Wildland conservation values of the contiguous U.S.

This page provides links to a dataset that was generated for and presented in Belote et al. 2017 (citation below). They used data on: (1) ecological integrity (Theobald 2013), (2) the connectivity value for land to serve as a corridor between protected areas (Belote et al. 2016), (3) how well ecosystems are already represented within protected areas (Aycrigg et al. 2013), and (4) whether a location is rich in endemic species that are not well protected in conservation reserves (Jenkins et al. 2015). Areas that rate highly in these combined values should receive greater consideration and priority for some form of conservation protection in a national network of ecological reserves per recent recommendations of Aycrigg et al. (2016). Adding lands with these qualities may be an important strategy to improve the resilience of conservation reserve systems for the future (Belote et al. 2017).

Figure 1. Indices of conservation values used to prioritize completing the system of protected areas: ecological integrity (a), connectivity (b), ecosystem representation priority (c), and biodiversity priority (d).
We normalized data for each value to range from 0 (lowest priority) to 1 (highest priority) and summed them to produce a map of wildland conservation values. These data can be used to inform conservation planning at regional scales. Data are available as a geotiff file or in a map package that can be unpacked using ArcCatalog.


