockerell Ribes odoratum Wendl. f. Buffalo Currant; Grossulariaceae

Tribal Nation:	Kiowa

Indigenous Name:	Not given
Meaning:	Not given

Habitat/Ecological Zone: Found in sandy, loamy, and clay well-drained soils in woodland, along sunny edges, or lightly shaded areas.

Plants Parts Harvested:	Fruit
Season Collected:	Not given
Food Use(s):	Fruit made into jelly.
References: ⁵⁰	

Cirsium ochrocentrum Gray Cirsium undulatum Yellowspine Thistle; Asteraceae Wavy-Leafed Thistle

Tribal Nation: Kiowa

Indigenous Name:	Sengts-on
Meaning:	"Thistle"

Habitat/Ecological Zone: to Texas	Prairies, pastures, and disturbed areas. Found in Nebraska
Plants Parts Harvested:	Blossoms
Season Collected:	Not given
Medicinal Use(s):	A tea of blossoms applied as wash for burns and sores.
Additional Commentary:	The Kiowa deemed the remedy to be "very effective."
References: ⁵¹	

Cirsium ochrocentrum Gray Cirsium undulatum Yellowspine Thistle; Asterac Wavy-Leafed Thistle	eae
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Sengts-on "Thistle"
Habitat/Ecological Zone: to Texas	Prairies, pastures, and disturbed areas. Found in Nebraska
Plants Parts Harvested:	Blossoms
Season Collected:	Not given
Medicinal Use(s):	Decoction of blossoms used as wash for sores.
References: 52	

Cirsium ochrocentrum Gray Cirsium undulatum Yellowspine Thistle; Asteraceae Wavy-Leafed Thistle

Tribal Nation: Kiowa

Indigenous Name: Sengts-on

Meaning:	"Thistle"
Habitat/Ecological Zone: to Texas	Prairies, pastures, and disturbed areas. Found in Nebraska
Plants Parts Harvested:	Roots
Season Collected:	Not given
Food Use(s):	Roots used for food.
Additional Commentary:	Older Kiowa members (circa 1939) remember when the

roots of the yellow spined thistle (*Cirsium undulatum*) were used as food.⁵³

References: 54

<i>Cirsium ochrocentrum Gray</i> <i>Cirsium undulatum</i> Yellowspine Thistle; Asterac Wavy-Leafed Thistle	eae
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Sengts-on "Thistle"
Habitat/Ecological Zone: to Texas	Prairies, pastures, and disturbed areas. Found in Nebraska
Plants Parts Harvested:	Blossoms
Season Collected:	Not given
Artifacts: keep the wolves from digging	Blossoms used to cover graves of those recently buried to g up the body.
References: 55	

Citrullus lanatus var. lanatus Watermelon; Cucurbitaceae

Tribal Nation: Kiowa

Indigenous Name:	Not given
Meaning:	Not given

Habitat/Ecological Zone: Originally native to South America, it was introduced as a crop during the reservation period

Plants Parts Harvested:	Unripened plant
Season Collected:	Not given
Medicinal Use(s):	Unripe plant considered poisonous.

Additional Commentary: Kiowa elders, circa 1930s, told of a time the Kiowa raided Anglo farms and stole unripe watermelons. Never having seen watermelons some ate them green and many became ill. Some Kiowa died. Thereafter the Kiowa avoided watermelon, considering it unfit for Indian consumption.

References: 56

<i>Coreopsis trinctoria (Nuttall)</i> Plains Coreopsis; Golden Coreopsis; Tickseed)
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Tza-a-gudl</i> Not given
e	Found seasonally in damp, usually sandy soils, especially n Minnesota south to Arizona
Plants Parts Harvested:	Flower
Season Collected:	Not given
Food Use(s): hot water. It is either consum	Used to make a tea by hanging a bunch of flower heads in ned hot or cold.
Additional Commentary:	After a few sips, it acts almost immediately as an emetic
References: 57	

Croton texensis Texas Croton; Skunkweed	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Tai-me</i> "Sun Dance Weed"
Habitat/Ecological Zone: Mexico	Found in Sand hills and sandy soils from Wyoming into
Plants Parts Harvested:	Leaves and entire plant
Season Collected:	Not given
Medicinal Use(s): late 1930s its specific use was	The plant was apparently used in the Sun Dance, but by the s not remembered

Additional Commentary: The Kiowa learned of the plant from the Crow in 1765, but its specific use is not recorded.

References: 58

<i>Cucurbita foetidissima Kunth</i> Missouri Gourd; Cucurbitace Buffalo Gourd	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Ko-kon-baw</i> Not given
Habitat/Ecological Zone: Dakota south to Texas and M	
Plants Parts Harvested:	Roots
Season Collected:	Not given
Medicinal Use(s): tea form to induce vomiting.	Decoction of peeled roots, boiled, is taken as an emetic in

References: 59

Cucurbita foetidissima Kunth Missouri Gourd; Cucurbitaceae Buffalo Gourd

Tribal Nation: Kiowa

Indigenous Name:Ko-kon-bawMeaning:Not given

Habitat/Ecological Zone: Prairies in dry soil and disturbed areas. Found from South Dakota south to Texas and Mexico

Plants Parts Harvested: Fruit

Season Collected: Not given

Artifacts: Fruit used to cleanse hides and clothes by rubbing the dried fruit into the stains before washing.

References: 60

Cyperus schweinitzii Torr Schweinitz's Flat Sedge; Cyperaceae Schweinitz's Cyperus;

Tribal Nation:KiowaIndigenous Name:
Meaning:Not given
Not givenHabitat/Ecological Zone:Widespread sedge from Washington to Texas.Plants Parts Harvested:PlantSeason Collected:Not givenFood Use(s):The species in association with Panicum scribucrian.

Food Use(s): The species in association with *Panicum scribnerianum* is considered an excellent fodder for fattening horses.

References: 61

Dalea candida var. oligophylla (Torr.) Shinners Petalostemon oligophyllum (Torr.) White Prairie Clover; Fabaceae

Tribal Nation:KiowaIndigenous Name:Khaw-tan-eeMeaning:No translation given

Habitat/Ecological Zone: Prairies and rocky open woods. It is common from North Dakota to Colorado, south into Texas.

Plants Parts Harvested:	Root
Season Collected:	Not given
Food Use(s):	Peeled root used for food.

Additional Commentary: It is considered a pre-reservation food source. By the late 1930s, use as a food was abandoned by people. The Kiowa peeled off the outer portion of the root before consuming them.⁶²

References: 63

Dalea enneandra Nutt
Slender Parosela; FabaceaeKiowaTribal Nation:KiowaIndigenous Name:
Meaning:Za-ba-a
"Arrow Weed"Habitat/Ecological Zone:
and TexasFound on the prairies from North Dakota, into Colorado,
Thorned stemsPlants Parts Harvested:Thorned stemsSeason Collected:Not given

Artifacts: Erect, slender stems made into small arrows, with an *Opuntia* thorn in the end, used to kill small animals.

References: 64

Dalea enneandra Nutt. Slender Parosela; Fabaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Za-ba-a "Arrow Weed"
Habitat/Ecological Zone: and Texas	Found on the prairies from North Dakota, into Colorado,
Plants Parts Harvested:	Stems
Season Collected:	Not given
Artifacts: the end, used for games.	Erect, slender stems made into small arrows, with a thorn in
References: 65	

Delphinium carolinianum ssp. virescens (Nutt.) Brooks Delphinium virescens (Nutt.) Carolina Larkspur; Ranunculaceae Prairie Larspur;

Tribal Nation:KiowaIndigenous Name:Ton-aMeaning:"Gourd seed"

Habitat/Ecological Zone: Found in prairies, pastures, and river valleys from South Dakota, into Colorado, and south to Texas.

Plants Parts Harvested: Seeds

Season Collected: Not given

Spiritual/Religious Use(s): Small seeds used in peyote rattles.

References: 66

Dichanthelium oligosanthes var. scribnerianum (Nash) Gould Scribner's Rosette Grass; Poaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	Widespread species from Washington to Texas
Plants Parts Harvested:	Not specified in the literature
Season Collected:	Not given
Food Use(s):	Used to fatten horses very quickly.
References: 67	

Echinacea angustifolia var. angustifolia Brauneria angustifolia (DC.) Purple Coneflower; Asteraceae Blacksamson Echinacea; Rattlesnake Weed; Narrow-leaved Purple Cone Flower

Tribal Nation: Kiowa

Indigenous Name: Dain-pai-a Awdl-son-a Meaning: Not given Not given

Habitat/Ecological Zone: Prefers dry upland prairies, often in rocky areas. Found north from Saskatchewan and Manitoba, Canada south to Texas

Plants Parts Harvested: Root

Season Collected: Not given

Medicinal Use(s): Ground root chewed and juice swallowed for coughs. After chewing, the wad would be placed on the throat swelling.

Additional Commentary: Vestal and Schultes reported that the dried seed head in the 1930s was used a comb and brush.⁶⁸

References: 69

Echinacea angustifolia var. angustifolia Brauneria angustifolia (DC.) Purple Coneflower; Asteraceae Blacksamson Echinacea; Rattlesnake Weed; Narrow-leaved Purple Cone Flower

Tribal Nation:	Kiowa
Indigenous Name:	Dain-pai-a
	Awdl-son-a
Meaning:	Not given
	Not given

Habitat/Ecological Zone: Prefers dry upland prairies, often in rocky areas. Found north from Saskatchewan and Manitoba, Canada south to Texas

Plants Parts Harvested:	Root
Season Collected:	Not given
Medicinal Use(s):	Ground root chewed and juice swallowed for sore throats.
	Grinnell wrote that the Cheyenne and Kiowa treated colds the root and letting the saliva run down their throat. ⁷⁰

References: 71

Elymus canadensis L. Canada Wild Rye; Poaceae

Tribal Nation: Kiowa

Indigenous Name: Meaning:	Not given "Full Grown Chokeweed"
Habitat/Ecological Zone: Northwest Territory, Canada	Moist to dry, well-drained sties in plains, foothills from to New Mexico
Plants Parts Harvested:	Foliage and lemmas
Season Collected:	Not given
Food Use(s): for livestock.	Foliage and lemmas used as a moderately palatable fodder

Additional Commentary: The Kiowa name for the plant takes note of its harsh characteristics, making it difficult for livestock to eat the plant.

References: 72

Erigeron divergens Torr. & Gray Erigeron philadelphicus Spreading Fleabane; Asteraceae		
Tribal Nation:	Kiowa	
Indigenous Name: Meaning:	<i>A-kent-ein</i> "White Flower Plant"	
Habitat/Ecological Zone: south to Texas	Fields, meadows, and disturbed areas from South Dakota	
Plants Parts Harvested:	Plant	
Season Collected:	Not given	
Spiritual/Religious Use(s): brought it into the home.	Plant is considered an omen of good fortune and Kiowa	
References: ⁷³		

Eriogonum annuum Nutt Annual Buckwheat; Polygonaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Gon-a</i> "Tan Weed"
Habitat/Ecological Zone: Mexico.	Found in North Dakota and Montana, south to Texas and
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Artifacts [.]	The fresh leaves were rubbed on buffalo or deer hides in

Artifacts: The fresh leaves were rubbed on buffalo or deer hides in the process of staining and tanning. If the hide was dry, the leaves would be moistened before the application.

References: 74

Eriogonum jamesii Nutt. James' Eriogonum; Polygonaceae

Tribal Nation:	Kiowa
Indigenous Name:	Not given

Indigenous Name:Not givenMeaning:Not given

Habitat/Ecological Zone: Found on the plains a prairies from Colorado and Kansas, south into Texas, New Mexico, Arizona and Mexico.

Plants Parts Harvested:	None
Season Collected:	Not given
Additional Commentary: value as fodder.	The Kiowa recognized the species, but stated it had little
References: ⁷⁵	

Eriogonum longifolium Nutt. Longleaf Buckwheat; Polygonaceae Indian Turnip

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Texas.	Found in sandy, dry soils from southern Kansas south into
Plants Parts Harvested:	Root
Season Collected:	Not given
Food Use(s):	Root used for food
Additional Commentary: medicine.	Other tribes, according to the Kiowa, use the plant as
References: ⁷⁶	

Euphorbia marginata Pursh Snow On The Mountain; Euphorbiaceae White Mountain Spurge

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Khaw-lo-dam-a</i> Not given
Habitat/Ecological Zone:	Native of Colorado and Texas
Plants Parts Harvested:	Plant
Season Collected:	Not given
Food Use(s):	Used for chewing gum.
References: 77	

Equisetum arvense Field Horsetail

Tribal Nation:

Kiowa

Indigenous Name: Meaning:	<i>Do'npa</i> "Fat Plant"
Habitat/Ecological Zone: Moist to dry, wooded to open sites, often on disturbed ground; plains to alpine; Alaska to New Mexico	
Plants Parts Harvested:	Base of plant

Food Use(s): The swollen base of the plant was eaten raw.

