



# Static to Dynamic: Growing a Wildflower Web Site

<http://www.kswildflower.org>



## About the Site

Kansas Wildflowers and Grasses, one of four Kansas State University AgNIC sites, began in 1996 and has been considerably enlarged over a twelve year period. The site contains information with more than 2530 identification photos for 534 species of forbs, grasses, sedges, rushes, and woody plants that grow in Kansas.

## About the Creators

Professor **Mike Haddock** is Agriculture Librarian and Chair of the Sciences Department at K-State Libraries.



Mike is the author of **Wildflowers and Grasses of Kansas: A Field Guide**, a book that was published by the University Press of Kansas in 2005. The book was selected as a "2006 Kansas Notable Book" by the Kansas Center for the Book at the State Library of Kansas. Both this web site and the book are cited online in the Bibliography and Related Links section of **National Geographic's** April 2007 feature on the Flint Hills of Kansas.

**Yongli Zhou** is the Digital Repositories Librarian at Colorado State University Libraries. She worked at K-State Libraries as a resident librarian. She redesigned and coded the new web site.

## Why Redesign the Site?

- A new look
- Consistent metadata display
- Portable
- Easy-to-update web interface



## How the site works?



The common name and scientific name tables automatically generate the respective index pages.

common names

cid	plant_id	cname	indexed	category
812	363	Western buckeye	p	f
813	364	Bluebowl	p	f
815	365	Smooth twistflower	n	f
814	365	Henbit	p	f
816	366	Henbit	p	f
367	367	bon-leaved milkweed	n	f
367	367	Fourleaf milkweed	p	f
368	368	Bradbury beebalm	p	f
368	368	Eastern beebalm	y	f
369	369	Hairy phacelia	p	f

Sort display

sci_id	plant_id	sci_name	prim_auth1	prim_auth2	prim_ex	auth1	auth2	auth_ex	prim_name	category
534	360	Desmodium sessilifolium	138	NULL	NULL	133	NULL	NULL	y	f
535	361	Euthamia gymnospermoides	NULL	NULL	NULL	45	NULL	NULL	y	f
536	362	Cicuta maculata	NULL	NULL	NULL	63	NULL	NULL	y	f
537	363	Aesculus glabra	NULL	NULL	NULL	148	NULL	NULL	y	f
538	364	Gilia rigida	NULL	NULL	NULL	8	NULL	NULL	y	f
540	364	Gilia acerosa	44	NULL	NULL	12	NULL	NULL	n	f
539	364	Giliastrum acerosum	44	NULL	NULL	113	NULL	NULL	n	f
541	365	Streptanthus hyacinthoides	NULL	NULL	NULL	54	NULL	NULL	y	f
542	366	Lamium amplexicaule	NULL	NULL	NULL	63	NULL	NULL	y	f
543	367	Asclepias quadrifolia	NULL	NULL	NULL	59	NULL	NULL	y	f
544	368	Monarda bradburiana	NULL	NULL	NULL	242	NULL	NULL	y	f
545	369	Phacelia hirsuta	NULL	NULL	NULL	95	NULL	NULL	y	f
546	370	Kingia dandelion	63	NULL	NULL	95	NULL	NULL	y	f
547	371	Rumex venosus	NULL	NULL	NULL	100	NULL	NULL	y	f
548	372	Melampodium leucanthum	NULL	NULL	NULL	133	NULL	NULL	y	f
373	373	Zinnia grandiflora	NULL	NULL	NULL	95	NULL	NULL	y	f
374	374	Hymenopappus flavescens	NULL	NULL	NULL	44	NULL	NULL	y	f

scientific names

authority

authorityID	authorityName	authorityDescription
7	Beauv.	Ambroise Marie Francois Joseph Palisot de Beauvois...
8	Benth.	George Benthams, 1800-1884. English taxonomist, a...
9	Bickn.	Eugene Pintard Bicknell, 1859-1925. New York ban...
10	Bieb.	Earon Friedrich August Marschall von Bieberstein, ...
11	S.T. Blake	Stanley Thatcher Blake, 1910-1973. Australian bo...
12	Britton	Nathaniel Lord Britton, 1859-1934. Director of t...

flower

flowerID	family	lifeSpan	height	stem	leaves	inflorescence	flower	fruit	habitat	distribution	origin	reproduction	toxicity	forageValue	uses	comments	flowerColor	lastUpdated	specialNotes
363	Hippocastanaceae - Buckeye Family	Shrub or small tree	3-12+ feet	Erect; bark of young trees smooth, pale yellow-bro...	Opposite, deciduous, palmately compound, stalk 4 t...	Panicle, cylindrical or pyramidal, 4 to 6 inches l...	Calyx broadly bell-shaped, 1/6 to 1/3 inch long, y...	Unevenly spherical, 1 to 2 inches in diameter, rus...	Stream banks, rocky wooded hillsides, lowland wood...	East 1/2 of Kansas.	NULL	NULL	The seeds are mildly poisonous with swine particul...	NULL	Native Americans ate the seeds after boiling or ro...	<p>Aesculus</p> is an ancient name for a nut-bear...	4	2007-11-24	NULL
364	Polemoniaceae - Polemonium Family	Perennial	3-10 inches	Widely spreading branches from base, minutely glan...	Alternate, pinnately-cleft to pinnate, 1/4 to 1 in...	Solitary or in small, loose clusters; bracts line...	1/3 to 3/5 inch long; calyx cylindrical to egg-sha...	Capsule, broadly egg-shaped to oblong, 1/6 to 1/5 ...	Dry sandy or rocky prairies and hillsides.	South 2/3 of west 1/3 of Kansas.	NULL	NULL	NULL	NULL	Native Americans massaged the crushed plant on cr...	A slightly shrubby plant woody at the base.	1	2007-11-26	NULL
365	Brassicaceae - Mustard Family	Annual	To 40 inches	Erect, simple or rarely branched above, glabrous, ...	Alternate, spreading, linear-lanceolate, 5 to 6 i...	Raceme, 10- to 30-flowered, terminal.	Spreading or drooping, stalk 1/10 to 1/5 inch long...	Pod, spreading-ascending, 2.4 to 4 inches long, up ...	Prairie hillsides and pastures; sandy or gravelly ...	South-central Kansas.	NULL	NULL	NULL	NULL	Native Americans in the Southwest used a related s...	From Greek <p>streptos</p> "twisted" and <p>anthos...	1	2007-11-26	NULL

