U.S. GEOLOGICAL SURVEY HIGH PRIORITIES AND EMERGING ISSUES IN THE GREAT BASIN



Secretary Jewell, Oct 2013:

- Landscape-level mitigation through strategic conservation and restoration
- Collaborate across the ownership patchwork
- USGS role is to provide scientific information on:
- Interactions between species, communities, physical resources and change agents across multiple scales.
- Cumulative effects analyses and decision support tools to support policy and management



LARGE LANDSCAPE SCIENCE TO SUPPORT DECISION MAKING

- Where's the sage? Hierarchical selection of places for development, conservation and restoration
- If we build it, will they come?

How effective are we at conserving and restoring?













CUMULATIVE AND REGIONAL EFFECTS ANALYSIS

Rise of megafires in the GB*

- Increases risk of erosion (dust)
- Ramifications for recovery



Invasive/native interactions * Biology of species of concern Regional change agents Scale local info up to region

Surface disturbance*

- Species response/role in connectivity
- <u>Mitigation currency</u>



* CHANGES WITH CLIMATE CHANGE



GREATER SAGE-GROUSE NATIONAL RESEARCH STRATEGY

Science for a changing world

Greater Sage-Grouse National Research Strategy



Scientific Investigations Report 2013–5167

U.S. Department of the Interior U.S. Geological Survey

- Sage-grouse biology
- Habitat management
- Change agents

Hanser, S.E., and Manier, D.J., 2013, Greater Sage-Grouse National Research Strategy: U.S. Geological Survey Scientific Investigations Report 2013-5167, 46 p.

http://pubs.usgs.gov/sir/2013/5167/

