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A PRELIMINARY SURVEY
OF THE
WILD FLOWERING PLANTS OF KAY COUNTY

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OF THE
WILD FLOWERING PLANTS OF KAY COUNTY

BY

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PREFACE

A desire to know the wild plants of Kay County for personal satisfaction and as an aid in teaching botany has prompted the writer to select this subject.

Out of this desire has grown the beginning of a herbarium in the Blackwell High School, the first unit of which has been made and financed by the Science Club. In this herbarium is a specimen of each plant listed in this thesis with complete data as to habitat, location, and time of collection. A duplicate of each plant, with the same data is also in the Oklahoma A & M Herbarium.

Collections were made during the fall of 1944, spring, summer and fall of 1945, and spring of 1946. The nomenclature is that of the International Rules which are followed in Gray's New Manual (12), except in rare instances when the specimens were not listed in this manual. Plants were checked with The Oklahoma Flora (16) by Stemen and Myers. Other references used will be found listed in the bibliography.

Transportation difficulties, because of gas rationing, led to diversified means of reaching various regions over the county. Hikes by foot and bicycle sufficed for collecting specimens near Blackwell. It took the writer's son, Orville, and his friend Ray Vowel, two high school boys, with their 1926 model T Ford to solve the problem of distance.

The writer wishes to extend her very sincere thanks to Professor Robert Stratton for his kind consideration and critical reading of the content. Thanks are also due two students

PREFACE

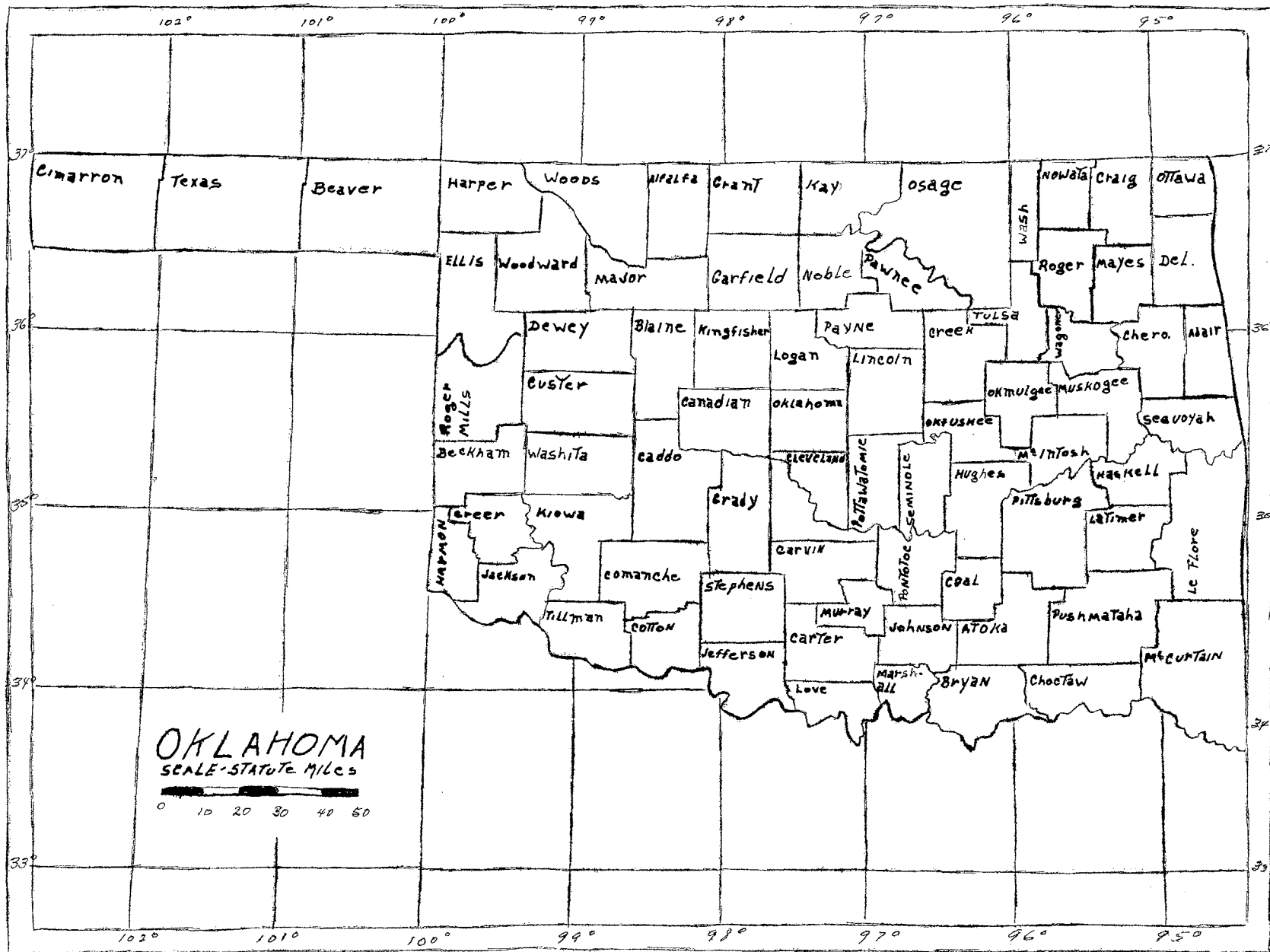
for their valuable help: Margaret Flickinger who accompanied the writer on bicycle excursions, and Bill Swearingen who displayed unusual interest in making the collection. Deepest appreciation goes to the writer's father and mother who taught her as a child to distinguish the common plants of the roadside. Many others have contributed and grateful acknowledgment is made to the immediate family for inspiration given to the task of identification and forbearance shown toward the equipment used in collecting and pressing the plant specimens in the home.

For convenience the plants have been arranged according to families in alphabetical order. Since the location of each plant is shown on the accompanying maps, it does not appear in the content.

The numbers on the maps correspond to the numbers of the plants as they appear below each map, and show the approximate location of the plants.

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INTRODUCTION

Kay County with an area of approximately 970 square miles, is located along the Kansas line, about the middle of the state. It is bounded on the east by Osage County, on the south by Noble County, and on the west by Grant County. Designated as "K" County with the opening of the Cherokee Strip on Sept. 16, 1893, it was changed to Kay in the general election of 1894, thereby making a name but not changing the pronunciation. The county seat has remained at Newkirk (elevation 1149 feet) although contested by Ponca City and Blackwell between the years 1897 and 1912.

Geologically, Kay County lies in the area of Permian rocks, but principally in the region where these rocks are not red. The geologic sections consist of alternating limestones and shales. Limestone is abundant in the eastern part of the county, but in the western part, the rocks are almost entirely blue and gray shales, grading into red in the south and southwest. Both limestone and shale are classified as sedimentary rocks. The Permian rocks of this area were deposited during the Carboniferous period of the Paleozoic era.

The Arkansas River flows southeast across the eastern townships in a deep and winding valley through the limestone hills. Beaver Creek crosses the eastern section, and the Salt Fork of the Arkansas flows east across the southern areas. It drains almost the entire county through the Bois d'Arc and Thompson Creeks. The Chickaskia River, with its tributaries Buck and Bitter Creeks, is the largest stream in

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the northwestern portion. Rainfall for the county averages about thirty-two inches annually.

Agriculture is the leading industry, with all staple crops except cotton. It is also noted as a stock raising section. The Zinc Smelter at Blackwell is one of the largest in Oklahoma. Blue shale at Blackwell is made into brick. Stone quarries east of Newkirk have supplied stones for buildings in Newkirk, Ponca City and the Chilocco Indian School. The old Administration building of the State University at Norman is made from this stone. Ponca City is known for its oil refineries. Kay County is the home of the once famous 101 Ranch.

Thomas Nuttall was probably the first botanist to visit what is now Oklahoma. He collected plants in the eastern section of the state in 1819. Although collections have been made from time to time by different botanists, the flora of the state is not sufficiently known to publish an exhaustive state flora. The largest list of Oklahoma plants was published in 1930. It is A Preliminary List Of The Ferns And Seed Plants Of Oklahoma (8) by R. E. Jeffs and Elbert L. Little, Jr. This publication lists 1944 species with their scientific and common names, but does not describe them. The manuscript of the late Dr. G. W. Stevens, formerly professor at the Northwestern State Teacher's College, contains a list of over 1600 pteridophytes and spermatophytes together with a list of over 200 other species which were thought to occur

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in the state but which had not been found there. This manuscript was completed in 1916 but was never published. The latest publication is that of Stemen and Myers, Oklahoma Flora, (16), published in 1937. It lists 1626 species. Of the seventy-seven counties in the state, few attempts have been made to survey the flora of individual counties. Among the counties that have been surveyed are Kiowa, Greer, Comanche, Payne, and Muskogee.

The practical value of this paper to a biology teacher is very obvious. The collecting of plants in the field takes the individual organism as a point of departure. A biology class on a field trip learns not only to see things in their natural settings but soon becomes interested in the relation of the plants to other subjects.

The boy or girl interested in agriculture soon sees possibilities in that field. Ecology is the study of the organism in its environment, its relation to the world about it, and the features which enable it to function in its surroundings. The student planning to study medicine or pharmacy begins to see that a knowledge of plants will be necessary to a person interested in that profession. The potential veterinary doctor comes in for his share of knowing the plants that will affect the animals that come under his care. Many others need a basic knowledge of plants to carry on their work. Included in this list is the agronomist, the horticulturist, the landscape gardner, the floriculturist, the plant

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pathologist, and the plant physiologist. Thus the work of a taxonomist is essential to the above mentioned fields as well as a biology teacher.

A good observer sees many things that a casual passerby does not notice. Observation is more than seeing; it means seeing and interpreting. The individual whose eyes are opened to see the many unnoticed life forms about him, has been given a broadening of intellectual outlook, an expansion of sympathy, and a fuller life.

True, the study of biology is not all plants. A plant collected and the flower parts dissected and studied gives an opportunity to teach reproduction not only in plants but also in animals. The reproductive process of animals is very closely comparable to that of plants. It also affords a new and direct approach to the study of heredity.

Any student knows that there is much variation among persons as to skin, eye and hair color, weight, facial features, and so on. Plants of the same species may also vary greatly in the color of the flowers and leaves, height, seed production, and in many other ways. Specimens from the herbarium may be studied at any time and features noticed that help explain heredity and the relation of heredity to environment. This relationship is of great interest to the normal student and a few plants lend more actual knowledge to the situation than any long textbook discussion of the same.

From the viewpoint of visual education, what can be more

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effective and more available to classroom teachers than the well planned field trip? In collecting and preparing plants for the herbarium, students come to realize that learning is fun. They look at the mounted specimens and feel that they have had a part in making a project to be used by students, who like them had to learn that life is what you make it, and a little natural guidance helps to bring about a decided change in their view of that life.

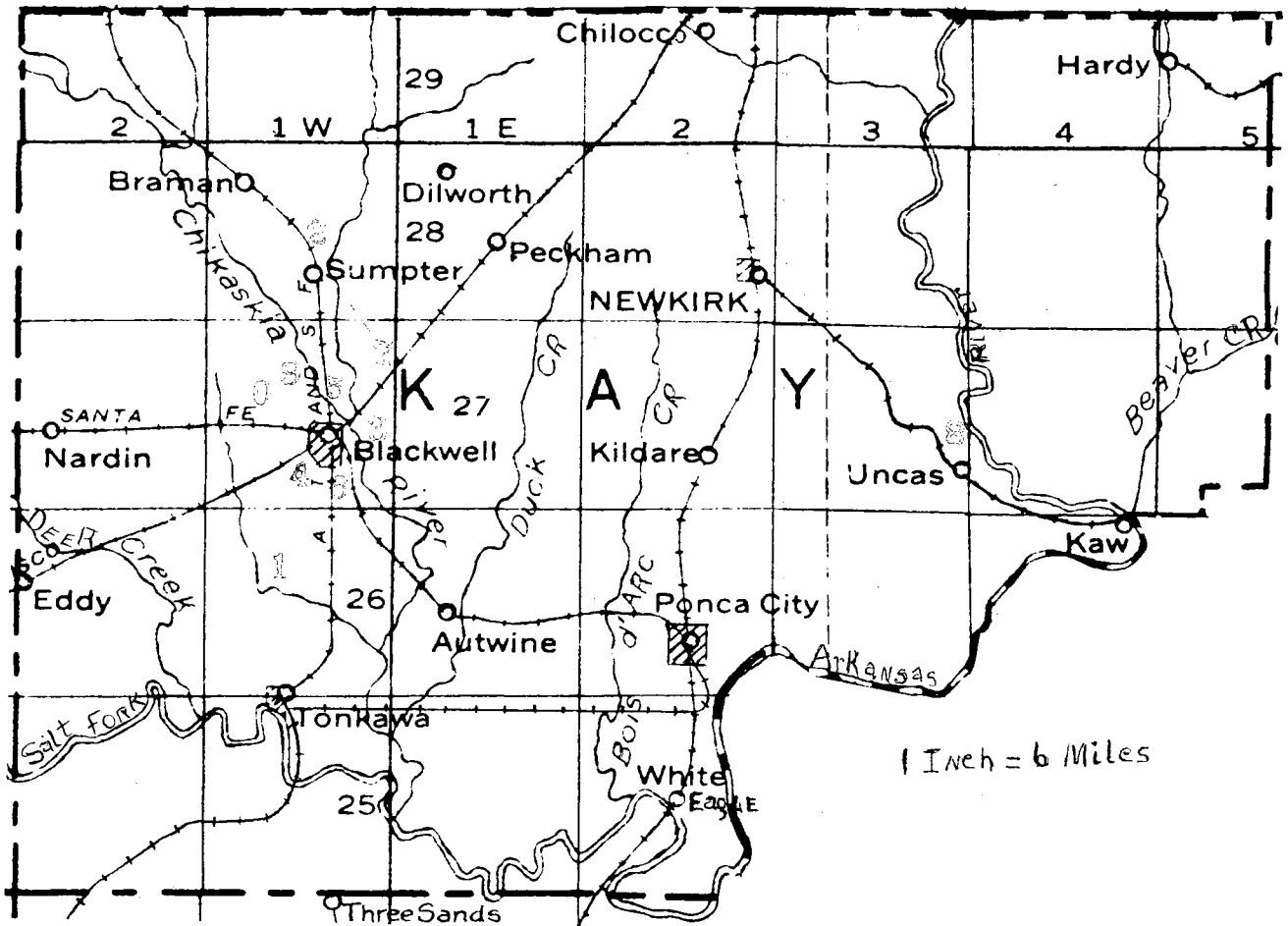
Because a school term of nine months begins in the fall when most plants have reached their maturity, collecting must be done in the spring and early fall. If well mounted and preserved these plants are available material for study at any season. The whole realm of living things has been expanded beyond the limits of reading by a concrete experience which must precede an orderly and progressive development of abstract concepts.

To see boys and girls grow richer in their experience with plant life, has been an inspiration that cannot be told in words. If one student has been led to a better understanding of life, then this paper has been worth the time and effort used to make it acceptable. Culture, in this modern world, necessarily includes a basic knowledge of plants. We have everything to gain and nothing to lose by knowing them well.

WILD FLOWERING PLANTS OF KAY COUNTY

- ACANTHACEAE Dicliptera brachiata (Pursh.) Spreng.
Diapedium
Sandy roadside, Oct. 15, 1944
- Ruellia ciliosa Pursh.
Hairy Ruellia
Sandy loam soil, Aug. 18, 1944
- ACERACEAE Acer negundo L.
Box Elder
Loam soil, Apr. 1, 1945
- Acer saccharinum L.
Silver Maple
Loam soil, June 30, 1945
- ALIZOACEAE Mollugo verticillata L.
Carpet Weed
Sandy loam soil, Aug. 30, 1944
- ALISMACEAE Sagittaria latifolia Willd.
Broad-leaved Arrow-head
Shallow water, Sept. 3, 1944
- AMARANTHACEAE Amaranthus retroflexus L.
Light Green Pig-weed
Sandy loam soil, Aug. 15, 1944
- Froelichia gracilis Moq.
Slender Froelichia
Sandy clay soil, Sept. 10, 1944
- Iresine paniculata (L.) Ktz.
Blood-leaf
Sandy loam soil, Aug. 2, 1945
- ANACARDIACEAE Rhus glabra L.
Smooth Sumac
Sandy clay soil, June 29, 1945

KAY COUNTY



0. *Dicliptera brachiata*
1. *Ruellia ciliosa*
2. *Acer negundo*
3. *Acer saccharinum*
4. *Mollugo verticillata*
5. *Sagittaria latifolia*
6. *Amaranthus retroflexus*
7. *Proelichia gracilis*
8. *Iresine paniculata*
9. *Rhus glabra*

WILD FLOWERING PLANTS OF KAY COUNTY

ANONACEAE

Asimina triloba (L.) Dunal.
North American Pawpaw
Loam soil, May 15, 1946

APOCYNACEAE

Apocynum cannabinum L. var.
pubescens (R. Br.) DC.
Velvet Dogbane
Sandy clay soil, June 29, 1945

ASCLEPIADACEAE

Asclepias tuberosa L.
Orange Milkweed
Sandy gravelly soil, Aug. 3, 1945

Asclepias speciosa Torr.
Showy Milkweed
Gravelly sandy soil, June 29, 1945

Asclepias verticillata L.
Whorled Milkweed
Rocky limestone soil, Aug. 3, 1945

Acerates viridiflora Ell.
Green Milkweed
Sandy clay soil, June 11, 1945

Asclepiodora viridis (Walt.) A. Gray
Oblong-leaved Milkweed
Sandy clay soil, May 8, 1945

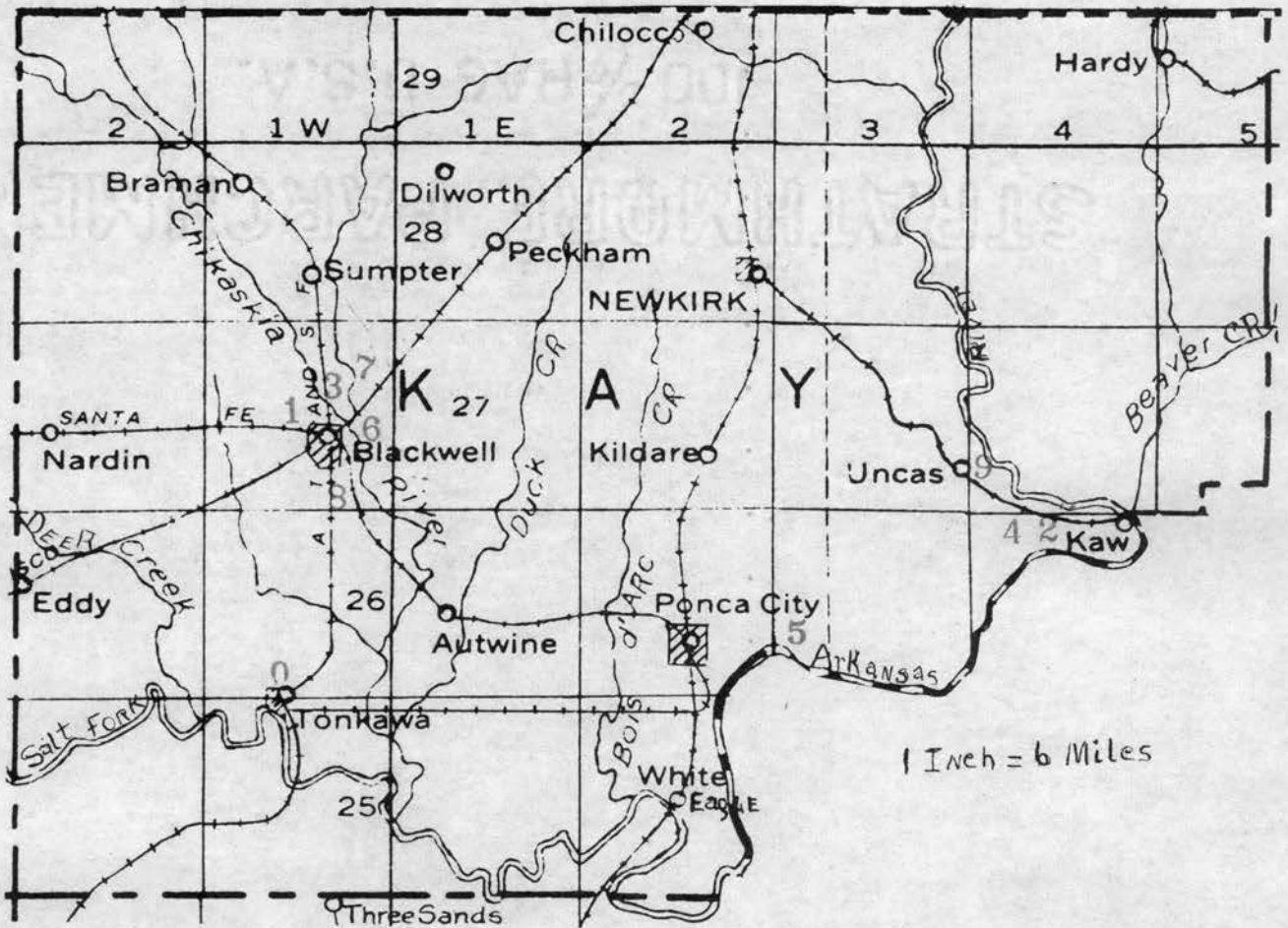
Gonolobis laevis Michx.
Sand Vine
Sandy loam soil, Aug. 20, 1944

BIGNONIACEAE

Catalpa speciosa Warder.
Western Catalpa
Sandy loam soil, June 29, 1945

Tecoma radicans (L.) Juss.
Trumpet Creeper
Woods along river, Aug. 2, 1945

KAY COUNTY



0. *Asimina triloba*
1. *Apocynum cannabinum*
2. *Asclepias tuberosa*
3. *Asclepias speciosa*
4. *Asclepias verticillata*
5. *Acerates viridiflora*
6. *Asclepiodora viridis*
7. *Gonolobis laevis*
8. *Catalpa speciosa*
9. *Tecoma radicans*

WILD FLOWERING PLANTS OF KAY COUNTY

BORAGINACEAE

Heliotropium tenellum (Nutt.) Torr.
Slender Heliotrope
Sandy clay soil, Apr. 29, 1945

Lappula Hedowskii (Hornem.) Greene var.
occidentalis (Wats.)
Hairy stickweed
Sandy soil, Apr. 1, 1945

Lithospermum angustifolium Michx.
Narrow-leaved Puccoon
Sandy clay soil, Apr. 2, 1945

CAMPANULACEAE

Specularia biflora (R. & P.) F. & M.
Small Venus Looking Glass
Grassy lawn, May 15, 1946

Specularia perfoliata (L.) A.D.C.
Venus's Looking Glass
Sandy clay soil, May 21, 1945

CAPRIFOLIACEAE

Symphoricarpus orbiculatus Moench.
Buck-brush
Sandy soil, Sept. 24, 1944

CAPPARADACEAE

Polanisia trachysperma T. & G.
Large-flowered Clammy Weed
Very sandy soil, Aug. 15, 1945

