From: DElia, Jesse
To: Davis, Dawn
Cc: Wiechman, Lief; Abele, Steve; Pat Deibert
Subject: Re: GRSG 2015: Species Report Outline
Date: Monday, March 30, 2015 12:53:27 PM
Attachments: GRSG2015_Outline_SpReport_20150326 (draft) jd.docx

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Hi all,

I've taken this latest version and attempted to incorporate all the input. I've also added my 2cents for trying to eliminate some duplication in our summary sections. See what you think.

On Mon, Mar 30, 2015 at 10:38 AM, Davis, Dawn <dawn_davis@fws.gov> wrote:

> Comments attached.
>
> On Fri, Mar 27, 2015 at 11:31 AM, Wiechman, Lief <lief_wiechman@fws.gov> wrote:
>
> > Hey Gang!
> >
> > As promised, here's an amalgamation (*10-point word*) of the original Sp. Report outline, coupled with the Bi-State TOC, and what Jesse provided last week. The original was reviewed by Mary, Nicole, and a few members of the Writing Team. I tweaked it and added some other descriptions.
> > Take a look. I think I've captured Jesse's idea of the summary early while retaining the structure of "tell us whats at risk, then how it's being addressed". The Summary/Cumulative Effects Section could probably use some tweaking...
> >
> > I suggest we make comments/edits in track changes and send to the group, and in the meantime if I can put it on SharePoint, but block permission from anyone but us 5, I will. I don't want those who peruse SP to see this and run with something.
> >
> > Happy Friday,
> >
> > LW
> >
> > ***Lief Wiechman***
> > **Sage-grouse Ecologist**
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> > **Mountain-Prairie Region**
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> > **lief_wiechman@fws.gov**
> >
> > On Thu, Mar 26, 2015 at 5:25 PM, Wiechman, Lief <lief_wiechman@fws.gov> wrote:
> >
> > > All,
> > >
> > > In an effort to reduce some potential duplicate effort and make sure we consider the structure presented leading up to us (SLT) getting the whole lot, I'm going to take what Jesse put together and integrate it into the Sp.Report outline created by the Writing Team et al. I remember that they took the components from the Bi-State and tweaked it

for our needs.

I'll work on adding in and we can review/adjust/edit as appropriate.

LW

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On Wed, Mar 25, 2015 at 2:34 PM, Abele, Steve <steve_abele@fws.gov> wrote:

You probably have this but this is the TOC for bi-state

On Tue, Mar 24, 2015 at 3:27 PM, DElia, Jesse <jesse_delia@fws.gov> wrote:

SLT,

I've been trying to wrap my head around the format of the species report and how (and where) we will incorporate regulatory mechanisms (including BLM/FS planning efforts) and conservation actions.

I basically took the Bi-State format and tweaked it a bit for our purposes. See what you think. This format would allow us to put the major conservation efforts up front, and then weave in specifics about the various plans throughout the threat chapters. There is also a place at the end of the report to summarize land management, population trends, and threats, by MZ.

Once we get this foundation down, we can start building in the figures and tables we want to include in each chapter/section, so we can get a handle on where the gaps are.

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Greater Sage-Grouse Species Report Outline

Introductory and Background Section

Executive Summary ***(Amy Nicholas)***

Short (2-3 page) summary of the report.

~~Chapter:~~ Introduction ***(Sarah Backsen)***

- Regulatory History (including all FR notices and litigation) – including how we got to 2010 finding.
- Process for 2015 Status Review
- Species Report Overview

~~Chapter:~~ Species Description ***(Amy Nicholas and Craig Hansen)***

Very brief chapter; much can be incorporated by reference.

