

Transactions of the Kansas State Board of Agriculture, 1873

Section 11, Pages 301 - 330

This annual report from the Kansas State Board of Agriculture includes information on livestock and other agricultural topics. Also covered are county statistics for population, acreages, productions, live stock, and assessed valuation of property. Information on the Ninth Annual State Fair and the Transactions of the Sixth Annual Meeting of the Academy of Science is also included.

Creator: Kansas State Board of Agriculture

Date: 1874

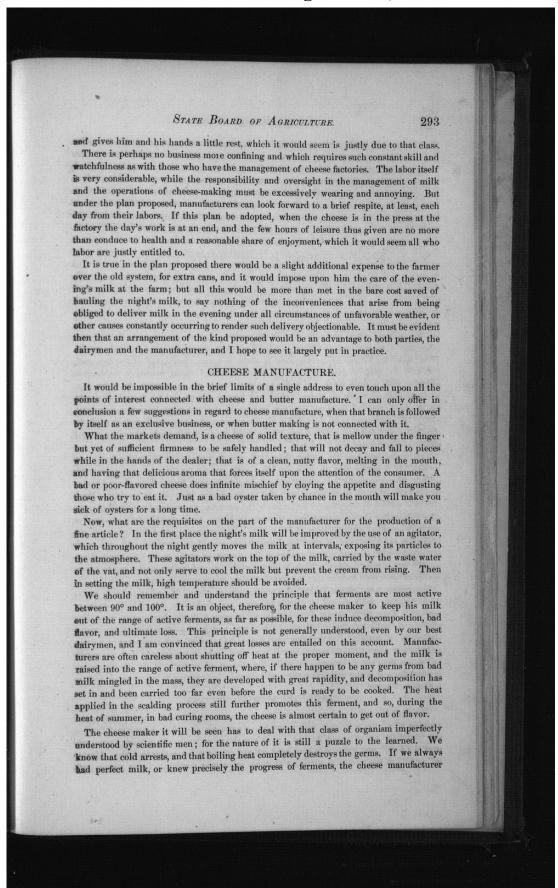
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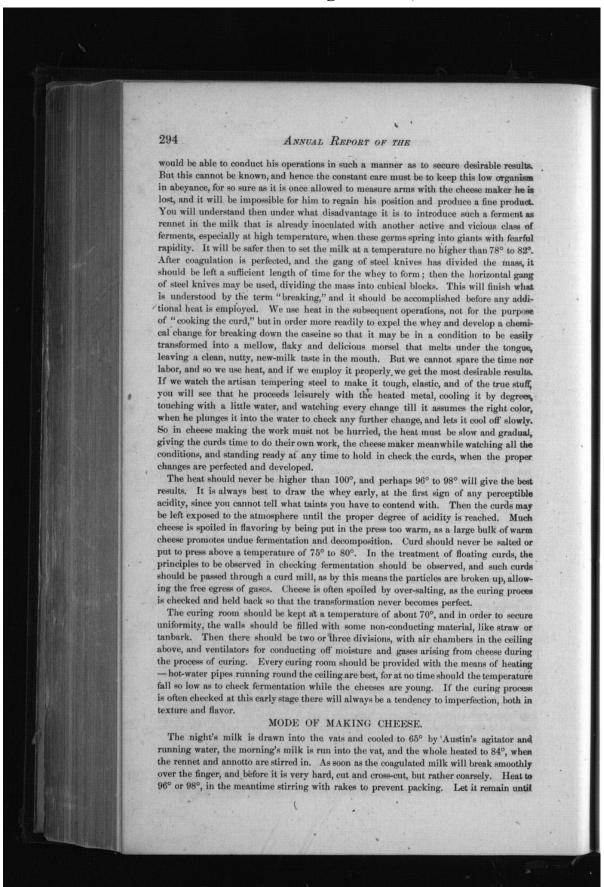
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KANSAS HISTORICAL SOCIETY