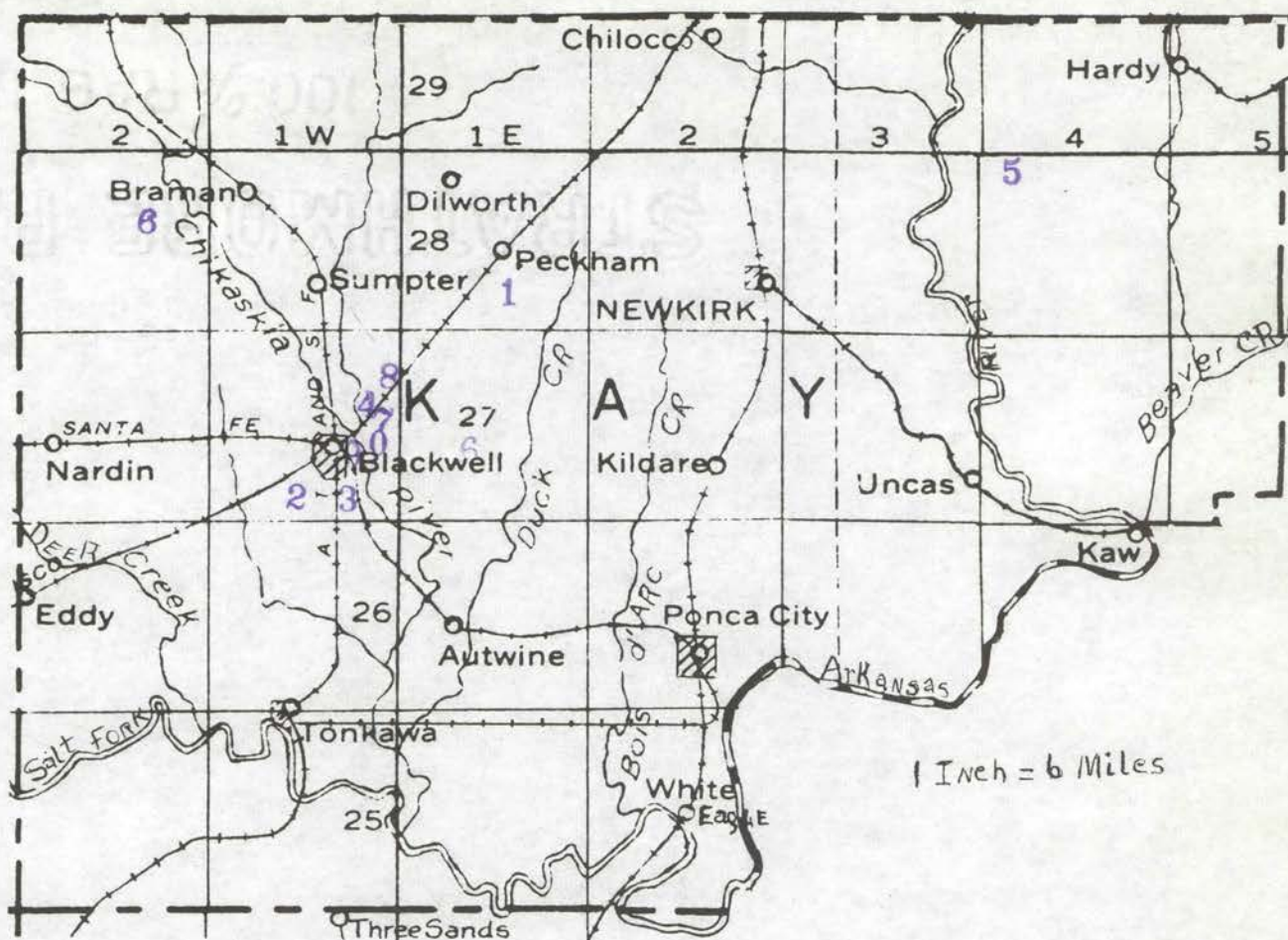
CAROPHYLLACEAE

Cerastium brachypodium (Engelm.)
Robinson
Short-stalked Chickweed
Sandy clay soil, March 18, 1945

Saponaria officinalis L.
Bouncing Bet
Gravelly soil, June 30, 1945

Stellaria media L.
Common Chickweed
Sandy loam soil, Feb. 14, 1945

KAY COUNTY



0. *Heliotropium tenellum*
1. *Lappula Redowskii*
2. *Lithospermum angustifolium*
3. *Specularia biflora*
4. *Specularia perfoliata*
5. *Symphoricarpus orbiculatus*
6. *Polanisia trachysperma*
7. *Cerastium brachypodium*
8. *Saponaria officinalis*
9. *Stellaria media*

WILD FLOWERING PLANTS OF KAY COUNTY

CELASTRACEAE

Evonymus atropurpureus Jacq.
Wahoo
Sandy moist soil, Oct. 1, 1944

CERATOPHYLLACEAE

Nelumbo lutea (Wild.) Pers.
American Lotus
In pond, June 30, 1945

CHENOPODIACEAE

Chenopodium album L.
Lamb's Quarters
Sandy loam soil, Sept. 15, 1944

Chenopodium hybridum L.
Maple-leaved Goosefoot
Sandy gravelly soil, Sept. 10, 1944

Cycloloma atriplicifolium (Spreng.)
Coulter.
Sand Tumble-weed
Sandy roadside, Sept. 20, 1945

Monolepsis Nuttalliana (R. & S.)
Wats. Dumort.
Poverty Weed
Alkaline soil, May 3, 1945

Salsola Kali L. var. tenuifolia
C.F.W. Mey.
Russian Thistle
Sandy clay soil, Oct. 8, 1944

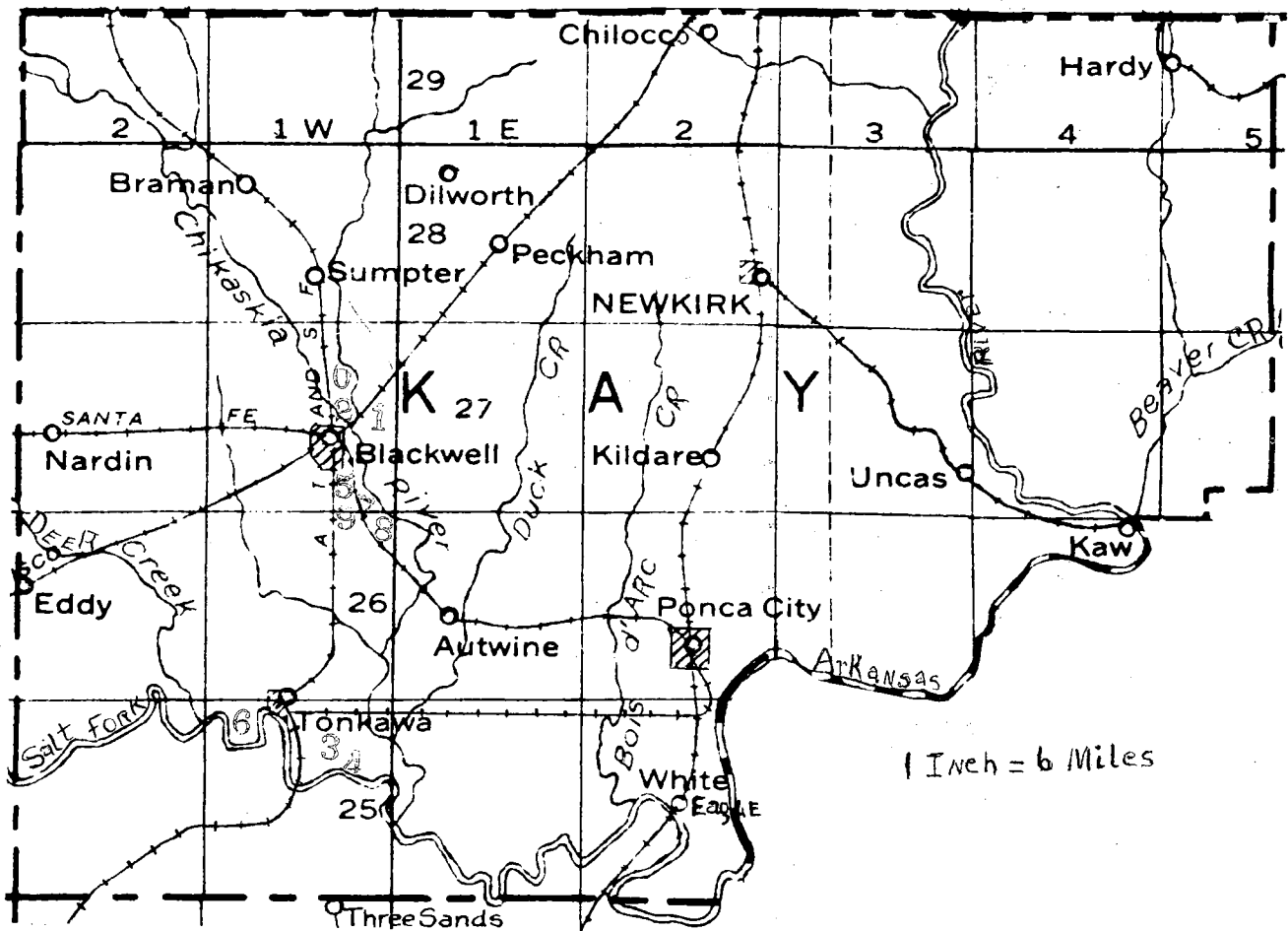
COMNELINACEAE

Comzelina nudiflora L.
Creeping Day-flower
Moist clay soil, June 29, 1945

Tradescantia hirsutiflora Pursh.
Pilose Spiderwort
Sandy gravelly soil, Apr. 29, 1945

Tradescantia occidentalis (Britton)
Smyth.
Western Spiderwort
Sandy gravelly soil, Apr. 29, 1945

KAY COUNTY



0. *Evonymus atropurpureus*
1. *Nelumbo lutea*
2. *Chenopodium album*
3. *Chenopodium hybridum*
4. *Cycloloma atriplicifolium*
5. *Monolepsis Nuttalliana*
6. *Salsola Kali*
var. Russian Thistle
7. *Commelina nudiflora*
8. *Tradescantia hirsutiflora*
9. *Tradescantia occidentalis*

WILD FLOWERING PLANTS OF KAY COUNTY

COMPOSITAE

Achillea lanulosa Nutt.
Woolly Yarrow
Sandy loam soil, May 25, 1945

Actinomeris alternifolia (L.) DC.
Wing-stem
Sandy loam soil, Sept. 17, 1944

Amphiachyris dracunculoides (DC.) Nutt.
Broomweed
Sandy loam soil, Sept. 10, 1944

Artemisia mexicana Willd.
Mexican Sage-brush
Sandy loam soil, Sept. 12, 1944

Aster ericoides L.
Dense-flowered Aster
Sandy loam soil, Oct. 1, 1944

Aster exilis Ell.
Slim Aster
Sandy gravelly soil, Sept. 15, 1944

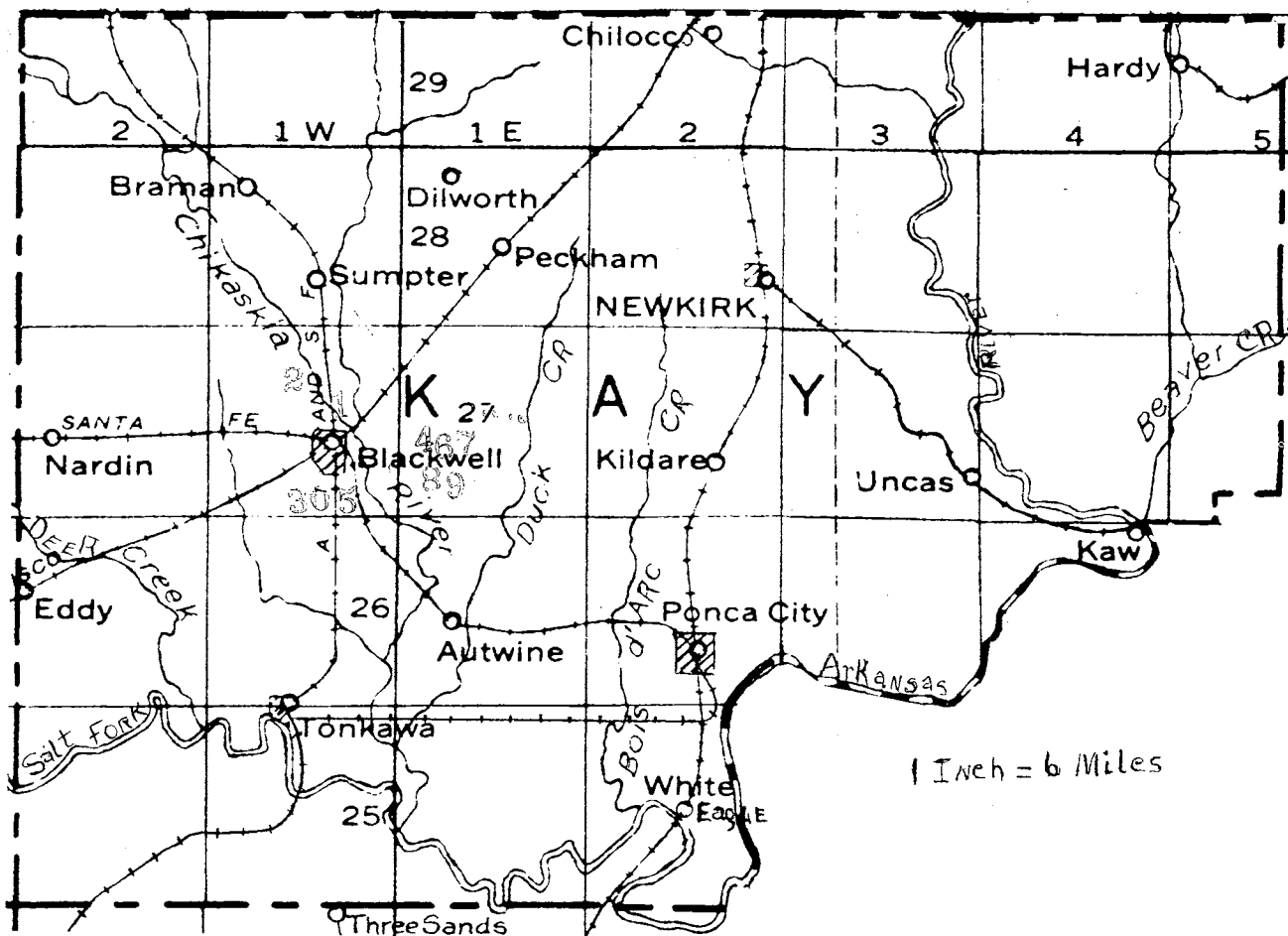
Aster oblongifolius Nutt.
Aromatic Aster
Sandy loam soil, Oct. 1, 1944

Aster praealtus Poir.
Prairie Aster
Sandy roadside, Oct. 1, 1944

Aster salicifolius Ait.
Willow Aster
Sandy loam soil, Oct. 1, 1944

Aster sericeus Vent.
Western Silvery Aster
Sandy dry soil, Oct. 1, 1944

KAY COUNTY



0. *Achillea lanulosa*
1. *Actinomeris alternifolia*
2. *Amphiachyris dracunculoides*
3. *Artemisia mexicana*
4. *Aster ericoides*
5. *Aster exilis*
6. *Aster oblongifolius*
7. *Aster praealtus*
8. *Aster salicifolius*
9. *Aster sericeus*

WILD FLOWERING PLANTS OF KAY COUNTY

COMPOSITAE

Bellis integrifolia Michx.
Western Daisy
Sandy clay soil, Apr. 29, 1945

Bidens frondosa L.
Beggar-ticks
Edge of pond, Aug. 2, 1945

Brauneria angustifolia (DC.) Heller.
Narrow-leaved Purple Cone-flower
Sandy loam soil, Sept. 10, 1944

Cirsium altissimum (L.) Spreng.
Tall Thistle
Sandy loam soil, Sept. 10, 1944

Coreopsis grandiflora Hogg.
Large-flowered Coreopsis
Red clay soil, June 5, 1945

Coreopsis tinctoria Nutt.
Golden Coreopsis
Sandy soil, June 29, 1945

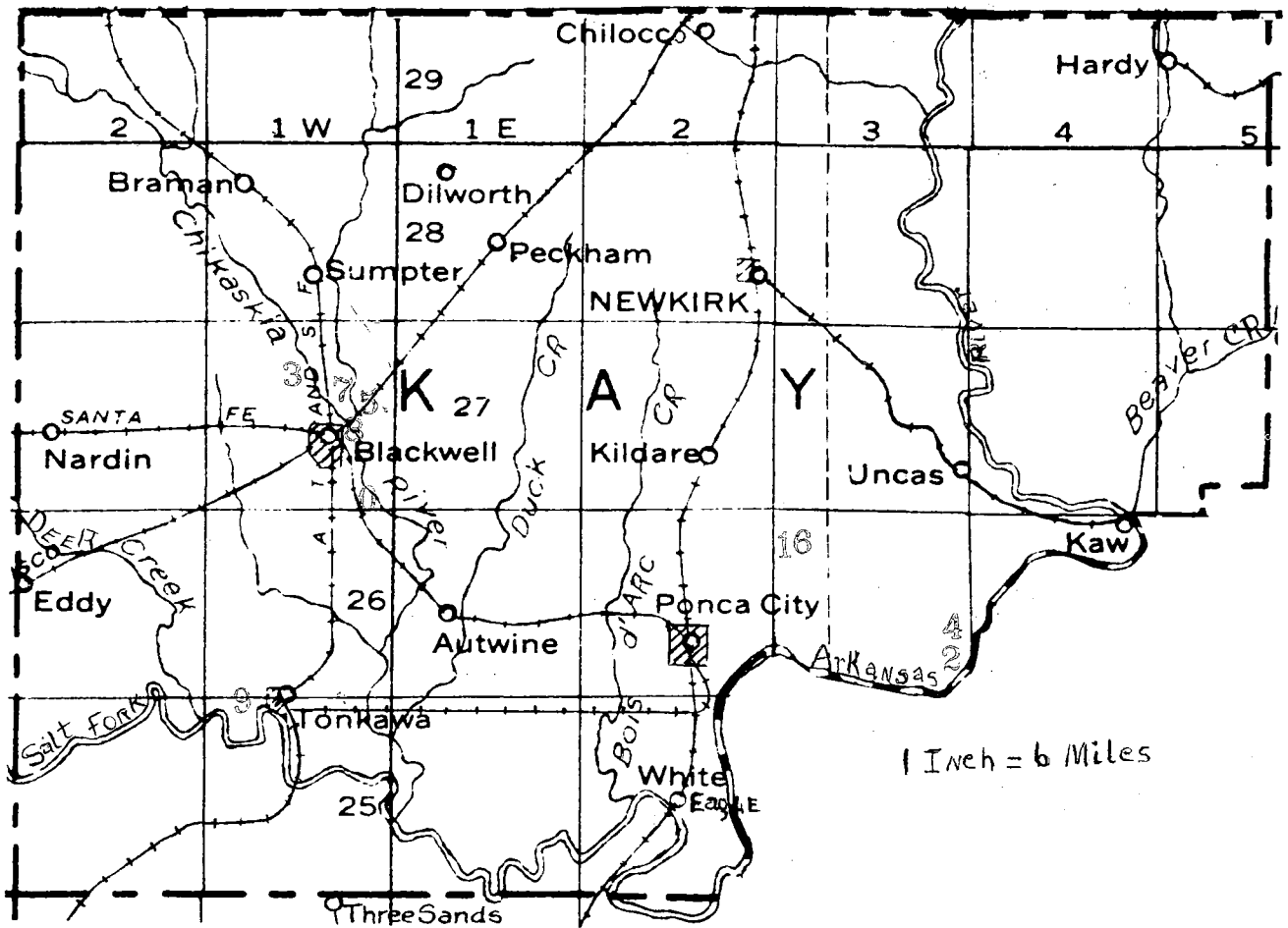
Eclipta alba (L.) Hassk.
Yerba De Tago
Edge of pond, Aug. 2, 1945

Erigeron canadensis L.
Horseweed
Sandy loam soil, Aug. 20, 1944

Erigeron ramosus (Walt.) B.S.P.
Daisy Fleabane
Sandy loam soil, May 10, 1945

Eriogonum annuum Nutt.
Annual Gray Weed
Sandy river soil, Oct. 3, 1944

KAY COUNTY



0. *Bellis integrifolia*
1. *Bidens frondosa*
2. *Brauneria angustifolia*
3. *Cirsium altissimum*
4. *Coreopsis grandiflora*
5. *Coreopsis tinctoria*
6. *Eclipta alba*
7. *Erigeron canadensis*
8. *Erigeron ramosus*
9. *Eriogonum annuum*

WILD FLOWERING PLANTS OF KAY COUNTY

COMPOSITAE

Eupatorium semiserratum DC.
Small-flowered Thoroughwort
Moist poor soil, Sept. 15, 1945

Eupatorium serotinum Michx.
Late-flowering Thoroughwort
Sandy clay soil, Sept. 3, 1944

Evax multicaulis Nutt.
Rabbit Tobacco
Dry prairie, Apr. 10, 1946

Franseria tenuifolia Harv. & Gray.
Franseria
Sandy clay soil, Sept. 15, 1944

Gaillardia trinervata Small.
Rayless Gaillardia
Sandy loam soil, May 23, 1945

Gnaphalium purpureum L.
Purplish Cudweed
Sandy Loam soil, Apr. 1, 1945

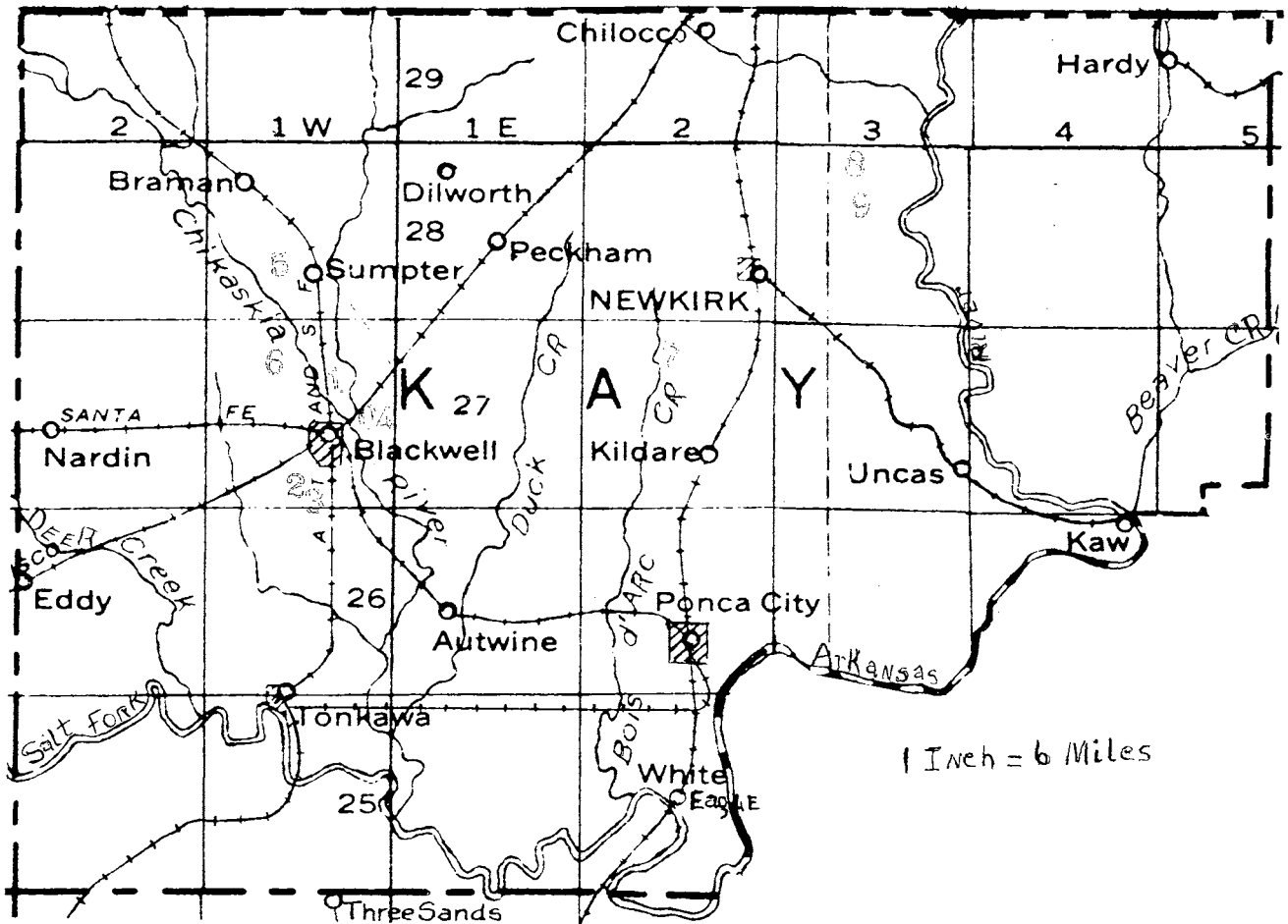
Helianthus annuus L.
Common Sunflower
Sandy loam soil, Sept. 10, 1944