Not given

Additional Commentary: The *Sett'an* and *Anko* annual calendars recorded that the Kiowa held a Sun Dance in 1835 on the south bank of the Canadian River, where many rushes (*Equisetum arvense*) grow. The ceremony was called "Cat-tail Rush Sun Dance."⁷⁸

References: 79

Season Collected:

Gaillardia pulchella Foug Gaillardia aristata Pursh Firewheel; Asteraceae Blanket Flower; Showy Gaillardia	
Tribal Nation	Kiowa
Indigenous Name: Meaning:	<i>A-kee-awadl-kaw-kie</i> "Head-shaped Flower Plant"
Habitat/Ecological Zone: Mexico	Open plains and prairies from Nebraska, Colorado to
Plants Parts Harvested:	Seeds and flowers
Season Collected:	Not given
Artifacts:	Flowers used for ornaments in the homes.
	Kiowa would save the seeds for their gardens during the

reservation era and grow the flowers. The flowers are believed to bring good fortune and would be brought into homes. The dried inflorescences are believed to resemble a human head.

References: 80

Gaillardia pulchella Foug. Firewheel; Asteraceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Columbia, Canada to Colora	Dry, open sites or grasslands; foothills to montane; British do
Plants Parts Harvested:	Flowers
Season Collected:	Not given
Artifacts:	Flowers believed to bring luck.
References: ⁸¹	

Helianthus annuus L. Common Sunflower; Asteraceae

Tribal Nation:	Kiowa
Indigenous Name:	Hon-son-a Hon-son-daw
Meaning:	"Looking at you" Not given

Habitat/Ecological Zone: Low meadows, prairies, sometimes disturbed areas. Found on the dry plains from the Rocky Mountains east to the Mississippi River

Plants Parts Harvested:	Sap
Season Collected:	Spring through late summer
Medicinal Use(s):	Coagulated sap chewed, by the elders, to diminish thirst.

Additional Commentary: The Kiowa term, "looking at you," refers to the heliotropic turning of the flowers along trail and roadways. Therefore it is considered a traveler's companion.

References: 82

Helianthus annuus L. Common Sunflower; Asteraceae

Tribal Nation:	Kiowa
Indigenous Name:	Hon-son-a Hon-son-daw
Meaning:	"Looking at you" Not given
Plants Parts Harvested:	Seeds
Season Collected:	Fall
Food Use(s):	Seeds chewed into a paste like consistency and eaten.
References: ⁸³	

<i>Hierochloe odorata (L.) Beat</i> Sweetgrass; Poaceae Vanilla Grass; Holy Grass	uv
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	An-son-a Not given
Habitat/Ecological Zone:	Wet meadows, marshes, and prairie
Plants Parts Harvested:	Grass
Season Collected:	Not given
Spiritual/Religious Use(s): purification	Dried foliage employed as an incense, perfume, and for

<i>Hierochloe odorata (L.) Beau</i> Sweetgrass; Pocaceae Vanilla Grass	uv
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	An-son-a Not given
Habitat/Ecological Zone:	Wet meadows, marshes, and prairie
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Artifacts:	Fragrant leaves used as stuffing for pillows and mattresses.
References: 85	

<i>Hierochloe odorata (L.) Bea</i> Sweetgrass; Poaceae Vanilla Grass	uv
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>An-son-a</i> Not given
Habitat/Ecological Zone:	Wet meadows, marshes, and prairie
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Spiritual/Religious Use(s): ceremony.	Dried leaves sprinkled over the fire during the peyote
References: ⁸⁶	

Hierochloe odorata (L.) Beauv Sweetgrass; Poaceae Vanilla Grass;

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>An-son-a</i> Not given
Habitat/Ecological Zone:	Wet meadows, marshes, and prairie
Plants Parts Harvested:	Foliage
Season Collected:	Not given
Medicinal Use(s):	Dried foliage employed as a perfume.
References: ⁸⁷	

Ipomoea leptophylla Torr. Bush Morning Glory; Convolvulaceae Big Root

Kiowa
Not given Not given
Found from South Dakota to Montana, south to Texas and
Root
Not given
Root roasted for food when pressed by hunger

Additional Commentary: Dr. Edward Palmer, a scientist and explorer on the western frontier wrote in 1871 that: "This showing plant of the dry deserts of the West is commonly called man root, or man of the earth, similar on size and shape to a man's body. The Cheyenne, Arapahoes, and Kiowas roast it for food when pressed by hunger,

but it is by no means palatable or nutritious. Its enormous size and depth make its extraction by ordinary Indian implements a work of much difficulty."⁸⁸

References: 89

<i>Juglans nigra L.</i> Black Walnut; Juglandaceae	
Tribal Nation:	Kiowa
Indigenous Name:	Poho'n-a Pon-hon-a-daw Pon-hon-ai-gaw
Meaning:	"Walnut Tree" "Walnut Tree" "Walnut"
Habitat/Ecological Zone: Texas.	Found in woodland area from the Atlantic coast west into
Plants Parts Harvested:	Root
Season Collected:	Not given
Medicinal Use(s):	The decoction of the root bark was taken to kill "worms."
right to cut from the nose of a	The term, <i>Poho'n-a</i> , refers to the custom of a husband's an unfaithful wife a piece the shape and size of a walnut or semblance of a mutilated nose to a split walnut. ⁹⁰

References: 91

Juglans nigra L Black Walnut; Juglandaceae

Tribal Nation:	Kiowa
Indigenous Name:	Poho'n-a Pon-hon-a-daw
Meaning:	<i>Pon-hon-ai-gaw</i> "Walnut Tree" "Walnut Tree"

"Walnut"

Habitat/Ecological Zone: Texas.	Found in woodland area from the Atlantic coast west into
Plants Parts Harvested:	Nuts
Season Collected:	Not given
Food Use(s):	Nuts seasonally harvested for food
References: 92	

Juglans nigra L. Black Walnut; Juglandaceae

Tribal Nation:	Kiowa
Indigenous Name:	Poho'n-a
Meaning:	Pon-hon-a-daw Pon-hon-ai-gaw "Walnut Tree" "Walnut Tree"
	"Walnut"
Habitat/Ecological Zone: Texas.	Found in woodland area from the Atlantic coast west into
Plants Parts Harvested:	Roots
Season Collected:	Not given
Artifacts:	Roots boiled to make a bluish, black dye for buffalo hides.
References: ⁹³	

Juniperus virginiana L. Eastern Red Cedar; Cupressaceae

Tribal Nation:

Indigenous Name: *'Ko-kee-ad-la; ahi'n [a-heen]*

Kiowa

Meaning:	"Peculiar" or "Conspicuous"
Habitat/Ecological Zone: woodlands	Prairie hillsides, fields, pastures, and occasionally
Plants Parts Harvested:	Berries
Season Collected:	Not given
Medicinal Use(s):	Berries chewed for canker sores in the mouth.
References: ⁹⁴	

Juniperus virginiana L. Eastern Red Cedar; Cupressaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>'Ko-kee-ad-la; ahi'n [a-heen]</i> "Peculiar" or "Conspicuous"
Habitat/Ecological Zone: woodlands	Prairie hillsides, fields, pastures, and occasionally
Plants Parts Harvested:	Needles
Season Collected:	Not given
Spiritual/Religious Use(s):	Needles thrown into the fire and used as incense durin

Spiritual/Religious Use(s): Needles thrown into the fire and used as incense during prayers in the peyote meeting.

References: 95

Juniperus virginiana L. Eastern Red Cedar; Cupressaceae

Tribal Nation:KiowaIndigenous Name:'Ko-kee-ad-la; ahi'n [a-heen]Meaning:"Peculiar" or "Conspicuous"

Habitat/Ecological Zone: woodlands	Prairie hillsides, fields, pastures, and occasionally
Plants Parts Harvested:	Heartwood
Season Collected:	Not given
Artifacts: Red, aromatic heartwood used to make "love flutes." Love flutes are called <i>Ya-ton-ba</i> (wood for love flute).	
References: ⁹⁶	

Juniperus virginiana L. Eastern Red Cedar; Cupressaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>'Ko-kee-ad-la; ahi'n [a-heen]</i> "Peculiar" or "Conspicuous"
Habitat/Ecological Zone: woodlands	Prairie hillsides, fields, pastures, and occasionally
Plants Parts Harvested:	Tree limbs
Season Collected:	Not given
Artifacts: durability and tendency not to	Tipi poles are made preferably of cedar because of its o warp.

Lagenaria siceraria (Molina) Curcurbita siceraria Bottle Gourd;	
Calabash; Dipper Gourd	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given

Habitat/Ecological Zone:	Prairies and native pastures
Plants Parts Harvested:	Fruit
Season Collected:	Not given
Artifacts: gourd fruits.	Peyote rattles and musical rattles were made from the

Additional Commentary: A detailed description of a peyote gourd rattle and it associated cultural symbols and meaning in the peyote ceremony is found in Mooney's work.⁹⁸

References: 99

Liatris punctata Hook

Dotted Gayfeather; Asteraceae Blazing Star; Starwort; Dotted Button Snake Root

Tribal Nation: Kiowa

Indigenous Name:*H-kon-a*Meaning:Not given

Habitat/Ecological Zone: Prairies and native pasture from Saskatchewan to Montana and south Texas, New Mexico, and northern Mexico.

Plants Parts Harvested: Roots

Season Collected: Spring

Food Use(s): Sweet roots baked over a fire and eaten.

Additional Commentary: Kiowa gathered the roots are spring the spring when they are sweet, later in the season they have a greasy taste. Gayfeather was recorded eaten as late as the 1930s.¹⁰⁰

Lichens Unknown Species

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	Various eco-zones and eco-niches
Plants Parts Harvested:	Whole plant
Season Collected:	Not given
Medicinal Use(s): used for tooth abscesses.	Lichens are dried, powdered, and applied to sore gums or

Additional Commentary: The Kiowa distinguish lichens principally by their color. They consider lichens growing on the north side of trees the best to use for medicines.

References: ¹⁰²

Lichens Unknown Species	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	Varied habitats, depending on species
Plants Parts Harvested:	Whole plant
Season Collected:	Not given
Medicinal Use(s):	Lichens are dried, powdered, and applied to sore gums or

Additional Commentary: The Kiowa distinguish lichens principally by their color. They consider lichens growing on the north side of trees the best to use for medicines.

used for tooth abscesses. Given to an infant when teething.

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Seni Sen gaw
Meaning:	<i>Sen-gaw</i> "Prickly Fruit" Not given

Habitat/Ecological Zone: Found in dry sandy soils along the Rio Grande watershed in Texas and Mexico and in scattered locations as far south as Hildalgo, Mexico

Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s):	Poultice of plants applied for rheumatic pains

Additional Commentary: According to Vestal and Schultes, peyote is the most important medicine among the Kiowa, rapidly replacing many pre-reservation plant remedies. The medicine is administered during the peyote ceremony, but also is used daily by some individuals.¹⁰⁴

References: 105

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation: Kiowa

Indigenous Name: Seni Sen-gaw Meaning: "Prickly Fruit" Not given

Habitat/Ecological Zone: Found in dry sandy soils along the Rio Grande watershed in Texas and Mexico and in scattered locations as far south as Hildalgo, Mexico

Plants Parts Harvested: Plant

References: 106

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Seni
Meaning:	<i>Sen-gaw</i> "Prickly Fruit"
C C	Not given
6	Found in dry sandy soils along the Rio Grande watershed scattered locations as far south as Hildalgo, Mexico
Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s):	Poultice of plants applied for cuts and bruises
References: ¹⁰⁷	

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation: Kiowa

Indigenous Name: Seni Sen-gaw Meaning: "Prickly Fruit" Not given

Habitat/Ecological Zone: Found in dry sandy soils along the Rio Grande watershed in Texas and Mexico and in scattered locations as far south as Hildalgo, Mexico

Plants Parts Harvested: Plant

Decoction of plants taken for fevers

References: 108

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Seni Sen-gaw
Meaning:	"Prickly Fruit" Not given
e	Found in dry sandy soils along the Rio Grande watershed in ttered locations as far south as Hildalgo, Mexico
Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s):	Decoction of plants taken for intestinal ills

References: 109

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation: Kiowa

Indigenous Name: Seni Sen-gaw Meaning: "Prickly Fruit" Not given

Habitat/Ecological Zone: Found in dry sandy soils along the Rio Grande watershed in Texas and Mexico and in scattered locations as far south as Hildalgo, Mexico

Plants Parts Harvested: Plant

Decoction of plants taken for grippe and scarlet fever.