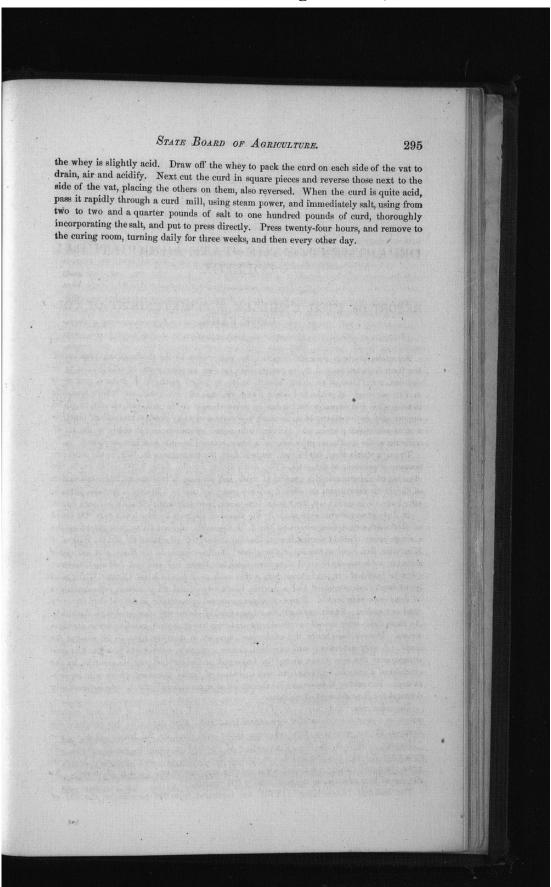




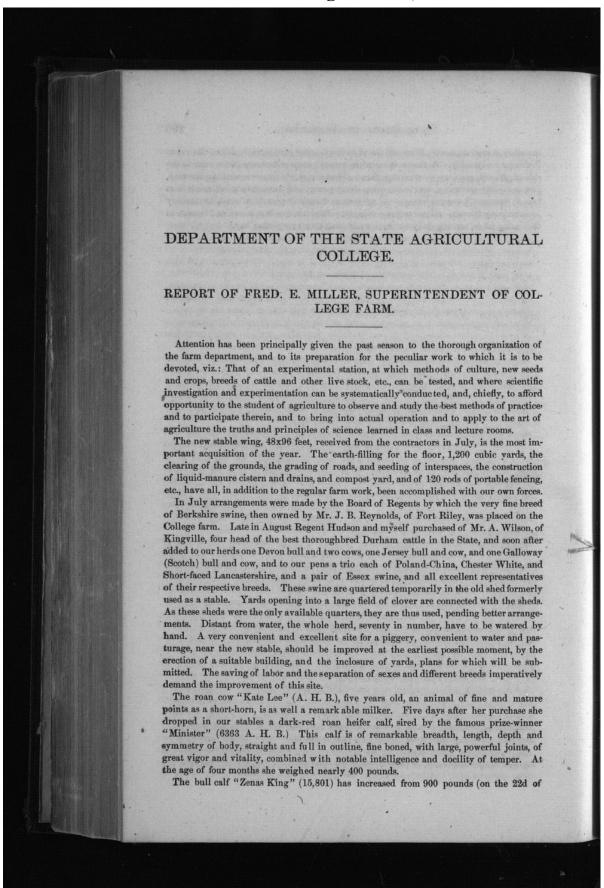




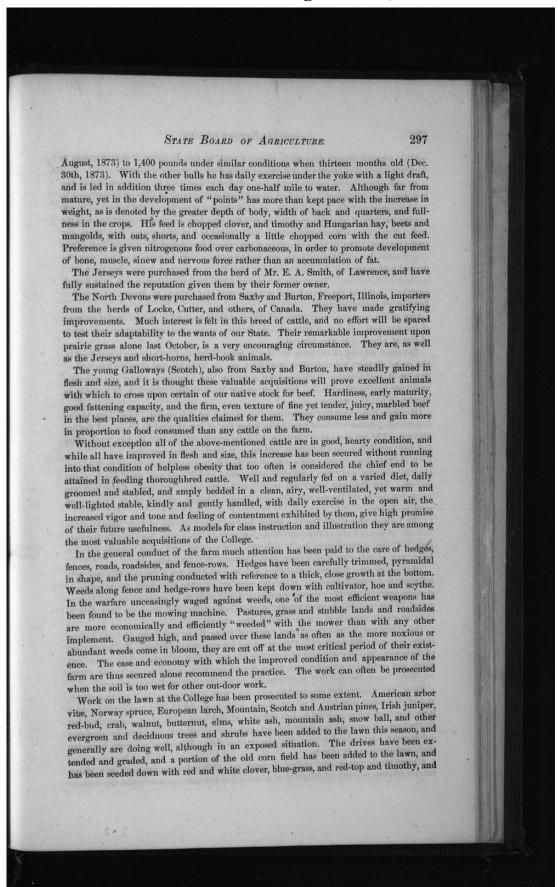




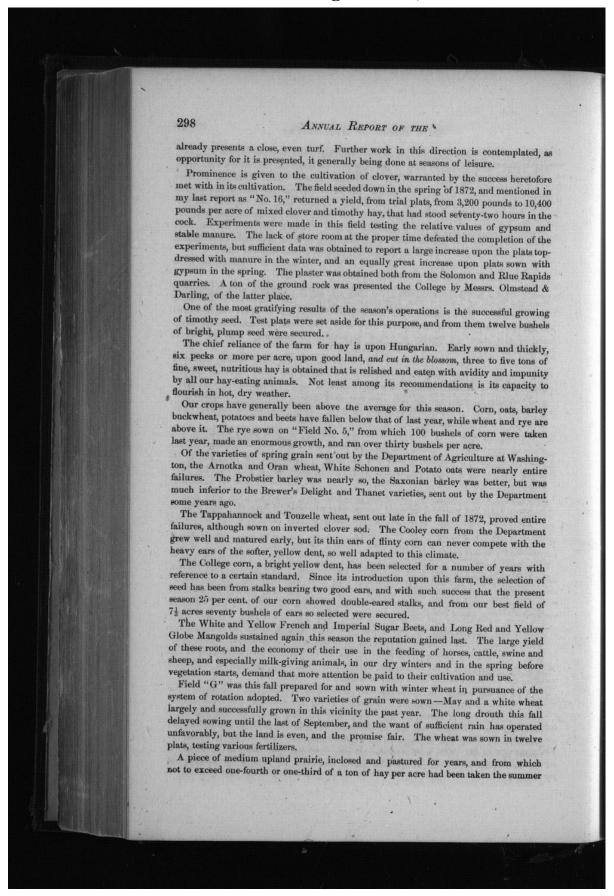




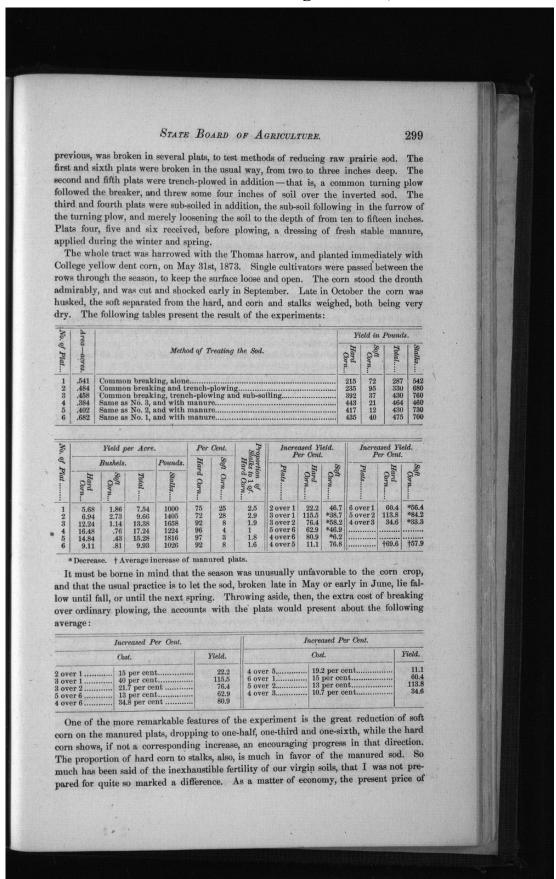




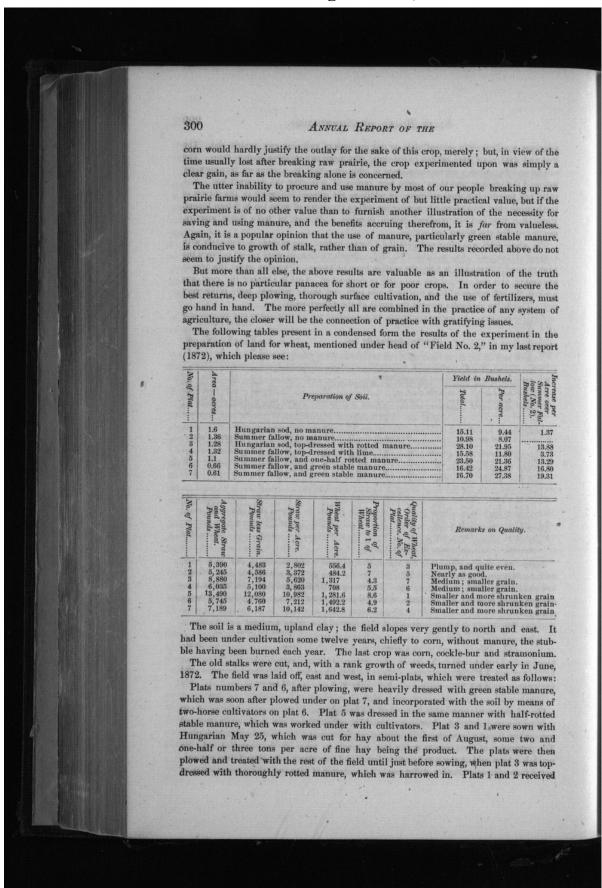




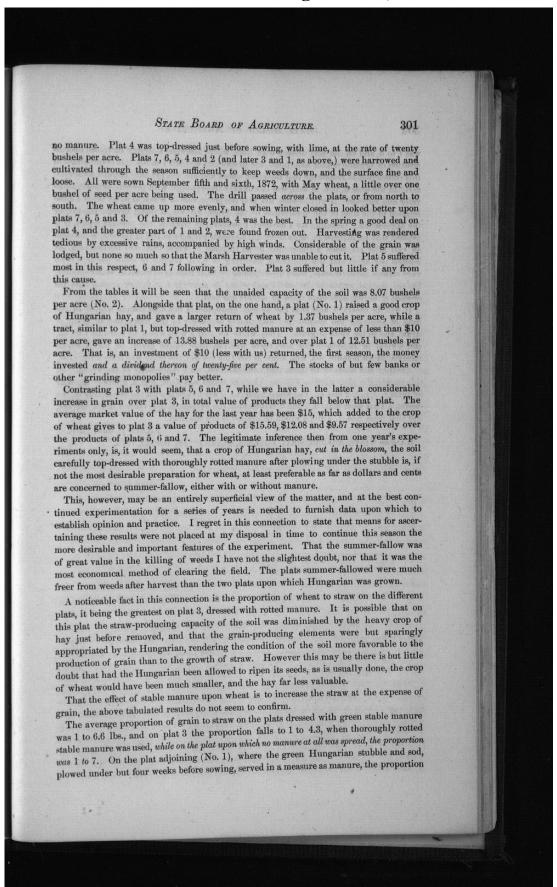




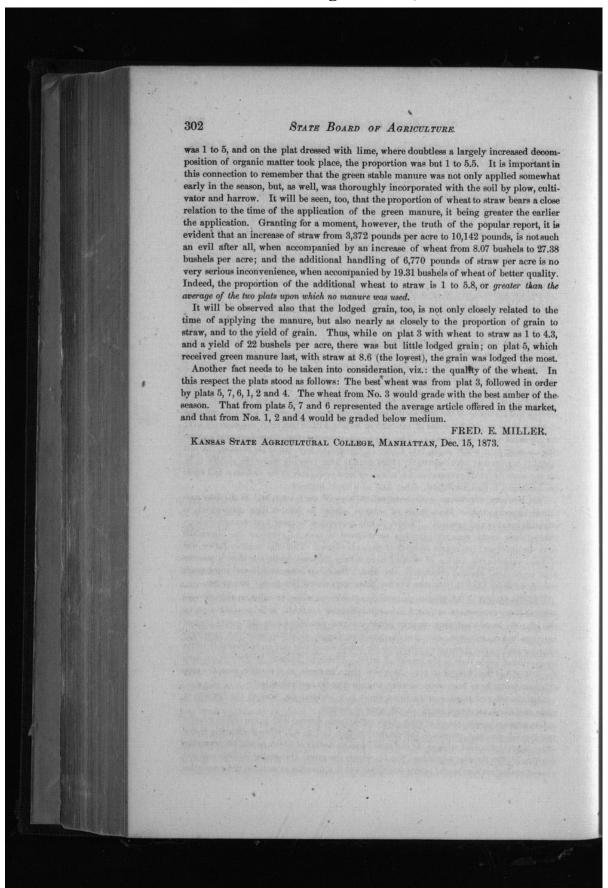




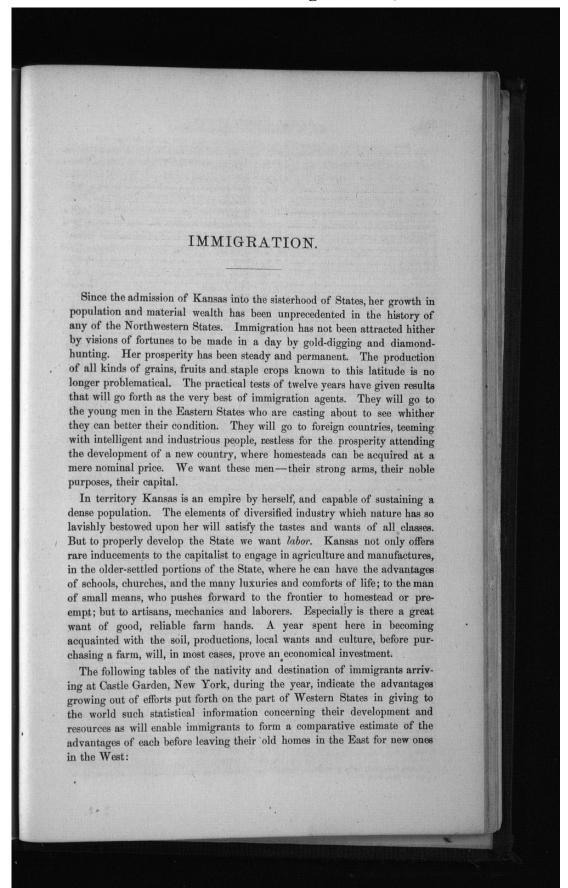




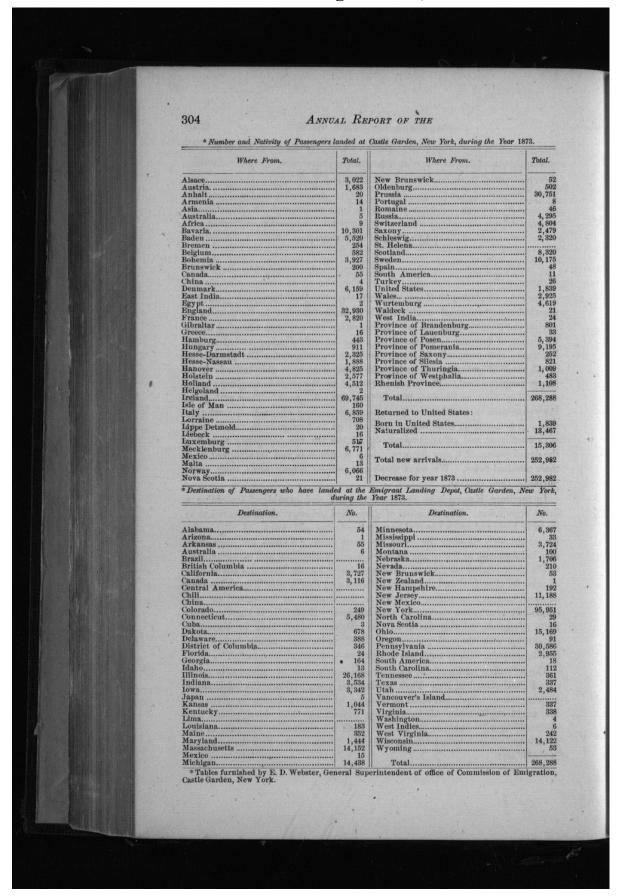




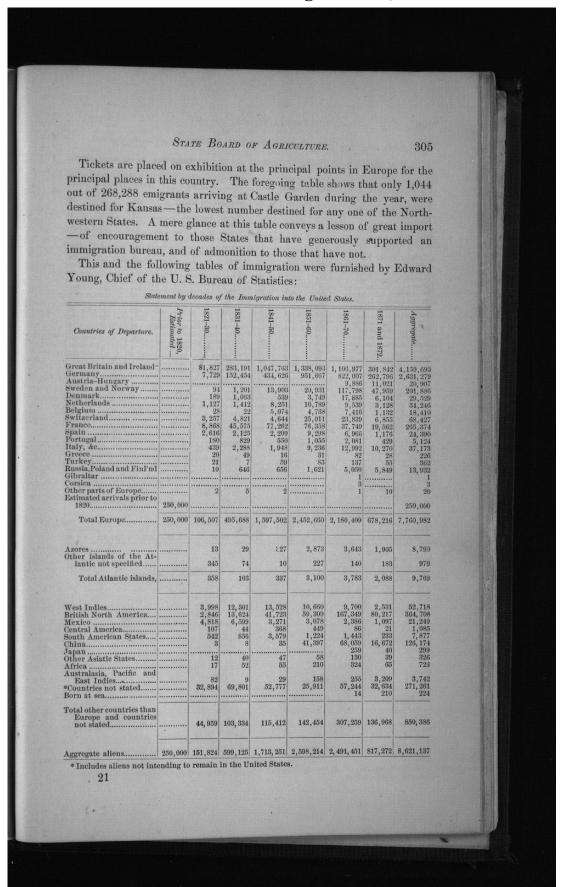




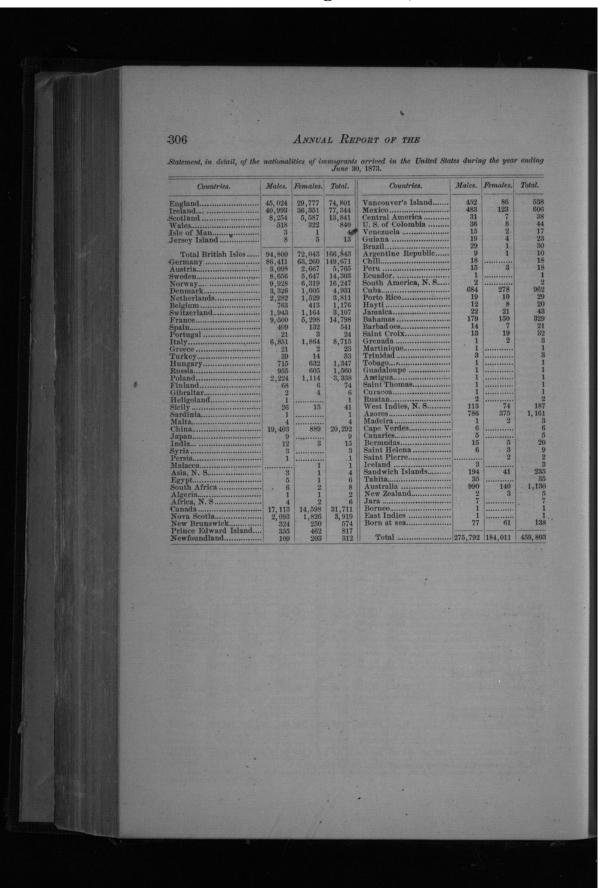




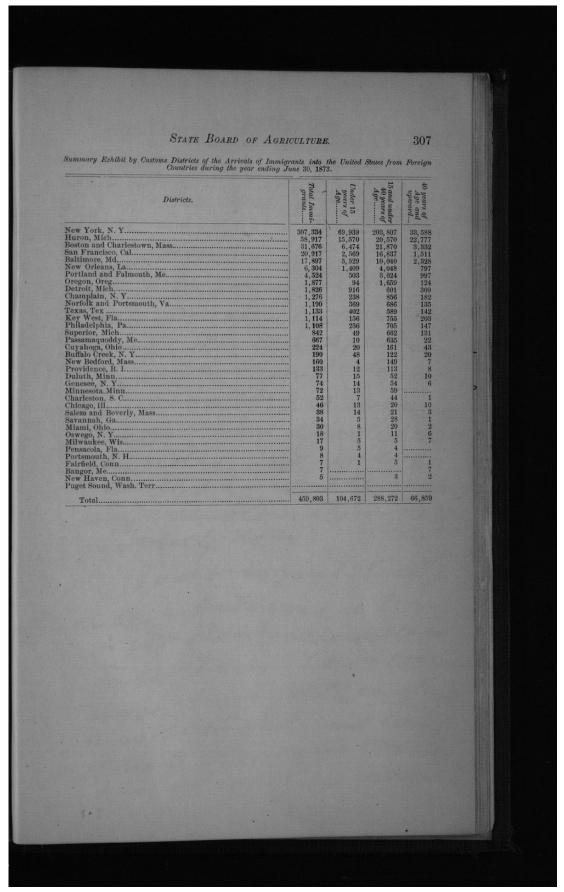




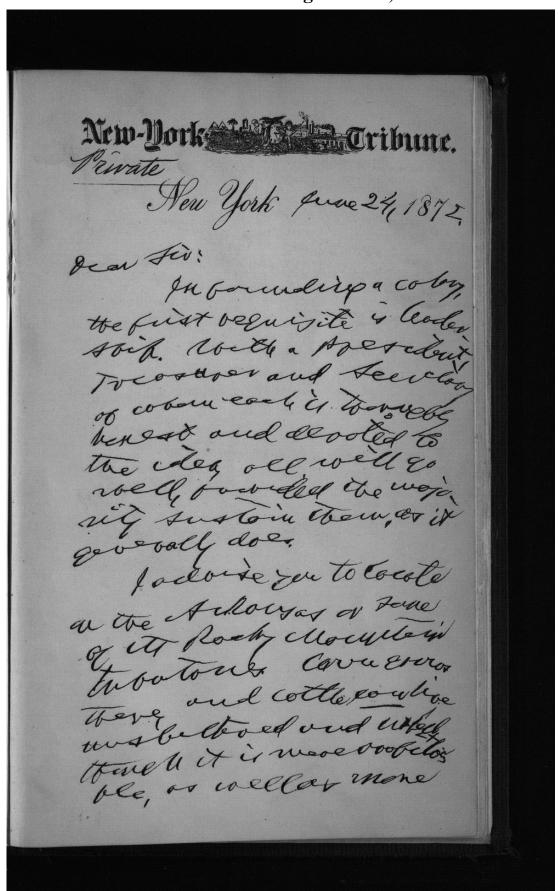




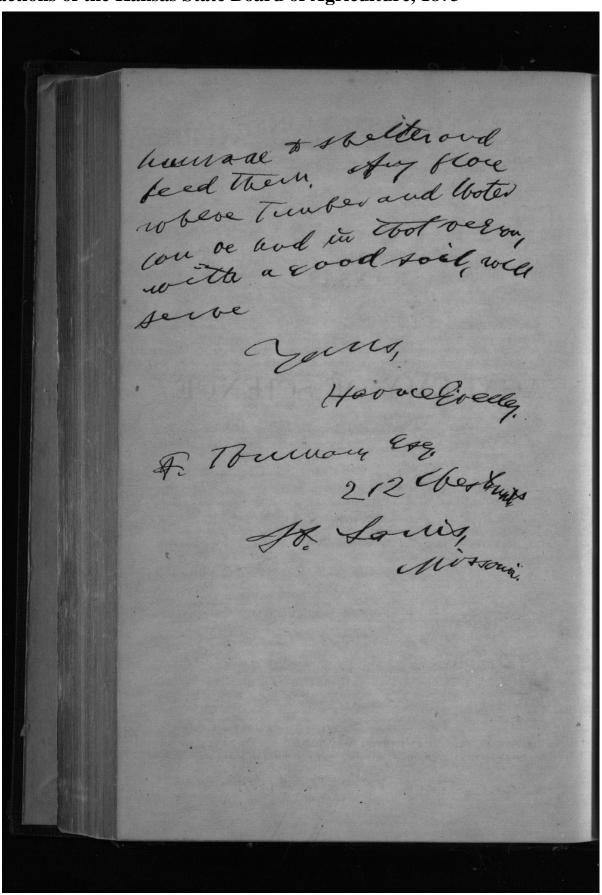




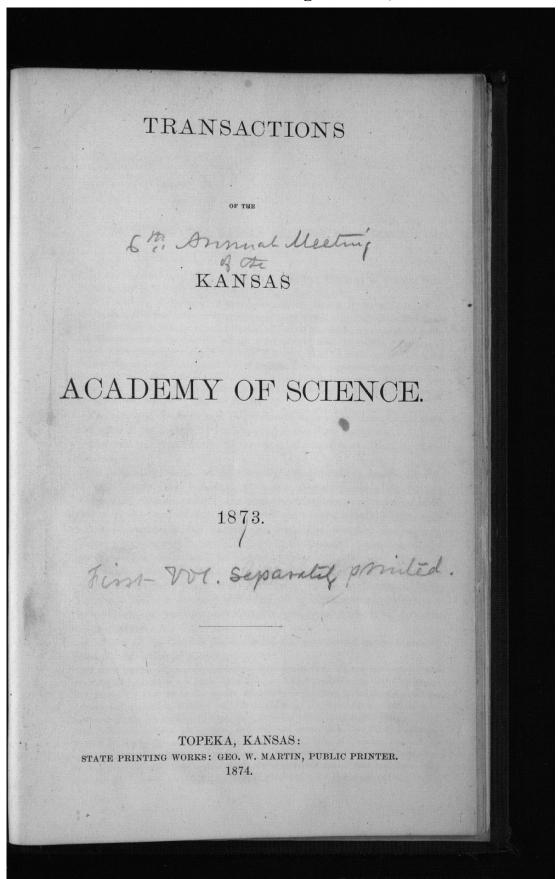




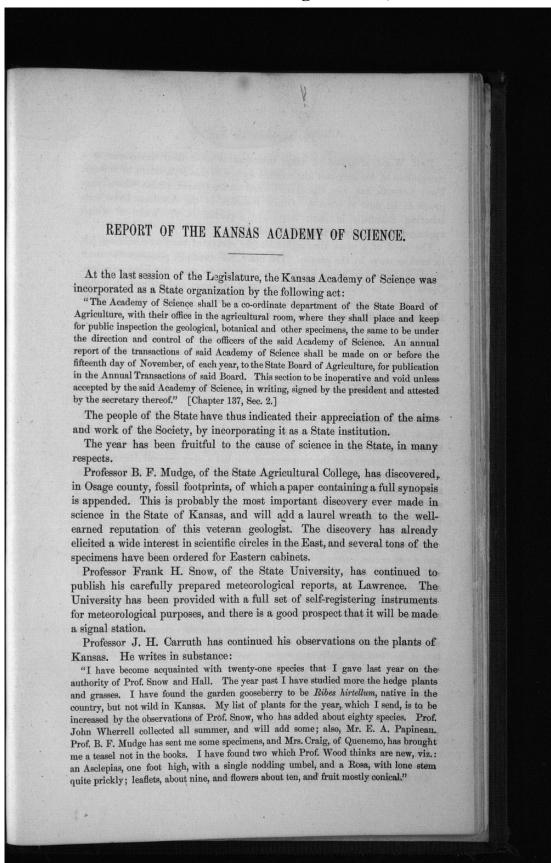




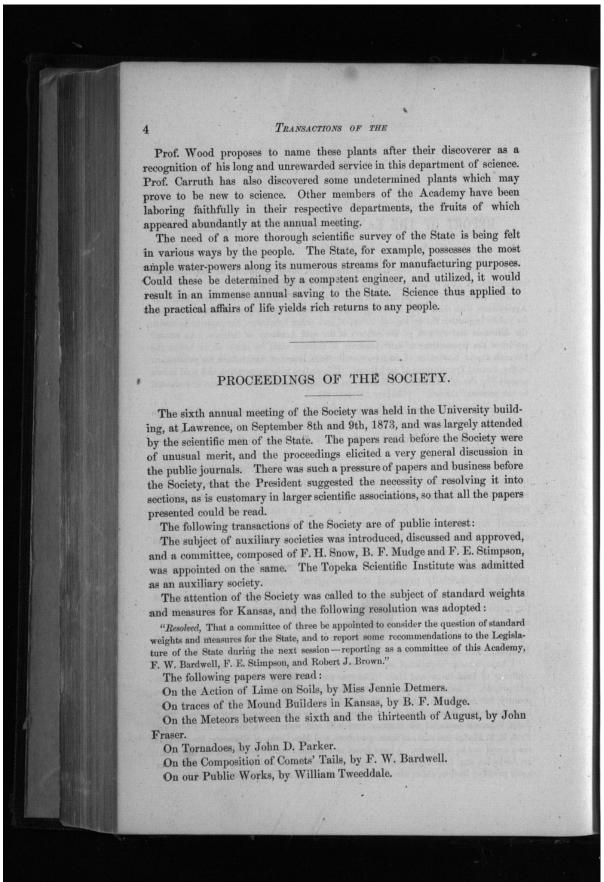




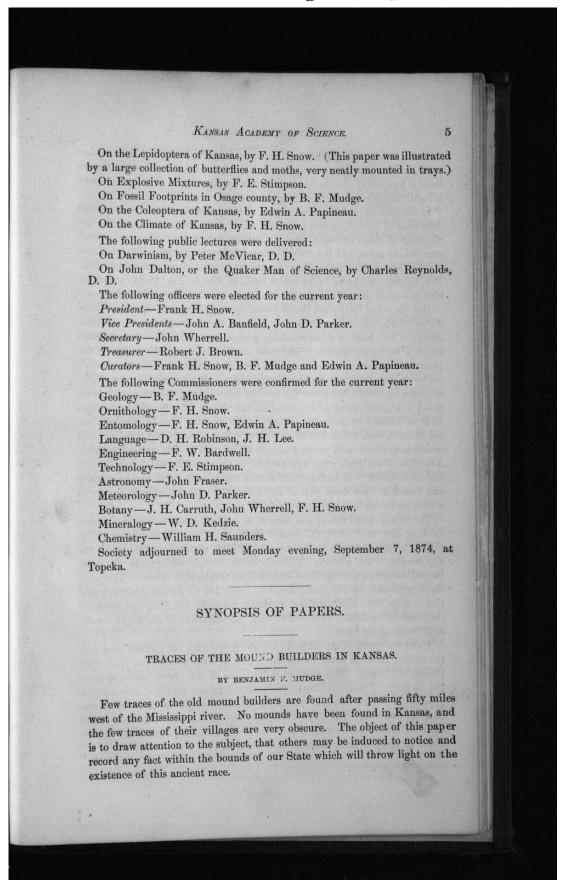




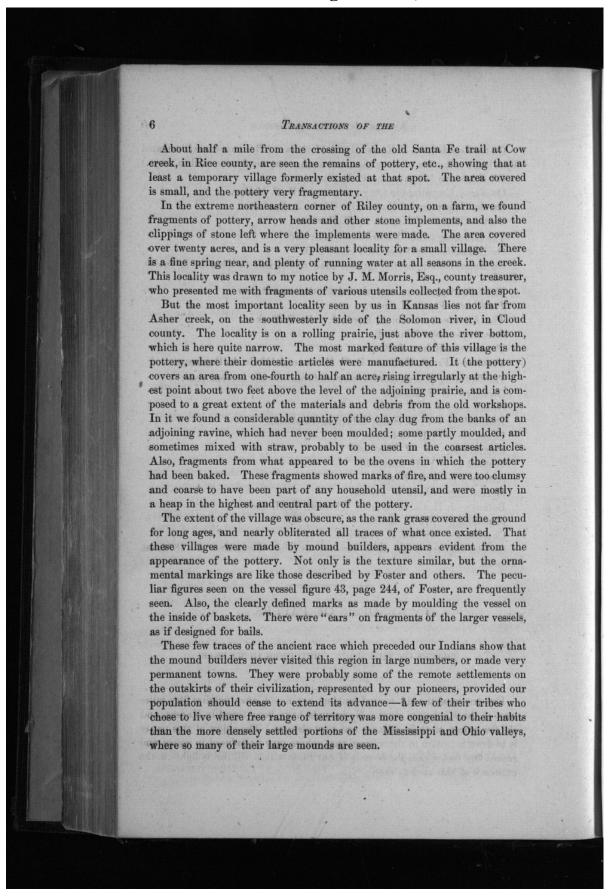




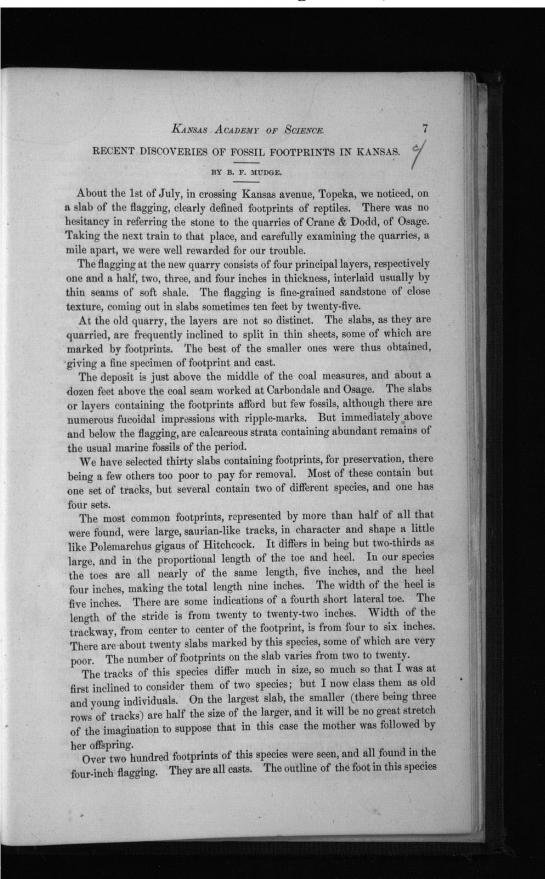




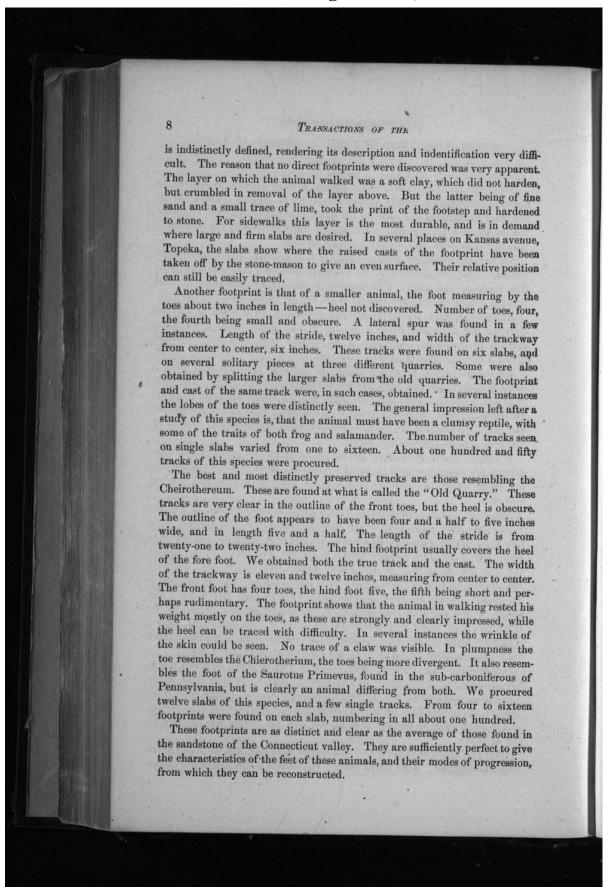




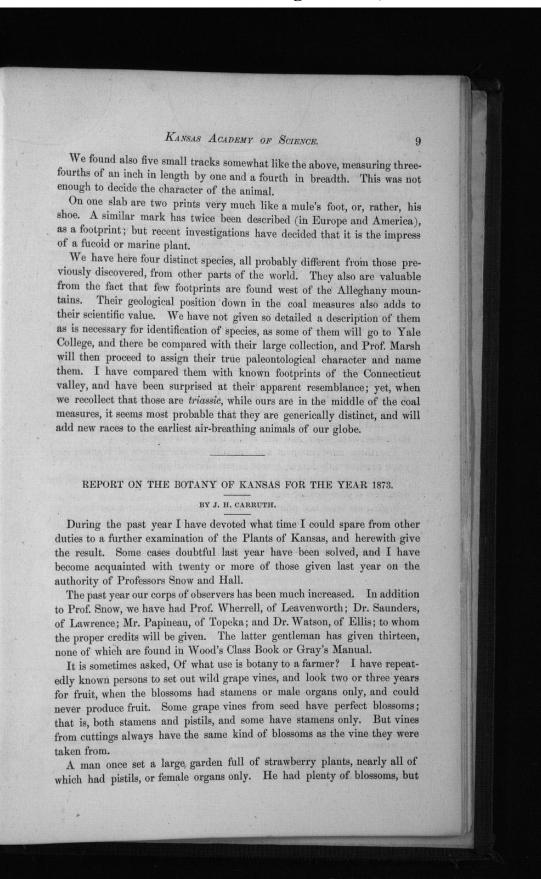














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10 TRANSACTIONS OF THE no fruit. By putting a sufficient number of either perfect or staminate plants among them, he might have had fruit. A lady once cut off the "false blossoms," staminate ones, from her cucumber vines, to make them bear better. She should have known that these were just as necessary as the others. A botanist knows how to keep different varieties of corn, melons, etc., from intermixing and degenerating. Last summer Dr. Wright, of Penn Yan, New York, wrote me that he had seen in a New York paper a statement that a grass or grasses in Kansas never produced seed. He did not believe it, but wished to know whether I knew of any such grass. I replied that every plant in favorable circumstances produced seed, but if the soil, climate or season were unfavorable, and especially if the plant also produced tubers, it