

Fire regimes of Sonoran desert shrublands

Citation:

U.S. Department of Agriculture, Forest Service, Missoula Fire Sciences Laboratory. 2012. Information from LANDFIRE on fire regimes of Sonoran desert shrublands. In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Missoula Fire Sciences Laboratory (Producer). Available: https://www.fs.fed.us/database/feis/fire_regimes/Sonoran_desert_shrub/all.html [2018, September 27].

A complete Fire Regime Synthesis for Sonoran desert shrublands has not yet been published in the Fire Effects Information System. However, information is available from LANDFIRE succession modeling of [Biophysical Settings \(BpS\)](#). Table 1 summarizes LANDFIRE data on the BpSs in Sonoran desert shrublands. Figure 1 shows where they occur. [Appendix A](#) lists the BpSs and the results of LANDFIRE succession modeling for each BpS in Sonoran desert shrublands.

Table 1. Modeled fire intervals and severities in Sonoran desert shrublands [3]									
Fire interval ¹	Fire severity ² (% of fires)			Number of Biophysical Settings (BpSs) in each fire regime group					
	Replacement	Mixed	Low	I	II	III	IV	V	NA ³
103-1,428 years	100	0	0	0	0	0	2	8	0

¹Average historical [fire-return interval](#) derived from LANDFIRE succession modeling (labeled "MFRI" in LANDFIRE).

²Percentage of fires in 3 fire severity classes, derived from LANDFIRE succession modeling. Replacement-severity fires cause >75% kill or top-kill of the upper canopy layer; mixed-severity fires cause 26%-75%; low-severity fires cause <26% [[1,2](#)].

³NA (not applicable) refers to BpS models that did not include fire in simulations.

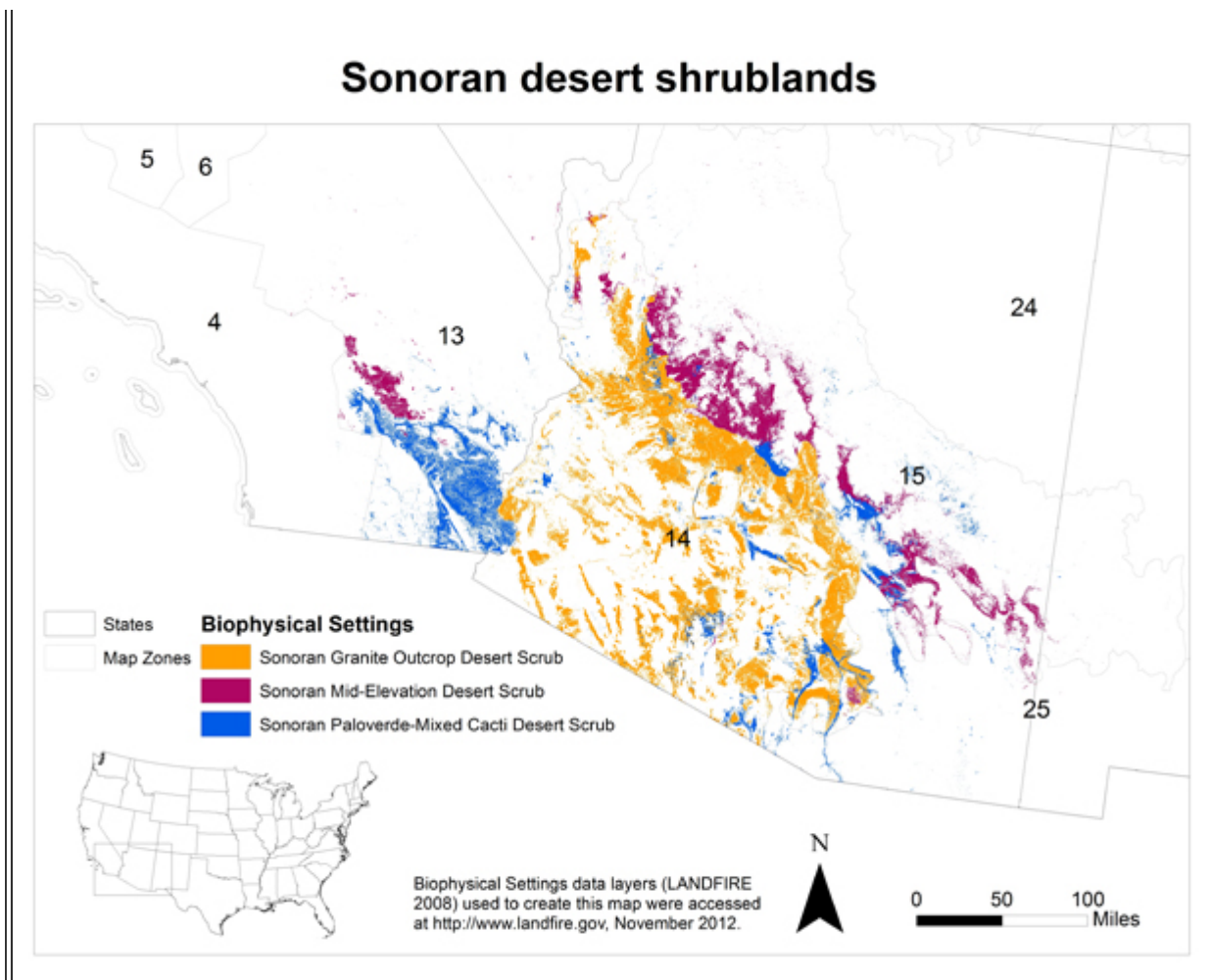


Figure 1. Land cover distribution of Sonoran desert shrublands based on the LANDFIRE Biophysical Settings (BpS) data layer [3]. Numbers indicate LANDFIRE [map zones](#). Click on the map for a larger image and zoom in to see details.

References:

1. Barrett, S.; Havlina, D.; Jones, J.; Hann, W.; Frame, C.; Hamilton, D.; Schon, K.; Demeo, T.; Hutter, L.; Menakis, J. 2010. Interagency Fire Regime Condition Class Guidebook. Version 3.0, [Online]. In: Interagency Fire Regime Condition Class (FRCC). U.S. Department of Agriculture, Forest Service; U.S. Department of the Interior; The Nature Conservancy (Producers). Available: <http://www.frcc.gov/> [2013, May 13]. [85876]
2. LANDFIRE Rapid Assessment. 2005. Reference condition modeling manual (Version 2.1), [Online]. In: LANDFIRE. Cooperative Agreement 04-CA-11132543-189. Boulder, CO: The Nature Conservancy; U.S. Department of Agriculture, Forest Service; U.S. Department of the Interior (Producers). 72 p. Available: http://www.landfire.gov/downloadfile.php?file=RA_Modeling_Manual_v2_1.pdf [2007, May 24]. [66741]
3. LANDFIRE. 2008. CONUS refresh (LANDFIRE 1.1.0). Biophysical settings layer. In: LANDFIRE data distribution site, [Online]. In: LANDFIRE. U.S. Department of the Interior,

Geological Survey (Producer). Available: <http://landfire.cr.usgs.gov/viewer/> [2015, October 7].
[89416]