References: 110

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Seni Sen-gaw
Meaning:	"Prickly Fruit" Not given

Habitat/Ecological Zone: Found in dry sandy soils along the Rio Grande watershed in Texas and Mexico and in scattered locations as far south as Hildalgo, Mexico

Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s):	Plant used as a narcotic.
References: ¹¹¹	

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation: Kiowa

Indigenous Name: Seni Sen-gaw Meaning: "Prickly Fruit" Not given

Habitat/Ecological Zone: Found in dry sandy soils along the Rio Grande watershed in Texas and Mexico and in scattered locations as far south as Hildalgo, Mexico

Plants Parts Harvested: Poultice

Poultice of plants applied for bruises.

References: 112

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Seni
Meaning:	<i>Sen-gaw</i> "Prickly Fruit"
wearing.	Not given
0	Found in dry sandy soils along the Rio Grande watershed scattered locations as far south as Hildalgo, Mexico
Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s):	Decoction of plants taken as a panacea.
References: ¹¹³	

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation: Kiowa

Indigenous Name: Seni Sen-gaw Meaning: "Prickly Fruit" Not given

Habitat/Ecological Zone: Found in dry sandy soils along the Rio Grande watershed in Texas and Mexico and in scattered locations as far south as Hildalgo, Mexico

Plants Parts Harvested: Plant

Decoction of plants taken for pneumonia and scarlet fever

References: 114

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Seni
	Sen-gaw
Meaning:	"Prickly Fruit"
	Not given
e	Found in dry sandy soils along the Rio Grande watershed scattered locations as far south as Hildalgo, Mexico
Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s):	Decoction of plants taken for tuberculosis
References: 115	

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation: Kiowa

Indigenous Name: Seni Sen-gaw Meaning: "Prickly Fruit" Not given

Habitat/Ecological Zone: Found in dry sandy soils along the Rio Grande watershed in Texas and Mexico and in scattered locations as far south as Hildalgo, Mexico

Plants Parts Harvested: Plant

Decoction of plants taken for venereal disease.

References: 116

Lophophora williamsii (Lem. ex Salm-Dyck) Coult. Peyote; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Seni
Meaning:	Sen-gaw "Prickly Fruit"
Season Collected:	Not given
Habitat/Ecological Zone: in Texas and Mexico and in s	Found in dry sandy soils along the Rio Grande watershed scattered locations as far south as Hildalgo, Mexico
Plants Parts Harvested:	Peyote button
Season Collected:	Not given
Medicinal Use(s): aching tooth	The button is partially masticated and packed around an
References: ¹¹⁷	

<i>Lycoperdon spp.</i> Puffball	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Ai-pee-o-pa</i> Not given
Habitat/Ecological Zone:	Various eco-niches depending on conditions
Plants Parts Harvested:	Whole plant
Season Collected:	Not given
Food Use(s):	Puffballs are baked and used as food

Lycoperdon spp. Puffball	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Ai-pee-o-pa</i> Not given
Habitat/Ecological Zone:	Found in moist locations
Plants Parts Harvested:	Spores
Season Collected:	Not given
Medicinal Use(s): scratches.	Dried spores are moistened and applied to sores and
References: ¹¹⁹	

Maclura pomifera (Raf.) Sch Bow Wood; Moraceae Osage Orange; Mock Orange	neid.
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Zaip-gwawt- 'ko-ya-daw</i> "Osage Orange Tree"
Habitat/Ecological Zone:	A native species to Arkansas, Oklahoma, and Texas.
Plants Parts Harvested:	Roots
Season Collected:	Not given
Artifacts:	Outer portion of the roots yielded a yellow dye.
References: ¹²⁰	

Maclura pomifera (Raf.) Schneid. Bow Wood; Moraceae Osage Orange; Mock Orange

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Zaip-gwawt- 'ko-ya-daw</i> "Osage Orange Tree"
Habitat/Ecological Zone:	A native species to Arkansas, Oklahoma, and Texas.
Plants Parts Harvested:	Wood
Season Collected:	Not given

Spiritual/Religious Use(s): Wood used as the favorite material for the staff held by singer in the peyote ceremony.

References: ¹²¹

<i>Maclura pomifera (Raf.) Sc</i> Bow Wood; Moraceae Osage Orange; Mock Orange	hneid.
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Zaip-gwawt- 'ko-ya-daw</i> "Osage Orange Tree"
Habitat/Ecological Zone:	A native species to Arkansas, Oklahoma, and Texas.
Plants Parts Harvested:	Wood
Season Collected:	Not given
Artifacts:	Wood used for making bows.
References: ¹²²	

Melia azedarach L. Chinaberry Tree; Meliaceae Indian Lilac: Lelah: Paraiso; Pride of India; White Cedar Tribal Nation Kiowa Indigenous Name: Not given Meaning: Not given Habitat/Ecological Zone: An introduced species from Asia. Found from California across the southern United States to the Atlantic Coast Plants Parts Harvested: Not specified in the literature Season Collected: Not given Additional Commentary: Chinaberry is an introduced species. In the Sett'an and Anko calendar histories, there is a sketch of a chinaberry tree over the medicine lodge,

representing a Sun Dance that was held in the summer of 1850 near a thicket of chinaberry trees on Beaver Creek or the upper North Canadian River near present Fort Supply, Oklahoma.¹²³

Mentha sp Mentha arvensis L. Mint; Lamiaceae Wild Mint; Horse Mint	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: prairie ravines	Wet or moist soils of stream banks, lake margins, and

Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s): stomach troubles.	Fresh leaves and chewed or a tea made of leaves taken for
125	

References: ¹²⁵

Mentha sp Mentha arvensis L. Mint; Lamiaceae Wild Mint; Horse Mint	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: prairie ravines	Wet or moist soils of stream banks, lake margins, and
Plants Parts Harvested:	Fresh leaves
Season Collected:	Not given
Food Use(s):	Fresh leaves frequently chewed.
References: ¹²⁶	

Monarda pectinata Nutt
Monarda fistulosa L.
Pony Beebalm; Lamiaceae
Wild Bergamot;
Horse MintKiowaTribal Nation:KiowaIndigenous Name:Po-et-on-sai-on
Ya-sai-o-gee-ot
"Perfume Plant"

Habitat/Ecological Zone: Prairie hillsides, pastures, stream banks, occasionally in open woods, usually in rocky soils. Found from Manitoba, Canada south into New Mexico

Plants Parts Harvested:	Flowers
Season Collected:	Not given
Artifacts: on the hair as a perfume.	Flowers gathered, placed in water and the liquid sprinkled

References: 127

Monarda pectinata Nutt	
Monarda fistulosa L.	
Pony Beebalm; Lamiaceae	
Wild Bergamot;	
Horse Mint	
Tribal Nation:	Kiowa

Indigenous Name:	Po-et-on-sai-on
	Ya-sai-o-gee-ot
Meaning:	"Perfume Plant"

Habitat/Ecological Zone: Prairie hillsides, pastures, stream banks, occasionally in open woods, usually in rocky soils. Found from Manitoba, Canada south into New Mexico

Plants Parts Harvested: Flowers

Season Collected: Not given

Medicinal Use(s): Crumpled the leaves and mixed them with spittle. The infusion of crushed flowers applied to the skin to soothe insect bites and stings.

Additional Commentary: The Kiowa did not distinguish between *Monarda pectinata Nutt* and *Monarda fistulosa L*.

References: ¹²⁸

Monarda pectinata Nutt Monarda fistulosa L. Pony Beebalm; Lamiaceae Wild Bergamot; Horse Mint

Tribal Nation:	Kiowa
Indigenous Name:	Po-et-on-sai-on Ya-sai-o-gee-ot
Meaning:	"Perfume Plant"

Habitat/Ecological Zone: Prairie hillsides, pastures, stream banks, occasionally in open woods, usually in rocky soils. Found from Manitoba, Canada south into New Mexico

Plants Parts Harvested:	Flowers
Season Collected:	Not given
Medicinal Use(s): headaches	Dried and powdered plant is used to rub over the head for
Additional Commentary:	The Kiowa did not distinguish between Monarda pectinata

Additional Commentary: The Kiowa did not distinguish between *Monarda pectinata Nutt* and *Monarda fistulosa L*.

References: 129

Monarda pectinata Nutt Monarda fistulosa L. Pony Beebalm; Lamiaceae Wild Bergamot; Horse Mint

Tribal Nation:

Kiowa

Indigenous Name:	Po-et-on-sai-on
	Ya-sai-o-gee-ot
Meaning:	"Perfume Plant"

Habitat/Ecological Zone: Prairie hillsides, pastures, stream banks, occasionally in open woods, usually in rocky soils. Found from Manitoba, Canada south into New Mexico

Plants Parts Harvested:	Flowers
Season Collected:	Not given
Medicinal Use(s): curing fever	Dried and powdered plant is used to rub over the body for

Additional Commentary: The Kiowa did not distinguish between *Monarda pectinata Nutt* and *Monarda fistulosa L*.

References: 130

Monarda pectinata Nutt Monarda fistulosa L. Pony Beebalm; Lamiaceae Wild Bergamot; Horse Mint

Tribal Nation:	Kiowa
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Indigenous Name: Po-et-on-sai-on Ya-sai-o-gee-ot

Meaning:

Habitat/Ecological Zone: Prairie hillsides, pastures, stream banks, occasionally in open woods, usually in rocky soils. Found from Manitoba, Canada south into New Mexico

"Perfume Plant"

Plants Parts Harvested: Flowers

Season Collected: Not given

Medicinal Use(s): Dried and powdered plant is used as a remedy for sore eyes

Additional Commentary: The Kiowa did not distinguish between *Monarda pectinata Nutt* and *Monarda fistulosa L*.

References: ¹³¹

Monarda pectinata Nutt Monarda fistulosa L. Pony Beebalm; Lamiaceae

Wild Bergamot; Horse Mint	
Tribal Nation:	Kiowa
Indigenous Name:	Po-et-on-sai-on Ya-sai-o-gee-ot
Meaning:	"Perfume Plant"
Habitat/Ecological Zone:	Prairie hillsides, pastu

Habitat/Ecological Zone: Prairie hillsides, pastures, stream banks, occasionally in open woods, usually in rocky soils. Found from Manitoba, Canada south into New Mexico

Plants Parts Harvested:	Flowers
Season Collected:	Not given
Medicinal Use(s):	Dried and powdered plant is used for colds
Additional Commentary: Nutt and Monarda fistulosa L	The Kiowa did not distinguish between <i>Monarda pectinata</i> .

References: ¹³²

Nymphaea sp. Water Lily; Nymphaeaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Se'-np'odal-e'</i> Not given
Habitat/Ecological Zone:	Aquatic areas
Plants Parts Harvested:	Tubers
Season Collected:	Not given
Food Use(s):	Tubers stewed or prepared like potatoes.
References: ¹³³	

Oenothera rhombipetala Nutt. ex Torr. & Gray Fourpoint Evening Primrose; Onagraceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>A-kai-gee-ʻgo</i> "Yellow Flowers"
Habitat/Ecological Zone:	Found from South Dakota into Texas
Plants Parts Harvested:	Flowers
Season Collected:	Not given
Artifacts:	Yellow flowers picked and brought into the house
References: ¹³⁴	

Opuntia sp. Opuntia macrohiza Prickly Pear; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Sen-adl-gaw Sen-alo Alo
Meaning:	Not given Not given Not given
Habitat/Ecological Zone:	Prairie, pastures, rocky glades, usually in dry soils
Plants Parts Harvested:	Thorns
Season Collected:	Not given
Medicinal Use(s):	Thorns used to puncture the skin for boils.
References: ¹³⁵	

Opuntia sp.