might seldom produce seed. From time immemorial (to me), my father had in his garden a dense thicket of artichokes, helianthus tuberosus. They never blossomed till I cultivated some of them in hills like potatoes. Sweet potatoes seldom or never blossom in this climate, but doubtless they do in their native place. Some varieties of common potatoes seldom or never blossom; others blossom, but produce no seed; while others produce seed abundantly. I have noticed that those varieties which have "balls" have poor, watery potatoes. A patch of wild rice in a wet basin near Osawatomie sent up no flower stalks for seven years, and then it had them twelve feet high. The three most common and valuable prairie grasses of Kansas, some years produce only leaves, except in some favored spots. Buffalo grass, so called in Miami county, seldom or never blossoms, but doubtless it does further west. Some pear trees and plum trees blossom abundantly, but never bear fruit; probably from a lack of something in the soil that is needed to perfect the Plants not in the Class-book nor Manual, are marked thus: * immigrants thus.+ ADDITIONS TO THE CATALOGUE OF THE PLANTS OF KANSAS FOR THE YEAR 1873. RANUNCHLACEAE. Dentaria, Pepper Root. Clematis, Virgin's Bower. D. laciniata. Wakarusa C. Pitcheri. One specimen. Cardamine, Bitter Cress. Anemone, Wind Flower. C. rhomboidea. Leavenworth. Wherrell. A. patens or Nuttalliana. Western Kansas. Snow Arabis, Rock-cress. Ranunculus, Crowfoot. A. Canadensis, Vinland. R. recurvatus. Lawrence and Leavenworth. Snow. Brassica and Sinapis, Cabbage and Mustard. R. fascicularis. Wakarusa woods. Snow. † B. arvensis. Field Mustard. Snow. Lepidium, Peppergrass. NYMPHEACEAE. * L. intermedium. Lawrence. Saunders. Nymphaea, White Water Lily. Vesicaria, Bladder-pod. N. odorata. Southern Kansas. Prof. Mudge. * V. Fendleri. Ellis. Watson. FUMARIACEAE. CAPPARIDACEAE. Corydalis. Cleome, Spider Flower. C. aurea, variety Flavula. Lawrence. Snow. * C. integrifolia. Leavenworth. T. E. Wilcox, U. C. montana. Lawrence, Snow. Topeka, Papineau. S. A.; also Topeka, Papineau. CRUCIFERAE. VIOLACEAE. Viola, Violet.