- Species Description
- Taxonomy
- Genetics
- Life history and ecology (all life stages: breeding, nesting, brood rearing, wintering, movement/migration)

~~Chapter: Current Biological Status~~Range, Distribution, and Population Estimates ***(Amy Nicholas and Craig Hansen)***

~~Include occurrence table here.~~

- Historical Range
- Current Range/Distribution and Population Estimates/Annual Lek Counts
- Management Zone Discussion/Description (one for each management zone with reference to populations contained within)
    - [*Figure – WAFWA MZs, populations, and range map*]
    - [*Figure – PACs map*]
    - [*Figure - Distribution models by MZ*]
    - [*Table - Numbers from Distribution models by MZ*]
    - [*Figure – Abundance models by MZ*]
    - [*Table - Numbers from Abundance models by MZ*]

- ***~~Chapter:~~*** Land Ownership and Management ***(TBD)***
    - [*Figure - Land Ownership status by MZ*]
    - [*Table – Land Ownership status by MZ*]

Conservation Efforts

~~Summary (2-3 pages) of Ownership, and types of decisions and management actions that are associated with each agency/owner~~

- ~~[*Figure - Land Ownership status by MZ*]~~
- ~~[*Table – Land Ownership status by MZ*]~~

- ~~Federal Lands~~
    - ~~USFS~~
    - ~~BLM~~

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- Federal LUP Amendments / Planning efforts
    - Disturbance Monitoring
    - Adaptive Management
    - Mitigation
    - FIAT
- State Planning Efforts
    - ~~FWS/Refuges~~
    - ~~NPS~~
    - ~~DOD/DOE~~

  CCAs/CCAAs

  NRCS/SGI

  Other
- ~~Tribal Lands~~
- ~~State Lands~~
- ~~Private Lands~~
    - ~~FWS~~
        - ~~CCA/CCAA~~
    - ~~NRCS~~
        - ~~SGI~~

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~~Effects~~ Impact Analysis ~~(Potential Threats/Risks)~~

Include threats table to indicate cumulative threats or threat interactions. All threats will use Management Zone as the common spatial scale.

Habitat Loss and Fragmentation

~~*Chapter: (Tier 1)*~~ ***Wildfire (Altered Fire Regime)*** *(Genevieve Skora)*

~~*Chapter: (Tier 1)*~~ ***Noxious Weeds and Invasives*** *(Dawn Davis)*

~~*Chapter: (Tier 1)*~~ ***Conifer Encroachment*** *(Jeff Everett)*

~~*Chapter: (Tier 1)*~~ ***Agricultural Conversion*** *(Joy Gober)*

~~*Chapter: (Tier 1)*~~ ***Oil & Gas*** *(Amy Nicholas)*

~~*Chapter: (Tier 2)*~~ ***Mining*** *(Ron Baxter)*

~~*Chapter: (Tier 2)*~~ ***Renewable Energy*** *(Lisa Solberg Schwab)*

Wind

Solar

Geothermal

~~*Chapter: (Tier 2)*~~ ***Infrastructure*** *(Heather McPherron)*

Roads

Power Lines

Communication Towers

Fences

~~*Chapter: (Tier 3)*~~ ***Fences*** *(Jennifer Siani)*

~~*Chapter: (Tier 3)*~~ ***Grazing and Rangeland Management*** *(Craig Hansen)*

~~*Chapter: (Tier 3)*~~ ***Free-Roaming Equids*** *(Jennifer Siani)*

~~*Chapter: (Tier 2)*~~ ***Urban and Exurban Development*** *(Joy Gober)*

Landfills

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~~Chapter: (Tier 3)~~ ***Recreation*** *(Angela Burgess)*
~~Chapter: (Tier 3)~~ ***Climate Change*** *(Holly Freifeld)*
~~Chapter: (Tier 3)~~ ***Drought*** *(Angela Burgess)*

Comment [JD1]: Move these to other threat factors?