1. The database was built using phpMyAdmin. Data may be added using either phpMyAdmin or custom-built input forms.

2. MySQL is used to build queries and PHP is used for the display of retrieved information. Macromedia Dreamweaver was used to generate much of the MySQL and PHP code.

3. Some of the more complicated display required hard coding. (e.g. Authority display and the Wildflowers Listed by Time of Flowering page.)

364

BLUEBOWLS

File Size: 48 KB

Stems: Widely spreading branches from base, m...

Leaves: Alternate, pinnately-cleft to pinnate, 1/4 to linear-oblong, 1 1/2 to 1 1/2 inch long, minut sessile or short-stalked, upper stem leaves reduced. Solitary or in small, loose clusters; bracts linear to 3-cleft.

Inflorescences: 1/3 to 3/5 inch long; calyx cylindrical to egg-shaped, to 1/5 inch long, 5-lobed, lobes 1/2 to 2/3 length of calyx; corolla wheel-shaped, 5-lobed, blue-violet to purple with yellow eye, lobes circular to oval, 1/6 to 1/5 inch long; stamens 5, extending out.

Flowers: Solitary or in small, loose clusters; bracts linear to 3-cleft.

Fruits: Capsule, broadly egg-shaped to oblong, 1/6 to 1/5 inch long; seeds 2-4 per compartment, slimy when wet.

Habitat: Dry sandy or rocky prairies and hillsides.

Distribution: South 2/3 of west 1/3 of Kansas.

Uses: Native Americans massaged the crushed plant on cramping muscles.

Comments: A slightly shrubby plant woody at the base.

flowering\_id plant\_id March April May June July August September October category

449	363	n	y	y	n	n	n	n	n	f
450	364	n	y	y	y	y	n	n	n	f
451	365	n	y	y	y	n	n	n	n	f

images

Showing rows 2095 - 2099 (of 2484 total. Query took 0.0073 sec)

SQL query: SELECT \* FROM wildflowers ORDER BY image plant\_id ASC LIMIT 5, 5

May be approximate. See FAQ 3.11

Showing 15 rows(s) starting from record #2100 in horizontal mode and repeat headers after 100 cells

Sort by key: None

imageID	plant_id	fileName	imageTitle	fileSize	imageLocation	mainImage	category
2095	362	westernbuckeye.jpg	Western buckeye leaf	72 KB	Elizabethtown County, Kansas	n	f
2096	363	buckeye.jpg	Western buckeye	61 KB	Kansas Prairie, Riley County, Kansas	y	f
2097	363	buckeye.jpg	Western buckeye inflorescence	99 KB	Kansas Prairie, Riley County, Kansas	n	f
2098	363	buckeye.jpg	Western buckeye	104 KB	Kansas Prairie, Riley County, Kansas	n	f
2099	363	buckeye.jpg	Western buckeye	80 KB	Kansas Prairie, Riley County, Kansas	n	f
2100	363	buckeye.jpg	Western buckeye flowers	64 KB	Kansas Prairie, Riley County, Kansas	n	f
2101	363	buckeye.jpg	Western buckeye leaf	103 KB	Kansas Prairie, Riley County, Kansas	n	f
2102	364	bluebowl.jpg	Bluebowl	49 KB	Scott County, Kansas	y	f
2103	364	bluebowl.jpg	Bluebowl	85 KB	Scott County, Kansas	n	f
2104	364	bluebowl.jpg	Bluebowl	97 KB	Scott County, Kansas	n	f
2105	364	bluebowl.jpg	Bluebowl	178 KB	Scott County, Kansas	n	f
2106	364	bluebowl.jpg	Bluebowl	69 KB	Scott County, Kansas	n	f
2107	364	bluebowl.jpg	Bluebowl	87 KB	Scott County, Kansas	n	f
2108	364	bluebowl.jpg	Bluebowl	85 KB	Scott County, Kansas	n	f
2109	364	bluebowl.jpg	Bluebowl	65 KB	Scott County, Kansas	n	f
2110	364	bluebowl.jpg	Bluebowl	34 KB	Scott County, Kansas	n	f

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Maintained by Mike Haddock  
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## Software & Technologies

- \* phpMyAdmin was used to create the database and to insert, modify, and delete data without programming in MySQL
- \* Dreamweaver was used to build basic dynamic pages coded in html, Javascript, PHP and MySQL.
- \* Photoshop was used to modify and batch convert the images, and to construct the web site layout
- \* Flash was used for the animated movie on the front page which adds graphic appeal