V. sagittata. Lawrence, one specimen. Snow. Nasturtium, Water-cress N. sylvestre. Lawrence, rare.



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KANSAS ACADE	MY OF SCIENCE.	
CARYOPHYLLACEAE.	Myriophyllum, Water Milfoil.	4 3 3
Agrostemma, Corn Cockle.	M. scabratum. Lake four miles from Lawrence.	
† A. Githago. Topeka. Papineau.	CACTACEAE. Opuntia, Prickly Pear.	
Cerastium, Mouse-ear Chickweed. C. nutans. Lawrence. Not abundant.	*O. vulgaris, var. Rafinesquii. Lawrence. Saun-	
Arenaria, Sandwort.	ders.	
* A. stricta. Ellis. Watson.	SAXIFRAGACEAE.	
MALVACEAE. Callirrhoe, Mallow.	Heuchera, Alum Root. H. hispida. Lawrence. Snow. Also Leavenworth.	
* C. involucrata. Salina; also Russell Co. Snow.	Wherrell.	
Malvastrum.	Umbelliferae.	
* M. coccineam. Abundant in Central and Western Kansas. Snow.	Cicuta, Water Hemlock. C. maculata. Lawrence.	
GERANIACEAE.	Cryptotaenia, Honewort.	11300
Geranium, Crane's Bill.	C. Canadensis. Lawrence. Snow.	100
G. maculatum. Leavenworth. Wherrell.	Æthusa, Fool's Parsley. Æ. cynapium. Lawrence. Snow.	11000
BALSAMNACEAE. Impatiens, Touch-me-not.	Compositae.	
I. fulva. Topeka. Papineau.	Liatris.	
POLYGALACEAE.	L. cylindracea. Lawrence. Saunders. Aster, Aster	
* P. alba. Ellis. Watson.	A. sagittifolius. Lawrence. Saunders.	
LEGUMINOSAE.	Diplopappus, Double-bristled Aster.	
Vicia, Vetch.	*D. ericoides. Ellis. Watson. Solidago, Golden-rod.	
*V. linearis. Common at Lawrence. Snow. Lathyrus, Sweet Pea, etc.	S. virgata. Miami county.	
*L. linearis. Ellis. Watson.	S. speciosa, var. rigidiuscula. Topeka. Papineau,	
[Are these two the same?]	Heterotheca. H. scabra. Lawrence, one specimen. Snow.	
Trifoliam, Clover. T. procumbens. Yellow Clover. Topeka, Papineau.	Eclipta.	
