

Bibliography for the Video: Preserving the Tallgrass Prairie (2013)

1. ... tall grass prairie stretched all the way from Texas to Canada
 - a. Kuechler, A.W. 1964. Potential natural vegetation of the conterminous United States. New York: Special publication, American Geographical Society 36.
2. ... Native Americans burnt the prairie
 - a. Higgins, Kenneth F. 1986. Interpretation and compendium of historical fire accounts in the Northern Great Plains. Washington, D.C.: United States Department of the Interior Resource Publication 161. 38pp
 - b. Moore, Conrad. 1972. Man and Fire in the Central North American Grassland 1535-1890: a documentary historical geography. Dissertation. University of California, Los Angeles.
3. ... less than 4% remains of that original prairie
 - a. Samson, Fred B., Fritz L. Knopf and Wayne R. Ostlie. 2004. Great Plains Ecosystems: Past, Present, and Future. Wildlife Society Bulletin 32(1):9.
Note: does not include Oklahoma information: 12,844,000 historic acres, 999.980 current acres (Oklahoma Heritage Program).
4. ...Much of it is in the Flint Hills of Kansas
 - a. http://www.iucn.org/about/work/programmes/gpap_home/gpap_quality/gpap_pacategories/gpap_category4/
 - b. Briggs, John, Donna R. Rieck, Clarence L. Turner, Geoffrey M. Henebry, Douglas G. Goodin and M. Duane Nellis. 1997. Spatial and temporal patterns of vegetation within the Flint Hills. Transactions of the Kansas Academy of Sciences 100(1/2):10-20.
5. ... to maintain this prairie is through burning
 - a. Heisler, J. L., J.M. Briggs and A.K. Knapp. 2003. Long-term patterns of shrub expansion in a C4-dominated grassland: fire frequency and the dynamics of shrub cover and abundance. American Journal of Botany 90:423-428.
6. ... The prairie is burned to protect its ecosystem functions
 - a. Briggs, J.M., A.K. Knapp, J.M. Blair, J.L. Heisler, G.A. Hoch, M.S. Lett, and K. McCarron. 2005. An ecosystem in transition: woody plant expansion into mesic grassland. BioScience 55:243-254.
7. ...it was burned before we ever came here
 - a. Kay, Charles. E. 2007. Are lightening fires unnatural? A comparison of aboriginal and lightning ignition rates in the United States. *IN* R.E. Masters and K.E.M Galley (eds). Pages 16-28. Proceedings of the 23rd Tall Timbers Fire Ecology Conference: Fire in Grassland and Shrubland Ecosystems. Tall Timbers Research Station, Tallahassee, Fl.

8. ... a closed canopy in about 30 years
 - a. Briggs, John M., Greg A. Hoch and Loretta C. Johnson. 2002. Assessing the rate, mechanisms, and consequences of the conversion of tallgrass prairie to *Juniperus virginiana* forest. *Ecosystems* 5(6):581.

9. ... ecosystem types are considered to be fire dependent
 - a. Fuhlendorf, Samuel D., David M. Engle, R. Dwayne Elmore, and Terrence G. Bidwell. 2012. Conservation of pattern and process: developing an alternative paradigm of rangeland management. *Rangeland Ecology and Management* 66:585.

10. ... tremendous invasion of eastern redcedar
 - a. Moser, W. Keith, Mark H. Hansen, Robert L. Atchison, Gary J. Brand, Brett J. Butler, Susan J. Crocker, Dacia M. meneguzzo, Mark D. Nelson, Charles H. Perry, William H. Reading IV, Barry T. Wilson and Christopher W. Woodall. 2005. *Kansas Forests 2005*. Washington, D.C. United States Department of Agriculture Forest Service. Resource Bulletin NRS-26. p. 7
 - b. Owensby, Clenton E. , K.R. Blan, B.J. Eaton, O.G. Russ. 1973. Evaluation of eastern redcedar infestations in the northern Kansas Flint Hills. *Journal of Range Management* 24(4):256-260.