Opuntia macrohiza Prickly Pear; Cactaceae

Tribal Nation:	Kiowa
Indigenous Name:	Sen-adl-gaw Sen-alo Alo
Meaning:	Not given Not given Not given
Habitat/Ecological Zone:	Prairie, pastures, rocky glades, usually in dry soils
Plants Parts Harvested:	Stems
Season Collected:	Not given
Medicinal Use(s):	Poultice of peeled stems applied as a hemostat
References: ¹³⁶	

<i>Opuntia sp.</i> <i>Opuntia macrohiza</i> Prickly Pear; Cactaceae	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Sen-adl-gaw Sen-alo Alo Not given Not given Not given
Habitat/Ecological Zone:	Prairie, pastures, rocky glades, usually in dry soils
Plants Parts Harvested:	Ripe fruits
Season Collected:	Mid-summer to fall
Food Use(s): making candy	Ripe fruits gathered in large quantities and employed in

References: ¹³⁷

Opuntia sp. Opuntia macrohiza Prickly Pear; Cactaceae Tribal Nation: Kiowa Indigenous Name: Sen-adl-gaw Sen-alo Alo Meaning: Not given Not given Not given Habitat/Ecological Zone: Prairie, pastures, rocky glades, usually in dry soils Plants Parts Harvested: Ripe fruits Mid-summer to fall Season Collected: Food Use(s): Ripe fruits gathered in large quantities and used fresh in jams. References: ¹³⁸

<i>Opuntia sp.</i> <i>Opuntia macrohiza</i> Prickly Pear; Cactaceae	
Tribal Nation:	Kiowa
Indigenous Name:	Sen-adl-gaw Sen-alo Alo
Meaning:	Not given Not given Not given
Habitat/Ecological Zone:	Prairie, pastures, rocky glades, usually in dry soils
Plants Parts Harvested:	Ripe fruits

Season Collected:	Mid-summer to fall
Food Use(s): immediately	Ripe fruits gathered in large quantities and eaten
Additional Commentary: Pear Sun Dance). ¹³⁹	The summer of 1856 is recorded as Se'n-alo' Kado (Prickly
References: ¹⁴⁰	

Opuntia sp. Opuntia macrohiza Prickly Pear; Cactaceae Tribal Nation: Kiowa Indigenous Name: Sen-adl-gaw Sen-alo Alo Meaning: Not given Not given Not given Habitat/Ecological Zone: Prairie, pastures, rocky glades, usually in dry soils Plants Parts Harvested: Sharp thorns Not given Season Collected: Sharp thorns used as points for small arrows to kill birds Artifacts: References: 141

Opuntia sp. Opuntia macrohiza Prickly Pear; Cactaceae

Tribal Nation:

Kiowa

Indigenous Name:

Sen-adl-gaw Sen-alo

Meaning:	Alo Not given Not given
Habitat/Ecological Zone:	Prairie, pastures, rocky glades, usually in dry soils
Plants Parts Harvested:	Stem secretion
Season Collected:	Not given
Artifacts: varnish.	Cut stem secretion applied to buckskin moccasins as a
References: ¹⁴²	

Oxalis stricta L. Oxalis violacea Common Yellow Oxalis; Oxalidaceae Violet Wood Sorrel

Tribal Nation: Kiowa

Indigenous Name:Aw-tawt—an-yaMeaning:"Salt weed"

Habitat/Ecological Zone: Moist prairies, rocky open woods, and thickets. It is widely distributed east of the Rocky Mountains.

Plants Parts Harvested:LeavesSeason Collected:Not givenMedicinal Use(s):Leaves chewed on long walks or perspiring feely to relievethirst.References: 143

Panicum scrinerianum Panic Grass; Gramineae

Tribal Nation:

Kiowa

Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	A dominant species of the tall grass prairie region
Plants Parts Harvested:	Grass
Season Collected:	Not given
Food Use(s):	The plant is used to fatten horses quickly.
Additional Commentary: <i>Cyperus schweinitzii</i> , to fatte	The Kiowa recognize this grass species, along with n horses.

References: 144

Paronychia jamesii Torr. & Gray James' Nailwort; Caryophyllaceae James' Whitlowwort

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	Found in dry soils from Wyoming south to Texas.
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Food Use(s):	Used as a "tea" plant.
References: ¹⁴⁵	

Parthenocissus quinquefolia (L.) Planch Virginia Creeper; Vitaceae False Grapes

Tribal Nation: Kiowa

Indigenous Name: Meaning:	<i>Sa-tai-al-go</i> "Paint Berries"
Habitat/Ecological Zone: Manitoba, Canada into Texas	A common climber in wooded thickets found from
Plants Parts Harvested:	Fruit
Season Collected:	Not given
Artifacts: in war dance.	Fruits used as pink paint for skin and to dye feathers worn
References: ¹⁴⁶	

Paspalum setaceum Michx Paspalum strmineum Thin Paspalum; Poaceae Bead Grass	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Bon-ya</i> Not given
Habitat/Ecological Zone:	Distributed from Montana south to Texas
Plants Parts Harvested:	Plant
Season Collected:	Not given
Food Use(s):	Considered to be valuable pasture and fodder for livestock.
References: ¹⁴⁷	

Paspalum setaceum Michx. Thin Paspalum; Poaceae

Tribal Nation: Kiowa

Indigenous Name:Not givenMeaning:Not given

Habitat/Ecological Zone:	Distributed from Montana south to Texas
Plants Parts Harvested:	Plant
Season Collected:	Not given
Food Use(s):	Used as a valuable pasture plant.
References: ¹⁴⁸	

Penstemon grandiflorus Nutt. Large Beardtongue; Scrophulariaceae Wild Foxglove

Tribal Nation: Kiowa

Indigenous Name:Bo-do-yaMeaning:Not given

Habitat/Ecological Zone: Sandy to loamy soils of the prairies from Wyoming, Colorado, and south to Oklahoma

Plants Parts Harvested:	Roots
Season Collected:	Not given
Medicinal Use(s):	Boiled the roots and taken for stomachaches
149	

References: ¹⁴⁹

Phytolacca americana L American Pokeweed; Phytolaccaceae Scoke; Pigeon Berry		
Tribal Nation:	Kiowa	
Indigenous Name: Meaning:	Not given "Pink Flower Plant"	
Habitat/Ecological Zone:	Found in rich soils from Minnesota south to Texas.	

Plants Parts Harvested:	Fruits
Season Collected:	Not given
Artifacts:	Kiowa girls made necklaces from the dark, dry red fruits.

Additional Commentary: "Pink Flower Plant" is the Kiowa translation for the species. Other Native people used the fruit to obtain a red stain for decorating items. The leaves and stalks also were eaten.

References: ¹⁵⁰

<i>Plantago virginica L.</i> Virginia Plantain; Plantaginae Dwarf Plantain	ceae
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Bo-u-na</i> Not given
Habitat/Ecological Zone: Mexico	Found in sandy soils across the United States and into
Plants Parts Harvested:	Branches
Season Collected:	Not given

Spiritual/Religious Use(s): Used to make garlands or wreaths worn by old men around their heads for dances as symbol of health.

References: ¹⁵¹

Populus deltoides Bartr. ex Marsh Populas balsamifera, Linnaeus Eastern Cottonwood; Salicaceae

Tribal Nation:

Kiowa

Indigenous Name:

Ya-hee-hwai A'hi'n *A-heen* "Principal Tree"

Habitat/Ecological Zone: A widely distributed species, from the east coast to the western plains. Usually grows near rivers or waterways.

Plants Parts Harvested:	Trunk
Season Collected:	Not given
Spiritual/Religious Use(s):	Traditionally used to make tipi poles for peyote lodge
References: ¹⁵²	

Populus deltoides Bartr. ex Marsh Populas balsamifera, Linnaeus Eastern Cottonwood; Salicaceae

Meaning:

Tribal Nation:	Kiowa
Indigenous Name:	Ya-hee-hwai A'hi'n
Meaning:	A-heen "Principal Tree"

Habitat/Ecological Zone: A widely distributed species, from the east coast to the western plains. Usually grows near rivers or waterways.

Plants Parts Harvested: Poles

Season Collected: Not given

Spiritual/Religious Use(s): Traditionally the center pole of the Sun Dance Lodge is of cottonwood.

References: ¹⁵³

Populus deltoides Bartr. ex Marsh Populas balsamifera, Linnaeus Eastern Cottonwood; Salicaceae

Tribal Nation: Kiowa

Indigenous Name:	Ya-hee-hwai A'hi'n
	A-heen
Meaning:	"Principal Tree"
Habitat/Ecological Zone: western plains. Usually grow	A widely distributed species, from the east coast to the vs near rivers or waterways.
Plants Parts Harvested:	Sticks
Season Collected:	Not given
Spiritual/Religious Use(s):	Used to make smoke sticks for the peyote ceremony.
References: ¹⁵⁴	

Populus deltoides Bartr. ex Marsh Populas balsamifera, Linnaeus Eastern Cottonwood; Salicaceae

Tribal Nation:	Kiowa
Indigenous Name:	Ya-hee-hwai A'hi'n
Meaning:	<i>A-heen</i> "Principal Tree"

Habitat/Ecological Zone: A widely distributed species, from the east coast to the western plains. Usually grows near rivers or waterways.

Plants Parts Harvested:	Wood
Season Collected:	Not given
Artifacts:	Used for fuel.
References: ¹⁵⁵	

Populus deltoides Bartr. ex Marsh Populas balsamifera, Linnaeus Eastern Cottonwood; Salicaceae

Tribal Nation:	Kiowa
Indigenous Name:	Ya-hee-hwai A'hi'n A-heen
Meaning:	"Principal Tree"
Habitat/Ecological Zone: western plains. Usually gro	A widely distributed species, from the east coast to the ws near rivers or waterways.
Plants Parts Harvested:	Not applicable
Season Collected:	Not applicable
Spiritual/Religious Use(s):	The Kiowa people emerged from a hollow cottonwood log.
References: 156	

Prosopis chilensis (Molina) S Mesquite; Fabaceae Algarrobo	Stuntz
Tribal Nation:	Kiowa
Indigenous Name:	Gwaw-hai-aip Gwaw-hai-gaw
Meaning:	"Mesquite Bush" "Mesquite Bean"
Habitat/Ecological Zone: States	Found in Mexico north across the greater Southwest United
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Food Use(s):	Leaves used for fodder.
References: ¹⁵⁷	

Prosopis chilensis (Molina) Stuntz

Mesquite; Fabaceae Algarrobo	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Gwaw-hai-aip Gwaw-hai-gaw "Mesquite Bush" "Mesquite Bean"
Habitat/Ecological Zone: States	Found in Mexico north across the greater Southwest United
Plants Parts Harvested:	Beans and pods
Season Collected:	Not given
Food Use(s):	Pounded beans and pods used for food.
Additional Commentary:	The method of preparation is no longer practiced.
References: ¹⁵⁸	

Prosopis glandulosa Torr. Honey Mesquite; Fabaceae

Tribal Nation:	Kiowa
Indigenous Name:	Gwaw-hai-aip Gwaw hai gaw
Meaning:	<i>Gwaw-hai-gaw</i> "Mesquite Bush" "Mesquite Bean"
Habitat/Ecological Zone: States	Found in Mexico north across the greater Southwest United
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Food Use(s):	Leaves used for fodder.
References: ¹⁵⁹	

Prosopis glandulosa Torr. Honey Mesquite; Fabaceae

Tribal Nation:	Kiowa
Indigenous Name:	Gwaw-hai-aip
Meaning:	<i>Gwaw-hai-gaw</i> "Mesquite Bush" "Mesquite Bean"
Habitat/Ecological Zone: States	Found in Mexico north across the greater Southwest United
Plants Parts Harvested:	Beans and pods
Season Collected:	Not given
Food Use(s):	Pounded beans and pods used for food.
References: ¹⁶⁰	

Prunus americana Marsh. American Plum; Rosaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Pank-ai-da-lo "Sour Plum" or "Thick Skinned Plum"
Habitat/Ecological Zone:	Thickets in prairies, woodlands, riverbanks
Plants Parts Harvested:	Fruit
Season Collected:	Mid-summer to fall
Food Use(s):	Fruit gathered in great quantities and used immediately.
References: ¹⁶¹	

Prunus americana Marsh.