Helianthus grosseserratus Martens.
Saw-toothed Sunflower
Sandy soil, Sept. 16, 1945

Helianthus orgyalis DC.
Linear-leaved Sunflower
Sandy roadside, Aug. 2, 1945

Helianthus scaberrimus Ell.
Stiff Sunflower
Sandy soil, Aug. 2, 1945

KAY COUNTY



0. *Eupatorium semiserratum*
1. *Eupatorium serotinum*
2. *Evax multicaulis*
3. *Franseria tenuifolia*
4. *Gaillardia trinervata*
5. *Gnaphalium purpureum*
6. *Helianthus annuus*
7. *Helianthus grosseserratus*
8. *Helianthus orgyalis*
9. *Helianthus scaberrimus*

WILD FLOWERING PLANTS OF KAY COUNTY

COMPOSITAE

Helianthus tuberosus L.
 Jerusalem Artichoke
 Sandy moist loam, Sept. 10, 1944

Heterotheca subaxillaris (LAM.)
 Britt. & Rusby.
 Heterotheca
 Sandy clay soil, Sept. 20, 1945

Iva ciliata Willd.
 Rough Marsh Elder
 Moist sandy loam soil, Sept. 15, 1944

Kuhnia glutinosa Ell.
 Prairie False Bonesett
 Sandy clay soil, Sept. 18, 1944

Lactuca scariola L.
 Prickly Lettuce
 Sandy clay soil, Aug. 10, 1945

Lepachys columnaris (Sims.)
 Long-headed Cone-Flower
 Sandy roadside, Aug. 2, 1945

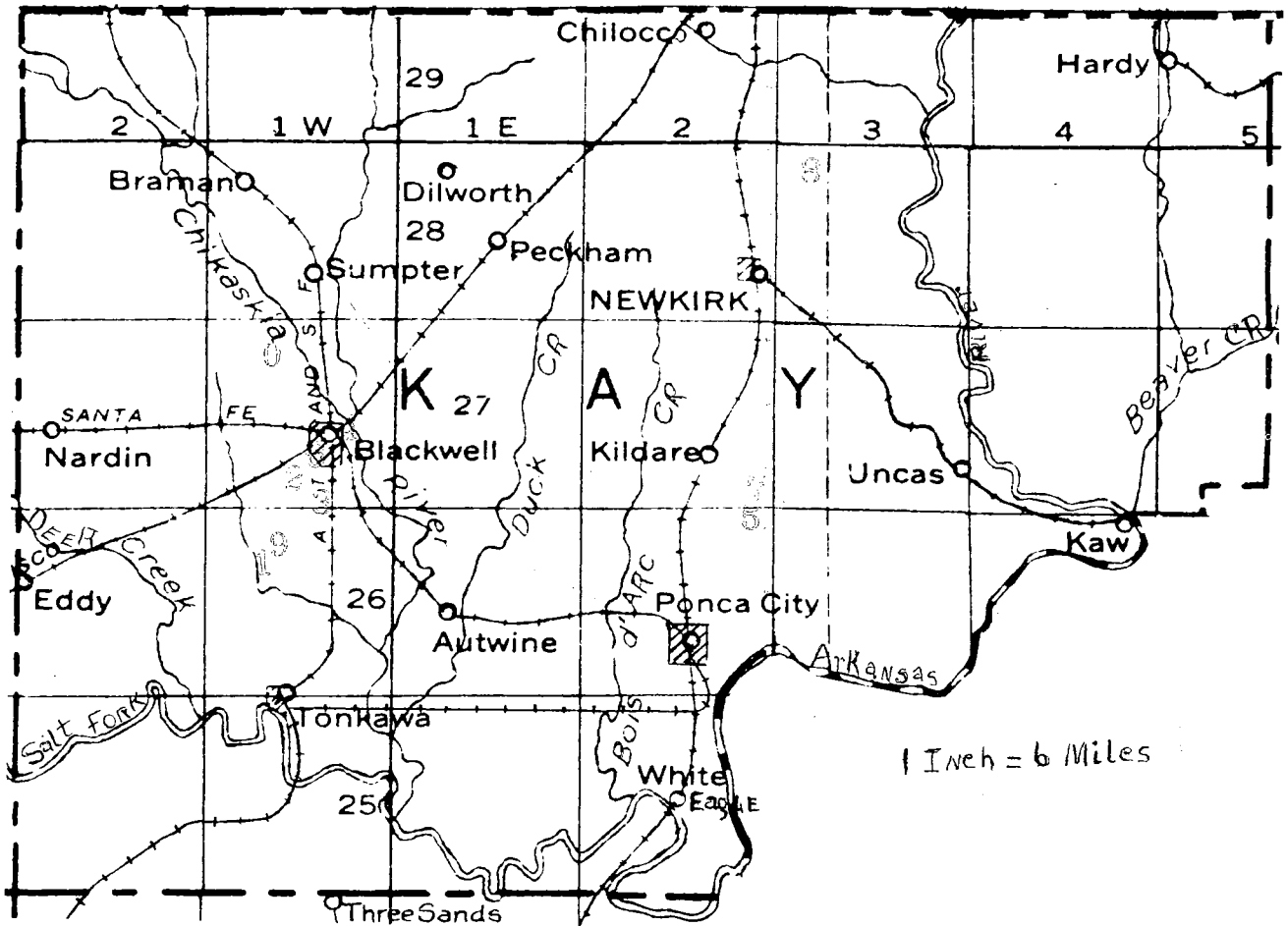
Liatris punctata Hook.
 Dotted Button Snakeroot
 Sandy clay soil, Sept. 18, 1944

Liatris scariosa Willd.
 Large Button Snakeroot
 Sandy roadside, Aug. 2, 1945

Liatris squarrosa Willd.
 Scaly Blazing Star
 Sandy roadside, Aug. 2, 1945

Prinopsis ciliata Nutt.
 Rosin-weed
 Sandy loam soil, Aug. 18, 1944

KAY COUNTY



0. *Helianthus tuberosus*
1. *Heterotheca subaxillaris*
2. *Iva ciliata*
3. *Kuhnia glutinosa*
4. *Lactuca scariola*
5. *Lepachys columnaris*
6. *Liatris punctata*
7. *Liatris scariosa*
8. *Liatris squarrosa*
9. *Prinosia ciliata*

WILD FLOWERING PLANTS OF KAY COUNTY

COMPOSITAE

Pyrrhopappus scaposus DC.
Rough False Dandelion
Sandy clay soil, Apr. 29, 1945

Rudbeckia amplexicaulis Vahl.
Clasping-leaved Cone-flower
Sandy clay soil, June 11, 1945

Rudbeckia hirta (L.)
Black-eyed Susan
Sandy roadside, Aug. 2, 1945

Silphium laciniatum L.
Compass-plant
Roadside, June 30, 1945

Solidago glaberrima Martens.
Missouri Golden-rod
Sandy loam soil, Aug. 18, 1944

Solidago rigida L.
Western Rough Golden-rod
Pasture, Sept. 16, 1945

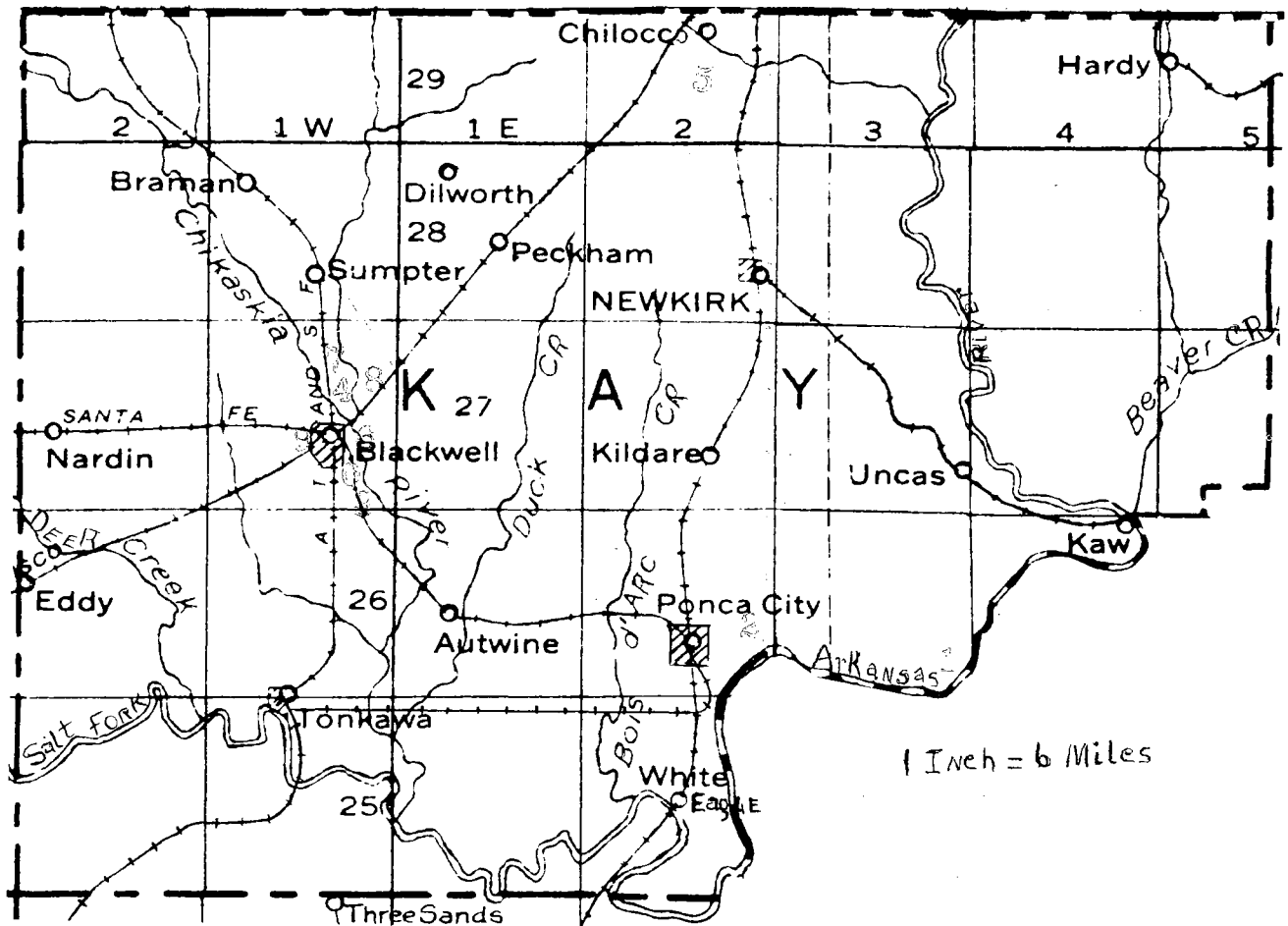
Sonchus asper (L.) Hill.
Spiny Sow-thistle
Sandy clay soil, Apr. 29, 1945

Taraxacum officinale Weber.
Common Dandelion
Sandy clay soil, March 18, 1945

Tragopogon porrifolius L.
Oyster Plant
Gravelly soil, June 29, 1945

Tragopogon pratensis L.
Goat's Beard
Sandy clay soil, May 11, 1946

KAY COUNTY



0. *Pyrrhopappus scaposus*
1. *Rudbeckia amplexicaulis*
2. *Rudbeckia hirta*
3. *Silphium laciniatum*
4. *Solidago glaberrima*
5. *Solidago rigida*
6. *Sonchus asper*
7. *Taraxacum officinale*
8. *Tragopogon porrifolius*
9. *Tragopogon pratensis*

WILD FLOWERING PLANTS OF KAY COUNTY

COMPOSITAE

Veronia Baldwini Torr.
Baldwin's Iron Weed
Sandy loam soil, Aug. 18, 1944

Xanthium commune Britton.
Cocklebur
Sandy roadside, Sept. 20, 1945

CONVOLVULACEAE

Convolvulus arvensis L.
Small Bindweed
Sandy loam soil, May 21, 1945

Convolvulus sepium L.
Great Bindweed
Sandy loam soil, May 10, 1945

Ipomoea coccinea L.
Small Red Morning Glory
River Bank, Sept. 10, 1944

Ipomoea lacunosa L.
Small-flowered White Morning Glory
Sandy loam soil, Sept. 24, 1944

CORACEAE

Cornus asperifolia Michx.
Rough-leaved Dogwood
Sandy loam soil, Sept. 10, 1944

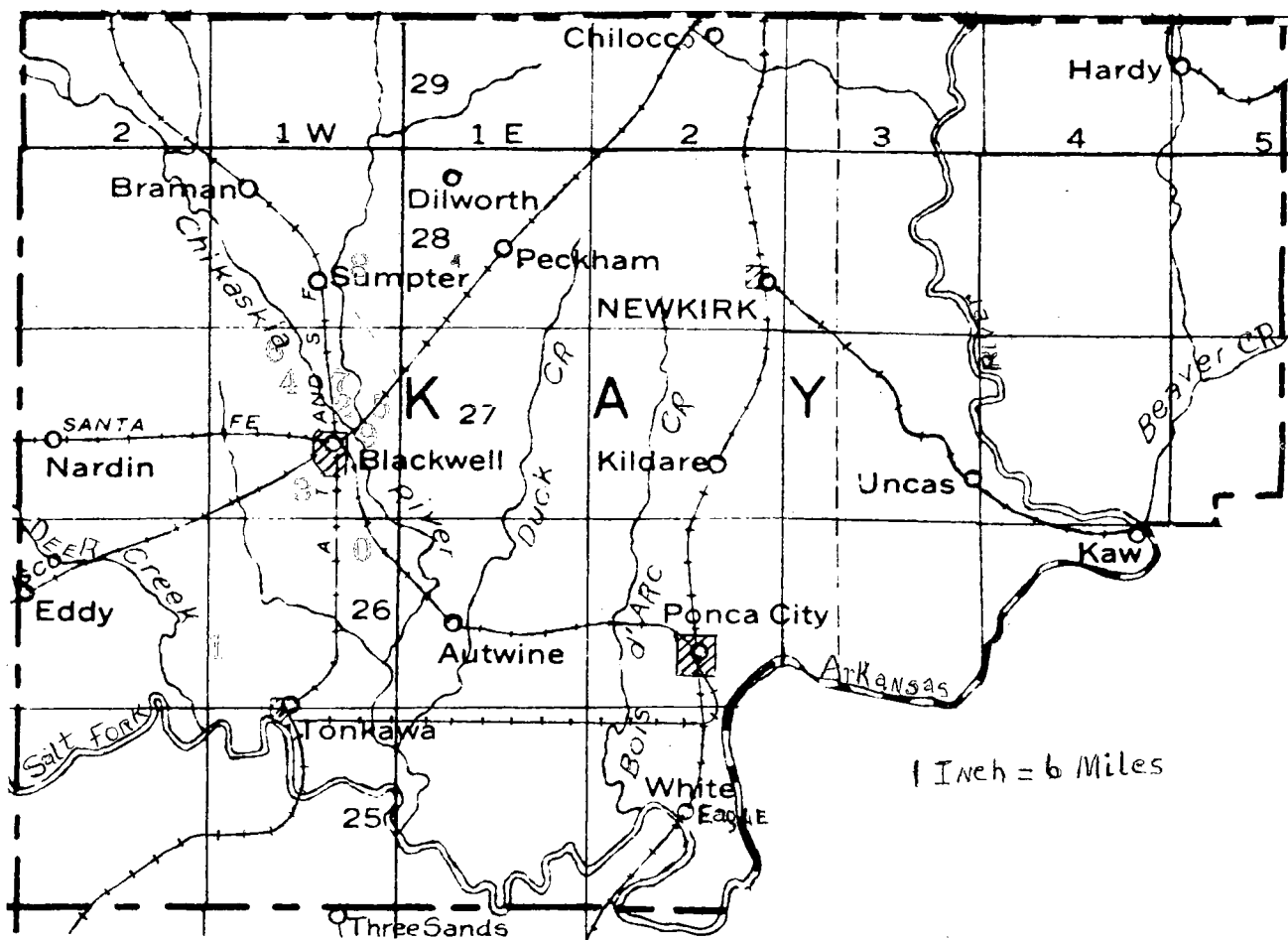
CRUCIFERAE

Capsella Bursa-pastoris (L.) Medic.
Shepherd's Purse
Sandy clay soil, March 18, 1945

Draba caroliniana Walt.
Carolina Whitlow-grass
Sandy clay soil, March 25, 1945

Erysimum repandum L.
Repand Treacle Mustard
Sandy clay soil, Apr. 21, 1945

KAY COUNTY



0. *Veronia Baldwini*
1. *Xanthium commune*
2. *Convolvulus arvensis*
3. *Convolvulus sepium*
4. *Ipomoea coccinea*
5. *Ipomoea lacunosa*
6. *Cornus asperifolia*
7. *Capsella Bursa-pastoris*
8. *Draba caroliniana*
9. *Erysimum repandum*

WILD FLOWERING PLANTS OF KAY COUNTY

CRUCIFERAE

Lepidium oblongum Small.
Pepper Grass
Sandy clay soil, Apr. 1, 1945

Lesquerella auriculata (Engelm. & Gray.)
S. Wats.
Hairy Bladder-pod
Sandy clay soil, Apr. 1, 1945

Radicula Nasturtium-aquaticum (L.)
Britten & Rendle
True Water-cress
Spring water, Aug. 3, 1946

Radicula palustris (L.)
Marsh Water-cress
Sandy river soil, Aug. 3, 1945

Radicula sinuata (Nutt.) Greene.
Spreading Yellow Water-cress
Sandy soil, June 30, 1945

Sisymbrium canescens Nutt.
Tansy Mustard
Sandy clay soil, Apr. 1, 1945

CUCURBITACEAE

Cucurbita foetidissima H.B.K.
Missouri Gourd
Sandy soil, June 30, 1945

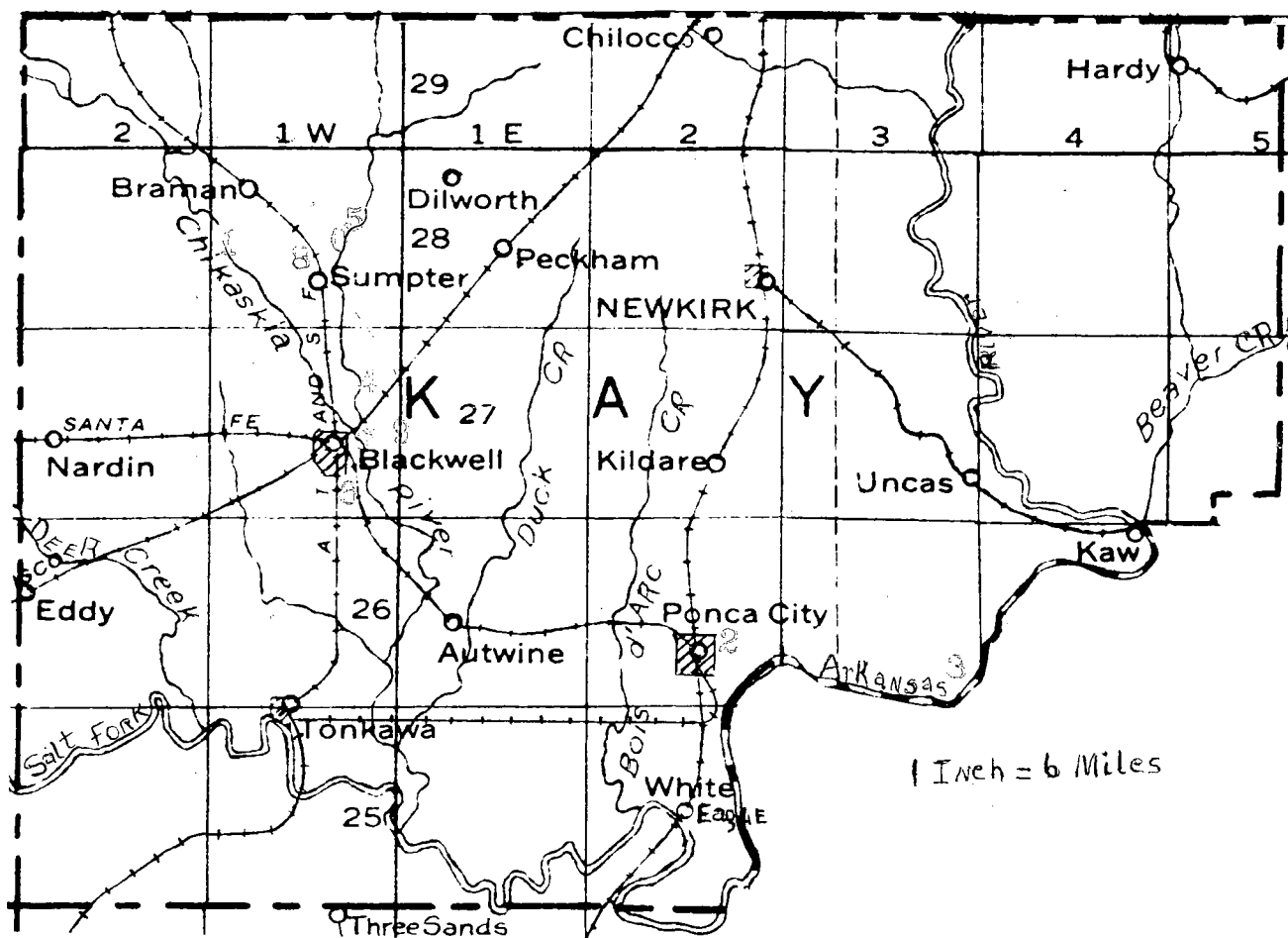
CYPERACEAE

Carex amphibola Steud., var.
turgida Fernald.
Narrow-leaved Sedge
Dry sandy soil, Apr. 19, 1946