†T. arvense. Topeka, one specimen. Papineau.	E. procumbens, erecta and alba, var. brachypod.	11.00
Astragalus, Milk Vetch.	Lawrence. Saunders. Silphium, Rosin-weed.	
*A. multiflorus. Ellis. Watson. Oxytrophis.	S. laevigatum. Lawrence. Common.	
*O. Lambertii. Western Kansas. Snow.	*S. asperrimum. Lawrence. Snow.	
Glycyrrhiza, Licorice. *G. lepidota. Lawrence. Also sent from Marshall	Heliopsis, Ox-eye. H. laevis. Type of which var. scabra is more com-	
county by W. J. McLaughlin. Abundant in alkali	mon. Lawrence. Saunders.	
lands. Snow.	Echinacea, Purple Cone-flower.	
*H. Jamesii. W. Kansas. Sent by Prof. Mudge.	*E. atrorubens. Lawrence. Occasional. Rudbeckia, Cone-flower.	
Rosaceae.	R. triloba. Lawrence.	
Pyrus, Apple, etc.	R. hirta. Lawrence. Snow.	
P. angustifolia. Lawrence. Snow. I think I found the same, but could hardly make it agree.	*L. pulcherrima, var. of columnaris. Lawrence.	
Rosa, Rose.	Saunders.	
*R Lawrence. Referred to last year		
as a variety. Mr. Wood thinks it distinct. Stem strigous, 18 high; leaflets, mostly, 9; flowers	H. tracheliifolius. Lawrence. Saunders. Gutierezia.	64
corymbous, about 10; fruit mostly conical.	*G. Euthamiae? [T. and A.] Mr. Wood says	
LYTHRACEAE.	Genus certain, species doubtful—rag pappus uniformly wanting. He suggests the name	
Cuphea, Cuphea. C. viscosissima. Near Osawatomie.	G. heteropappus. Roadsides. Eudora and Paola.	
ONAGRACEAE.	Fifteen inches high, branching above; flowers	
Enothera, Evening Primrose.	bright yellow.	
*Œ. lavendulaefolia. Ellis. Watson.	Cirsium, Thistle. C. Virginianum. Lawrence. Saunders.	
*G. virgata. Lawrence. Snow. Probably the same	Krigia, Dwarf Dandelion.	
as G. linifolia given last year from Eaton.	K. Virginica. Lawrence, one specimen. Snow.	18 18 18
Ludwigia, Bastard Loose-strife. L. alternifolia. Leavenworth. Wherrell.	Hieracium, Hawkweed.	
L. palustris. Lawrence. Saunders.	H. Gronovii. Lawrence. Snow. H. paniculatum. Lawrence. Snow.	