American Plum; Rosaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Pank-ai-da-lo</i> "Sour Plum" or "Thick Skinned Plum"
Habitat/Ecological Zone:	Thickets in prairies, woodlands, riverbanks
Plants Parts Harvested:	Fruit
Season Collected:	Mid-summer to fall
Food Use(s): winter use.	Fruit gathered in great quantities, dried and stored for
References: ¹⁶²	

<i>Prunus gracilis Engelm. & G</i> Low Plum; Rosaceae Oklahoma Plum; Prairie Cherry	Tray
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Adlo-pa-pai</i> "Wild Plum"
Habitat/Ecological Zone:	Found in Oklahoma, northern Texas, and western Arkansas
Plants Parts Harvested:	Fruit
Season Collected:	Midsummer to fall
Food Use(s):	Dried fruits made into a candy.
References: ¹⁶³	

Prunus gracilis Engelm. & Gray Low Plum; Rosaceae Oklahoma Plum; Prairie Cherry

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Adlo-pa-pai</i> "Wild Plum"
Habitat/Ecological Zone:	Found in Oklahoma, northern Texas, and western Arkansas
Plants Parts Harvested:	Fruit
Season Collected:	Midsummer to fall
Food Use(s): pounded and made into cakes	Dried fruit stored for winter use, eaten uncooked or
Additional Commentary:	Quantities of the fruit also was eaten fresh.
References: ¹⁶⁴	

Prunus virginiana var. demissa (Nutt.) Torr Western Chokecherry; Rosaceae

Tribal Nation: Kiowa

Indigenous Name:O-hpan-ai-gawMeaning:No translation given

Habitat/Ecological Zone: Rich soils, thickets, borders of woods, rocky soil, hillsides, and ravine banks. Found North Dakota south to New Mexico and Arizona.

Plants Parts Harvested: Fruit

Season Collected: Not given

Food Use(s): Fruit eaten fresh.

References: 165

Prunus virginiana var. demissa (Nutt.) Torr Western Chokecherry; Rosaceae

Tribal Nation: Kiowa

Indigenous Name: Meaning:	<i>O-hpan-ai-gaw</i> No translation given
e	Rich soils, thickets, borders of woods, rocky soil, hillsides, rth Dakota south to New Mexico and Arizona.
Plants Parts Harvested:	Fruit
Season Collected:	Not given
Food Use(s):	Fruit dried in large quantities for winter use.
References: 166	

Prunus virginiana var. melanocarpa (A. Nels.) Sarg Black Chokecherry; Rosaceae

Tribal Nation:	Kiowa	
Indigenous Name: Meaning:	<i>O-hpan-ai-gaw</i> No translation given	
Habitat/Ecological Zone: Rich soils, thickets, borders of woods, rocky soil, hillsides, and ravine banks. Found North Dakota south to New Mexico and Arizona.		
Plants Parts Harvested:	Fruit	
Season Collected:	Not given	
Food Use(s):	Eaten fresh.	
References: ¹⁶⁷		

Prunus virginiana var. melanocarpa (A. Nels.) Sarg Black Chokecherry; Rosaceae

Tribal Nation: Kiowa

Indigenous Name:	O-hpan-ai-gaw
Meaning:	No translation given

Habitat/Ecological Zone: Rich soils, thickets, borders of woods, rocky soil, hillsides, and ravine banks. Found North Dakota south to New Mexico and Arizona.

Plants Parts Harvested:	Fruit
Season Collected:	Not given
Food Use(s):	Fruit dried in large quantities for winter use.
References: ¹⁶⁸	

Psoralidium tenuiflorum (Pursh) Rydb Slim Flower Scurfpea; Fabaceae Few Flowered Psoralea

Kiowa
Fu-yan-tzon A-zo'n
Not given
Found on prairies Minnesota south to Texas and west to
Stout stem
Not given
Stout stem used as a fork to eat buffalo steak.

Pyrrhopappus carolinianus (Walt.) DC. Carolina Desertchicory; Asteraceae Leafy-stemmed Falso Dandelion

Tribal Nation:KiowaIndigenous Name:Bon-yai
Ton-awdl- 'kok-yaiMeaning:Not given

Habitat/Ecological Zone:	Plant found from Kansas into Texas
Plants Parts Harvested:	Roots
Season Collected:	Autumn
Food Use(s):	Sweet roots used for food
References: ¹⁷⁰	

<i>Quercus nigra L.</i> Water Oak; Fagaceae Black-jack Oak	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Tlo-kee-ot-tee-an-kon-gee-ot</i> Not given
Habitat/Ecological Zone: west to Nebraska and Texas.	Their distribution is from New York south to Florida and
Plants Parts Harvested:	Acorns
Season Collected:	Not given
Food Use(s):	Acorns used to make a beverage.
References: ¹⁷¹	

<i>Quercus nigra L.</i> Water Oak; Fagaceae Black-jack Oak	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Tlo-kee-ot-tee-an-kon-gee-ot</i> Not given
Habitat/Ecological Zone: west to Nebraska and Texas.	Their distribution is from New York south to Florida and

Plants Parts Harvested:	Nuts
Season Collected:	Not given
Food Use(s):	Acorns harvest for food.
References: ¹⁷²	

Quercus nigra L. Water Oak; Fagaceae Black-jack Oak	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Tlo-kee-ot-tee-an-kon-gee-ot</i> Not given
Habitat/Ecological Zone: west to Nebraska and Texas.	Their distribution is from New York south to Florida and
Plants Parts Harvested:	Wood
Season Collected:	Not given
Spiritual/Religious Use(s):	Wood burned in the home and in the peyote ceremony.
References: ¹⁷³	

<i>Quercus nigra L.</i> Water Oak; Fagaceae Black-jack Oak	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Tlo-kee-ot-tee-an-kon-gee-ot</i> Not given
Habitat/Ecological Zone: west to Nebraska and Texas.	Their distribution is from New York south to Florida and
Plants Parts Harvested:	Leaves

Season Collected:	Not given
Artifacts:	Leaves used as a substitute for paper in rolling cigarettes.
References: ¹⁷⁴	

Quercus rubra var. rubra Quercus borealis Northern Red Oak; Fagaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>To-khot-ya-dtok</i> Not given
Habitat/Ecological Zone: Oklahoma; east to Arkansas,	It grows from Minnesota South to eastern Nebraska and southern Alabama, Georgia, and North Carolina.
Plants Parts Harvested:	Wood
Season Collected:	Not given
Spiritual/Religious Use(s): ceremony.	Wood used as a favorite fuel for the altar fire in the peyote
References: ¹⁷⁵	

Quercus stellata Wangenh. Post Oak; Fagaceae

Tribal Nation:	Kiowa
Indigenous Name:	Tdok-a-die-an D'go't-a'
Meaning:	"Oak" "Very hard wood"
Habitat/Ecological Zone: Nebraska and Texas.	Found in sandy soil from Massachusetts to Florida, west to
Plants Parts Harvested:	Acorns

Season Collected:	Not given
Food Use(s):	Used to make a drink similar to coffee.
References: ¹⁷⁶	

Quercus stellata Wa	ngenh.
Post Oak; Fagaceae	

Tribal Nation:	Kiowa
Indigenous Name:	Tdok-a-die-an
Meaning:	D'go't-a' "Oak" "Very hard wood"
Habitat/Ecological Zone: Nebraska and Texas.	Found in sandy soil from Massachusetts to Florida, west to
Plants Parts Harvested:	Acorns
Season Collected:	Not given
Food Use(s):	Acorns were dried and pounded for food.
References: ¹⁷⁷	

Quercus stellata Wangenh. Post Oak; Fagaceae

Tribal Nation:	Kiowa
Indigenous Name:	Tdok-a-die-an D'go't-a'
Meaning:	"Oak" "Very hard wood"
Habitat/Ecological Zone: Nebraska and Texas.	Found in sandy soil from Massachusetts to Florida, west to
Plants Parts Harvested:	Wood

Season Collected:	Not given
Artifacts:	Wood used for firewood.
References: ¹⁷⁸	
<i>Quercus stellata Wangenh.</i> Post Oak; Fagaceae	
Tribal Nation:	Kiowa
Indigenous Name:	Tdok-a-die-an D'go't-a'
Meaning:	"Oak" "Very hard wood"

Habitat/Ecological Zone: Nebraska and Texas.	Found in sandy soil from Massachusetts to Florida, west to
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Spiritual/Religious Use(s):	Leaves used as cigarette wrappers for the peyote ceremony
References: ¹⁷⁹	

Quercus stellata Wangenh. Post Oak; Fagaceae

Tribal Nation:	Kiowa
Indigenous Name:	Tdok-a-die-an D'go't-a'
Meaning:	"Oak" "Very hard wood"
Habitat/Ecological Zone: Nebraska and Texas.	Found in sandy soil from Massachusetts to Florida, west to
Plants Parts Harvested:	Leaves

Season Collected:	Not given
Spiritual/Religious Use(s):	Leaves used as cigarette wrappers for the peyote ceremony
Additional Commentary: not available.	Leaves used as cigarette wrappers when corn husks were
References: ¹⁸⁰	

Quincula lobata (Torr.) Raf Physalis heterophylla Nees. Chinese Lantern; Solanaceae Clammy Ground Cherry

Tribal Nation: Kiowa

Indigenous Name:Haw-taw-bai-aMeaning:Not given

Habitat/Ecological Zone: Sandy soil prairies, pastures, roadsides, and other disturbed areas. Found on the high plains from Kansas south into Texas

Plants Parts Harvested:	Roots
Season Collected:	Not given
Medicinal Use(s): applied for grippe.	Decoction of roots taken or poultice of pounded roots

Additional Commentary: The Kiowa used the roots of the closely related, *Quincula lobata (Torr.) Raf,* the Purple Ground Cherry.¹⁸¹

References: 182

Quincula lobata (Torr.) Raf Physalis heterophylla Nees. Chinese Lantern; Solanaceae Clammy Ground Cherry

Tribal Nation: Kiowa

Indigenous Name:

Haw-taw-bai-a

Meaning: Not given

Habitat/Ecological Zone: Sandy soil prairies, pastures, roadsides, and other disturbed areas. Found on the high plains from Kansas south into Texas

Plants Parts Harvested:	Berries
Season Collected:	Not given
Food Use(s):	Berries gathered to make jelly.

Additional Commentary: Kiowa children enjoyed "pop weed" to pop them like a "paper bag." In the 1930s, they were still being gathered by women to make preserves.¹⁸³

References: 184

Quincula lobata (Torr.) Raf Physalis heterophylla Nees. Chinese Lantern; Solanaceae Clammy Ground Cherry

Tribal Nation:	Kiowa
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Indigenous Name:	Haw-taw-bai-a
Meaning:	Not given

Habitat/Ecological Zone: Sandy soil prairies, pastures, roadsides, and other disturbed areas. Found on the high plains from Kansas south into Texas

Plants Parts Harvested:	Bladdery envelope
Season Collected:	Not given
Artifacts: forehead	Bladdery envelope blown up by children and busted on the
References: ¹⁸⁵	

Rhus glabra L Smooth Sumac; Anacardiaceae

Tribal Nation: Kiowa

Indigenous Name:	Maw-kho-la
	Dtie-ai-pa-yee- 'go
Meaning:	"Tobacco Mixture"
	"Bitter Red Berry"

Habitat/Ecological Zone: Upland prairies, borders and openings in woods, country roads, and railroads. It is widely distributed in the United States

Plants Parts Harvested: Leaves

Season Collected: Not given

Spiritual/Religious Use(s): The plant leaves are dried, mixed with tobacco and smoked to "purify" the body and mind.

References: 186

Rhus glabra L	
Smooth Sumac; Anacardiaceae	

Tribal Nation:	Kiowa
Indigenous Name:	Maw-kho-la
Meaning:	Dtie-ai-pa-yee- 'go "Tobacco Mixture" "Bitter Red Berry"
Habitat/Ecological Zone: roads, and railroads	Upland prairies, borders and openings in woods, country
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s):	Leaves are used for tuberculosis.

Additional Commentary: A medicine man and peyote leader stated the leaves were not the medicine but was used to purify the mind and body so peyote could cure the tuberculosis.