Carex Leavenworthii Dewey
Leavenworth's Sedge
Sandy loam meadow, Apr. 1, 1945

Carex muhlenbergii var. australis Olney.
Southern Sedge
Sandy loam soil, May 23, 1945

KAY COUNTY



0. *Lepidium oblongum*
1. *Lesquerella auriculata*
2. *Radicula nasturtium-aquaticum*
3. *Radicula palustris*
4. *Radicula sinuata*
5. *Sisymbrium canescens*
6. *Cucurbita foetidissima*
7. *Carex amphibola*
var. *turgida*
8. *Carex Leavenworthii*
9. *Carex muhlenbergii*
var. *australis*

WILD FLOWERING PLANTS OF KAY COUNTY

CYPERACEAE

Cyperus esculentus L.
Yellow Nut-grass
In water, Sept. 15, 1944

Scirpus americanus Pers.
Three-cornered Bulrush
Wet ground, June 29, 1945

EBENACEAE

Diospyros virginiana L.
Persimmon
Woods, June 30, 1945

EUPHORBIACEAE

Acalpha ostryaefolia Ridd.
Three-seeded Mercury
Sandy loam soil, Aug. 20, 1944

Croton glandulosa L.
Glandular Croton
Sandy loam soil, Sept. 10, 1944

Croton texensis (Klotzsch.) Muell. Arg.
Texas Croton-weed
Sandy loam soil, Sept. 24, 1944

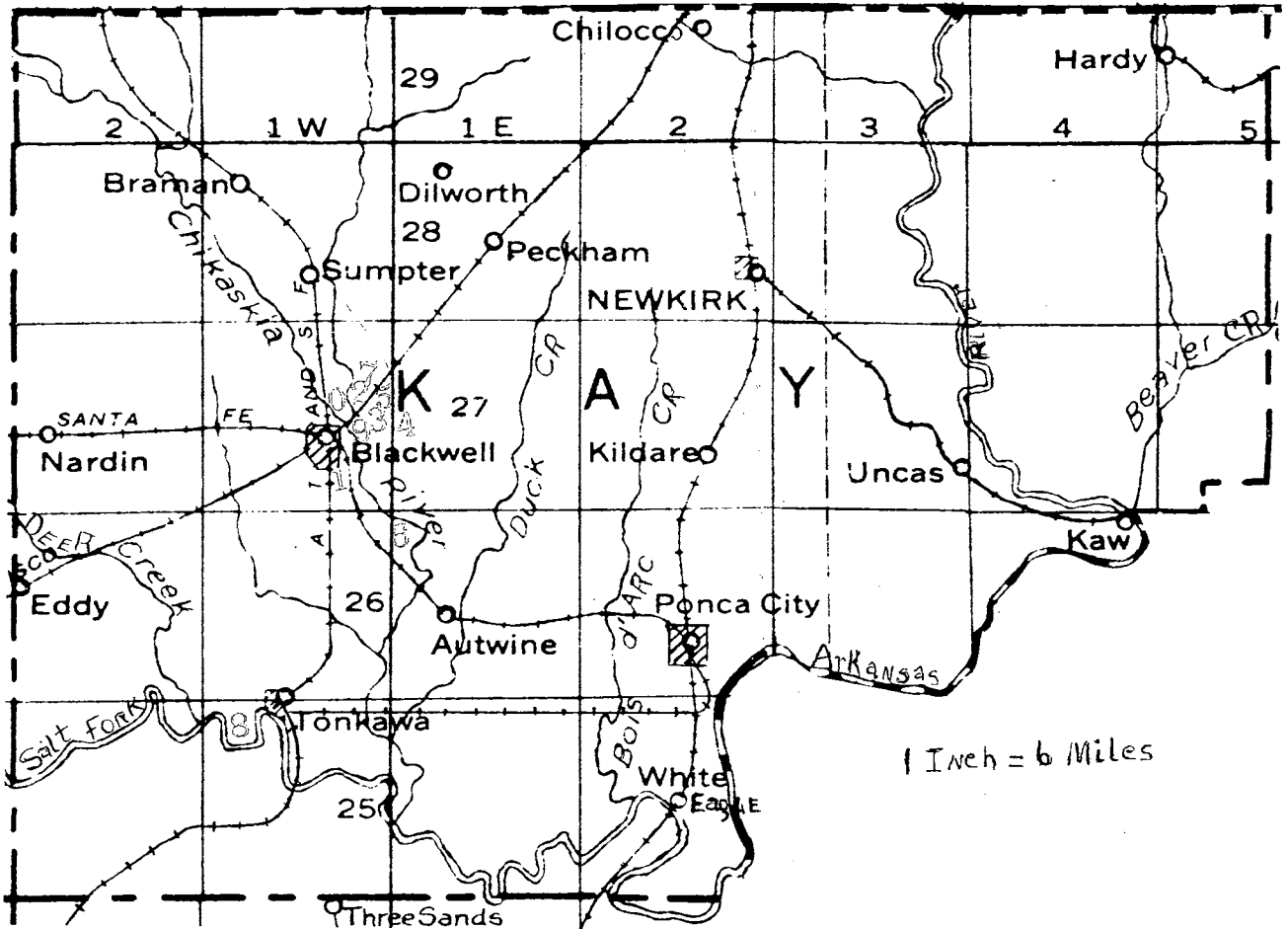
Euphorbia corollata L.
Flowering Spurge
Sandy loam soil, Aug. 18, 1944

Euphorbia dentata Michx.
Toothed Spurge
Sandy clay soil, Sept. 1, 1944

Euphorbia hexagona Nutt.
Angled Spurge
Sandy clay soil, Oct. 8, 1944

Euphorbia humistrata Engelm.
Hairy Spreading Spurge
In crack of concrete, Aug. 15, 1944

KAY COUNTY



0. *Cyperus esculentus*
1. *Scirpus americanus*
2. *Diospyros virginiana*
3. *Acalpha ostryaefolia*
4. *Croton glandulosa*
5. *Croton texensis*
6. *Euphorbia corollata*
7. *Euphorbia dentata*
8. *Euphorbia hexagona*
9. *Euphorbia humistrata*

WILD FLOWERING PLANTS OF KAY COUNTY

EUPHORBACEAE

Euphorbia marginata Pursh.
Snow-on-the-mountain
Sandy clay soil, Sept. 1, 1944

Euphorbia Preslii Guss.
Upright Spotted Spurge
Sandy loam soil, Sept. 15, 1944

FAGACEAE

Quercus macrocarpa Michx.
Mossy-cup or Bur Oak
Rich soil, Apr. 13, 1946

Quercus Schneckii Britton
Schneck's Oak
Loam soil, May 15, 1946

FUMARIACEAE

Corydalis campestris Britton.
Plains Corydalis
Sandy loam soil, Apr. 21, 1945

Corydalis micrantha (Engelm.) A. Gray.
Small-flowered Corydalis
Rich loam soil, Apr. 1, 1945

GENTIANACEAE

Sabatia campestris Nutt.
Prairie Sabatia
Buffalo Grass pasture, June 25, 1945

GERANIACEAE

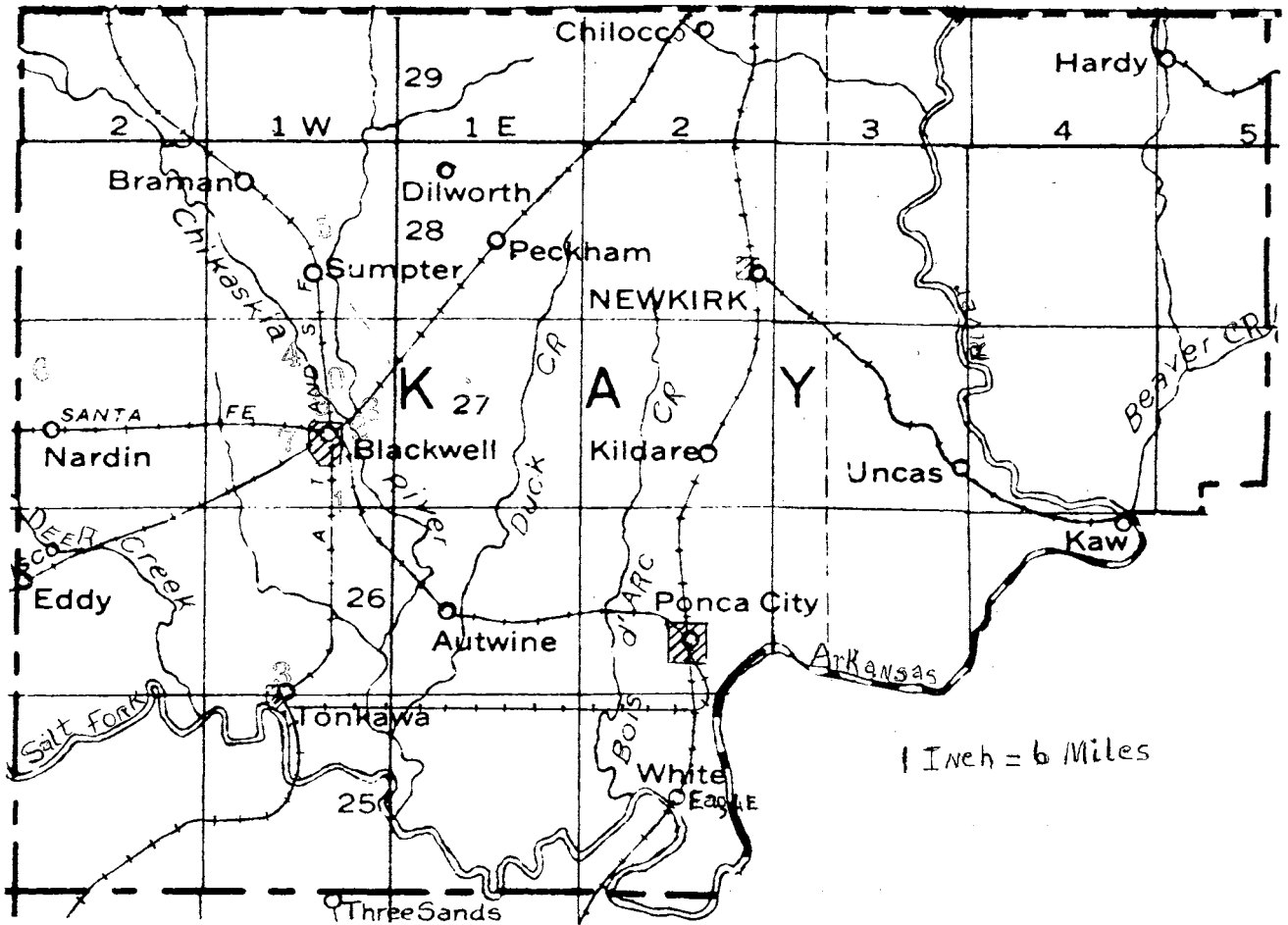
Erodium cicutarium (L.) L'Her.
Stork's-bill
Sandy loam soil, March 3, 1945

Geranium carolinianum L.
Carolina Crane's-bill
Gravelly soil, Apr. 28, 1946

GRAMINEAE

Aegilops cylindrica Host.
Jointed Goatgrass
Sandy loam soil, May 21, 1945

KAY COUNTY



0. *Euphorbia marginata*
1. *Euphorbia Preslii*
2. *Quercus macrocarpa*
3. *Quercus Schnoekii*
4. *Corydalis campestris*
5. *Corydalis micrantha*
6. *Salvia campestris*
7. *Erodium cicutarium*
8. *Geranium carolinianum*
9. *Aegileps cylindrica*

WILD FLOWERING PLANTS OF KAY COUNTY

GRAMINEAE

Andropogon furcatus Muhl.
Big Blue-stem
Sandy clay soil, Oct. 2, 1944

Andropogon scoparius Michx.
Little Blue-stem
Gravelly soil, Sept. 17, 1945

Aristida oligantha Michx.
Few-flowered Aristida
Gravelly soil, Sept. 17, 1945

Avena sativa L.
Oats
Sandy clay soil, May 15, 1945

Bouteloua curtipendula (Michx.) Torr.
Tall Grama-grass
Limestone soil, Oct. 7, 1945

Bromus secalinus L.
Chess or Cheat
Sandy soil, May 21, 1945

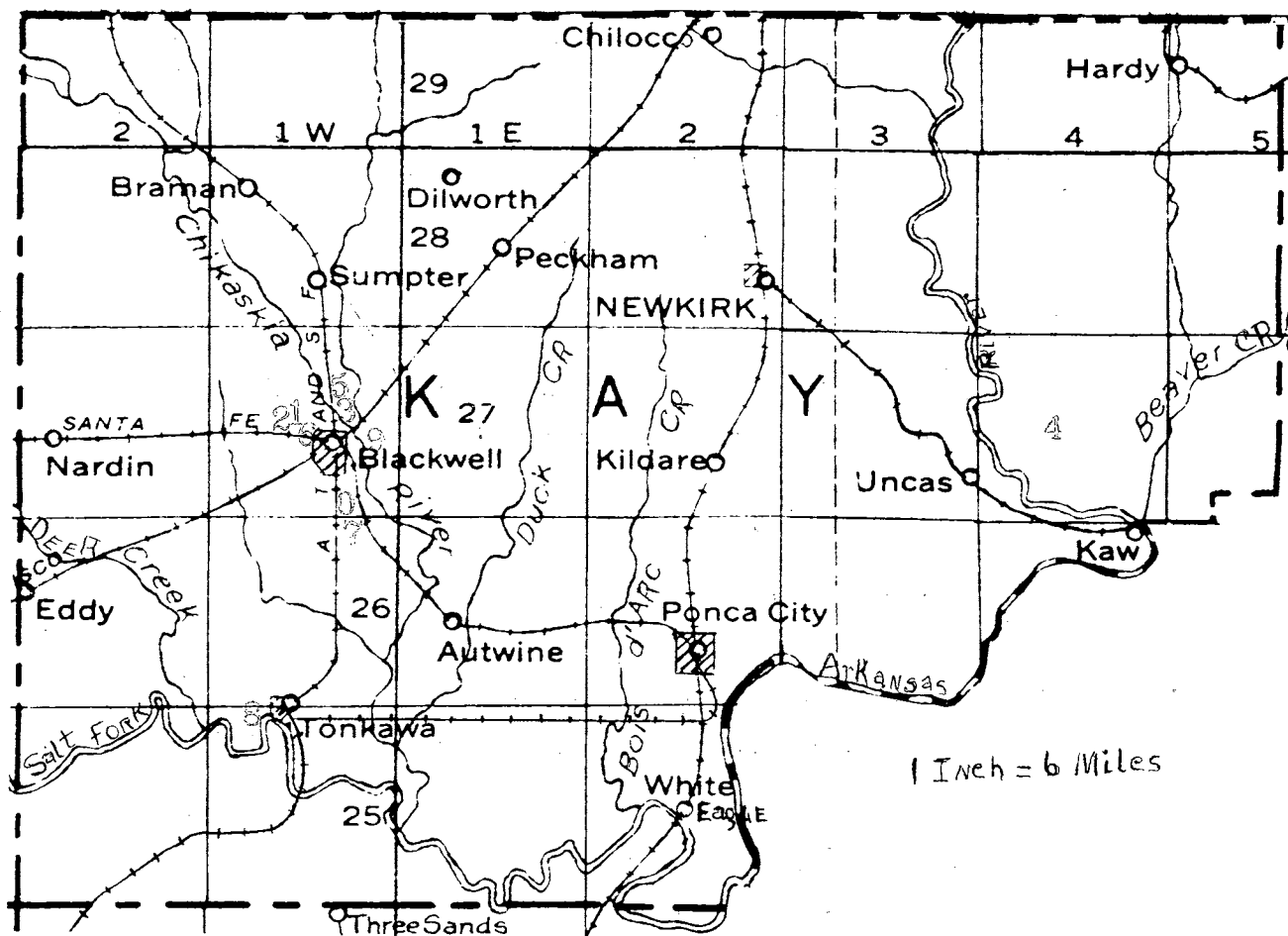
Bromus tectorum L.
Downy Chess
Waste ground, May 20, 1945

Buchloe dactyloides (Nutt.) Engelm.
Buffalo Grass
Sandy clay soil, Apr. 30, 1946

Cenchrus pauciflorus Benth.
Sand-bur
Very sandy soil, Sept. 20, 1945

Digitaria sanguinalis (L.) Scop.
Large Crab-grass
Sandy loam soil, June 29, 1945

KAY COUNTY



0. *Andropogon furcatus*
1. *Andropogon scoparius*
2. *Aristida oligantha*
3. *Avena sativa*
4. *Bouteloua curtipendula*
5. *Bromus secalinus*
6. *Bromus tectorum*
7. *Buchloe dactyloides*
8. *Genchrus pauciflorus*
9. *Digitaria sanguinalis*

WILD FLOWERING PLANTS OF KAY COUNTY

GRAMINEAE

Distichlis stricta (Torr.) Rydb.
Alkali Grass
Gravelly soil, Sept. 17, 1945

Echinochloa crusgalli (L.) Beauv.
Barnyard Grass
Sandy loam soil, Sept. 18, 1944

Eleusine indica (L.) Gaerta.
Goose Grass
Loam garden soil, Sept. 18, 1944

Eragrostis cilianensis (All.) Link.
Strong-scented Love-grass
Loam garden soil, Sept. 18, 1944

Koeleria cristata (L.) Pers.
Koeler's Grass
Sandy loam soil, May 23, 1945

Leptochloa filiformis (Lam.) Beauv.
Feather Grass
Sandy clay soil, Oct. 2, 1944

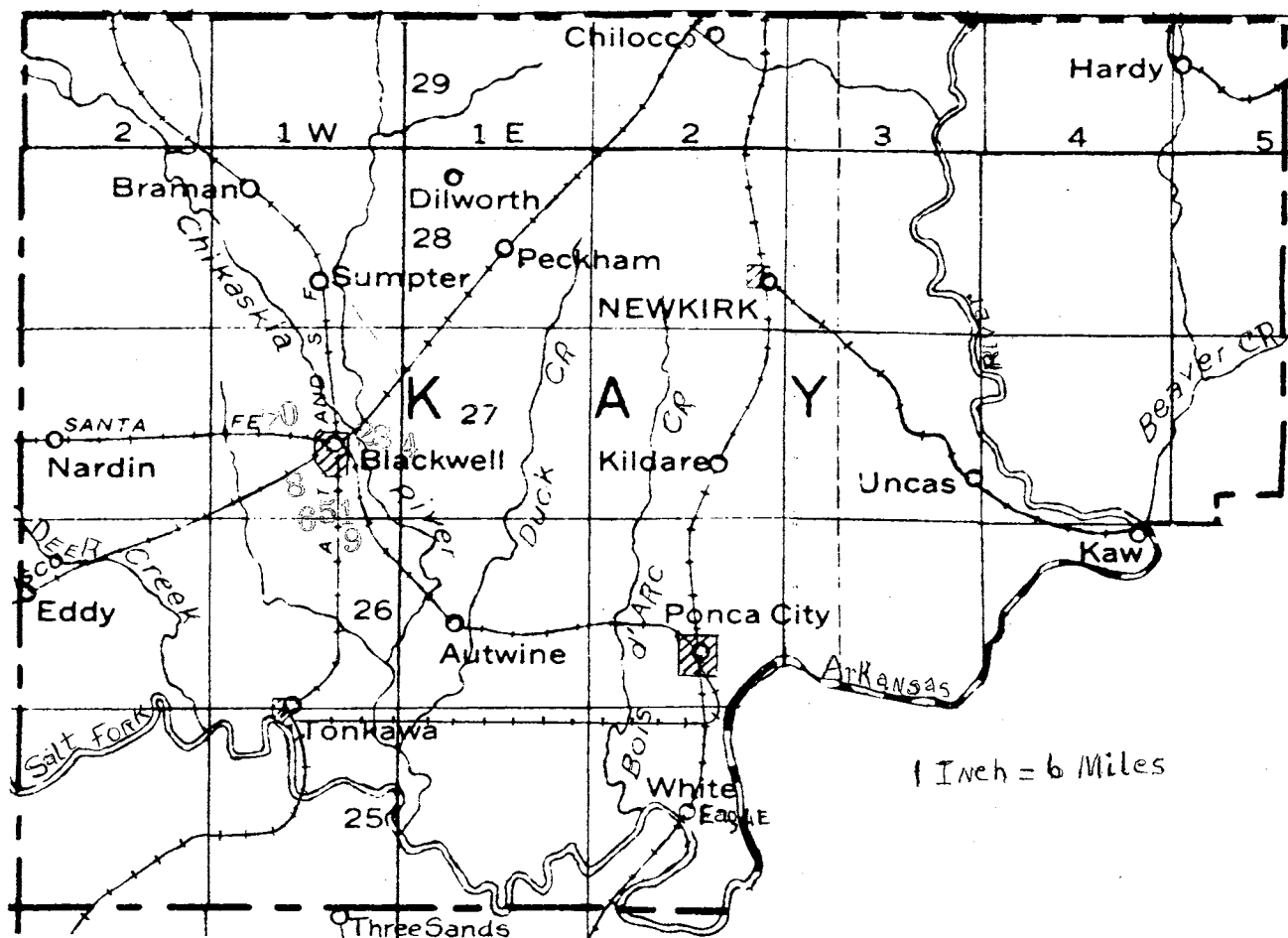
Panicum capillare L.
Witch Grass
Sandy clay soil, Sept. 18, 1944

Panicum obtusum H.B.K.
Blunt Panic Grass
Smelter gravel soil, Sept. 17, 1945

Panicum scribnerianum Nash.
Scribner's Panic-grass
Sandy clay soil, May 10, 1945

Panicum virgatum L.
Switch-grass
Sandy clay soil, Sept. 18, 1944

KAY COUNTY



0. *Distichlis stricta*
1. *Echinochloa crusgalli*
2. *Eleusine indica*
3. *Eragrostis ciliaris*
4. *Koeleria cristata*
5. *Leptochloa filiformis*
6. *Panicum capillare*
7. *Panicum obtusum*
8. *Panicum scribnerianum*
9. *Panicum virgatum*

WILD FLOWERING PLANTS OF KAY COUNTY

GRAMINEAE

Poa arachnifera Torr.
Texas Blue-grass
Sandy clay soil, June 29, 1945

Setaria viridis (L.)
Green Foxtail
Sandy loam soil, Sept. 18, 1944

Sorghastrum nutans (L.) Nash.
Indian Grass
Sandy clay soil, Sept. 18, 1944

Triodia flava (L.)
Purple Top
Sandy loam soil, Sept. 18, 1944

Tripsacum dactyloides L.
Gama-grass
Gravelly sandy soil, Aug. 10, 1945

Uniola latifolia Michx.
Broad-leaved Spike-grass
Shady river bank, Sept. 20, 1945

