

- 2) the amount of well-distributed and connected healthy sagebrush shrub and native perennial grass and forb communities.

#### Representation

The measures for representation (representativeness) should include a qualitative or categorical measure of loss of adaptive capacity through loss of genetic diversity or geographic diversity (e.g., loss of genetic clusters as defined by Oyler-McCance et al. and loss of populations at margins of range).

**The alternatives for each candidate listable entity, as informed by the status review, are E, T, or NW.**

#### Scientific analysis to inform the status review:

An analytical framework is needed to assess the effects of threats and resource management plans (which are designed to ameliorate threats) on habitat and population measures to ultimately inform the status review. At the meeting, an analytical framework was prototyped by developing several conceptual diagrams to represent the framework graphically and comparing specific modeling approaches that could be used to link habitat and population measures. A collaborative approach is being considered that would involve holding a series of science workshops with scientific peers from the state or federal agencies to finalize the analytical framework, peer-review the framework, and hold expert elicitation workshops as needed to complete the analysis.

#### *Workshop Organization*

The following process is being considered to schedule and organize the science workshops.

##### May 2014

Through conversations with key scientists, the more credible and feasible modeling and analytical approaches will be identified.

##### June 2014

An in-person model-building workshop will be held in June to finalize the approach with broad representation from the science community including those with an established scientific record of

- 1) modeling key relationships between threats, habitat, and sage grouse,
- 2) research in sage grouse or sagebrush ecosystem ecology, or
- 3) research in advanced modeling or analytical methods applicable to the status review.

##### July 2014

The model-building workshop will be followed by a peer-review workshop in July.

##### August 2014

Expert elicitation workshop(s) to parameterize models will follow in late summer and fall as needed.