PLANTAGINACEAE. Plantago, Plantain. P. lanceolata. Lawrence, one place; also Topeka. Papineau. OROBANCHACEAE. Comopholis, [Wallroth]; Philipea. [Don.] Squaw Root. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. SCROPHULARIACEAE. Linavia, Tond-flax. Linavia, Tond-flax. Linavia, Tond-flax. Pentstemon, Beard-tongue. P. grandiflorus, Russell Co., abundant. Snow. Also Lawrence. Saunders. P. pubescens. Various places. The P. Digitalis of last year. C. multifida. Osawatomie. Also Lawrence. Snow. Veronica, Speedwell. V. Anagallis. One place seven miles southwest of Lawrence. Castilleja, Painted Cup. Castillej	A STATE OF THE STA		
LOBELIACRAE. Lobolia, Lobelia. Laspicata. Topoka, race. Paphneau. CAMPATULACRAE. Specularia. *S. leptocarpa. Lawrence, one specimen. Snow. PLASTAGINACRAE. Plantago, Plantalia. P. lanceolata. Lawrence, one place; also Topoka. GROBANCHACHAE. Compobelia, (Wallrotta); Philipea. [Den.] Squaw Root. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. Schopttlaharacrae. Lauria, Tond-fax. *L. vulgaris. Rond-side, Lawrence. Perlatenon, Beard-to-ougue. P. grandiforas, Russell Co., abundant. Snow. Also Lawrence. Saunders. C. mobbos. C. multifida. Osawatomie. Also Lawrence. Snow. Perlatenon, Convolve. C. multifida. Osawatomie. Also Lawrence. Snow. C. multifida. Osawatomie. Also Lawrence. Snow. C. multifida. Osawatomie. Also Lawrence. Snow. Elis. Watson. Lahlatae. Schomogeromum, Bart-seed. V. Anagallis. One place syen miles sout of Lawrence. Sylvatica. Lawrence, one specimen. Snow. S. Spivatica. Lawrence, one specimen. Snow. S. Schomogeromum, Bart-seed. F. Edowakii. Ellis. Watson. Convolvetulacrae. Convolvetulacrae. E. Redowaki. Ellis. Watson. Convolvetulacrae. E. Redowaki			
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LOBELIACRAE. Lobolia, Lobelia. Laspicata. Topoka, race. Paphneau. CAMPATULACRAE. Specularia. *S. leptocarpa. Lawrence, one specimen. Snow. PLASTAGINACRAE. Plantago, Plantalia. P. lanceolata. Lawrence, one place; also Topoka. GROBANCHACHAE. Compobelia, (Wallrotta); Philipea. [Den.] Squaw Root. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. Schopttlaharacrae. Lauria, Tond-fax. *L. vulgaris. Rond-side, Lawrence. Perlatenon, Beard-to-ougue. P. grandiforas, Russell Co., abundant. Snow. Also Lawrence. Saunders. C. mobbos. C. multifida. Osawatomie. Also Lawrence. Snow. Perlatenon, Convolve. C. multifida. Osawatomie. Also Lawrence. Snow. C. multifida. Osawatomie. Also Lawrence. Snow. C. multifida. Osawatomie. Also Lawrence. Snow. Elis. Watson. Lahlatae. Schomogeromum, Bart-seed. V. Anagallis. One place syen miles sout of Lawrence. Sylvatica. Lawrence, one specimen. Snow. S. Spivatica. Lawrence, one specimen. Snow. S. Schomogeromum, Bart-seed. F. Edowakii. Ellis. Watson. Convolvetulacrae. Convolvetulacrae. E. Redowaki. Ellis. Watson. Convolvetulacrae. E. Redowaki		12 Transactio	NS OF THE
L apicata. Topoka rare. Papineau. CAMPANILACEAE. Specularia. *S. leptocarpa. Lawrence, one specimen. Snow. PLANTAGINACCEAE. Plantago, Plantain. P. lanceolata. Lawrence, one place; also Topoka. Papineau. OROBANCHACEAE. Compobals, [Walitoth]; Philipea. [Don.] Squaw Root. Root. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. Sencolitulantactae. Linavia, Tond-dax. *Lovaleria. Rood-dax. *P. grandianton. Beard-dongus. P. grandianton. Beard-dongus. P. grandianton. Beard-dongus. P. probecens. Various places. The P. Digitalis of last year. C. multifida. Osawatomic. Also Lawrence. P. pobecens. Various places. C. multifida. Osawatomic. Also Lawrence. Outlingia, Painted Cop. *C. palita. Ellis. Watson. Laurence. Contiligia, Painted Cop. *S. Drummondii. Lawrence, rare. Snow. S. laterifora. Sent from Marshall Co. by S. D. Mank. Snow. S. Stratifica, Scull-cap. *S. Drummondii. Lawrence, rare. Snow. S. laterifora. Sent from Marshall Co. by S. D. Mank. Snow. S. Sylvatica. Lawrence, one specimens. Snow. J. Sylvatica. Lawrence, one specimens. Snow. J. Sylvatica. Lawrence, one specimens. Snow. J. Sylvatica. Lawrence, one specimens. Snow. S. Sylvatica. Lawrence, one specimens. Snow. J. Sylvatica. Lawrence, one specimens. Snow. Accepta, Milliw ved. A. Sullivantti. Wakarusa bottom. More social than other species. Also and the State Stat			
L spicata. Topoka rare. Papineau. CAMPANULACHAE. Specularia. *S. leptocarpa. Lawrence, one specimen. Snow. PLANTAGUSACHAE. Planteoplata. Lawrence, one place; also Topeka. Papineau. OROBANCHACHAE. Chospholtz, (Wallroth); Philipea. [Don.] Squaw Root. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. Schopellathia. *L valgaris. Rond-side, Lawrence. Pentataono, Beard-hougue. P. grandiforas, Russell Co., abundant. Snow. Also Lawrence. Saunders. C. multifida. Osawatonic. Also Lawrence. Sover. C. multifida. Scall-cap. *S. plantaris. Condesse specimen. Snow. S. laterifora. Sent from Marhall Co. by S. D. Mank. Snow. Sachys, Hedge Nettle. S. palustris. One place five miles east of Lawrence. S. sylvatica. Sentinger. *Bornaparmon, Barball Co. by S. D. Mank. Snow. S. sylvatica. Nutt. S. Nattallians. Shuttley.] Bornaparmon, Barball Co. by S. D. Mank. Snow. S. sylvatica. Sentinger. *Bornaparmon, Barball Co. by S. D. Mank. Snow. S. sylvatica. Sentinger. *Bornaparmon, Barball Co. by S. D. Mank. Snow. S. sylvatica. Sentinger. *Bornaparmon, Barball Co. by S. D. Mank. Snow. S. sylvatica. Sentinger. *Bornaparmon, Barball Co. by S. D. Mank. Snow. S. sylvatica. Sentinger. *Bornaparmon. Squarmon, Lizard-tall. Scenus. Lawrence. Sentinger. Ascipta, Milkweed. A. Sellivantil. Wakarnes bottom. More social than other species. A. Vaseglo, One place. *A. ————————————————————————————————————			
Specularia. *S. leptocarpa. Lawrence, one specimen. Snow. PLANTAGINACEAE. Plantago, Plantain. P. lanceolata. Lawrence, one place; also Topck. Papineau. OROBANCHACEAE. Compoblis, [Wallroth]; Philipea. [Don.] Squaw Root. C. Ludoviciana. From W. J. McLaughilin, Marshall Co. Snow. Schophillaria. *Schophillaria. *Luigaris. Road-side, Lawrence. Pentateono, Beard-dougue. P. grandiflorus, Russell Co., abundant. Snow. Also Lawrence. Saunders. C. muitida. Osawatomic. Also Lawrence, Snow. *Comobilis. C. muitida. Osawatomic. Also Lawrence, Snow. *Comitic Cartillis. Painted Cop. *C. pallida. Ellis. Watson. Cartillis. Watson. Sachya, Hedge Nettle. S. palustris. One place sayen miles southwest of Lawrence. Sethonopersuma Burseed. *E. Redowskii. Ellis. Watson. Convoivel. Lawrence, one specimen. Snow. S. sylvatica. Lawrence, one specimen. Snow. S. sylvatica. Lawrence, one specimen. Snow. S. sylvatica. Lawrence, one specimen. Snow. S. shellis. Watson. CONVOIVELARIAGEAE. *E. Redowskii. Ellis. Watson. CONVOIVELARIAGEAE. **E. Redowskii. Ellis. Watson. CONVOIVELARIAGEAE. **Lawrence, common. Snow. **Asclapta, Albacae. **Asclapta, Common. Snow. **Asclapta, Albacae. **Asclapta, Albacae. **Asclapta, Albacae. **Asclapta, Common. Snow. **Asclapta, Albacae. **Asclapta, Albacae. **Asclapta, Common. Snow. **Asclapta, Barbeed. **C. connition. Lawrence, common. Snow. **Asclapta, Barbeed. **Asclapta, Common. Snow. **Asclapta, Common. Snow. **Asclapta, Barbeed. **C. connition. Snow. **Asclapta, Albacae. **Asclapta, Barbeed. **C. connition. Snow. **Asclapta, Barbeed. **C		L. spicata. Topeka, rare. Papineau.	
PLANTAGINACEAE Plantago, Plantain. P. lanecolata. Lawrence, one place; also Topeka. Papineau. OROBANCHACEAE. Compholis, [Wallroth]; Philipea, [Pon.] Squaw Root. C. Ladoviciana. From W. J. McLaughlin, Marshall Co. Snow. Scion-Pittarian Calax. **Lawrian, Tond-lax. **Lawrian, Tond-lax. **Lawrian, Tond-lax. **Lawrian, Tond-lax. **Lawrian, Tond-lax. **Lawrian, Tond-lax. **Lyulgaris. Road-aide, Lawrence. **Predictions, Result-day. **C. multifida. Osawatomic. Also Lawrence. Snow. **Vernica, Speciavell. **V. Anagallis. One place seven miles southwest of Lawrence. **Cratiflieja, Painted Cup. **C. pailida. Ellis. Waston. **Cratiflieja, Painted Cup. **C. pailida. Ellis. Waston. **Cratiflieja, Painted Cup. **C. pailida. Ellis. Waston. **Cratiflieja, Painted Cup. **S. Prummonditi. Lawrence southwest of Lawrence. **S. sylvatica. Lawrence, one specimen. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mauk. Snow. **S. Roothers, From Marshall Co. by S. D. **Mark. Snow. **S. Roothers, From Marshall Co. by S. D. **Mark. Snow. **S. Roothers, From Marshall Co. by S. D. **Mark. Snow. **S. Roothers, C. Condition, From Marshall Co. by S. D. **S. Roothers, C. C. Condition, From Marshall Co. by S. D. **S. Roothers, C.			