HYDROPHYLLACEAE

Ellisia nyctelea L.
Nyctelea
Sandy loam soil, Apr. 21, 1945

IRIDACEAE

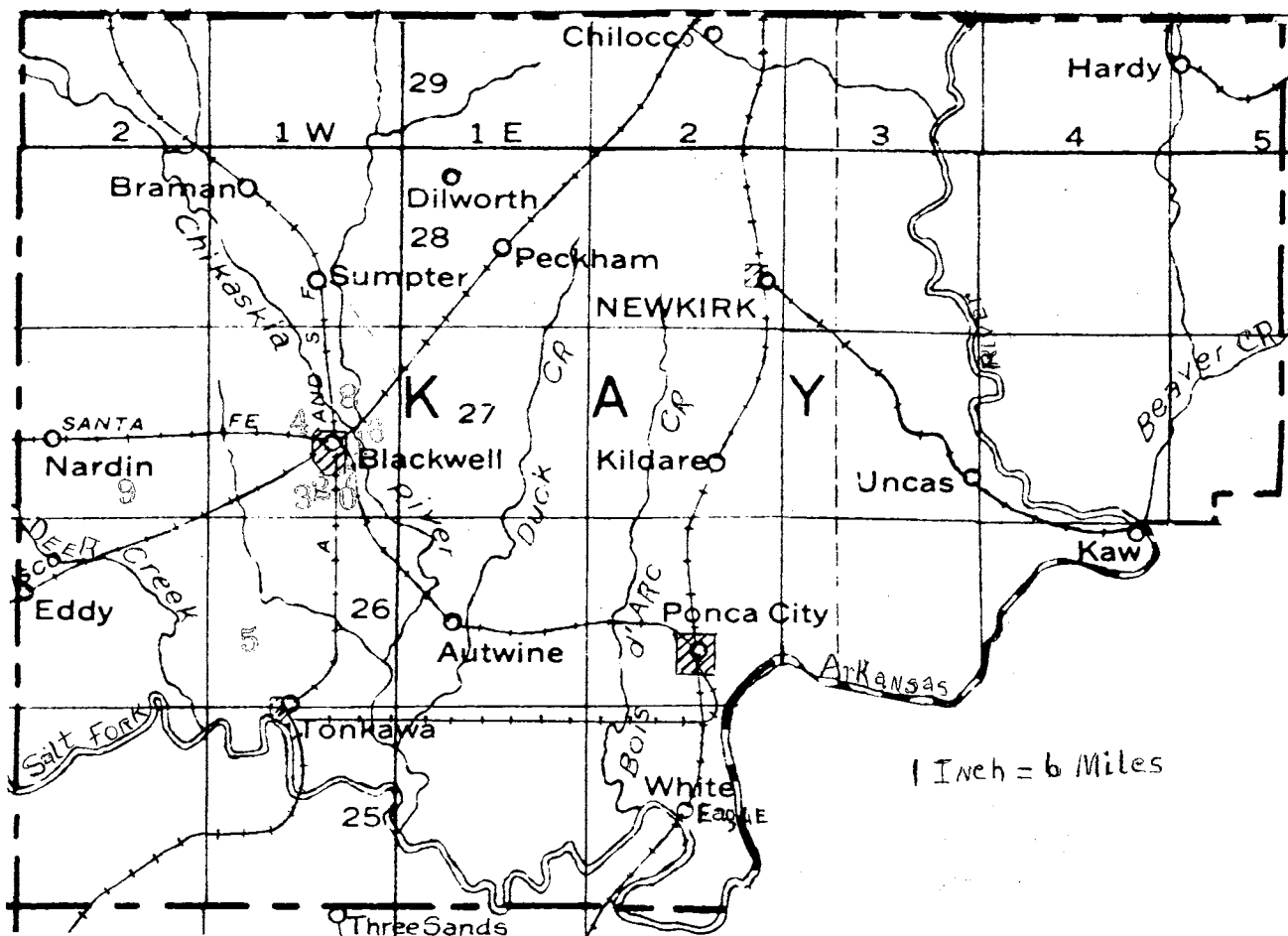
Sisyrinchium Bushii Bicknell.
Bush's Blue-eyed Grass
Moist loam soil, Apr. 19, 1945

JUGLANDACEAE

Carya illinoensis (Wang.) K. Koch.
Pecan
Rich river soil, May 1, 1945

Juglans nigra L.
Black Walnut
Along a stream, Apr. 16, 1946

KAY COUNTY

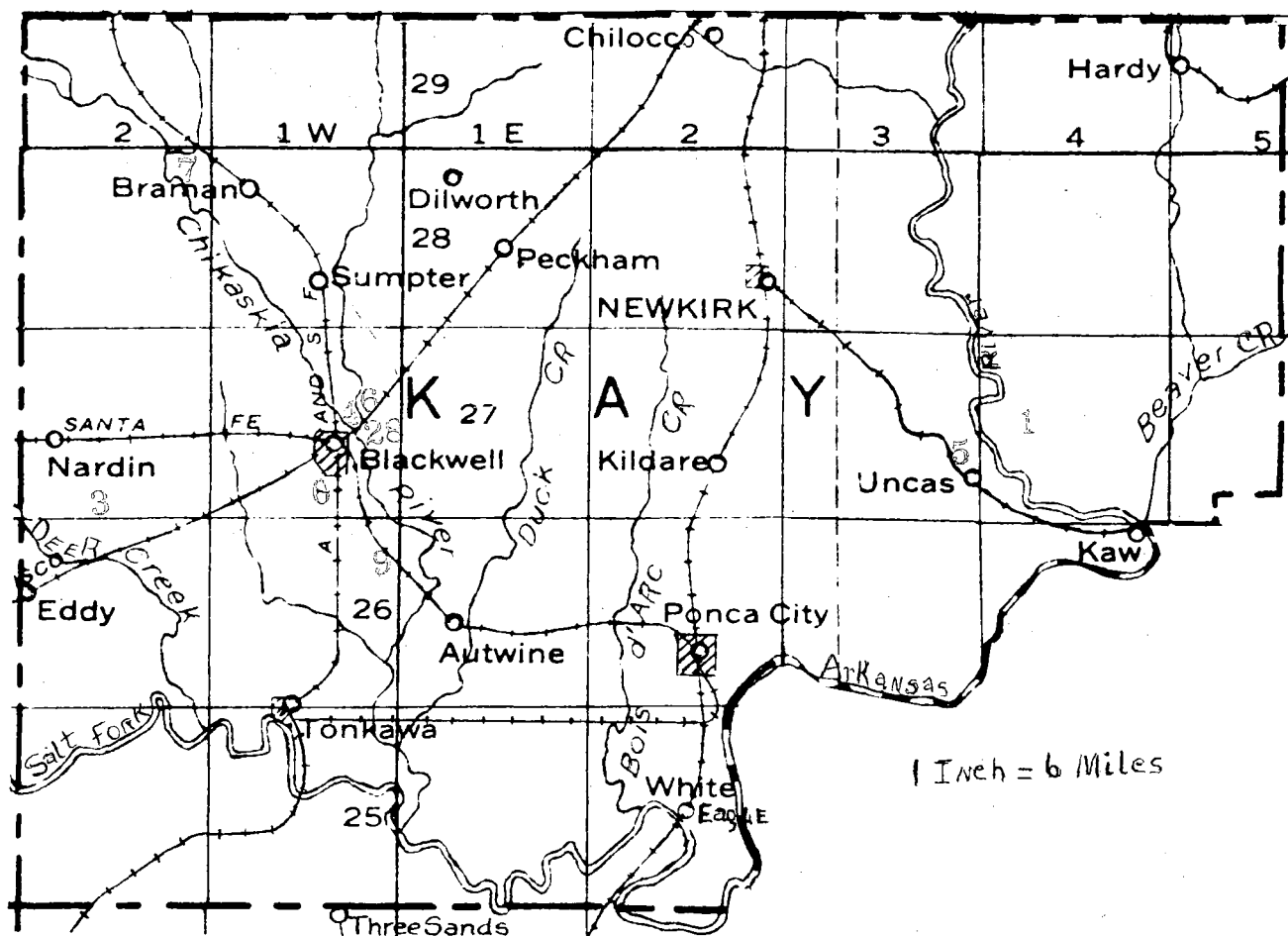


0. *Poa arachnifera*
1. *Setaria viridis*
2. *Sorghastrum nutans*
3. *Triodia flava*
4. *Tripsacum dactyloides*
5. *Uniola latifolia*
6. *Ellisia nyctelea*
7. *Sisyrinchium Bushii*
8. *Carya illinoensis*
9. *Juglans nigra*

WILD FLOWERING PLANTS OF KAY COUNTY

- JUNCACEAE Juncus Dudleyi Wiegand.
Dudley's Rush
Wet ground, June 29, 1945
- KRAMERIACEAE Kramoria secundiflora DC.
Linear-leaved Krameria
Limestone soil, July 20, 1945
- LABIATAE
- Lanium amplexicaule L.
Henbit
Sandy loam soil, March 3, 1945
- Marrubium vulgare L.
Common Hoarhound
Sandy loam soil, Oct. 10, 1944
- Mentha arvensis L. var.
 piperascens Malinvaud.
Spearmint
Sandy loam soil, Sept. 1, 1944
- Monarda clinopodioides A. Gray.
Monarda
Sandy clay soil, Aug. 21, 1945
- Monarda mollis L.
Wild Bergamont
Sandy clay soil, June 30, 1945
- Nepeta cataria L.
Catnip
Sandy soil, Aug. 15, 1945
- Nepeta hederacea (L.)
Ground Ivy
Sandy loam soil, March 3, 1945
- Salvia azurea Lam. var. grandiflora
Benth.
Tall Blue Sage
Sandy loam soil, Aug. 18, 1944

KAY COUNTY



0. *Juncus Dudleyi*
1. *Krameria secundiflora*
2. *Lamium amplexicaule*
3. *Marrubium vulgare*
4. *Mentha arvensis*
var. *piperascens*
5. *Monarda clinopodioides*
6. *Monarda mollis*
7. *Nepeta cataria*
8. *Nepeta hederacea*
9. *Salvia azurea*
var. *grandiflora*

WILD FLOWERING PLANTS OF KAY COUNTY

LABIATAE

Salvia lanceaefolia Poir.
Lance-leaved Sage
Sandy loam soil, May 21, 1945

Teucrium canadense L.
American Wood Sage
Gravelly soil, Aug. 2, 1945

LEGUMINOSAE

Acacia angustissima (Mill.) Kuntz. var.
hirta (Nutt.) Robinson.
Prairie Acacia
Sandy loam soil, June 30, 1945

Amorpha canescens Pursh.
Lead Plant
Sandy soil, June 29, 1945

Amorpha fruticosa L. var. angustifolia
Pursh.
River Locust
Sandy clay soil, May 26, 1945

Astragalus caryocarpus Ker.
Ground Plum
Sandy clay soil, March 30, 1945

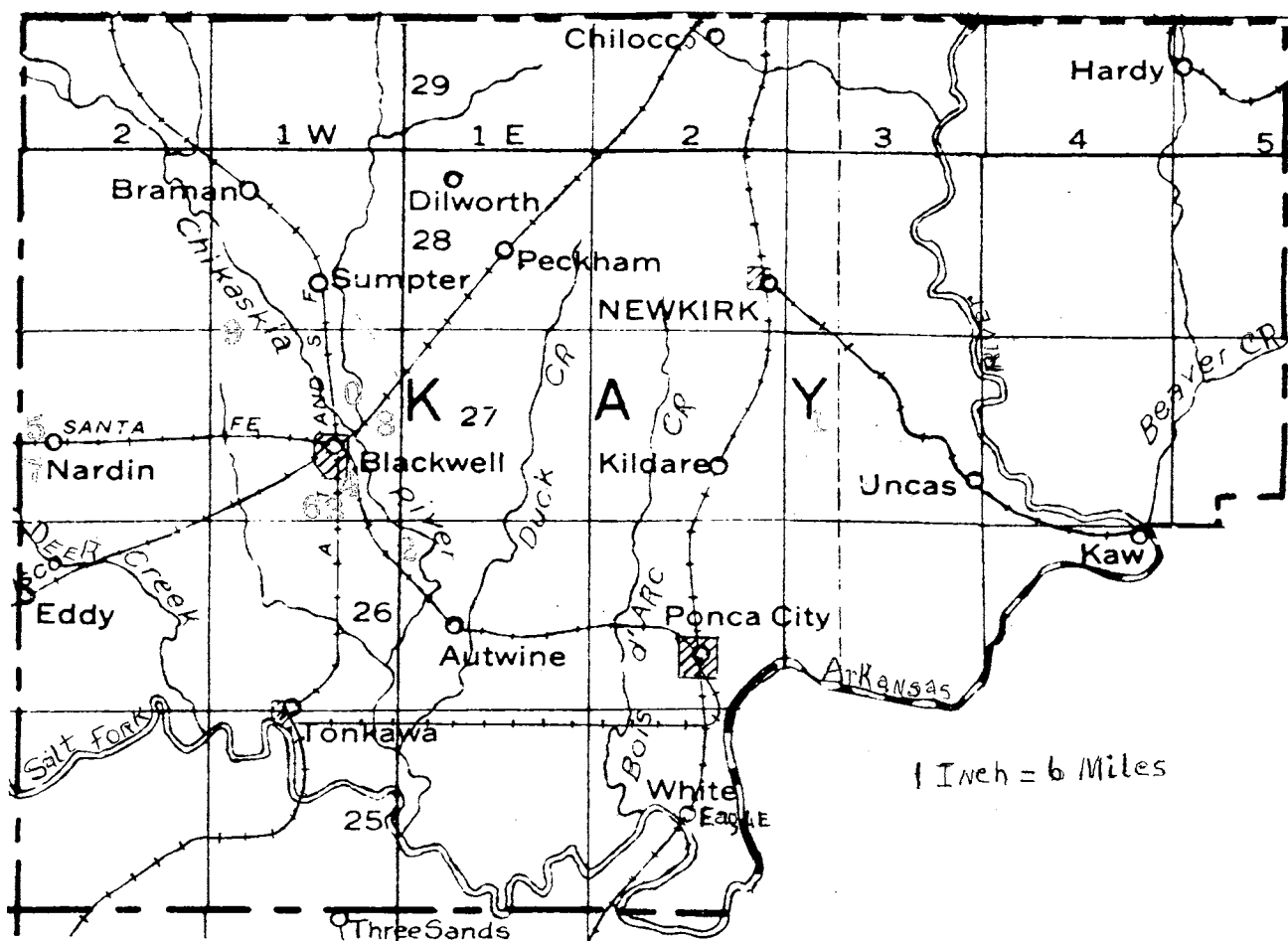
Baptisia leucophaea Nutt.
Wild Indigo
Sandy clay soil, Apr. 18, 1945

Baptisia minor Lehm.
Western Blue False Indigo
Sandy loam soil, May 15, 1945

Cassia chamaecrista L.
Partridge Pea
Sandy loam soil, Aug. 20, 1944

Cercis canadensis L.
Red-bud
Rich loam soil, Apr. 1, 1945

KAY COUNTY



0. *Salvia lancaefolia*
1. *Teucrium canadense*
2. *Acacia angustissima*
var. *hirta*
3. *Amorpha canescens*
4. *Amorpha fruticosa*
var. *angustifolia*
5. *Astragalus caryocarpus*
6. *Baptisia leucophaea*
7. *Baptisia minor*
8. *Cassia chamaecrista*
9. *Cercis canadensis*

WILD FLOWERING PLANTS OF KAY COUNTY

LEGUMINOSAE

Desmanthus illinoensis (Michx.) MacMill.
 Illinois Mimosa
 Sandy loam soil, Aug. 20, 1944

Desmodium illinoense Gray.
 Stick-tight
 Sandy loam soil, Sept. 12, 1944

Desmodium sessilifolium (Torr.) T. & G.
 Sessile-leaved Tick-trefoil
 Dry field, Aug. 2, 1945

Gleditsia triacanthos L.
 Honey Locust
 Roadside, Sept. 16, 1945

Gymnocladus dioica (L.) Koch.
 Kentucky Coffee-tree
 Sandy loam soil, May 8, 1946

Lathyrus pusillus Ell.
 Low Vetchling
 Grassy lawn, May 15, 1945

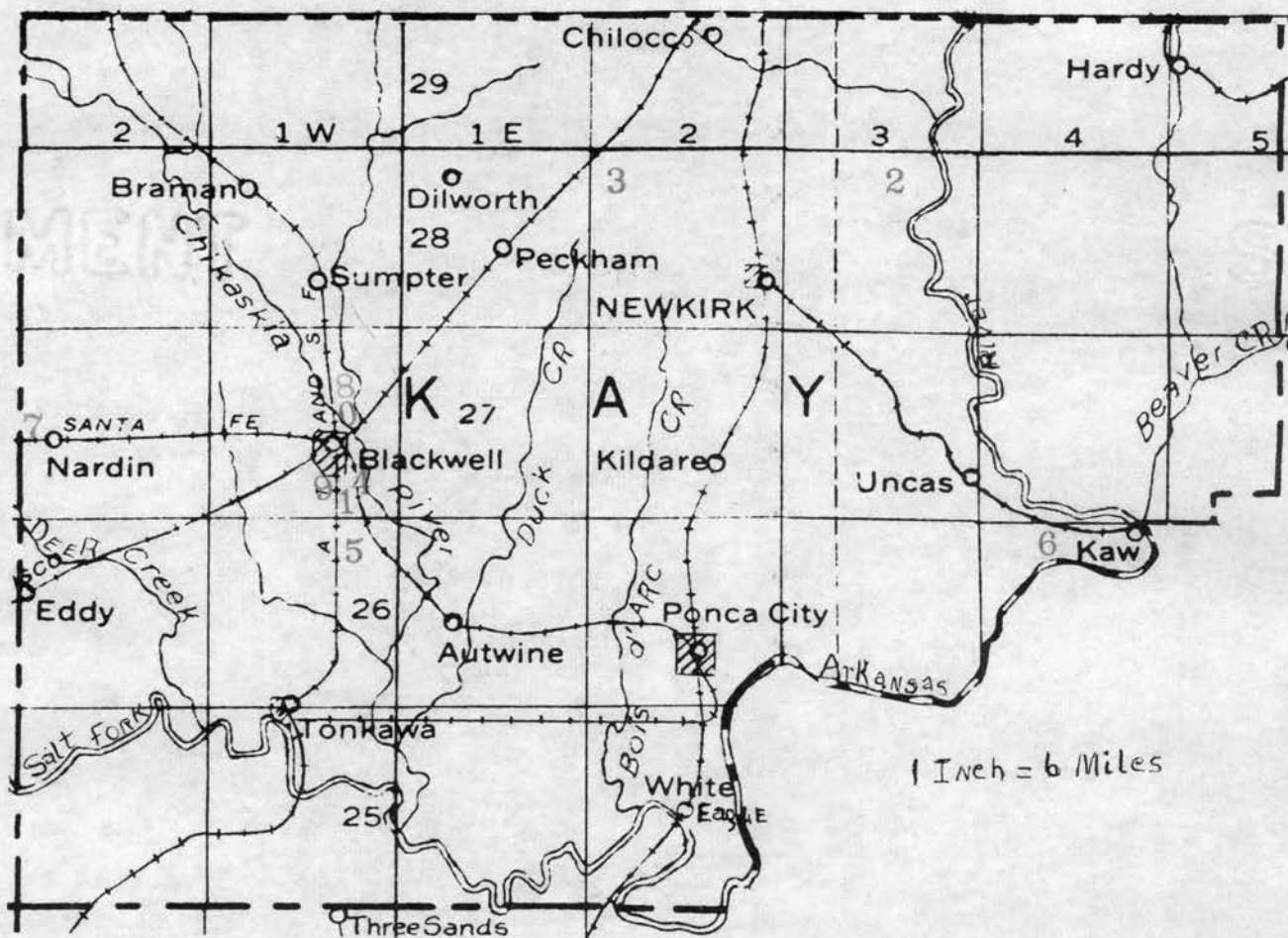
Lespedeza Stuevei Nutt.
 Stueve's Bush-clover
 Rocky limestone soil, Aug. 3, 1945

Lupinus Texensis Hook.
 Texas Bluebonnet
 Prairie, May 15, 1945

Medicago lupulina L.
 Black Medic
 Sandy loam soil, May 1, 1945

Medicago sativa L.
 Alfalfa
 Sandy loam soil, May 8, 1945

KAY COUNTY



0. *Desmanthus illinoensis*
1. *Desmodium illinoense*
2. *Desmodium sessilifolium*
3. *Gleditsia triacanthos*
4. *Gymnocladus dioica*
5. *Lathyrus pusillus*
6. *Lespedeza Stuevei*
7. *Lupinus Texensis*
8. *Medicago lupulina*
9. *Medicago sativa*

WILD FLOWERING PLANTS OF KAY COUNTY

LEGUMINOSAE

Melilotus alba Desv.
White Sweet Clover
Sandy loam soil, May 21, 1945

Melilotus officinalis (L.) Lam.
Yellow Sweet Clover
Loam soil, May 6, 1945

Petalostemum candidum (Wild.) Michx.
White Prairie Clover
Dry sandy soil, June 30, 1945

Petalostemum multiflorum Nutt.
Round-headed Prairie Clover
Limestone soil, Aug. 3, 1945

Psoralea tenuiflora Pursh.
Few-flowered Psoralea
Along railroad, Aug. 10, 1945

Robinia Pseudo-Acacia L.
Black Locust
Sandy loam soil, May 5, 1945

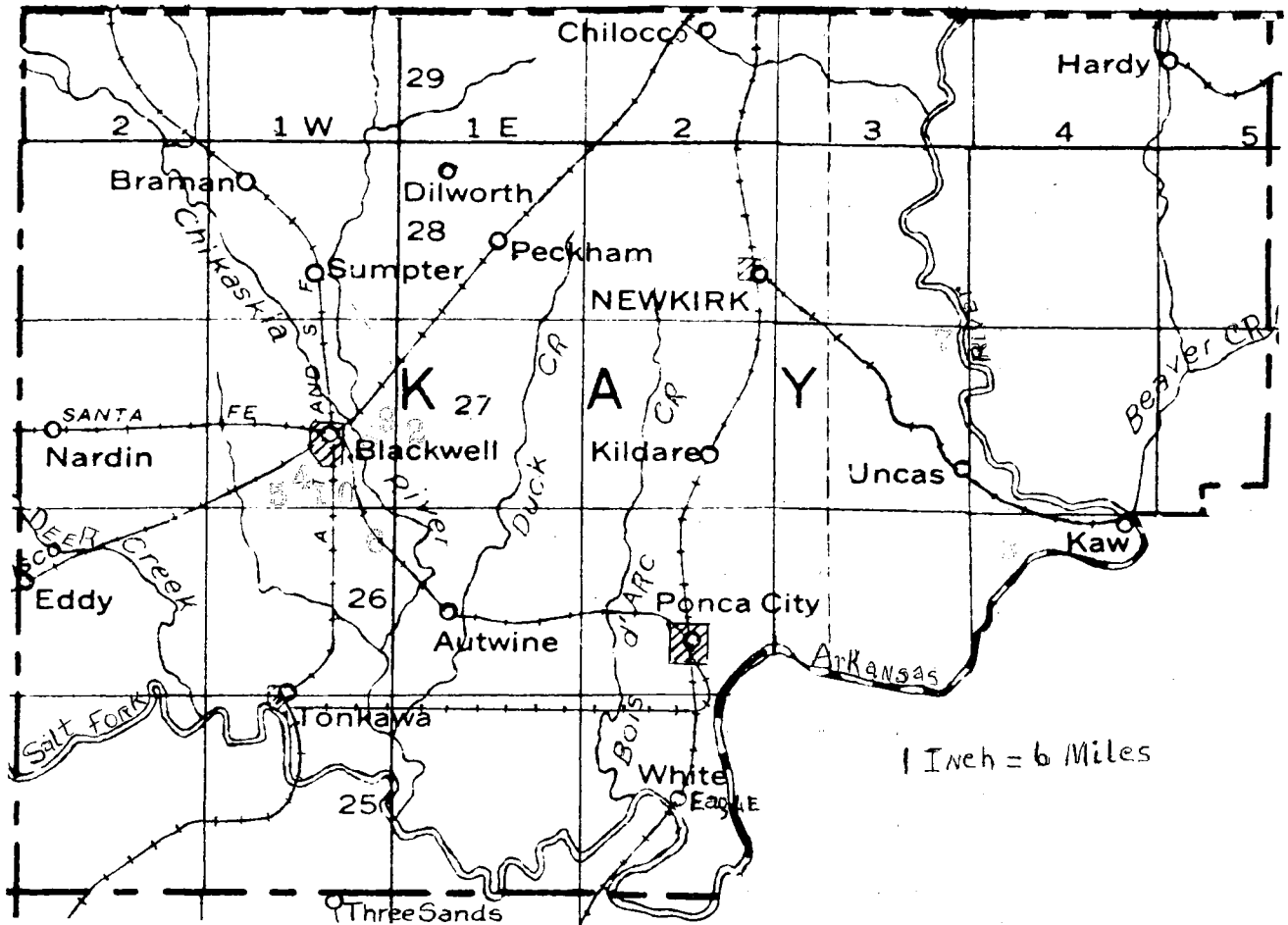
Schrankia uncinata Willd.
Sensitive Brier
Sandy loam soil, May 23, 1945