References: 187

Rhus glabra L Smooth Sumac; Anacardiaceae

Tribal Nation:	Kiowa
Indigenous Name:	Maw-kho-la
Meaning:	Dtie-ai-pa-yee- 'go "Tobacco mixture" "Bitter Red Berry"
Habitat/Ecological Zone: roads, and railroads	Upland prairies, borders and openings in woods, country
Plants Parts Harvested:	Spring roots
Season Collected:	Not given
Artifacts:	Spring roots used as a yellow, orange dye.
References: 188	

Rhus glabra L Smooth Sumac; Anacardiaceae

Tribal Nation:	Kiowa
Indigenous Name:	Maw-kho-la
Meaning:	<i>Dtie-ai-pa-yee- 'go</i> "Tobacco mixture" "Bitter Red Berry"
Habitat/Ecological Zone: roads, and railroads	Upland prairies, borders and openings in woods, country
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Atifacts:	Dried leaves smoked in a mixture of tobacco
References: 189	

Rhus glabra L Rhus aromatica Smooth Sumac; Anacardiaceae Fragrant Sumac

Tribal Nation:	Kiowa
Indigenous Name:	Maw-kho-la
Meaning:	Dtie-ai-pa-yee- 'go "Tobacco mixture" "Bitter Red Berry"
Habitat/Ecological Zone: roads, and railroads	Upland prairies, borders and openings in woods, country
Plants Parts Harvested:	Berries
Season Collected:	Not given
Food Use(s):	Berries eaten fresh

Additional Commentary: The berries are considered a pre-reservation food. They were reported mixed with corn meal and beaten with sugar as sweetener. The recipe is post-contact. It is also possible that this plant may be one in which one of the six traditional Kiowa societies is named. The society is called *Ta'-aipeko* or "Berries."¹⁹⁰

References: ¹⁹¹

Rhus glabra L Rhus aromatica Smooth Sumac; Anacardiaceae Fragrant Sumac

Tribal Nation:

Kiowa

Indigenous Name:	Maw-kho-la
	Dtie-ai-pa-yee- 'go
Meaning:	"Tobacco mixture"
	"Bitter Red Berry"

Habitat/Ecological Zone:	Upland prairies, borders and openings in woods, cou	intry
roads, and railroads		

Plants Parts Harvested:	Berries
Season Collected:	Not given
Food Use(s):	Boiled into a tea

Additional Commentary: The berries are considered a pre-reservation food. They were reported mixed with corn meal and beaten with sugar as sweetener. The recipe is post-contact. It is also possible that this plant may be one in which one of the six traditional Kiowa societies is named. The society is called *Ta'-aipeko* or "Berries."¹⁹²

References: ¹⁹³

Rhus trilobata Nutt Skunk Bush Sumac; Anacardiaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Dtie-ai-pa-yee- 'go T'a'npe-a' "Bitter Red Berry" Not given
Habitat/Ecological Zone:	Western species found from Canada south to Mexico
Plants Parts Harvested:	Berries
Season Collected:	Not given
Medicinal Use(s):	Berries eaten for stomach trouble and grippe
References: ¹⁹⁴	

Rhus trilobata Nutt Skunk Bush Sumac; Anacardiaceae Tribal Nation: Kiowa

	Klowa
Indigenous Name:	Dtie-ai-pa-yee- 'go
Meaning:	<i>T'a'npe-a'</i> "Bitter Red Berry"
	Not given

Habitat/Ecological Zone:	Western species found from Canada south to Mexico
Plants Parts Harvested:	Berries
Season Collected:	Not given
Food Use(s):	Berries are beaten with sugar and eaten
References: ¹⁹⁵	

Rhus trilobata Nutt Skunk Bush Sumac; Anacardiaceae

Tribal Nation:	Kiowa
Indigenous Name:	Dtie-ai-pa-yee- 'go
Meaning:	<i>T'a'npe-a'</i> "Bitter Red Berry" Not given
Habitat/Ecological Zone:	Western species found from Canada south to Mexico
Plants Parts Harvested:	Berries
Season Collected:	Not given
Food Use(s):	Berries boiled into a "tea"
References: ¹⁹⁶	

Rhus trilobata Nutt Skunk Bush Sumac; Anacardiaceae

Tribal Nation:	Kiowa
Indigenous Name:	Dtie-ai-pa-yee- 'go T'a 'npe-a'
Meaning:	"Bitter Red Berry" Not given
Habitat/Ecological Zone:	Western species found from Canada south to Mexico

Plants Parts Harvested:	Berries
Season Collected:	Not given
Food Use(s):	Berries mixed with corn meal and eaten
References: ¹⁹⁷	

Rhus trilobata Nutt Skunk Bush Sumac; Anacardiaceae

Tribal Nation:	Kiowa
Indigenous Name:	Dtie-ai-pa-yee- 'go
Meaning:	<i>T'a'npe-a'</i> "Bitter Red Berry" Not given
Habitat/Ecological Zone:	Western species found from Canada south to Mexico
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Artifacts:	Leaves mixed with tobacco and used for smoking
References: ¹⁹⁸	

Ribes aureum var. villosum DC. Ribes odoratum Golden Currant; Grossulariaceae Buffalo Currant

Tribal Nation:KiowaIndigenous Name:Awdl-kno-bawg

Meaning: "Goose Berry"

Habitat/Ecological Zone: Hillsides, limestone cliffs, borders of woods, often is sandy soils. It is found from South Dakota to western Texas

Plants Parts Harvested:	Plant parts
Season Collected:	Not given
Medicinal Use(s): poison from the wound.	Poultice of plant parts applied to snakebites after sucking
Additional Commentary: it.	The Kiowa believe that snakes fear this plant and will avoid
References: ¹⁹⁹	

Ribes aureum var. villosum DC. Ribes odoratum Golden Currant; Grossulariaceae Buffalo Currant

Indigenous Name:Awdl-kno-bawgMeaning:"Goose Berry"	
Habitat/Ecological Zone: Hillsides, limestone cliffs, borders of woods, often is san soils. It is found from South Dakota to western Texas	dy
Plants Parts Harvested: Fruit or Berry	
Season Collected: Not given	
Food Use(s): Fruit eaten raw.	

References: 200

Ribes aureum var. villosum DC. Ribes odoratum Golden Currant; Grossulariaceae Buffalo Currant

Tribal Nation:

Kiowa

Indigenous Name:Awdl-kno-bawgMeaning:"Goose Berry"

Habitat/Ecological Zone: Hillsides, limestone cliffs, borders of woods, often is sandy soils. It is found from South Dakota to western Texas

Plants Parts Harvested:	Fruit
Season Collected:	Not given
Food Use(s):	Fruit made into jelly
References: ²⁰¹	

<i>Salix sp</i> <i>Salix humilis</i> Willow; Salicaceae Prairie Willow	
Tribal Nation:	Kiowa
Indigenous Name:	Sen-a Ai-pee-a-'gaw Sen-ya-daw
Meaning:	Not given
Habitat/Ecological Zone: sandy soils	Upland sites in prairies, sparse woods, especially favoring
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s): rheumatic aches.	Infusion of leaves made into a tea is used as a wash for
References: ²⁰²	

Salix sp Salix humilis Willow; Salicaceae Prairie Willow

Tribal Nation:

Kiowa

Indigenous Name:	Sen-a Ai-pee-a-'gaw Sen-ya-daw
Meaning:	No translations given
Habitat/Ecological Zone: sandy soils	Upland sites in prairies, sparse woods, especially favoring
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s): pneumonia.	Infusion of leaves made into a tea is used as a wash for
References: ²⁰³	

Salix sp Salix humilis Willow; Salicaceae Prairie Willow	
Tribal Nation:	Kiowa
Indigenous Name:	Sen-a Ai-pee-a-'gaw Sen-ya-daw
Meaning:	No translations given
Habitat/Ecological Zone: sandy soils	Upland sites in prairies, sparse woods, especially favoring
Plants Parts Harvested:	Bark
Season Collected:	Not given
Medicinal Use(s):	Bark chewed for toothaches.
References: ²⁰⁴	

Salix sp

Salix humilis Willow; Salicaceae Prairie Willow	
Tribal Nation:	Kiowa
Indigenous Name:	Sen-a Ai-pee-a-'gaw Sen-ya-daw
Meaning:	No translations given
Habitat/Ecological Zone: sandy soils	Upland sites in prairies, sparse woods, especially favoring
Plants Parts Harvested:	Branches
Season Collected:	Not given
Artifacts: overlaying cottonwood poles	Branches are used in construction of summer shelters with willow branches.

References: ²⁰⁵

<i>Salix sp Salix humilis</i> Willow; Salicaceae Prairie Willow	
Tribal Nation:	Kiowa
Indigenous Name:	Sen-a Ai-pee-a-'gaw Sen-ya-daw
Meaning:	No translations given
Habitat/Ecological Zone: sandy soils	Upland sites in prairies, sparse woods, especially favoring
Plants Parts Harvested:	Leafy stems
Season Collected:	Not given
Artifacts:	Leafy stems used to make wreathes worn by the women

and children as sunshades during long walks.

References: ²⁰⁶

Sambucus sp Elderberry; Caprifoliaceae	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Canada to New Mexico	Moist sites; foothills to sub-alpine; British Columbia,
Plants Parts Harvested:	Berries
Season Collected:	Not given
Food Use(s): or drying the fruit	Berries used for food, by eating them fresh, cooking them,
References: ²⁰⁷	

Sapindus saponaria var. drummondii (Hook. & Arn.) L. Benson Western Soapberry; Sapindaceae Drummond's Soapberry

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Att-dtok-ko-ai-od-la</i> "Poison Weed"
Habitat/Ecological Zone:	Kansas south into Texas and New Mexico
Plants Parts Harvested:	Sap
Season Collected:	Not given
Medicinal Use(s):	A diagonal cut is made in the stem to allow the l

Medicinal Use(s): A diagonal cut is made in the stem to allow the latex is collected. The sap is then inserted in old wounds as a healing agent.

References: ²⁰⁸

Senna occidentalis (L.) Link Cassia occidentali (Linnaeus) Coffee Senna; Fabaceae Styptic Weed; Coffee Weed; Nigger Coffee

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Set-tdawdl-ton-a</i> "Coffee Bean"
Habitat/Ecological Zone:	The plant occurs from Kansas into Texas
Plants Parts Harvested:	Seeds
Season Collected:	Not given
Food Use(s):	Ground seeds boiled to make a coffee-like drink
References: ²⁰⁹	

Senna occidentalis (L.) Link Cassia occidentali (Linnaeus) Coffee Senna; Fabaceae Styptic Weed; Coffee Weed; Nigger Coffee Tribal Nation: Kiowa Indigenous Name: Set-tdawdl-ton-a Meaning: "Coffee Bean" Habitat/Ecological Zone: The plant occurs from Kansas into Texas Plants Parts Harvested: Seeds and young pods Season Collected: Not given

Food Use(s): eaten.

Circa 1930s, the young pods and seeds are cooked and

References: ²¹⁰

Senna occidentalis (L.) Link Cassia occidentali (Linnaeus) Coffee Senna; Fabaceae Styptic Weed; Coffee Weed; Nigger Coffee)
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Set-tdawdl-ton-a</i> "Coffee Bean"
Habitat/Ecological Zone:	The plant occurs from Kansas into Texas
Plants Parts Harvested:	Wood
Season Collected:	Not given
Artifacts:	Wood used for fuel.
References: ²¹¹	

Sideroxylon lanuginosum Michx. Gum Bumelia; Sapotaceae Chittomwood

Tribal Nation: Kiowa

Indigenous Name:Not givenMeaning:Not given

Habitat/Ecological Zone: Grow in dry to medium moisture, well-drained soils in full sun to part shade across the southeast into Oklahoma and Texas

Plants Parts Harvested: Outer bark

Season Conected. Not given	Season	Collected:	Not	given
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Food Use(s): chewing gum.

Outer bark yields a mucilaginous substance used as

References: ²¹²

<i>Smilax rotundifolia L.</i> Common Green Brier; Smilao Roundleaf Green Brier; Horse Brier	caceae
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Mon-kson-a-a</i> "Sharp Grass"
Habitat/Ecological Zone:	Found in Kansas, Oklahoma, and Texas
Plants Parts Harvested:	Plant
Season Collected:	Not given
Artifacts: thorns and its scandent nature	Plant used to block the path of pursuers because of its sharp e.

References: ²¹³

Smilax rotundifolia L. Common Green Brier; Smilacaceae Roundleaf Green Brier; Horse Brier

Tribal Nation:KiowaIndigenous Name:
Meaning:Mon-kson-a-a
"Sharp Grass"Habitat/Ecological Zone:Found in Kansas, Oklahoma, and TexasPlants Parts Harvested:Plant used in an old hide and seek game.Season Collected:Not given

Artifacts:

Plant used in an old hide and seek game.