11. ... enhances the biodiversity of the prairie
 - a. Hartnett, David C., Karen R. Hickman, L. E. Walter. 1996. Effects of bison grazing, fire, and topography on floristic diversity in tallgrass prairie. *Journal of Range Management* 49:413-420.
 - b. Owensby, Clenton, Robert Cochran, Kling Anderson, Ed Smith, and Eric Vanzant. 1995. 50 years of range research revisited. Kansas State University. 57 pp.

12. ... 4 million acres of native grasslands
 - a. Kindscher, Kelly and Nancy Scott. 1997. Land ownership and tenure of the largest land parcels in the Flint Hills of Kansas, USA. *Natural Areas Journal* 17:131-135.

13. ... where and when those grazers are going to be there
 - a. Allred, Brady W., Samuel D. Fuhlendorf, David M. Engle and R. Dwayne Elmore. 2011. Ungulate preference for burned patches reveals strength of fire-grazing interaction. *Ecology and Evolution* 1(2):132-144.

14. ... Fire removes the old growth
 - a. Knapp, Alan K. and T.R. Seastedt. 1986. Detritus accumulation limits productivity of tallgrass prairie. *Bioscience* 26:662-668.

15. ... Burning research at Kansas State University began back in the 1920s

- a. Hensel, R.L. 1923 Effect of burning vegetation on Kansas Pastures. *Journal of Agricultural Research* 23:631-647.
 - b. Aldous, A.E. 1934. Effect of burning on Kansas bluestem pastures. *Kansas Agricultural Experiment Station Bulletin* 39.
 - c. Launchbaugh, John L. and Clenton E. Owensby. 1978. Kansas rangelands: their management based on half a century of research. *Kansas Agricultural Experiment Station Bulletin* 622.
 - d. Owensby, Clenton, Robert Cochran, Kling Anderson, Ed Smith, and Eric Vanzant. 1995. 50 years of range research revisited. Kansas State University. 57 pp.
16. ... essentially 30 pounds more per steer
- a. Owensby, Clenton, Robert Cochran, Kling Anderson, Ed Smith, and Eric Vanzant. 1995. 50 years of range research revisited. Kansas State University. 57 pp.
17. ... grassland bird populations which are the fastest declining group of birds in North America
- a. Peterjohn, Bruce G. and John R. Sauer. 1999. Population status of North American grassland birds from the North American Breeding Bird Survey. *Studies in Avian Biology* 19:27-44.
 - b. Knopf, Fritz L. 1994. Avian assemblages on altered grasslands. *Studies in Avian Biology* 15:247-257.
18. ... life needs from nesting to raising a brood to making it through the winter
- a. Kates, Julie. 2005. Greater prairie chicken (*Tympanuchus cupido*). National Resource Conservation Service. Fish and Wildlife Habitat Management Leaflet 27.
19. ... Plants on the prairie capture carbon dioxide
- a. W.J. Gale, Mary Beth Kirham, E. T. Kanemasu, and Clenton Owensby. 1990. Net carbon exchange in canopies of burned and unburned tallgrass prairie. *Theoretical and Applied Climatology*. 422:237-244.
20. ... Two-thirds is grown below ground
- a. Wilson, Gail W.T., David C. Hartnett, Melinda D. Smith, and Kerri Kobbeman. 2001. Effects of mycorrhizae on growth and demography of tallgrass prairie forbs. *American Journal of Botany*, 88(8):1456.
21. ... regenerate that root system in about a 3-year period
- a. Kucera, C.L, Roger C. Dahlman and Melvin R. Koelling. 1967. Net productivity and turnover on an energy basis for tallgrass prairie. *Ecology* 48(4):536-541.
 - b. Owensby, C.E., Gary M. Paulsen, and Jay Dee McKendrick. 1970. Effect of burning and clipping on big bluestem reserve carbohydrates. *Journal of Range Management* 23(5):358-363.