Strophostyles helvola (L.) Britton
Trailing Wild Bean
Sandy soil, Sept. 24, 1944

Trifolium pratense L.
Red Clover
Sandy clay soil, May 21, 1945

Trifolium repens L.
White Clover
Sandy loam soil, Oct. 15, 1944

KAY COUNTY



0. *Melilotus alba*
1. *Melilotus officinalis*
2. *Petalostemum candidum*
3. *Petalostemum multiflorum*
4. *Psoralea tenuiflora*
5. *Robinia Pseudo-Acacia*
6. *Schrankia uncinata*
7. *Strophostyles helvola*
8. *Trifolium pratense*
9. *Trifolium repens*

WILD FLOWERING PLANTS OF KAY COUNTY

LILLIACEAE

Allium mutabile Michx.
Fraser's Wild Onion
Dry gravelly soil, May 3, 1945

Allium Nuttallii S. Wats. or
A. perdulce S. F. Fraser.
Nuttall's Wild Onion
Sandy clay soil, Apr. 19, 1945

Androstephium coeruleum (Scheele)
Greene.
Androstephium
Woodland, Apr. 14, 1946

Erythronium mesochoreum Knerr.
Midland Dog-tooth Violet
Sandy loam soil, March 18, 1945

Nothoscordum bivalve (L.) Britton.
Yellow False Garlic
Sandy clay soil, March 27, 1945

Ornithogalum umbellatum L.
Star-of-Bethlehem
Loam soil, May 1, 1945

Smilax rotundifolia L.
Green Brier
Woods, Apr. 4, 1946

LOBELIACEAE

Lobelia cardinalis L.
Cardinal Flower
Sandy roadside, Sept. 20, 1945

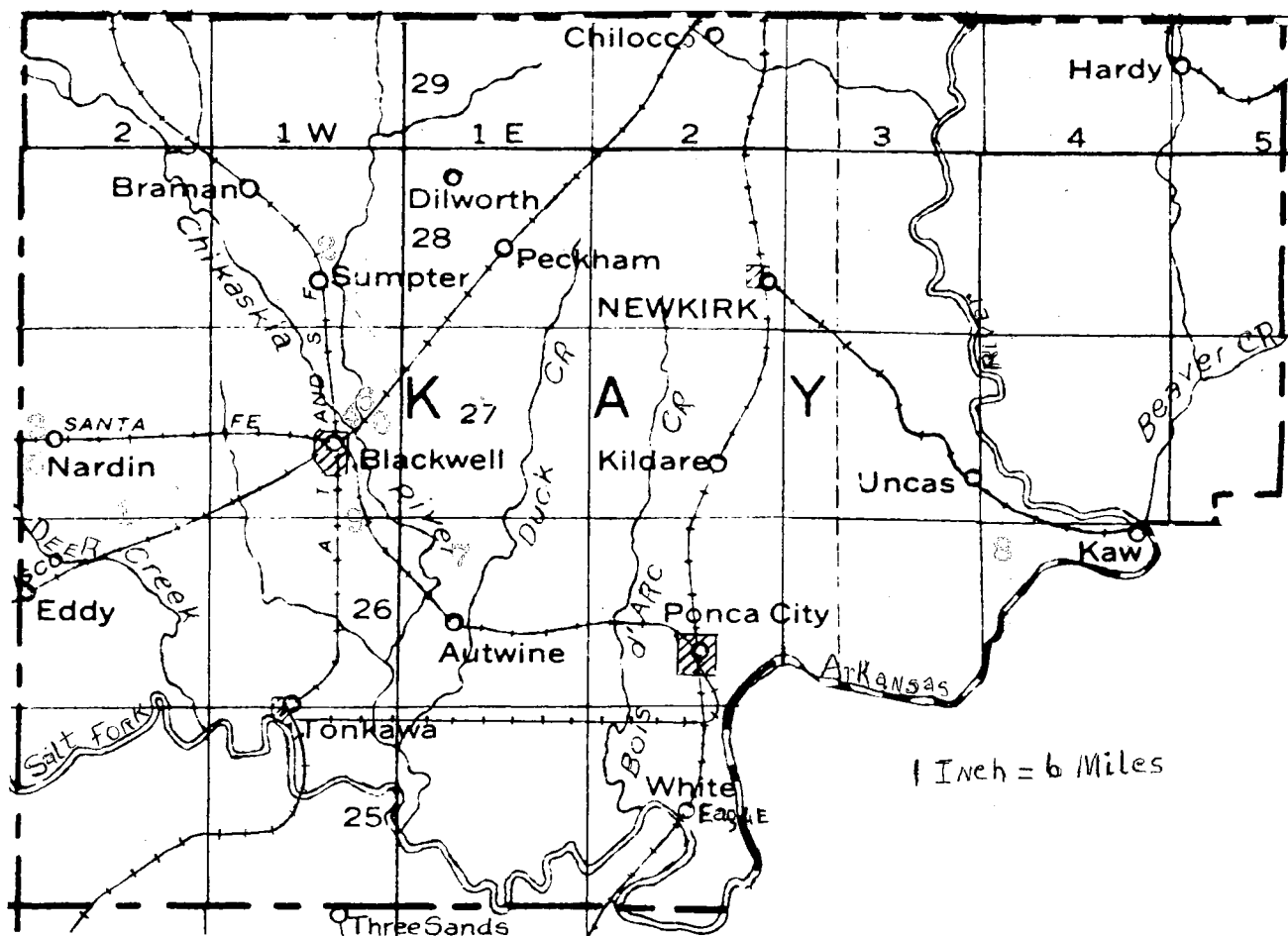
LYTHRACEAE

Lythrum alatum Pursh.
Wing-stemmed Loosestrife
Limestone soil, Aug. 3, 1945

MALVACEAE

Callirhoe alcaeoidea (Michx.) A. Gray.
Light Poppy Mallow
Grassy loam soil, May 1, 1945

KAY COUNTY



0. *Allium nutabile*
1. *Allium Nuttallii*
2. *Androstegium coeruleum*
3. *Erythronium mesochoreum*
4. *Nothoscordum bivalve*
5. *Ornithogalum umbellatum*
6. *Smilax rotundifolia*
7. *Lobelia cardinalis*
8. *Lythrum alatum*
9. *Callirhoe alcaoides*

WILD FLOWERING PLANTS OF KAY COUNTY

MALVACEAE

Callirhoe involucrata (T. & G.) Gray.
Purple Poppy Mallow
Sandy loam soil, Apr. 21, 1945

Hibiscus trionum L.
Flower-of-an-hour
Sandy clay soil, Sept. 10, 1944

Malvastrum coccineum (Pursh.) A. Gray.
Red False Mallow
Sandy loam soil, May 11, 1945

MARTYNIACEAE

Martynia louisiana Mill.
Devil's Claw
Sandy soil, Sept. 20, 1945

MENISPERMACEAE

Cocculus carolinus (L.) DC.
Carolina Moonseed
Sandy soil, Sept. 24, 1944

Menispermum canadense L.
Canada Moonseed
Thicket along river, Apr. 30, 1946

NYCTAGINACEAE

Oxybaphus linearis (Pursh.) Robinson
Narrow-leaved Umbrella-wort
Sandy roadside, Sept. 10, 1944

Oxybaphus nyctagineus (Michx.) Sweet.
Heart-leaved Umbrella-wort
Sandy loam soil, Sept. 17, 1944

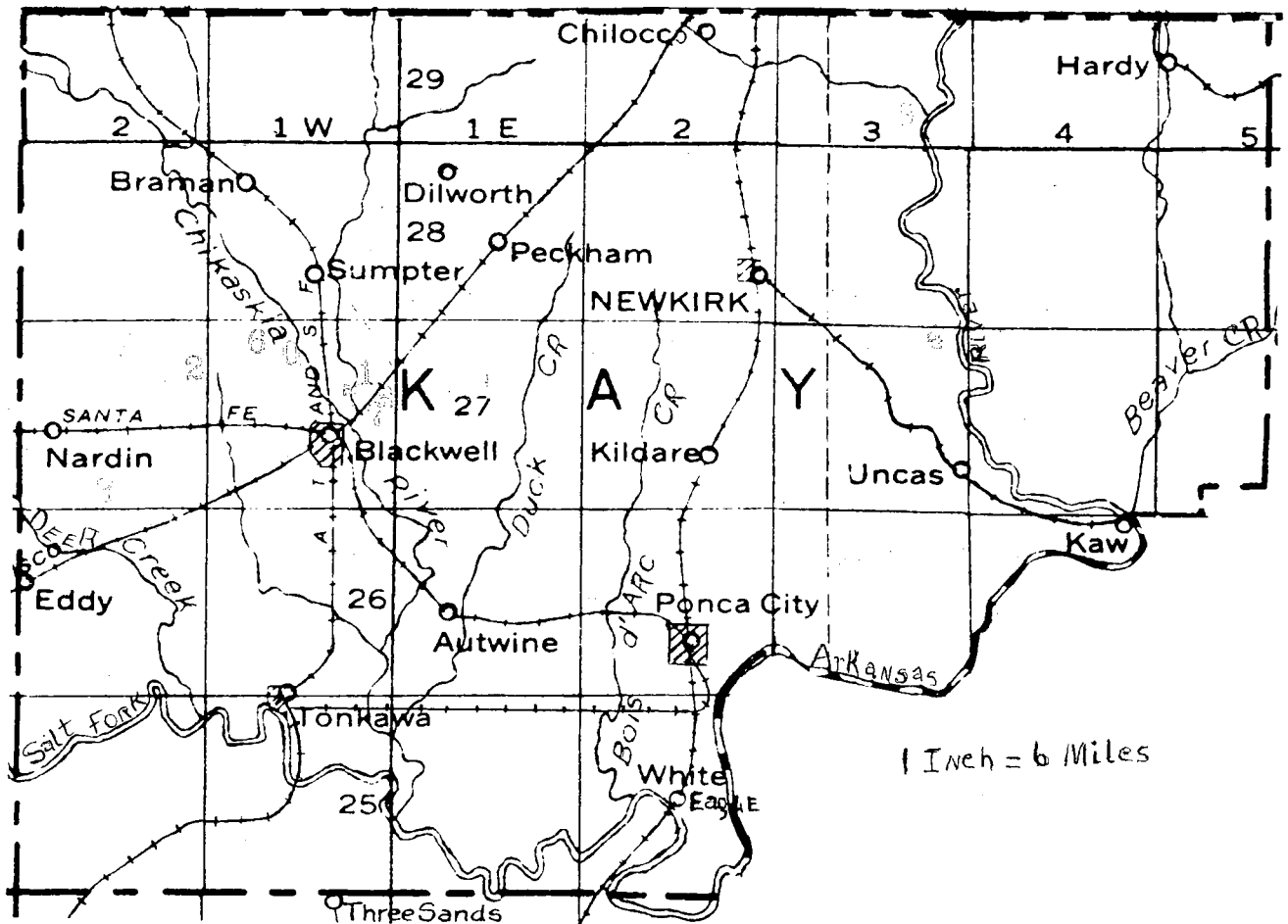
OLEACEAE

Fraxinus americana L.
White Ash
Woods, June 30, 1945

ONAGRACEAE

Gaura biennis L.
Biennial Gaura
Sandy clay soil, Aug. 2, 1945

KAY COUNTY



0. *Callirhoe involucrata*
1. *Hibiscus trionum*
2. *Malvastrum coccineum*
3. *Martynia louisiana*
4. *Cocculus carolinus*
5. *Menispermum canadense*
6. *Oxybaphus linearis*
7. *Oxybaphus nyctagineus*
8. *Fraxinus americana*
9. *Gaura biennis*

WILD FLOWERING PLANTS OF KAY COUNTY

ONAGRACEAE

Gaura parviflora Dougl.
 Small-flowered Gaura
 Sandy loam soil, Aug. 16, 1944

Gaura sinuata Nutt.
 Wavy-leaved Gaura
 Sandy clay soil, May 10, 1945

Jussiaea diffusa Forskal.
 Floating Primrose Willow
 In water, Sept. 17, 1944

Oenothera biennis L.
 Common Evening Primrose
 Sandy loam soil, Sept. 15, 1944

Oenothera laciniata Hill.
 Cut-leaved Evening Primrose
 Sandy loam soil, March 21, 1945

Oenothera serrulata Nutt.
 Tooth-leaved Primrose
 Sandy gravelly soil, May 23, 1945

Oenothera speciosa Nutt.
 Showy Primrose
 Sandy loam soil, May 23, 1945

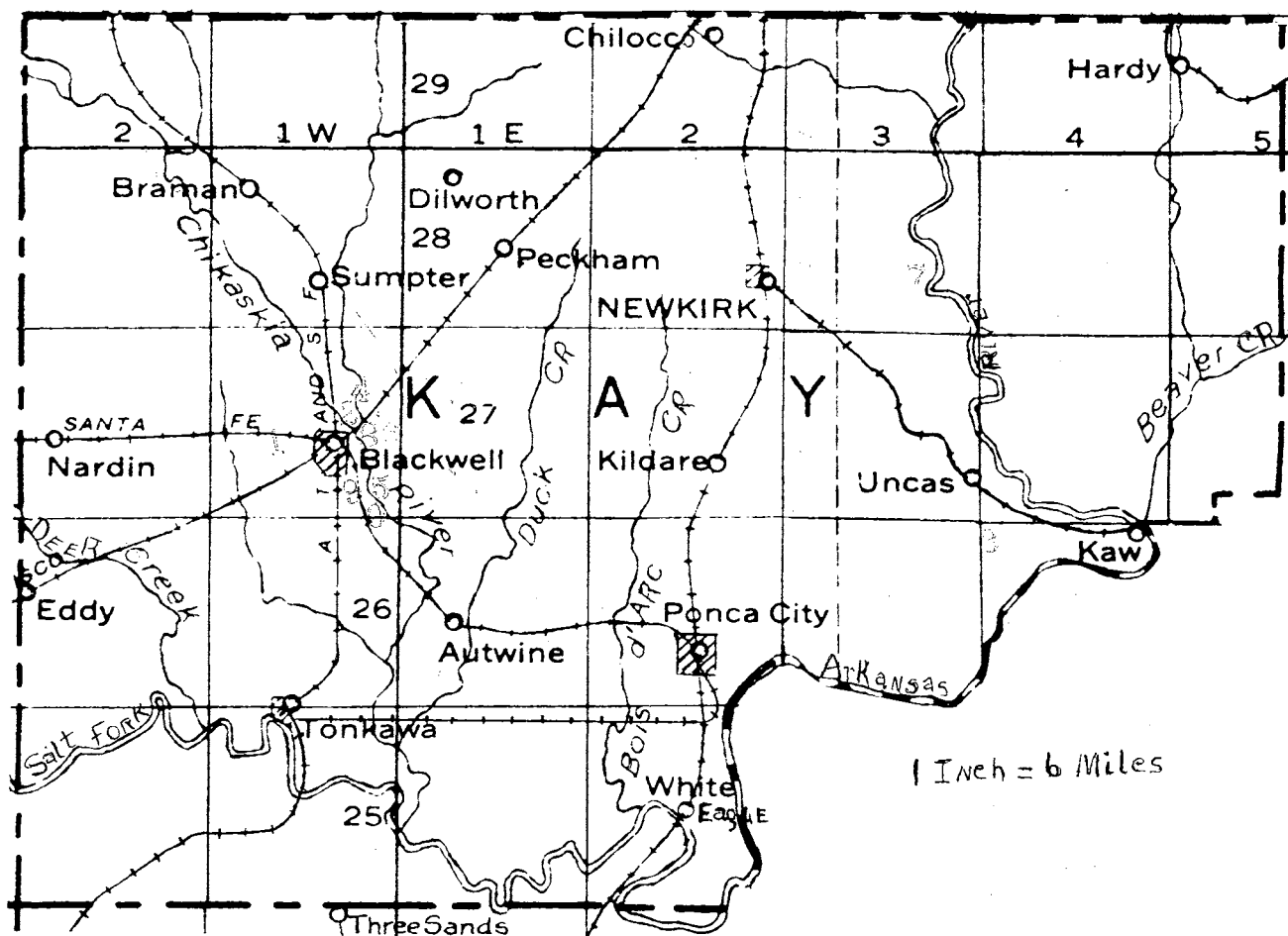
Stenosiphon linifolium (Nutt.) Britton.
 Flax-leaved Stenosiphon
 Rocky roadside, Aug. 2, 1945

OXALIDACEAE

Oxalis stricta (L.) Small.
 Upright Yellow Wood Sorrel
 Garden loam soil, Sept. 18, 1944

Oxalis violaceae L.
 Violet Wood Sorrel
 Sandy clay soil, Apr. 29, 1945

KAY COUNTY



0. *Gaura parviflora*
1. *Gaura sinuata*
2. *Jussiaea diffusa*
3. *Oenothera biennis*
4. *Oenothera laciniata*
5. *Oenothera serrulata*
6. *Oenothera speciosa*
7. *Stenosiphon linifolium*
8. *Oxalis stricta*
9. *Oxalis violacea*

WILD FLOWERING PLANTS OF KAY COUNTY

PHYTOLACCACEAE

Phytolacca decandra L.
Pokeweed
Sandy loam soil, Aug. 15, 1944

PLANTAGINACEAE

Plantago lanceolata L.
Rib-grass
Gravelly soil, June 29, 1945

Plantago major L.
Common Plantain
Sandy loam soil, Sept. 1, 1944

Plantago Purshii R. & S.
Pursh's Plantain
Sandy clay soil, May 15, 1945

Plantago virginica L.
Dwarf Plantain
Sandy loam soil, Apr. 19, 1945

PLATANACEAE

Platanus occidentalis L.
Sycamore
Sandy loam soil, May 21, 1945

POLYGONACEAE

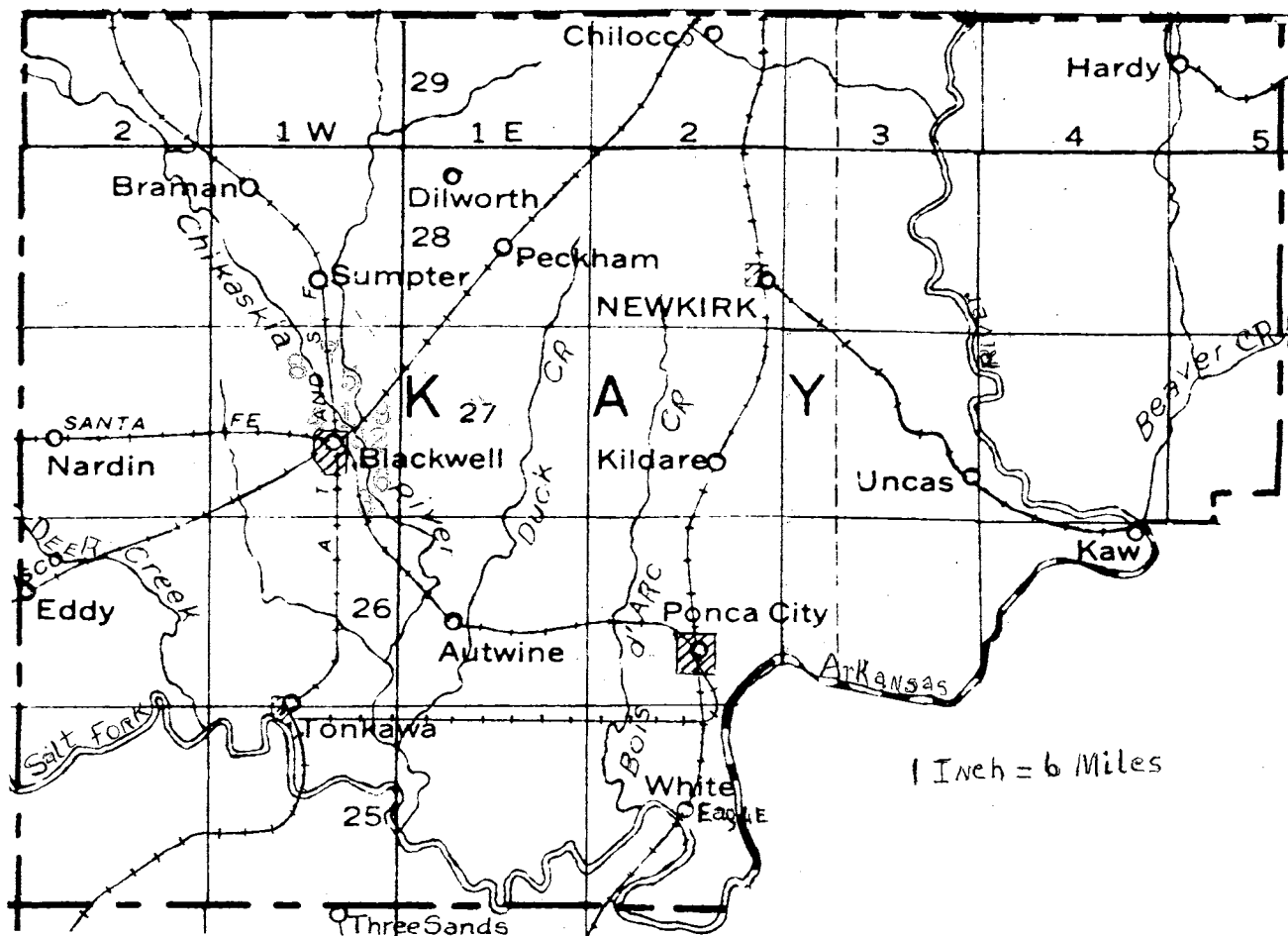
Polygonum dunetorum L.
Hedge Bindweed
Sandy soil, Sept. 15, 1945

Polygonum hydropiper L.
Common Smartweed
Wet sandy loam, Sept. 3, 1944

Polygonum longistylum Small.
Long-styled Jointweed
Sandy loam, Sept. 10, 1944

Polygonum Muhlenbergii (Meisn.) Wats.
Swamp Jointweed
Moist loam soil, Sept. 10, 1944