Plantange, Plantain. P. lanceolata. Lawrence, one place; also Topeka. Papinean. Ononanchackee. Comopholis, [Wallroth]; Philipea. [Don.] Squaw Root. C. Ludoviciana. From W. J. McLaughilin, Marshall Co. Snow. Schophullariachae. Lituria, Toad-flax. Lituria, Toad-flax. Lituria, Toad-flax. P. paradifforas, Russell Co., abundant. Snow. Also Lawrence. Saunders. P. pubscence. Various places. The P. Digitalis of last year. Comobea. C. multifida. Osawatomic. Also Lawrence. Snow. Veronica, Specievell. V. Anagallis. One place seven miles southwest of Lawrence. Custilliga, Painted Cup. Capillida. Ellis. Watson. Lahlatae. Semblaria, Scull-cap. S. Drummondii. Lawrence, rare. Snow. S. spirutica. Eavrence, one specimen. Snow. S. spirutica, Nutl., S. Nutialliana. Shuttlew.] Boltonogramma, Burrseed. E. Redowskii. Ellis. Watson. Convolvellace. Convolvellace. Lawrence, Sunders. Ascepta, Hedge Nettle. Boltonogramma, Burrseed. E. Redowskii. Ellis. Watson. Convolvellace. Ascepta, Milkweed. Ascepta, Milkweed. Ascepta, Milkweed. Ascepta, Composit. Lawrence, common. Snow. Ascepta, Budder. Convolvellace. Ascepta, Milkweed. Ascepta, Milkweed. A. Sullivantii. Wakarusa bottom. More social than other species. A Vasagi. One place. A Vasagi. One place. A Lawrence, Sunders. A Canadensis. Lake. Earl and seguitarion. Ascepta, Didder. Connontin Capace. A Lawrence, Sunders. Accepta, Milkweed. A Sullivantii. Wakarusa bottom. More social than other species. A Vasagi. One place. A Lawrence, Sunders. Accepta, Milkweed. A Sullivantii. Wakarusa bottom. More social than other species. A Lawrence, Sunders. Accepta, Milkweed. A Sullivantii. Wakarusa bottom. More social than other species. A Lawrence, Sunders. Also, Accepta, Milkweed. A Sullivantii. Wakarusa bottom. More social than other species. A Lawrence, Sunders. Also, Accepta, Milkweed. A Sullivantii. Wakarusa bottom. More social than other species. A Lawrence, Sunders. Also, Accepta, Milkweed. A Sullivantii. Glish and sullivantii. Lawrence. Sunders. Also, Accepta, Milkweed. A Sullivantii. Glish and		*S. leptocarpa. Lawrence, one specimen. Snow.	
P. lanceolata. Lawrence, one place; also Topeka. Papineau. Omopholis, [Waliroth]; Philipsa. [Don.] Squaw Root. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. SCROPHULAHIACRAE. Liluvia, Toad-diax. *L. vulgaris. Road-side, Lawrence. P. grandiforus, Russell Co., abundant. Snow. Also Lawrence. Saunders. P. pabascons. Various places. The P. Digitalis of last year. Comobea. C. multifida. Osavatomic. Also Lawrence. Snow. Veronica, Speciwell. V. Anagallis. One place seven miles southwest of Lawrence. Catilligia, Painted Cup. *C. pallida. Ellis. Watson. Callantarae. Lamiatae. Sauday, Hedge Nettle. S. palustris. One place were miles cast of Lawrence. S. sylvatica. Lawrence, one specimen. Snow. S. lateriflora. Sent from Marshall Co. by S. D. Mank. Snow. Saloiga, Hedge Nettle. S. palustris. One place of the miles cast of Lawrence. S. sylvatica. Lawrence, one specimen. Snow. S. sylvatica. Lawrence. Saunders. Cucunity Dodder. C. connifora. Lawrence. Saunders. Cucural, Dodder. C. connifora. Lawrence. Saunders. Cucural, Dodder. C. connifora. Lawrence. Saunders. Cucural, Dodder. C. connifora. Lawrence. Saunders. Cucural podder. C. connifora. Lawrence. Saunders. A. Sallivantii. Wakarus bottom. More social than other species. A. Vasagl. One place. A. Sallivantii. Wakarus bottom. More social than other species. A. Vasagl, Stargras. A. Canadensis. Lawrence. Sunders. A. Canadensis. Lawrence. Sunders. Alisma, Job high, pubescent; leaves opposite, lamelotae, seesilo, round at base, acute at a pay: 2" long10" wide; umbel one, terminal, nodding peduncle 1-2". Alternative. Althurance. Althurance. Althurance. Althurance. Althurance. Stannifolia. Lawrence. Snow. LILLACEAR. Althurance. Stannifolia. La		선물에 그리고 있다면 하는데 사용 사용을 가는 것으로 하는데 하는데 되었다면 하는데 하고 있다.	broad, and 15 inches high, with a short stem on
DOBRANGHACHAE ORODANCHACHAE ORODANCHACHAE ORODANCHACHAE Compholis, [Wallroth]; Philipea. [Don.] Squaw Root. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. SCROPHULARIACHAE. Ludraia, Toad-diax. *L. vulgaris. Road-side, Lawrence. Pentitemon, Beard-tongue. P. grandiforns, Russell Co., abundant. Snow. Also Lawrence. Saunders. P. pubseens. Various places. The P. Digitalis of last year. Comobea. C. multifida. Osawatomic. Also Lawrence, Snow. Foronica, Speciavell. V. Anagallis. One place sever miles southwest of Lawrence. Couttlidja, Painted Cup. *C. pallida. Ellis. Walson. Lahihata. Lahihata. Sachya, Hedge Nettle. Borraginace. Sachya, Hedge Nettle. Sachya, Hedge Nettle. Sachya, Hedge Nettle. Sachya, Hedge Nettle. Borraginace. Sachya, Hedge Nettle. Sachya, Water Nymph. Sathreace. Sachya, Water Nymph. Sathreace. Sachya, Hedge Nettle. Sachya, Water Nymph. Sathreace. Sachya, Hedge Nettle. Sachya, Water Nymph. Sachya, Hedge Nettle. America, Nettle. Sachya, Hedge Nettle. Sachya, He			
Choopholis, [Walfroth]; Philipea. [Don.] Squaw Root. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. SCROPHULARIACEAE. Ludaria, Tondflax. L. vulgaris. Road-side, Lawrence. Pentitemon, Beard-tongue. P. grandiiflorus, Russell Co., abundant. Snow. Also Lawrence. Saunders. P. pubseens. Various places. The P. Digitalis of last year. Comobea. C. multifida. Osawatomic. Also Lawrence, Snow. Veronica, Speciavell. V. Anagallis. One place seven miles southwest of Lawrence. Custiflieja, Painted Cup. C. pallida. Ellis. Walson. LABILATAR. Scottlaria, Scult-cap. Scottlaria			
ROOL. C. Ludoviciana. From W. J. McLaughlin, Marshall Co. Snow. SCROPHULARIACRAE. Litaria, Tond-flax. Litaria, Tond-flax. Litaria, Tond-flax. Pentitenom, Beard-longue. P. grandiforas, Russell Co., abundant. Snow. Also Lawrence. Saunders. P. pubescens. Various places. The P. Digitalis of last year. Comobea. C. multifida. Osawatomie. Also Lawrence. Snow. Vernica, Speedwell. V. Anagallis. One place seven miles southwest of Lawrence. Castilleja, Painted Cup. C. pallida. Ellis. Watson. Castilleja, Painted Cup. S. Drummondii. Lawrence, rare. Snow. S. lateriflora. Sent from Marshall Co. by S. D. Mank. Snow. S. lateriflora. Sent from Marshall Co. by S. D. Mank. Snow. S. sakelya, Hedge Nettle. S. painstris. One place ilve miles ceast of Lawrence. S. sylvatica. Lawrence, one specimen. Snow. S. sylvatica. Nutt., S. Nuttalliana. Shuttlew.] BORRAUISAGEAE. Echinospermum, Burr-seed. E. Redowskii. Ellis. Watson. CONNOVILACEAE. Ascepta, Milk weed. A. Sallivantii. Wakarusa bottom. More social than other species. A. Vasegi. One place. A.			
Schophulanceare. Schophulanceare. Iduaria, Toad-dax. Linaria, Toad-dax. Linaria, Toad-dax. Linaria, Rossell Co., abundant. Snow. Also Lawrence. Sanders. P. pubsecens. Various places. The P. Digitalis of last year. Combea. C. multifida. Osawatomie. Also Lawrence. Snow. Veronica, Speedwell. V. Anagallis. One place seven miles southwest of Lawrence. Contilieja, Painted Cup. Cop. pallida. Ellis. Watson. Labiatrae. Soutlieria, Scall-cap. Soutlieria, Scall-cap. Soutlieria, Scall-cap. Sultifora. Sent from Marshall Co. by S. D. Mauk. Snow. Saterifora. Sent from Marshall Co. by S. D. Mauk. Snow. Saterifora. Sent from Marshall Co. by S. D. Mauk. Snow. Syrvatica. Lawrence, one specimen. Snow. Saterifora. Sent from Marshall Co. by S. D. Mauk. Snow. Syrvatica. Lawrence, one specimen. Snow. Shalaceal. Southward, Scall-cap. Southward, Scall-cap. Struurus, Lizard-tail. Scernus. Lawrence, one specimen. Snow. Nalaceal. Simurus, Lizard-tail. Scernus. Lawrence, one specimen. Snow. Nalaceal. Simurus, Lizard-tail. Scernus. Lawrence, one specimen. Snow. Nalaceal. Simurus, Lizard-tail. Scernus. Lake. All three abundant. Alismaceal. Simurus, Lake. All three abundant. Alismaceal. Simurus, Lake. All three abundant. Alismaceal. Simurus Lake. All three		Root.	A. gracilis, Lawrence, Saunders, A. gracileus
*L. vulgaris. Road-side, Lawrence. *Postatemon, Beard-longue. P. grandiilorus, Russell Co., abundant. Also Lawrence. Saunders. P. pubescens. Various places. The P. Digitalis of last year. Comobea. C. multifida. Osawatomie. Also Lawrence, Snow. Veronica, Speedwell. V. Anagallis. One place seven miles southwest of Lawrence. Castilleja, Painted Cup. *C. pallida. Ellis. Watson. Labiatara. Labiatara. Scotulario, Scull-cap. *S. Drummondili. Lawrence, rare. Snow. S. laterifora. Sent from Marshall Co. by S. D. Mauk. Snow. Szachys, Hedge Nettle. S. palustris. One place five miles east of Lawrence. S. sylvatica. Lawrence, one specimen. Snow. [S. sylvatica. Lawrence, one specimen. Snow. Schinopermum, Burr-seed. *E. Redowskii. Ellis. Watson. CONVOLVULACEAE. Cuseusa, Dodder. C. conuiflora. Lawrence. Saunders. Asclepiaza, Milk weed. A. Sullivantii. Wakarusa bottom. More social than other species. A. Vasegi. One place. *A. —— Lawrence. Several specimens. Mr. Wood cannot find its name. Stem slender 2" diam. 15 high, pubsecent; leaves poposite, lamelanders. Also var. obtiolia, latifolia and sagitterfolia, latifolia and sagitterfolia. Startegas. Hypozis, Star-grass. H, filifolia. Topeka. Pubraea. SMILACEAE. Mariandona. Sancharia, Valence. Lawrence, Devenders. Alismaceae. F. rostratus. Lake, abundant. Alismaceae. Lawrence. Saunders. Associalis, Julia. Sancharia, Julia. J. cinerea, Julia. Laturence, Junia. J. cinerea, Julia. J. cinerea, Julia. J. cinerea, Julia. Auerosea. Autronopi cordate at base. If this is the amara, this point should be noticed. Curtilipana. Santandaria. Santandaria. Santandaria. Santandaria			