References: ²¹⁴

Solanum elaeagnifolium (Cavanilles) Silver-leaved Nightshade; Solanaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	Occurs in semi-arid regions in sandy soils across the west
Plants Parts Harvested:	Leaves
Season Collected:	Not given

Artifacts: Leaves are pounded and mixed with the brain tissue of recently killed animals and applied to deer hide for tanning

References: ²¹⁵

Sophora secundiflora Mescal Bean	
Tribal Nation:	Kiowa
Indigenous Name:	'Kawn- 'kodl K'an-k'o'dal
Meaning:	"Mescal Bean" "Mescal Bean Necklace"
Habitat/Ecological Zone: New Mexico.	Found in Mexico north into western Texas and southern
Plants Parts Harvested:	Beans
Season Collected:	Not given

Artifacts: The red beans are strung into necklaces that are worn by leaders in peyote meetings.

Additional Commentary: Many plains tribes used mescal beans as an intoxicant in the Red Bean Dance. The Kiowa may have also performed this dance.

References: ²¹⁶

Sophora secundiflora Mescal Bean		
Tribal Nation:	Kiowa	
Indigenous Name:	'Kawn-'kodl	
Meaning:	<i>K'an-k'o'dal</i> "Mescal Bean" "Mescal Bean Necklace"	
Habitat/Ecological Zone: New Mexico.	Found in Mexico north into western Texas and southern	
Plants Parts Harvested:	Beans	
Season Collected:	Not given	
Spiritual/Religious Use(s): Mescal beans were worn on buckskin leggings as protection against the results of stepping on menstrual blood.		
Additional Commentary: Many plains tribes used mescal beans as an intoxicant in the Red Bean Dance. The Kiowa may have also performed this dance.		
References: ²¹⁷		
Sorghum halepense (L.) Pers Johnson Grass; Poaceae	· · · · · · · · · · · · · · · · · · ·	
Tribal Nation:	Kiowa	
Indigenous Name:	Son-ton-pa Son-ka	
Meaning:	Not given	

Habitat/Ecological Zone: Widespread species Washington to New Mexico

Plants Parts Harvested:	Grass stems
Season Collected:	Not given
Food Use(s):	Used as a fodder for horses.

References: ²¹⁸

Sorghum halepense (L.) Pers. Johnson Grass; Poaceae

Tribal Nation:	Kiowa
Indigenous Name:	Son-ton-pa
Meaning:	Son-ka Not given
Habitat/Ecological Zone:	Widespread species Washington to New Mexico
Plants Parts Harvested:	Stems and leaves used by children to make grass whistles.
Season Collected:	Not given
Artifacts:	Stems and leaves used by children to make grass whistles.
References: ²¹⁹	

Sphaeralcea angustifolia (Cav.) G. Don Sphaeralcea cuspidate (Cav.) Copper Globemallow; Malvaceae

Tribal Nation:	Kiowa
Indigenous Name:	Not given
Meaning:	Not given

Habitat/Ecological Zone: Found in dry soils from southern Colorado and Kansas, south to Texas, New Mexico, and Arizona

Plants Parts Harvested:	Flowers
Season Collected:	Not given
Artifacts: bouquets in the home	Flowers appealed to the esthetic nature, picked and used for
References: ²²⁰	

Sporobolus cryptandrus (Torr.) Gray Sand Dropseed; Poaceae		
Tribal Nation:	Kiowa	
Indigenous Name: Meaning:	Not given Not given	
Habitat/Ecological Zone: preferring sandy soils. Distri	Found in pastures, open disturbed areas, and along roads buted across the west.	
Plants Parts Harvested:	Foliage	
Season Collected:	Not given	
Food Use(s):	The foliage recognized by the Kiowa as valuable fodder.	
References: ²²¹		

Stillingia sylvatica Garden ex L. Queen's Root; Euphorbiaceae Queens Delight

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Khon-klee-a</i> "Turtle Weed"
Habitat/Ecological Zone:	Found in dry and sandy soils in Kansas into Mexico
Plants Parts Harvested:	Plant
Season Collected:	Not given

Spiritual/Religious Use(s): Plant considered a rain symbol because the dry land terrapins get under it for shade.

References: 222

<i>Symphoricarpos orbiculatus</i> Corral Berry; Indian Currant	(Moench)
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>Gu-la-ko- 'kee-a</i> Not given
Habitat/Ecological Zone:	Found South Dakota to Texas
Plants Parts Harvested:	Not specified in the literature
Season Collected:	Not given
Additional Commentary:	The Kiowa recognized the plant, did not list a use for it.
References: ²²³	

Taraxacum officinale G.H. Weber ex Wiggers Common Dandelion; Asteraceae

Tribal Nation: Kiowa

Indigenous Name:Not givenMeaning:Not given

Habitat/Ecological Zone: Originally a native species of Europe that is now a wide spread weed across the United States, especially in disturbed soils

Plants Parts Harvested: Young leaves and flowers

Season Collected: Not given

Medicinal Use(s): Young leaves and flowers are boiled with mint leaves to make a decoction for women suffering from menstrual cramps

References: ²²⁴

Taraxacum officinale G.H. Weber ex Wiggers Common Dandelion; Asteraceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone: Europe; Alaska to New Mexi	Disturbed, cultivated, or waste ground; introduced from ico
Plants Parts Harvested:	Young leaves used as greens.
Season Collected:	Not given
References: ²²⁵	

Toxicodendron radicans ssp. radicans Rhus *radicans (Linnaeus)* Eastern Poison Ivy; Anacardiaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	A variable species found throughout the United States
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Medicinal Use(s): boils or skin eruptions. A cas	Whole or broken leaves were ribbed over the surface of se of rhus dermatitis follows, lasting as long as the boil.

References: ²²⁶

Toxicodendron radicans ssp. radicans Rhus *radicans (Linnaeus)* Eastern Poison Ivy; Anacardiaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	A variable species found throughout the United States
Plants Parts Harvested:	Sap
Season Collected:	Not given
Medicinal Use(s):	Sap is employed to heal running or non-healing sores.
References: ²²⁷	

Tragia ramose (Torrey)
Branching Tragia

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Dan-sa-la "Stinging Weed"
Habitat/Ecological Zone:	Found in dry soils from Colorado south to Texas
Plants Parts Harvested:	Not specified in the literature
Season Collected:	Not given
Additional Commentary: avoided the plant.	Because of the plant's bristling, stinging hairs, the Kiowa
References: ²²⁸	

Ulmus rubra Muhl. Slippery Elm; Ulmaceae Red Elm;

Sweet Elm; Rock Elm; Indian Elm; Moose Elm	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Taw-a Kaw-la Ta'a or Ta-a Ga'dal-a or Ga-dal-a Tee-aw-ya-da Kee-awdl-ya-eep-eep "Saddle Tree" "Buffalo Tree" "Saddle Wood" "Buffalo Wood" Not given Not given
Habitat/Ecological Zone:	Native species to North Dakota south into Texas.
Plants Parts Harvested:	Inner bark
Season Collected:	Not given
Medicinal Use(s):	Fresh, inner bark used as a masticatory.
References: ²²⁹	

<i>Ulmus rubra Muhl.</i> Slippery Elm; Ulmaceae Red Elm; Sweet Elm; Rock Elm; Indian Elm;	
Moose Elm	
Tribal Nation:	Kiowa
Indigenous Name:	Taw-a Kaw-la Ta'a or Ta-a Ga'dal-a or Ga-dal-a

Meaning:	<i>Tee-aw-ya-da Kee-awdl-ya-eep-eep</i> "Saddle Tree" "Buffalo Tree" "Saddle Wood" "Buffalo Wood" Not given Not given
Habitat/Ecological Zone:	Native species to North Dakota south into Texas.
Plants Parts Harvested:	Not specified in the literature
Season Collected:	Not given
Food Use(s):	The fresh inner bark used to brew a "tea."
Additional Commentary: The Kiowa would dry and st	Other Oklahoma tribes also used the inner bark for tea. ore the bark for winter use.

References: ²³⁰

<i>Ulmus rubra Muhl.</i> Slippery Elm; Ulmaceae Red Elm; Sweet Elm; Rock Elm; Indian Elm; Moose Elm	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Taw-a Kaw-la Ta'a or Ta-a Ga'dal-a or Ga-dal-a Tee-aw-ya-da Kee-awdl-ya-eep-eep "Saddle Tree" "Buffalo Tree" "Saddle Wood" "Buffalo Wood" Not given Not given

Habitat/Ecological Zone: Native species to North Dakota south into Texas.

Plants Parts Harvested: Wood

Season Collected: Not given

Artifacts: The forked branches were valued for the construction of saddle frames, which was covered with bison or deer hide.

References: ²³¹

<i>Ulmus rubra Muhl.</i> Slippery Elm; Ulmaceae Red Elm; Sweet Elm; Rock Elm; Indian Elm; Moose Elm	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Taw-a Kaw-la Ta'a or Ta-a Ga'dal-a or Ga-dal-a Tee-aw-ya-da Kee-awdl-ya-eep-eep "Saddle Tree" "Buffalo Tree" "Saddle Wood" "Buffalo Wood" Not given Not given
Habitat/Ecological Zone:	Native species to North Dakota south into Texas.
Plants Parts Harvested:	Tree
Season Collected:	Not given
Additional Commentary:	Bison frequently congregated in the shade of the tree. The

Kiowa give reference to that fact by calling it "buffalo tree."

References: ²³²

Vernonia missurica Raf. Missouri Ironweed; Asteraceae Drummond's Iron Weed

Tribal Nation:	Kiowa
Indigenous Name:	A- 'kai- 'kawdl-a
Meaning:	<i>Ee-pa-la</i> "Mattress Plant" Not given
Habitat/Ecological Zone:	Found on the prairies ok Kansas south to Texas
Plants Parts Harvested:	Flowers
Season Collected:	Not given
Medicinal Use(s): dandruff	Flowers are placed in water and applied to the scalp to cure
References: ²³³	

Vernonia missurica Raf. Missouri Ironweed; Asteraceae Drummond's Iron Weed

Tribal Nation:	Kiowa
Indigenous Name:	A- 'kai- 'kawdl-a
Meaning:	<i>Ee-pa-la</i> "Mattress Plant" Not given
Habitat/Ecological Zone:	Found on the prairies ok Kansas south to Texas
Plants Parts Harvested:	Flowers
Season Collected:	Not given

Food Use(s): sweet chew.

Pressed blossoms are made in to small wads for a short,

References: ²³⁴

Vernonia missurica Raf. Missouri Ironweed; Asteraceae Drummond's Iron Weed

Tribal Nation:	Kiowa
Indigenous Name:	A- 'kai- 'kawdl-a
Meaning:	<i>Ee-pa-la</i> "Mattress Plant" Not given
Habitat/Ecological Zone:	Found on the prairies ok Kansas south to Texas
Plants Parts Harvested:	Flowers
Season Collected:	Not given
Artifacts:	Flowers used to make a purple dye
References: ²³⁵	

Vernonia missurica Raf. Missouri Ironweed; Asteraceae Drummond's Iron Weed

Tribal Nation:	Kiowa
Indigenous Name:	A- 'kai- 'kawdl-a Ee-pa-la
Meaning:	"Mattress Plant" Not given
Habitat/Ecological Zone:	Found on the prairies ok Kansas south to Texas
Plants Parts Harvested:	Tall stems
Season Collected:	Not given

Artifacts:

Tall stems used as an overnight bed.

Additional Commentary: As the Kiowa traveled they would gather the tall stems to make a pile, six inches thick to be used for over-night bedding by arranging the stems in a rectangular fashion.