KAY COUNTY



0. *Phytolacca decandra*
1. *Plantago lanceolata*
2. *Plantago major*
3. *Plantago Purshii*
4. *Plantago virginica*
5. *Platanus occidentalis*
6. *Polygonum dumetorum*
7. *Polygonum hydropiper*
8. *Polygonum longistylum*
9. *Polygonum Muhlenbergii*

WILD FLOWERING PLANTS OF KAY COUNTY

POLYGONACEAE

Polygonum pennsylvanicum L.
 Showy Jointweed
 Sandy loam soil, Sept. 10, 1944

Polygonum ramosissimum Michx.
 Bushy Jointweed
 Sandy clay river bank, Sept. 15, 1944

Polygonum virginianum L.
 Virginia Knotweed
 Sandy loam river bank, Sept. 17, 1944

Rumex altissimus Wood.
 Tall or Pale Dock
 Sandy clay soil, May 8, 1945

Rumex crispus L.
 Curled Dock
 Sandy clay soil, May 8, 1945

PORTULACACEAE

Claytonia virginica L.
 Spring Beauty
 Loam woodland soil, Apr. 1, 1945

PRIMULACEAE

Androsace occidentalis Pursh.
 Androsace
 Woodland, Apr. 14, 1946

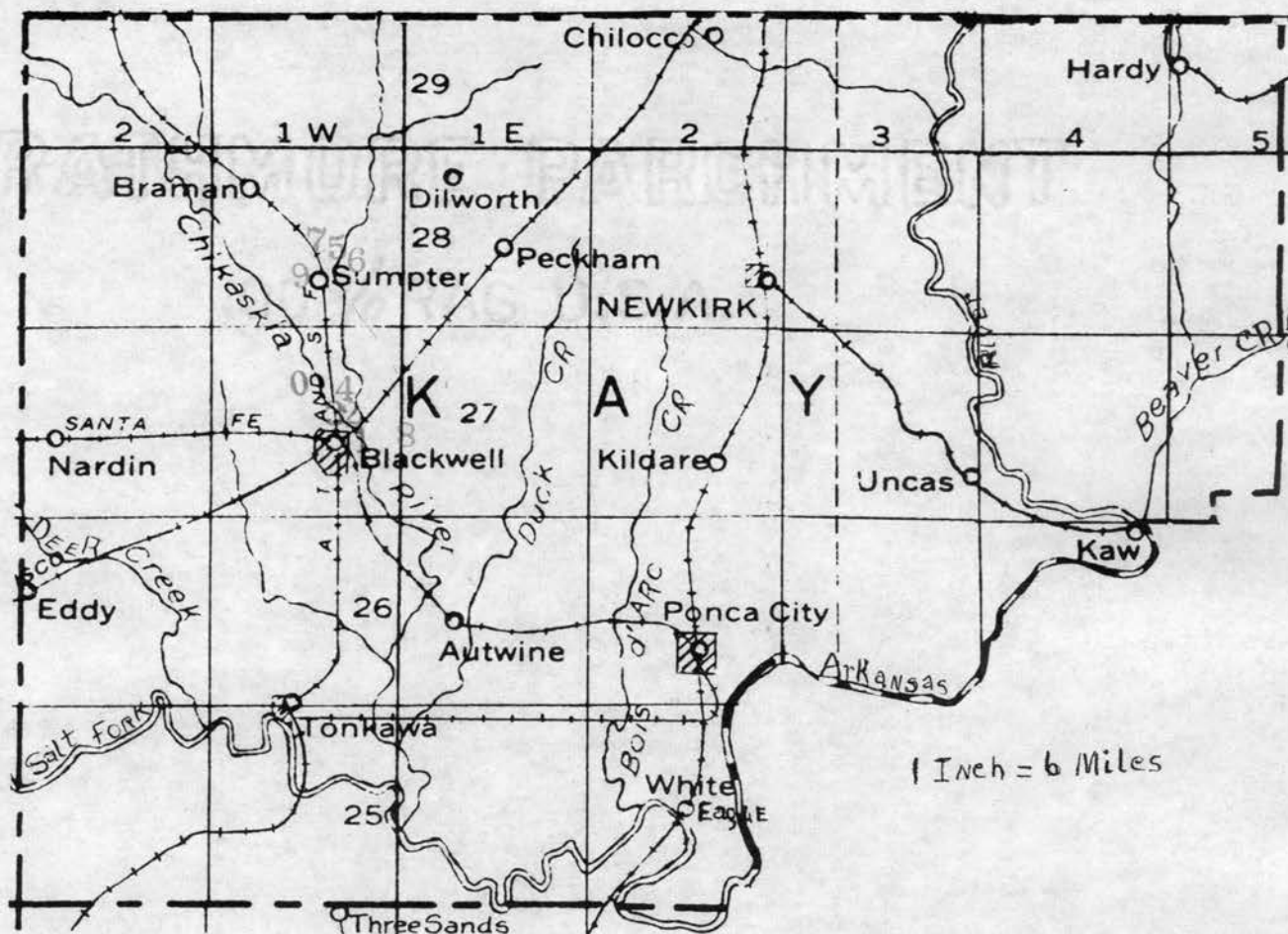
RANUNCULACEAE

Anemone caroliniana Walt.
 Carolina Anemone
 Sandy clay soil, March 25, 1945

Delphinium virescens Nutt.
 Prairie Larkspur
 Sandy loam soil, May 23, 1945

Myosurus minimus L.
 Mousetail
 Woodland, Apr. 14, 1946

KAY COUNTY



0. *Polygonum pennsylvanicum*
1. *Polygonum ramosissimum*
2. *Polygonum virginianum*
3. *Rumex altissimus*
4. *Rumex crispus*
5. *Claytonia virginica*
6. *Androsace occidentalis*
7. *Anemone caroliniana*
8. *Delphinium virescens*
9. *Myosurus minimus*

WILD FLOWERING PLANTS OF KAY COUNTY

RAMUNCULACEAE

Ranunculus sceleratus L.
Celery-leaved Crowfoot
Water and wet soil, May 12, 1946

ROSACEAE

Geum canadense Jacq.
White Avens
Moist loam in woods, May 26, 1945

Prunus angustifolia Marsh.
Chickasaw Plum
Sandy clay soil, Apr. 1, 1945

Rosa pratinicola Greene.
Arkansas Rose
Sandy clay soil, Aug. 10, 1945

Rubus villosus Ait.
Dewberry
Sandy gravelly soil, May 23, 1945

RUBIACEAE

Cephalanthus occidentalis L.
Button-bush
Wet loam soil, June 30, 1945

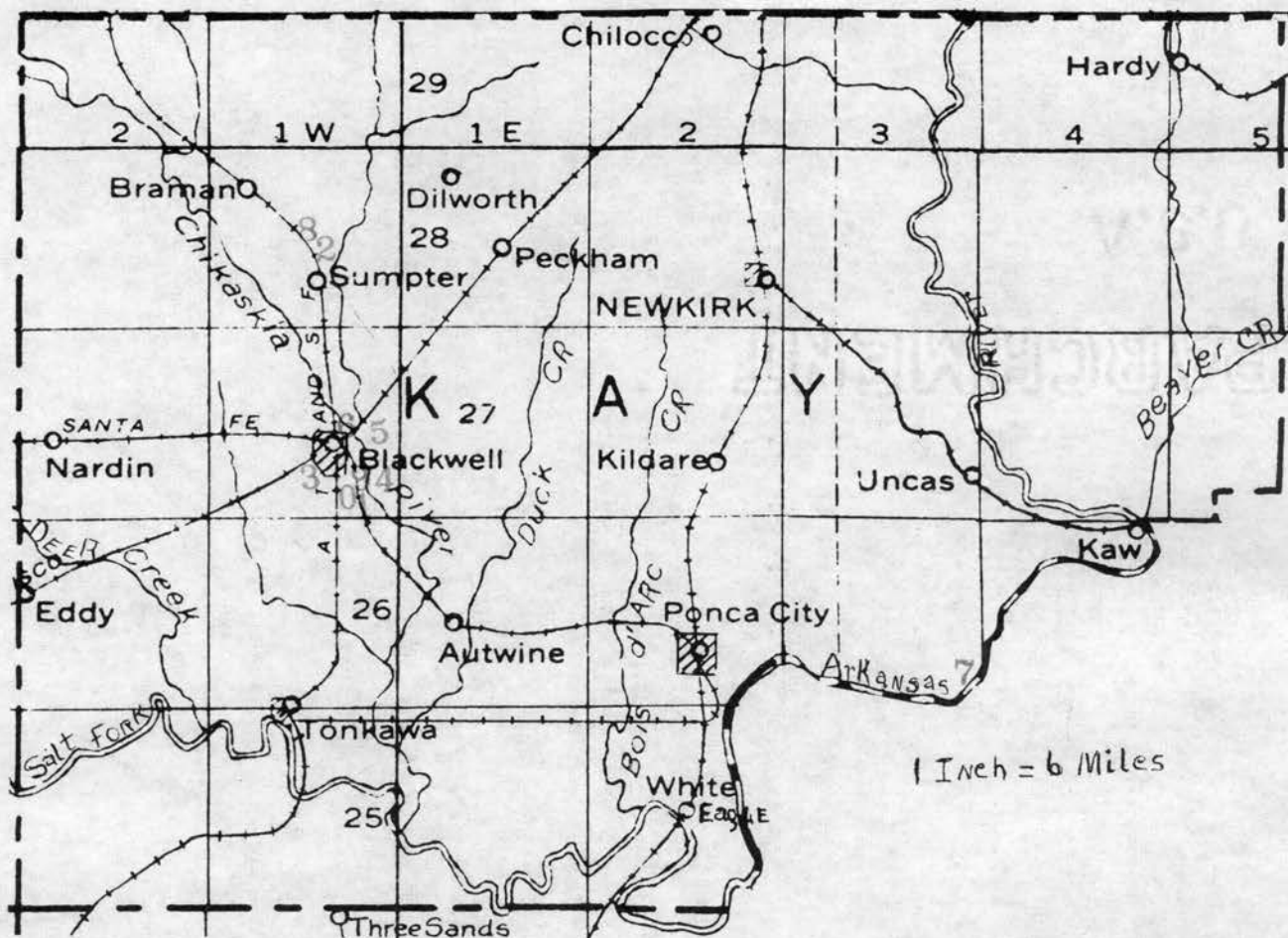
Diodia teres Walt.
Rough Buttonweed
Gravelly soil, Aug. 10, 1945

Houstonia angustifolia Michx.
Narrow-leaved Houstonia
Sandy clay soil, June 11, 1945

Houstonia minima Beck.
Least Bluets
Sandy clay soil, May 25, 1945

Galium aparine L.
Cleavers
River bank, Apr. 27, 1945

KAY COUNTY



0. *Ranunculus sceleratus*
1. *Geum canadense*
2. *Prunus angustifolia*
3. *Rosa pratinicola*
4. *Rubus villosus*
5. *Cephalanthus occidentalis*
6. *Diodia teres*
7. *Houstonia angustifolia*
8. *Houstonia minima*
9. *Galium aparine*

WILD FLOWERING PLANTS OF KAY COUNTY

SALICACEAE

Populus alba L.
Silver-leaved Poplar
Sandy loam soil, Apr. 2, 1945

Populus deltoides Marsh.
Cottonwood
Sandy clay soil, March 28, 1945

Salix babylonica L.
Weeping Willow
Loam soil, May 1, 1945

Salix nigra Marshall
Black Willow
Sandy soil, May 1, 1945

SAPINDACEAE

Sapindus Drummondii H. & A.
China Tree
Sandy roadside, Sept. 16, 1945

SAPOTACEAE

Bumelia languinosa (Michx.) Pers.
Wooly Buckthorn
Sandy loam soil, Oct. 12, 1944

SAXIFRAGACEAE

Ribes aureum Pursh.
Missouri or Buffalo Currant
Sandy loam soil, March 28, 1946

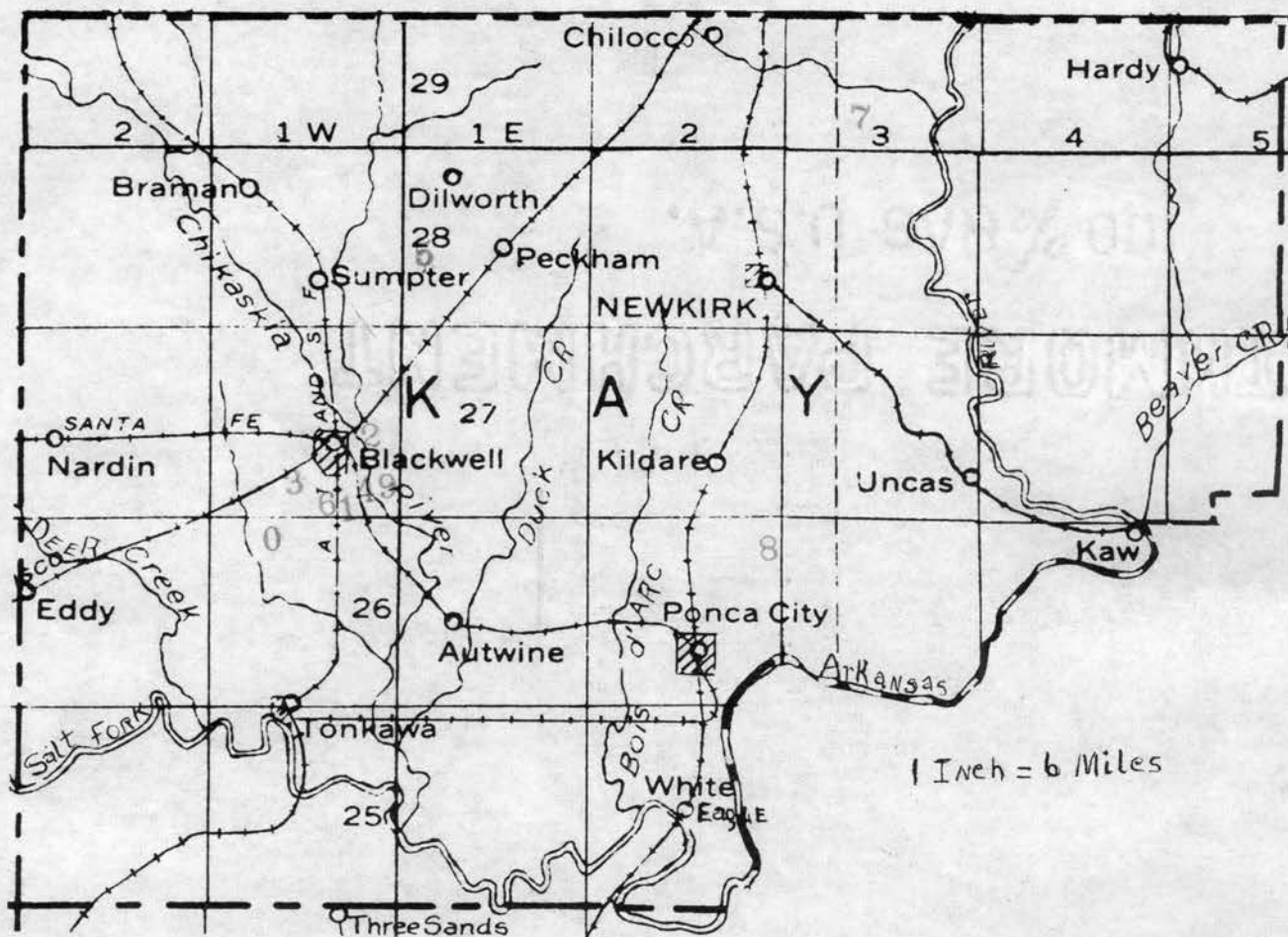
SCROPHULARIACEAE

Conoclea multifida (Michx.) Benth.
Conoclea
Along a stream, Aug. 2, 1945

Thysanotus inaequalis (Walt.) Pennell.
Short-stalked False Pimpernel
Edge of pond, Aug. 2, 1945

Linaria canadensis (L.) Dumort.
Blue or Wild Toad-flax
Sandy clay soil, Apr. 29, 1945

KAY COUNTY



0. *Populus alba*
1. *Populus deltoides*
2. *Salix babylonica*
3. *Salix nigra*
4. *Sapindus Drummondii*
5. *Bumelia languinosa*
6. *Ribes aureum*
7. *Conobea multifida*
8. *Ilysanthes inequalis*
9. *Linaria canadensis*

WILD FLOWERING PLANTS OF KAY COUNTY

SCROPHULARIACEAE

Penstemon cobaea Nutt.
Beard-tongue
Loam soil, June 4, 1945

Veronica arvensis L.
Corn Speedwell
Sandy loam soil, May 6, 1945

Veronica peregrina L.
Purselane Speedwell
Gravelly soil, June 29, 1945

SIMARUBACEAE

Allanthus glandulosa Desf.
Tree of Heaven
Sandy loam soil, Sept. 10, 1944

SOLANACEAE

Datura Stramonium L.
Jimson Weed
Clay waste soil, Sept. 3, 1944

Lycium hallimifolium Mill.
Matrimony Vine
In fence row, Oct. 8, 1944

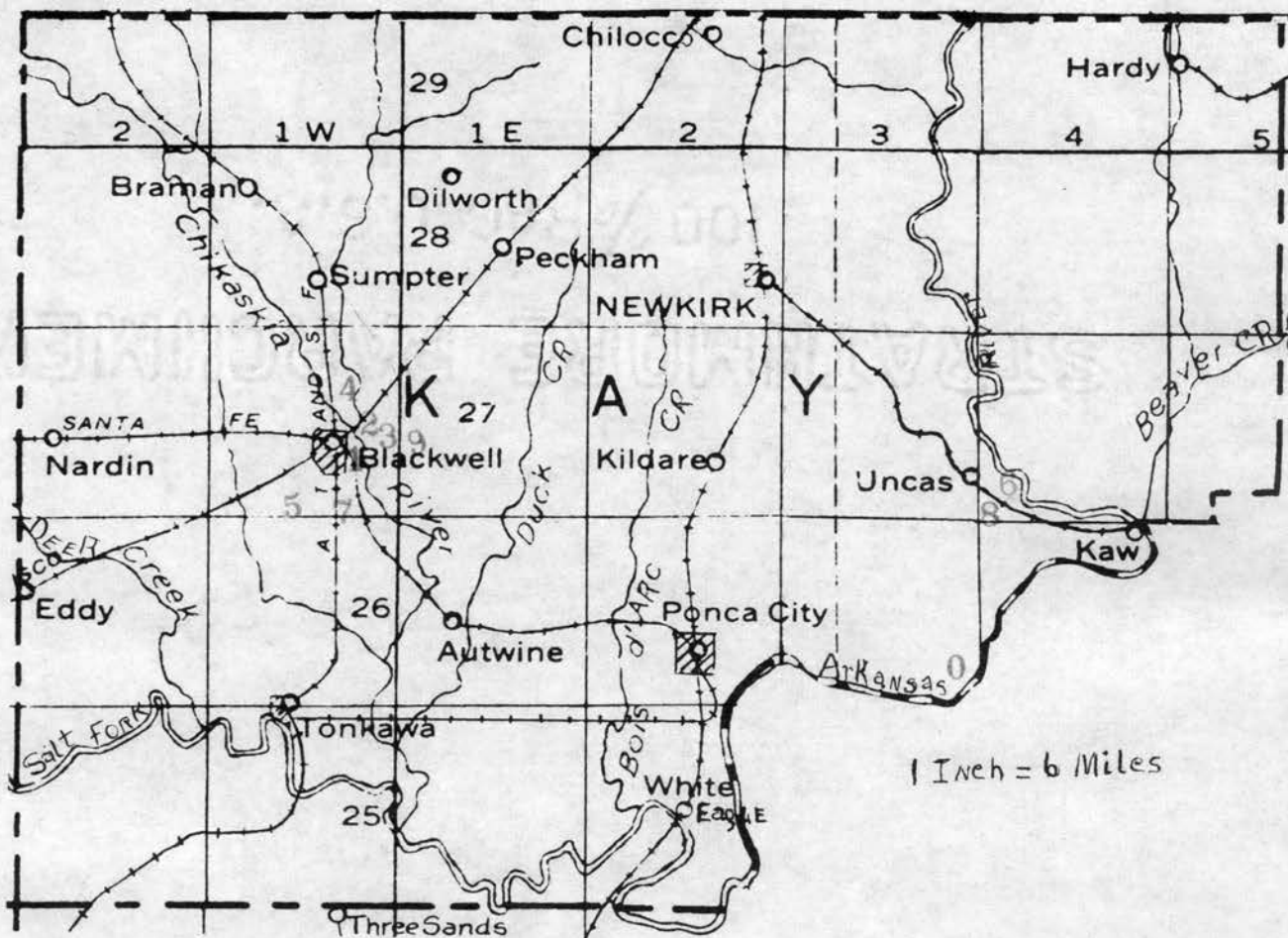
Physalis heterophylla Nees.
Clammy Ground Cherry
Very sandy soil, Aug. 2, 1945

Physalis lobata Torr.
Purple-flowered Ground Cherry
Sandy banks of stream, Apr. 20, 1945

Physalis longifolia Nutt.
Long-leaved Ground Cherry
Sandy loam in woods, Aug. 2, 1945

Physalis pumila Nutt.
Low Ground Cherry
Sandy loam soil, May 23, 1945

KAY COUNTY



0. *Penstemon cobaea*
1. *Veronica arvensis*
2. *Veronica peregrina*
3. *Ailanthus glandulosa*
4. *Datura Stramonium*
5. *Lycium halimifolium*
6. *Physalis heterophylla*
7. *Physalis lobata*
8. *Physalis longifolia*
9. *Physalis pumila*

WILD FLOWERING PLANTS OF KAY COUNTY

SOLANACEAE

Solanum carolinense L.
Horse Nettle
Sandy clay soil, May 23, 1945

Solanum nigrum L.
Deadly Nightshade
Sandy loam soil, Aug. 15, 1944

Solanum rostratum Dunal.
Buffalo Bur
Sandy loam soil, Oct. 14, 1945

TILIACEAE

Tilia floridana Small.
Bass-wood
Sandy loam soil, June 30, 1945

UMBELLIFERAE

Chaerophyllum procumbens (L.) Crantz.
Spreading Chervil
Sandy clay soil, Apr. 10, 1945