Levilgaris Road-side, Lawrence. Pentatemon, Beard-longue. Pentatemon, Beard-longue.** P. grandiflorus, Russell Co., abundant. Snow. Also Lawrence. Saunders. P. pubseens. Various places. The P. Digitalis of last year. Combea. C. multifida. Osawatomie. Also Lawrence. Snow. Veronica, Speedwell. V. Anagallis. One place seven miles southwest of Lawrence. Castilleja, Painted Cup. **C. pallida. Ellis. Watson. Labiatarae. Soutellaria, Scull-cap. Seutellaria, Scull-cap. Seutellaria, Scull-cap. Seutellaria, Scull-cap. Sachya, Hedge Nettle. S. palustris. One place five miles east of Lawrence. S. sylvatica. Lawrence, one specimen. Snow. [S. sylvatica, Nutt.s., Nuttallians. Shuttlew.] BORRAGINACEAE. Echinoopermum, Burr-seed. E. Redowskii. Ellis. Watson. CONVOLVULACEAE. Cuscula, Dodder. C. conniflora. Lawrence, common. Snow. Asclepiaa, Milkweed. A. Sullivantii. Wakaruss bottom. More social than other species. A. Vasegi. One place. A. — Lawrence. Several specimens. Mr. Wood cannot find its name. Stem slender 2" diam., 15 high, pubsecent; leaves opposite, lame-colate, sessilo, round at base, acute at apex; 2" long_fol" wide; miled one, terminal, nodding peduncle 1'-2'. Latitaceae. Assurum, Willd Ginger. Jogitaria, Nathut. J. cinerea, Butternut Lyon county. Capuatica. Cumpty, Mainty. Capuatica. Cummon. Known by leaflets resemiling peach leaves. Capuatica. Cumnon. Known by leaflets resemiling peach leaves. Capuatica. Cumnon. Known by leaflets resemiling peach leaves. C. attactica. Occupty, Capuatica. Cumpty, Balacica. Capuatica. Cumnon. Known by leaflets resemiling peach leaves. C. attactica. Occupty, Capuatica. Cumpty, Balacica. Capuatica. Cumnon. Known by leaflets resemiling peach leaves. C. attactica. Occupty, Balacica. Capuatica. Cumnon. Known by leaflets resemiling peach leaves. C. mitro cappa. Near Osawatomie. The bark and strongly cordate at base. If this is the amar, this point should be noticed. CUPULIFIERAE. Sururus, Lizard-tall. S. cernuus. Lawrence, one specimen. Snow. Naladceae. Silvardeae. Silvardeae. Surur			
P. grandiflorus, Russell Co., abundant. Snow. Also Lawrence. Saunders. P. pubescens. Various places. The P. Digitalis of last year. Comobea. C. multifida. Osawatomie. Also Lawrence. Snow. Various places. The P. Digitalis of lawrence. Castilleja. Painted Cup. *C. pallida. Ellis. Watson. LABIATAE. Seutellaria, Scull-cap. *S. Drummondiil. Lawrence, rare. Snow. S. lateriflora. Sent from Marshall Co. by S. D. Mauk. Snow. S. spivatica. Lawrence, one specimen. Snow. S. sylvatica, Nutt., S. Nuttalliana. Shuttlew.] BORRAGINAGEAE. Echinopermum, Burr-seed. *E. Redowskii. Ellis. Watson. CONVOLVULAGEAE. Councid, Dodder. C. conniflora. Lawrence, comenon. Snow. ASCLEPIADACEAE. Asceptas, Milk weed. A. Sullivantii. Wakarusa bottom. More sociat than other species. A. Vasegi. One place. *A. —— Lawrence. Several specimens. Mr. Wood cannot find its name. Stem slender 2"diam., 15 high, pubescent; leaves opposite, lawrence, lawrence. Snow. ARISTOLOCHIACEAE. Ausrum, Wild Ginger. ARISTOLOCHIACEAE. Asarum, Wild Ginger.			
Also Lawrence. Saunders. P. pubescens. Various places. The P. Digitalis of last year. Comebea. Comebea. Comebea. Comedea. Comede			
Comobea. C. multifida. Osawatomie. Also Lawrence. Snow. Veronica, Speedwell. V. Anagallis. One place seven miles southwest of Lawrence. Castilleja, Painted Cup. *C. pallida. Ellis. Watson. Labitatae. Scutellaria, Scull-cap. *S. Drummondii. Lawrence, rare. Snow. S. lateriflora. Seni from Marshall Co. by S. D. Mauk. Snow. Stachys., Hedge Nettle. S. palustris. One place five miles east of Lawrence. S. sylvatica, Nutt., S. Nuttalliana. Shuttlew.] Borraol Borraol Borraol. Borraol Borraol. E. Redowskii. Ellis. Watson. Convolvullageae. E. Chinoopermum, Burr-seed. *E. Redowskii. Ellis. Watson. Convolvullageae. Cupruliferae. Saururag, Lizard-tail. S. cernuus. Lawrence, one specimen. Snow. Naladogae. Naidaga, Water Nymph. N. flexilis. Lake four miles north of Lawrence. Paumogeton, Fond-weed. P. pectinatus. Lake. The one foretold last year. P. pectinatus. Lake. All three abundant. Allswackae. Sagittaria, Arrow-head. S. variabilis, var. gracilis, leaves narrow, same lak Also var. obtusifolia, latifolia and sagitterfoli very common, distinguished by Dr. Saunders. Echinodorus. A. Vasegi. One place. *A. — Lawrence. Several specimens. Mr. Wood cannot find its name. Stem slender?'' diam., 15' high, pubescent; leaves opposite, lamelolate, seesilo, round at base, acute at apex; 2'' long,-10' wide; umbel one, terminal, nodding' peduncle 1'-2'. ARISTOLOCHIACKAE. Asarum, Wild Ginger.		Also Lawrence. Saunders.	Carya, Hickory.
C. multifida. Osawatomie. Also Lawrence. Snow. Veronica, Speedwell. V. Anagallis. One place seven miles southwest of Lawrence. Castilleja, Painted Cup. Castilleja bovato-lanceolata and strongly cordate at base. It this is the sawrongly cordate at base. It this awarongly cordate base. It this awarongly cordate at base. It this awarongly cos			
V. Anagallis. One place seven miles southwest of Lawrence. Custilleja, Painted Cup. *C. pallida. Ellis. Watson. LABIATAE. Seutetlaria, Seuli-cap. *S. Drummondili. Lawrence, rare. Snow. S. laterifora. Sent from Marshall Co. by S. D. Mauk. Snow. Sachys, Hedge Nettle. S. palustris. One place five miles east of Lawrence. S. sylvatica. Lawrence, one specimen. Snow. [S. sylvatica. Lawrence, one specimen. Snow. [S. sylvatica. Lawrence, one specimen. Snow. [S. sylvatica. Lawrence, one specimen. Snow. S. sylvatica. Lawrence. Shuttlew.] BORRAGINACEAE. Echinospermum, Burr-seed. *E. Redowskii. Ellis. Watson. CONVOLVULACEAE. Cuscula, Dodder. C. conniflora. Lawrence. Saunders. C. Gronovii. Lawrence, common. Snow. ASCLEPIADACEAE. Asclepias, Milkweed. A. Sullivantii. Wakarusa bottom. More social than other species. A. Vassegi. One place. *A. ————————————————————————————————————			C. mitro carpa. Near Osawatomie. The bark i
Castilleja, Painted Cup. *C. pallida. Ellis. Watson. LABIATAE. Scullaria, Scull-cap. *S. Drummondii. Lawrence, rare. Snow. S. lateriflora. Sent from Marshall Co. by S. D. Mauk. Snow. Sachys, Hedge Nettle. S. palustris. One place five miles east of Lawrence. S. sylvatica. Lawrence, one specimen. Snow. [S. sylvatica, Nutt., S. Nuttalliana. Shuttlew.] BORRAGINACEAE. Echinospermum, Burr-seed. *E. Redowskii. Ellis. Watson. CONVOLVULACEAE. Cuscula, Dodder. C. consifora. Lawrence, common. Snow. ASCLEPIADACEAE. Asclepias, Milkweed. A. Sullivantii. Wakarusa bottom. More social than other species. A. Vasegi. One place. *A. — Lawrence. Several specimens. Mr. Wood cannot find its name. Stem slender 2" diam., 15' high, pubescent; leaves opposite, lameelate, sessilo, round at base, acute at apex; 2" long, 10" wide; umbel one, terminal, nodding peduncle 1'-2'. ARISTOLOCHIACEAE. Asarum, Wild Glinger.		Veronica, Speedwell.	C Little trees found near Clinton. Leaf
*C. pallida. Ellis. Watson. LABLATAE. Scutellaria, Scull-cap. *S. Drummondii. Lawrence, rare. Snow. S. lateriflora. Sent from Marshall Co. by S. D. Mauk. Snow. *Sachya, Hedge Nettle. S. palustris. One place five miles east of Lawrence. S. sylvatica, Nutt., S. Nuttalliana. Shuttlew.] BORRAGINACEAE. Echinospermum, Burr-seed. *E. Redowskii. Ellis. Watson. CONVOLVULACEAE. Cuscula, Dodder. C. conniflora. Lawrence, common. Snow. ASCLEPIADACEAE. Asclepias, Milk weed. A. Sullivantii. Wakarusa bottom. More social than other species. A. Vasegi. One place. *A. — Lawrence. Several specimens. Mr. Wood cannot find its name. Stem slender 2" diam., 15' bigh, putescent; leaves opposite, lame colate, sessilo, round at base, acute at apex; 2" long,-10" wide; umbel one, terminal, nodding peduncle 1'-2'. ARISTOLOCHIACEAE. Asarum, Wild Ginger.			
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