References: ²³⁶

Vitis cinerea (Engelm.) Millard Graybark Grape; Vitaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>'Kodl-ta-pai</i> "Wild Grapes"
Habitat/Ecological Zone:	Found in Nebraska south to Texas and Mexico
Plants Parts Harvested:	Grapes
Season Collected:	Not given
Food Use(s):	Grapes gathered in large quantities and consumed fresh
References: ²³⁷	

Vitis cinerea (Engelm.) Millard Graybark Grape; Vitaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>'Kodl-ta-pai</i> "Wild Grapes"
Habitat/Ecological Zone:	Found in Nebraska south to Texas and Mexico
Plants Parts Harvested:	Grapes
Season Collected:	Not given
Food Use(s):	Grapes gathered in large quantities and stored for later use

References: ²³⁸

Vitis cinerea (Engelm.) Millard Graybark Grape; Vitaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	<i>'Kodl-ta-pai</i> "Wild Grapes"
Habitat/Ecological Zone:	Found in Nebraska south to Texas and Mexico
Plants Parts Harvested:	Grapes
Season Collected:	Not given
Food Use(s): jellies.	Grapes gathered in large quantities and made into jams and
References: ²³⁹	

<i>Yucca glauca Nutt.</i> Small Soap Weed; Agavace Bear Grass; Indian Cabbage	ae
Tribal Nation:	Kiowa
Indigenous Name:	Kaw-tzee-atzo-tee-a Ol-po-on-a
Meaning:	<i>Kee-aw-gee-tzot-ha'-a'h</i> No translation given
Habitat/Ecological Zone: limestone soils	Upland prairies, plains, sandy blowouts, hillsides, often in
Plants Parts Harvested:	Plant
Season Collected:	Not given
Medicinal Use(s):	Plant used for dandruff, baldness, and skin irritations.

References: ²⁴⁰

Yucca glauca Nutt. Small Soapweed; Agavaceae Beargrass

Tribal Nation:	Kiowa
Indigenous Name:	Kaw-tzee-atzo-tee-a Ol-po-on-a
Meaning:	<i>Kee-aw-gee-tzot-ha'-a'h</i> No translation given
Habitat/Ecological Zone: limestone soils	Upland prairies, plains, sandy blowouts, hillsides, often in
Plants Parts Harvested:	Root
Season Collected:	Not given
Artifacts:	Root used to wash clothes and hair.
References: ²⁴¹	

<i>Yucca glauca Nutt.</i> Small Soapweed; Agavaceae Beargrass	
Tribal Nation:	Kiowa
Indigenous Name:	Kaw-tzee-atzo-tee-a Ol-po-on-a Kee-aw-gee-tzot-ha'-a'h
Meaning:	No translation given
Habitat/Ecological Zone: limestone soils	Upland prairies, plains, sandy blowouts, hillsides, often in
Plants Parts Harvested:	Central stalk or spike
Season Collected:	Not given

Food Use(s):	Ate the central spike
Additional Commentary:	The Kiowa referred to the food as "cabbage." ²⁴²
References: ²⁴³	

Zea mays L. Corn; Indian Corn; Poaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	Cultivar
Plants Parts Harvested:	Plant
Season Collected:	Not given
Food Use(s):	Valued as a fodder for livestock.

Additional Commentary: In the summer of 1870 the Kiowa held a Sun Dance called *E'gu Gyak'iada-de K'ado* ("Plant Growing Sun Dance"). The ceremony was held on the north fork of the Red River. During the ceremony traders brought corn and watermelons to sell to the Kiowa. The seeds were thrown away and on returning to the location in the fall the Kiowa discovered the seeds had germinated and grew to full height.²⁴⁴

References: ²⁴⁵

Zea mays L Corn; Poaceae

Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	Cultivar
Plants Parts Harvested:	Leaves

Season Collected:	Not given
Spiritual/Religious Use(s):	Shucks used in the peyote ceremony.

Additional Commentary: In the summer of 1870 the Kiowa held a Sun Dance called E'gu Gyak'iada-de K'ado ("Plant Growing Sun Dance"). The ceremony was held on the north fork of the Red River. During the ceremony traders brought corn and watermelons to sell to the Kiowa. The seeds were thrown away and on returning to the location in the fall the Kiowa discovered the seeds had germinated and grew to full height.²⁴⁶

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Zea mays L. Corn; Poaceae	
Tribal Nation:	Kiowa
Indigenous Name: Meaning:	Not given Not given
Habitat/Ecological Zone:	Cultivar
Plants Parts Harvested:	Leaves
Season Collected:	Not given
Artifacts:	Shucks used for cigarette wrappings

Additional Commentary: In the summer of 1870 the Kiowa held a Sun Dance called *E'gu Gyak'iada-de K'ado* ("Plant Growing Sun Dance"). The ceremony was held on the north fork of the Red River. During the ceremony traders brought corn and watermelons to sell to the Kiowa. The seeds were thrown away and on returning to the location in the fall the Kiowa discovered the seeds had germinated and grew to full height.²⁴⁸

References: 249

³. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 41.

⁴. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 26.

⁵. Kelly Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>. Lawrence: University Press of Kansas, 1992), 32-35; Vestal and Schultes, <u>The Economic</u> <u>Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 55.

⁶. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 32-35; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 55.

⁷. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 32-35; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 55.

⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 55.

⁹. Kelly Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 23-26; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 32-35; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of</u> <u>the Tribe</u>, 55.

¹⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 55.

¹¹. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 23-26; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 32-35; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of</u> <u>the Tribe</u>, 55.

¹². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 55.

¹³. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 23-26; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 32-35; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of</u> <u>the Tribe</u>, 55.

¹⁴. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 31.

¹⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 47.

¹. The indigenous names are spelt phonetically as they appear in the source. It is recommended that the original texts be referenced for spelling accuracy and the taxonomic system that was applied to the plants.

². Linda Kershaw, Andy MacKinnon, and Jim Pojar, <u>Plants of the Rocky Mountains</u>. (Edmonton: Lone Pine Publishing, 1998), 59; Paul A. Vestal and Richard E. Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>. (Cambridge: Botanical Museum, 1939), 40-41.

¹⁶. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 41-45; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 47.

¹⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 29.

¹⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

¹⁹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

²⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

²¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

²². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

²³. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 46-52; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

²⁴. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 46-52; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

²⁵. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 46-52; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

²⁶. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 56.

²⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 57.

²⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 57.

²⁹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 57.

³⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 47-48.

³¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 47-48.

³². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 28.

³³. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 13-14

³⁴. Kershaw, MacKinnon, and Pojar, <u>Plants of the Rocky Mountains</u>, 290; Vestal and Schultes, T<u>he Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 14.

³⁵. Kershaw, MacKinnon, and Pojar, <u>Plants of the Rocky Mountains</u>, 290; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 14.

³⁶. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 14.

³⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 14-15.

³⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 42-43.

³⁹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 20.

⁴⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 20.

⁴¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 22-23.

⁴². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 23.

⁴³. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 23.

⁴⁴. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 58.

⁴⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 51.

⁴⁶. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 32.

⁴⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 32.

⁴⁸. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 79-83; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 25-26.

⁴⁹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 29.

⁵⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 29.

⁵¹. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 234-235; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 58.

⁵². Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 234-235; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe, 58</u>.

⁵³. Kindscher, Edible Wild Plants of the Prairie: An Ethnobotanical Guide, 84-85.

⁵⁴. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 84-87; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 58.

⁵⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 58.

⁵⁶. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 53.

⁵⁷. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 237-238; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 59.

⁵⁸. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 72-74; James Mooney, "Calendar History of the Kiowa Indians," <u>Seventeenth Annual Report of the Bureau of American Ethnology</u>. Part 1. (Washington D.C.: Government Printing Office, 1898); Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 36.

⁵⁹. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 75-79; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 53-54.

⁶⁰. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 75-79; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 53.

⁶¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 17.

⁶². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 33.

⁶³. Kindscher, <u>Edible Wild Plants of the Prairie. An Ethnobotanical Guide</u>, 109-111; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 81-83; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of</u> <u>the Tribe</u>, 33.

⁶⁴. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 32-33.

⁶⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 33.

⁶⁶. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 238-239; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 28.

⁶⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 16.

⁶⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 71.

⁶⁹. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 84-94; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 57-58.

⁷⁰. George Bird Grinnell, <u>The Cheyenne Indians - Their History and Ways of Life</u> Volume 2. (Lincoln. University of Nebraska Press, 1972), 188.

⁷¹. Grinnell, <u>The Cheyenne Indians - Their History and Ways of Life</u> Volume 2, 188; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 84-94; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of</u> the Tribe, 57-58.

⁷². Kershaw, MacKinnon, and Pojar, <u>Plants of the Rocky Mountains</u>, 290; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 15.

⁷³. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 95-98; Vestal and Schultes, The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe, 60.

⁷⁴. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 24.

⁷⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 24-25.

⁷⁶. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 25.

⁷⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 36.

⁷⁸. See, Mildred P. Mayall, <u>The Kiowas</u>. (Norman: University of Oklahoma Press, 1962),
148; James Mooney, <u>Calendar History of the Kiowa Indians</u>. Reprint. (Washington D.C.: Smithsonian Institution Press, 1979), 269-270.

⁷⁹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 12.

⁸⁰. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 246-247; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 60.

⁸¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 60.

⁸². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 60.

⁸³. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 123-128; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 60.

⁸⁴. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 255-257; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 15-16.

⁸⁵. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 255-257; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 15.

⁸⁶. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 255-257; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 15.

⁸⁷. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 255-257; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 15.

⁸⁸. Edward Palmer, "Food Products of the North American Indians," <u>Annual Report of the Commissioner of Agriculture</u>, House Executive Document, 3rd Session, 41st Congress, Serial Set No. 1461, (Washington D.C., 1871), 407.

⁸⁹. J. W. Blankinship, <u>Native Economic Plants of Montana</u>. Bulletin 56. Bozeman. Montana Agricultural College Experimental Station, 1905), 13; Kindscher, <u>Edible Wild</u> <u>Plants of the Prairie: An Ethnobotanical Guide</u>, 136; Palmer, "Food Products of the North American Indians," <u>Annual Report of the Commissioner of Agriculture</u>, 407; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the</u> <u>Tribe</u>, 48.

⁹⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 21.

⁹¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 20-21.

⁹². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 20.

⁹³. Vestal and Schultes, The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe, 20.

⁹⁴. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 130-135; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 13.

⁹⁵. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 130-135; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 13.

⁹⁶. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 130-135; Vestal and Schultes, The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe, 13.

⁹⁷. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 130-135;Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 13.

⁹⁸. See, Mooney, "Calendar History of the Kiowa Indians."

⁹⁹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 54.

¹⁰⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 61.

¹⁰¹ Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 142-145; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 136-140; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 61.

¹⁰². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 12.

¹⁰³. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 12.

¹⁰⁴. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 44.

¹⁰⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹⁰⁶. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹⁰⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹⁰⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43.

¹⁰⁹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43.

¹¹⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹¹¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹¹². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹¹³. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 43-44.

¹¹⁴. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹¹⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹¹⁶. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 43-44.

¹¹⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 43-44.

¹¹⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 12.

¹¹⁹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 12.

¹²⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 23.

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¹²³. Mayall, <u>The Kiowas</u>, 155; Mooney, <u>Calendar History of the Kiowa Indians</u>, 292.
¹²⁴. Mayall, <u>The Kiowas</u>, 155; Mooney, <u>Calendar History of the Kiowa Indians</u>, 292.

¹²⁵. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 151-154; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 48-49.

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¹²⁷. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 149-152; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 155-159; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 49. ¹²⁸. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 149-152; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 155-159; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 49.

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¹³⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 49.

¹³¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 49.

¹³². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 49.

¹³³. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 27.

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¹³⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 45.

¹³⁶. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 45.

¹³⁷. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 45.

¹³⁸. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 153-157; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 45.

¹³⁹. Mooney, "Calendar History of the Kiowa Indians," 301.

¹⁴⁰. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 153-157; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 45.

¹⁴¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 45.

¹⁴². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 45.

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¹⁴⁷. Vestal and Schultes, The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe, 16.

¹⁴⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 16.

¹⁴⁹. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 267-268; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 51.

¹⁵⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 26.

¹⁵¹. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 51.

¹⁵². Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 19.

¹⁵³. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the</u> <u>History of the Tribe</u>, 13, 19

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¹⁵⁵. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 19.

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¹⁵⁸. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 33-34.

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¹⁶⁰. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 33.

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¹⁶². Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 169-174; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 29.

¹⁶³. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 169-174; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 30.

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¹⁶⁵. Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 169-174; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 30-31.

¹⁶⁶. Kindscher, <u>Edible Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 176-182; Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 169-174;

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¹⁷³. Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 21.

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¹⁸². Kindscher, <u>Medicinal Wild Plants of the Prairie: An Ethnobotanical Guide</u>, 268-270; Vestal and Schultes, <u>The Economic Botany of the Kiowa Indians as it Relates to the History of the Tribe</u>, 50.

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