Conium maculatum L.
Poison Hemlock
Gravelly alley soil, May 20, 1945

Daucus carota L.
Wild Carrot
Grassy roadside, Aug. 6, 1945

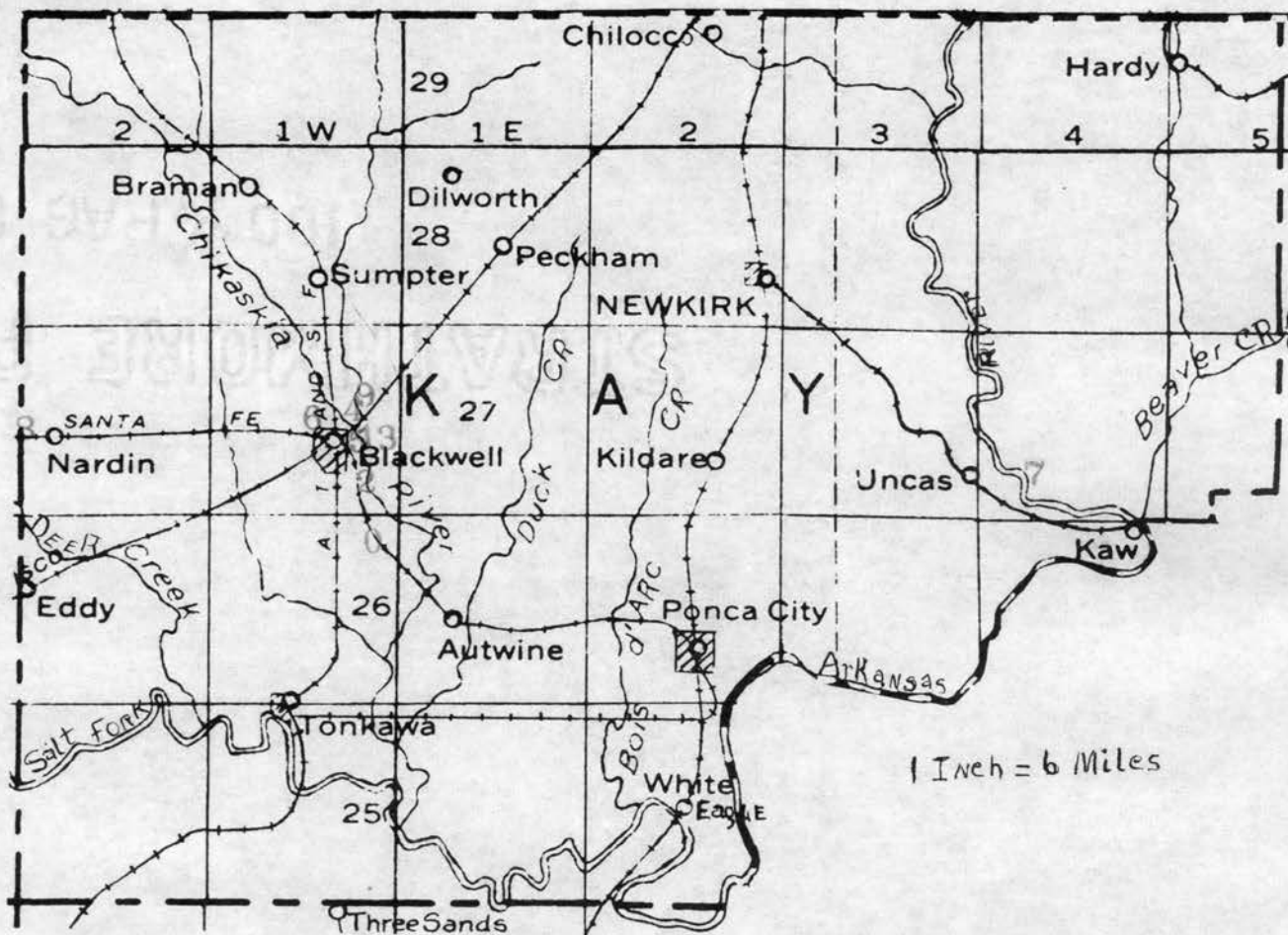
Eryngium Leavenworthii T. & G.
Leavenworth's Eryngo
Limestone soil, Oct. 7, 1945

Lomatium daucifolium (Nutt.)
Cult. & Rose.
Carrot-leaved Parsley
Pasture, March 31, 1946

URTICACEAE

Boehmeria cylindrica (L.) Sw.
False Nettle
Sandy loam river bank, Sept. 17, 1944

KAY COUNTY



0. *Solanum carolinense*
1. *Solanum nigrum*
2. *Solanum rostratum*
3. *Tilia floridana*
4. *Chaerophyllum procumbens*
5. *Conium maculatum*
6. *Daucus carota*
7. *Eryngium Leavenworthii*
8. *Lomatium daucifolium*
9. *Boehmaria cylindrica*

WILD FLOWERING PLANTS OF KAY COUNTY

URTICACEAE

Broussonetia papyrifera Vent.
Paper Mulberry
Loam soil, Apr. 5, 1946

Celtis occidentalis L.
Northern Hackberry
Sandy loam on lawn, Sept. 29, 1945

Celtis reticulata Torr.
Thick-leaved Hackberry
Hillside near river, Sept. 20, 1945

Laportea canadensis (L.)
Wood Nettle
Sandy loam, Aug. 2, 1945

Maclura pomifera (Raf.) Schneider
Osage Orange
Sandy loam, May 15, 1945

Morus alba L.
White Mulberry
Sandy loam in woods, Aug. 2, 1945

Morus rubra L.
Red Mulberry
Sandy clay soil, Apr. 4, 1946

Ulmus americana L.
American Elm
Sandy loam soil, March 3, 1945

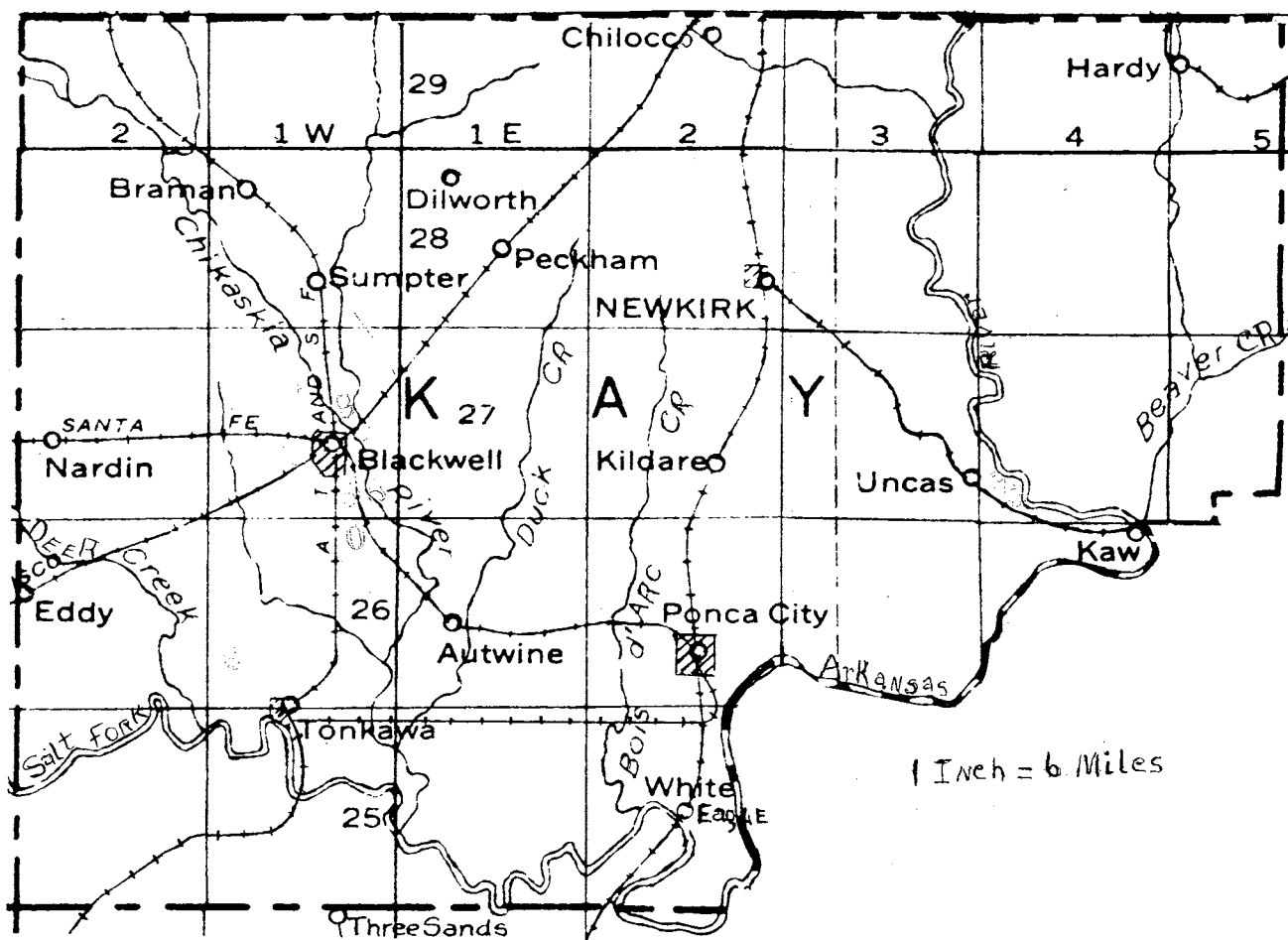
VALERIANACEAE

Valerianella stenocarpa Engelm.
Narrow-celled Corn Salad
Moist sandy soil, May 26, 1945

VERBENACEAE

Verbena bracteata Lag. & Rodr.
Large-bracted Vervain
Clay soil along river, May 21, 1945

KAY COUNTY



0. *Broussonetia papyrifera*
1. *Celtis occidentalis*
2. *Celtis reticulata*
3. *Laportea canadensis*
4. *Maclura pomifera*
5. *Morus alba*
6. *Morus rubra*
7. *Ulmus americana*
8. *Valerianella stenocarpa*
9. *Verbena bracteata*

WILD FLOWERING PLANTS OF KAY COUNTY

VERBENACEAE

Verbena canadensis (L.) Britton.
Large-flowered Verbena
Red clay soil, June 5, 1945

Verbena urticaefolia L.
White Vervain
Rich loam in woods, Sept. 3, 1944

VIOLACEAE

Viola Kitaibeliana Roem. & Schultes.
var. raffinesquii (Greene) Fern.
Field Pansy
Sandy loam soil, Apr. 1, 1945

Viola missouriensis Greene.
Meadow Violet
Rich loam soil, Apr. 1, 1945

VITACEAE

Parthenocissus quinquefolia (L.)
Planch.
Virginia Creeper
Loam soil, Apr. 17, 1946

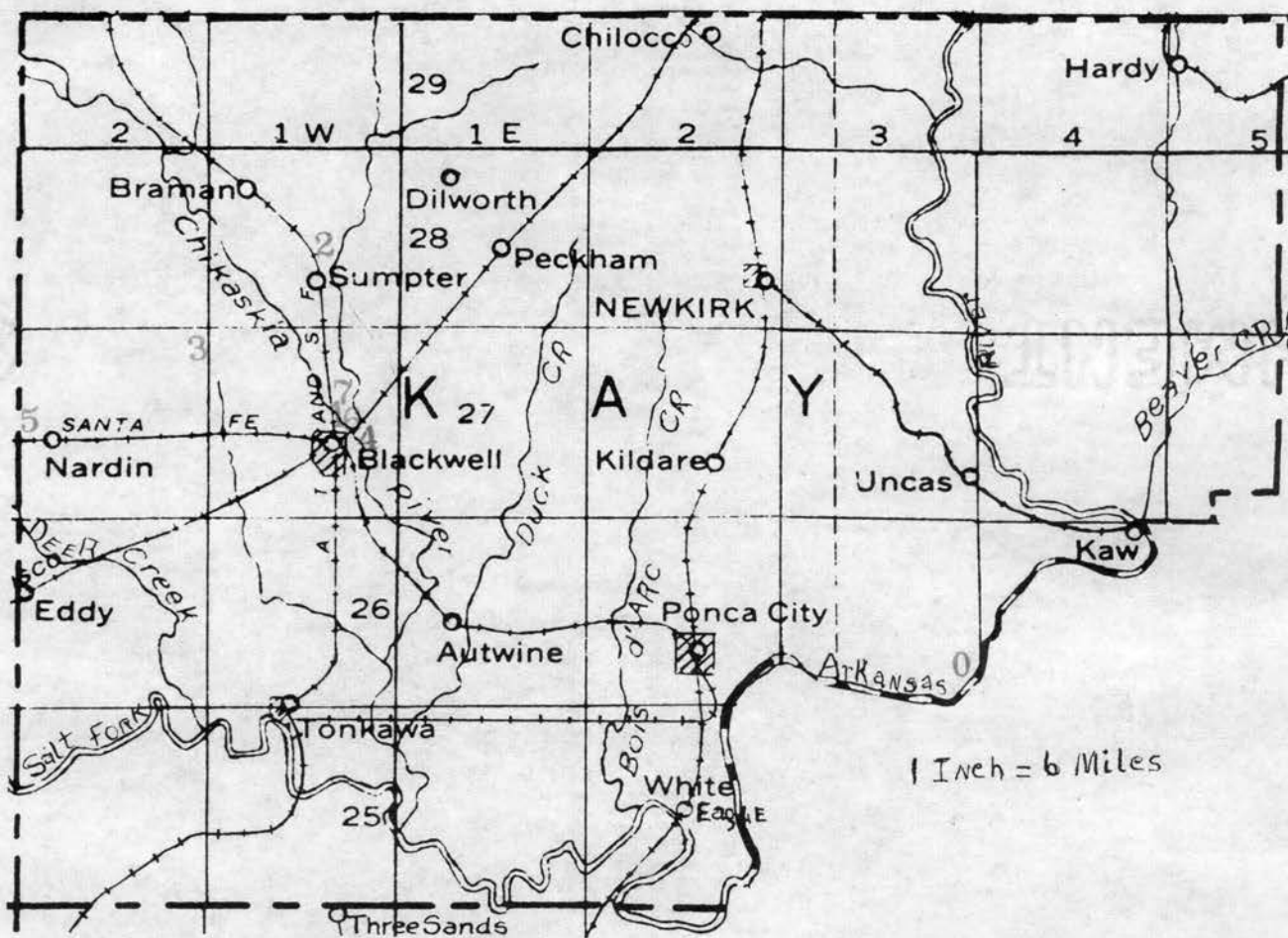
Vitis rupestris Scheele.
Sand or Sugar Grape
Railroad bank, March 31, 1946

Vitis vulpina L.
Sweet-scented Grape.
River bank, Apr. 13, 1946

ZYGOPHYLLACEAE

Tribulus terrestris L.
Puncture Vine
Sandy loam soil, Sept. 10, 1944

KAY COUNTY



0. *Verbena canadensis*
1. *Verbena urticaefolia*
2. *Viola Kitaibeliana*
var. *Rafinesquii*
3. *Viola missouriensis*
4. *Parthenocissus quinquefolia*
5. *Vitis rupestris*
6. *Vitis vulpina*
7. *Tribulus terrestris*

WILD FLOWERING PLANTS OF KAY COUNTY

Species collected in Kay County by G. W. Stevens found in the herbarium at Oklahoma A & M College. All collections were made near Tonkawa or Ponca and unless otherwise indicated in August, 1913. Species and families represented in his collection are arranged in alphabetical order. Families are in full capitals.

Acalypha ostryaefolia Ridd.
 ACANTHACEAE
Acnida tamariscina (Nutt.) Wood.
 AMARANTHACEAE
Ambrosia trifida L.
Ammania coccinea Rottb.
Aristida oligantha Michx.
 ASCLEPIADACEAE
Bromus purgans L.
 CAMPANULACEAE
Campanula americana L.
 CAPRIFOLIACEAE
Carya cordiformis (Wang.) K. Koch.
 CARYOPHYLLACEAE
Cassia chamaechrista L.
 CELASTRACEAE
Celastrus scandens L.
Celtis mississippiensis Bosc.
 CHENOPODIACEAE
Chenopodium hybridum L.
Cocculus carolinus (L.) DC.
 COMPOSITAE
Conoclea multifida (Mx.) Benth.
Datura stramonium L.
Desmodium grandiflorum (Walt.) DC.
Diarrhena americana Beauv.
Eclipta alba (L.) Hassk.
Elymus striata Willd.
Eragrostis hirsuta Michx. (Nees.)
Eragrostis trichodes (Nutt.) Nash.
Eriochloa contracta Hitch.
Erigeron divaricatus Michx.
Eupatorium serotinum Michx.
 EUPHORBIACEAE
Euphorbia corollata L.
Euphorbia maculata L.
Euphorbia Preslii Guss.
Euphorbia serpens H.B.K.
Evonymus atropurpureus Jacq.
Galium circaezans Michx.
Gonolobus laevis Michx. Apr. 1913.
 GRAMINEAE
Gymnocladus dioica (L.) Koch.

G. W. Stevens Collection (Cont.)

JUGLANDACEAE

LABIATAE

- Lactuca canadensis* L.
Lactuca floridana (L.) Gaerta.
Laportea canadensis L.

LEGUMINOSAE

LEANACEAE

- Liatris squarrosa* Willd.

LILLIACEAE

- Lippia lanceolata* Michx.

LOBELIACEAE

- Lobelia cardinalis* L.

LYTHRACEAE

MENISPERMACEAE

- Oenothera biennis* L.

OMAGRACEAE

- Oxalis stricta* L.

OXILIDACEAE

- Panicum dichotomiflorum* Michx.

PHYTOLACCACEAE

- Phytolacca decandra* L.

- Pilea pumila* (L.) Gray

PLANTANACEAE

- Platanus occidentalis* L.

POLYGONACEAE

- Polygonum hydropiper* (L.) Opiz.

- Polygonum pensylvanicum* L.

- Rubus invisus* Bailey

- Rubus villosus* Ait.

ROSACEAE

RUBIACEAE

- Ruellia strepens* L.

RUTACEAE

- Sambucus canadensis* L.

- Sanicula canadensis* L.

SCROPHULARIACEAE

- Setaria lutescens* (Weigel.) F.T. Hubb.

- Setaria viridis* (L.) Beauv.

- Silene antirrhina* L.

- Silphium integrifolium* Michx.

- Silphium laciniatum* L.

- Smilax rotundifolia* L.

SOLANACEAE

- Solidago glaberrima* Martens.

- Symphoricarpos orbiculatus* Moench.

- Teucrium canadense* L.

- Thelesperma trifidom* (Poir.) Brit.

UMBELLIFERAE

URTICACEAE

VERBENACEAE

VIOLACEAE

G. W. Stevens Collection (Cont.)

Viola papilionacea Pursh. var. *pratensis* (Greene) Brainerd

VITACEAE

Vitis cinerea Engelm.

Wolffia columbiana Karst. with *Lemna cyclostasa* (Ell.) Chev.

Uniola latifolia Michx.

Zanthoxylum americanum Mill.

WILD FLOWERING PLANTS OF KAY COUNTY

Plants collected in Kay County by Roger H. Davy. All plants were collected near Ponca in 1939 unless otherwise indicated. Species and families represented in his collection are arranged in alphabetical order. Family names are in full capitals.

ACANTHACEAE

Achillea lanulosa Nutt.

Amorpha canescens Pursh.

ANACARDIACEAE

ASCLEPIADACEAE

Asclepias tuberosa L.

Aster exillis Ell.

Baptisia minor Lehm.

CACTACEAE

Callirhoe alcaeoides (Michx.) Gray

Callirhoe involucrata (T. & G.) Gray

Cassia chamaecrista L.

Cenchrus carolinianus L.

CHENOPODIACEAE

Cirsium undulatum (Nutt.) Spreng.

Cissus ampelopsis Pers.

Clematis Pitcheri T. & G.

COMMELINACEAE

COMPOSITAE

CONVOLVULACEAE

Convolvulus arvensis L.

Convolvulus sepium L.

Croton capitatus Michx.

CRUCIFERAE

CUCURBITACEAE

Cucurbita foetidissima HBK.

Cycloloma atriplicifolium (Spreng.) Coult.

Dalea lanata Spreng.

Delphinium Ajacis L.

Desmodium bracteosum (Michx.) DC.

Dianthera americana L.

Elymus canadensis L. June 8, 1941.

Eragrostis intermedia Hitchc.

Erythronium mesochoreum Knerr. March 24, 1940.

EUPHORBACEAE

Euphorbia corollata L.

GENTIANACEAE

GRAMINEAE

Helianthus annuus L.

Hymenopappus tenuifolius Pursh.

Ipomoea pandurata L.

Jatropha texana Muell. Arg.

KRAMARIACEAE

Krameria lanceolata Torr.

Roger H. Davy Collection (Cont.)

- Jussiaea diffusa* Forsk.
 LABIATAE
 LEGUMINOSAE
Lepidium viriginicum L.
Liatris punctata Hook
 LILIACEAE
Lippia lanceolata Michx.
 LOASACEAE
 LYTHRACEAE
Lythrum lanceolatum Ell.
 MALVACEAE
Malva rotundifolia L.
Mentzelia oligosperma Nutt.
Monarda mollis L.
Monarda punctata L.
Monolepis Nuttalliana (R. & S.) Greene. June 8, 1941.
 NYTAGINACEAE
Oenothera laciniata Hill.
Oenothera oklahomensis (Norton) Leveille
Oenothera rhombipetala Nutt.
Oenothera speciosa Nutt.
 ONAGRACEAE
Opuntia rafinesquii Engelm.
Oxalis stricta L.
 OXILIDACEAE
Oxybaphus linearis (Pursh.) Robinson
Panicum virgatum L.
Paspalum stramineum Nash.
Petalostemum multiflorum Nutt.
Petalostemum purpureum (Vent.) Rydb.
Physalis longifolia Nutt.
 PHYTOLACCACEAE
Phytolacca decandra L.
 PLANTAGINACEAE
Plantago rugelii Dcne.
Psoralea digitata Nutt.
Radicula nasturtium-aquaticum (L.) Britten & Rendle
 RANUNCULACEAE
Rhus copallina L.
Ruellia ciliosa Pursh.
Sabatia campestris Nutt.
Salvia azurea Lam. var. *grandiflora* Benth.
Sanicula canadensis L.
Schrankia uncinata Willd.
Silphium integrifolium Michx.
Silphium laciniatum L.
 SOLANACEAE
Solanum carolinense L.
Solanum nigrum L.
Solidago serotina Ait.
Strophostyles pauciflora (Benth.) Wats.

Roger H. Davy Collection (Cont.)

Teucrium canadense L.

Tradescantia occidentalis (Britton) Smith

Tripsacum dactyloides L.

UMBELLIFERAE

Uniola latifolia Michx.

VERBENACEAE

Verbena canadensis (L.) Britton

Verbena stricta Vent.

VITACEAE

WILD FLOWERING PLANTS OF KAY COUNTY

SPECIES COLLECTED IN KAY COUNTY BY:

Z. C. Ambrose

Arachis hypogaea L. June 18, 1934, Tonkawa.
Lilium tigrinum Ker. June 25, 1934, Tonkawa.
Linaria vulgaris Hill. June 22, 1934, Tonkawa.

L. E. Elledge

Asclepias tuberosa L. July 4, 1930, Ponca City.

H. I. Featherly

Panicum oligosanthos Schult. Ponca City.

Paul Harding

Centaurea cyanus L. June 22, 1939, Ponca City.
Ipomoea longifolia Benth. June 22, 1939, Ponca City.

L. McLean

Eragrostis reptans (Michx.) Nees. Sept. 4, 1936, Tonkawa.

Riddel

Eragrostis cilianensis (All.) Link. Newkirk.

Mary K. Robbins

Polygonum aviculare L. June 5, 1939, Blackwell.

Della Rose Utterback

Ipomoea hederaceae Jacq. Oct. 17, 1936, Ponca City.
Ipomoea purpurea (L.) Lam. Oct. 17, 1936, Tonkawa.
Salvia splendens Ker. Oct. 17, 1936, Tonkawa.

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STRATHMORE PARCHMENT

100% RAG U.S.A.

WILD FLOWERING PLANTS OF KAY COUNTY

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Scientific Names

The families are in full capitals

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