22. ... build that soil and increase organic matter
- a. Baer, S.G., C.W. Rice and J.M. Blair. 2000. Assessment of soil quality in fields with short and long term enrollment in the CRP. *Journal of Soil and Water Conservation* 55(2):142-146.
23. ... infiltration of water
- a. McMurphy, Wilfred E. and Kling L. Anderson. 1965. Burning Flint Hills range. *Journal of Range Management* 18(5):265-269.
 - b. Owensby, Clenton, Robert Cochran, Kling Anderson, Ed Smith, and Eric Vanzant. 1995. 50 years of range research revisited. 57 pp.
 - c. Duesterhaus, Jamey. 2008. A micrometeorology study of stock watering ponds, rangelands, and woodlands in the Flint Hills of Kansas. Dissertation. Kansas State University.
24. ... doesn't recycle those nutrients
- a. Hobbs, N. Thompson, David S. Schimel, Clenton Owensby and Dennis Ojima. 1991. Fire and grazing in the tallgrass prairie: contingent effects on nitrogen budgets. *Ecology* 72(4):1379.
 - b. Ojima, Dennis S., D.S. Schimel, W.J. Parton, and C.E. Owensby. 1994. Long- and short-term effects of fire on nitrogen cycling in tallgrass prairie. *Biogeochemistry* 24:67-84.
25. ... wildland/urban interface
- a. Radeloff, V.C., R.B. Hammer, S.I. Stewart, J.S. Fried, S.S. Holcomb and J. F. McKeefry. 2005. The wildland-urban interface in the United States. *Ecological Applications* 15(3):799-805.

http://silvis.forest.wisc.edu/old/Library/WUI_state_download.php?state=Kansas&abbrev=KS

Downloaded 4 April 2013.

26. ...Firewise Communities

<http://www.firewise.org/communities.aspx>

27. ... Fire Adapted Communities

<http://www.fireadapted.org/>

28. ... nitrous oxides and volatile organic compounds

<http://www.fraqmd.org/OzoneChemistry.htm>

California Environmental Protection Agency Air Resources Board and Office of Environmental Health and Hazard Assessment. *The Physics and Chemistry of Ozone*. Sections 1.1.2-1.1.3

Downloaded 4 April 2013.

29. ... high ozone readings at our monitoring sites

<http://www.kdheks.gov/bar/air-monitor/flinthills.html#data>

30. ... forms through a chemical reaction with nitrogen oxides and VOCs and heat and sunlight
<http://earthobservatory.nasa.gov/Features/ChemistrySunlight/>
Chemistry in the Sunlight.
Downloaded 4 April 2013.
31. ... one of six pollutants for which EPA sets health-based standards
<http://www.epa.gov/air/urbanair/>
32. ... asthma affects 10% of the population
http://www.cdc.gov/nchs/data/series/sr_10/sr10_256.pdf
Schiller, J.S., J.W. Lucas, J.A. Peregoy. 2012. Summary health statistics for U.S. adults: National Health Interview Survey, 2011. National Center for Health Statistics. Vital Health Statistics Series 10(256):25.
33. ... In children it can rise to as high as 20%
http://www.cdc.gov/nchs/data/series/sr_10/sr10_254.pdf
Bloom, B. R.A. Cohen, G. Freeman. 2012. Summary health statistics for U.S. children: National Health Interview Survey, 2011. National Center for Health Statistics. Vital Health Statistics Series 10(254):9.
34. ... air quality public education program
<http://jcdhe.jocogov.org/environment/programs/air-quality>
35. ... regulations concerning air quality
<http://www.epa.gov/air/criteria.html>
36. ... push all that smoke back
<http://www.kdheks.gov/bar/air-monitor/flinthills.html>
37. ... Clean Air Act
<http://www.epa.gov/air/caa/peg/>
38. ... SkyCast
<http://www.marc.org/Environment/airQ/skycast.asp>
39. ... Flint Hills Smoke Management Plan
http://www.kdheks.gov/bar/air-monitor/flinthillsinfo/SMP_v10FINAL.pdf
40. ... webpage
<http://www.ksfire.org/>

<http://ksfire.sonomatechdata.com/view/summary/>

<http://ksfire.sonomatechdata.com/view/details/>

41. ... possibility of spreading out the timing of fire

<http://www.k-state.edu/media/newsreleases/jun10/burngraze61510.html>

42. ... smoke making it all the way to the East Coast

http://www.kdheks.gov/bar/air-monitor/flinthillsinfo/April_8-11_2010_Air_Quality_Smoke_Event.pdf

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