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Overutilization

~~Chapter: (Tier 3)~~ ***Hunting*** *(Amy Nicholas)*
~~Chapter: (Tier 3)~~ ***Scientific and Education Purposes*** *(TBD)*

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Disease and Predation

~~Chapter: (Tier 3)~~ ***Disease*** *(Holly Freifeld)*
~~Chapter: (Tier 3)~~ ***Predation*** *(Lara Drizd)*

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Other Threat Factors

~~Chapter: (Tier 3)~~ ***Small population and life history traits affecting population viability*** *(Lief Wiechman)*
~~Chapter: (Tier 3)~~ ***Contaminants*** *(Angela Burgess)*
Synergistic Impacts

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Existing Regulatory Mechanisms

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Local
State
Federal

~~Compounding Effects~~

~~***Chapter: Summary of Threat Interactions (TBD)***~~

~~It will describe synergistic relationships among threats described in chapters above. These relationships are identified in individual threat chapters under compounding effects. This chapter will lead reader into cumulative threats discussion below. (Examples: Fire and Invasives, Fire and Conifer, Anthropogenic disturbance and predators)~~

Summary of Species Status and Impacts~~Effects~~ by Management Zone

~~*Each chapter in this section will be written by management zone and each management zone will have a lead (may tap into others outside of the state).*~~

~~***Chapter: Cumulative Threats by Management Zone (TBD)***~~

~~This chapter is the discussion of cumulative threats by MZ. This chapter will identify all threats by MZ, relying on threat interactions described in previous chapter and spatial threat concentration information of primary threats. This allows an examination of primary threats that we have quantitative/spatial information for, and a concomitant examination of other threats tied to the primary threat by MZ.~~

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- MZ 1 (Montana ~~TBD~~ Jeff Berglund/ ND – Kevin Shelley) [support from Wyoming and South Dakota)
- MZ 2 (Wyoming ~~TBD~~ Lisa Solberg Schwab [Support from Montana, Colorado, Utah])
- MZ 3 (Nevada – TBD / Utah – TBD) – Jay Martini/Ron Baxter?
- MZ 4 (Idaho – TBD [Support from Oregon, Nevada, Utah, Montana])
- MZ 5 (Oregon – TBD [Support from Nevada, California])
- MZ 6 (Washington – TBD) (potentially Jessi Gonzales, Heather)
- MZ 7 (Colorado – TBD)

~~***Chapter: Threat Amelioration (TBD)***~~

~~This chapter would describe the efforts implemented and planned to reduce or remove threats and risks on the landscape. Summaries of conservation action information would be summarized from CED, as well as evaluation of plans, policies, and regulatory mechanisms, broken down by MZ.~~

~~The following sub-sections are recommended for this MZ subsection, based on the organization of the 2010 greater sage grouse finding:~~

- ~~Laws, regulations, Polices and Management Plans~~
  - ~~Federal Lands~~
    - ~~BLM/FS LUP Amendments / Planning efforts~~
      - ~~Disturbance Monitoring~~
      - ~~Adaptive Management~~
      - ~~Mitigation~~
      - ~~FIAT~~
  - ~~FWS/Refuges~~
  - ~~NPS~~
  - ~~DOD/DOE~~
  - ~~Other?~~
- ~~Tribal Lands~~
- ~~State Lands~~
- ~~Local Lands~~
  - ~~Private Lands~~
    - ~~FWS CCAA~~
    - ~~NRCS SGI~~
  - ~~Canadian Federal and Provincial Laws and Regulations~~
- ~~Conservation Measures~~
  - ~~CED Summaries~~

Overall Summary ~~of Species Status and Impacts~~

~~***Chapter: Overall Summary of Species Status and Impacts***~~

~~*What's new and different since 2010 status determination? Include Changes over Time Table.*~~

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- ~~MZ 1 (Montana – TBD [support from Wyoming and South Dakota)~~
- ~~MZ 2 (Wyoming – TBD [Support from Montana, Colorado, Utah])~~
- ~~MZ 3 (Nevada – TBD / Utah – TBD)~~
- ~~MZ 4 (Idaho – TBD [Support from Oregon, Nevada, Utah, Montana])~~
- ~~MZ 5 (Oregon – TBD [Support from Nevada, California])~~
- ~~MZ 6 (Washington – TBD)~~
- ~~MZ 7 (Colorado – TBD)~~

Support Sections

REFERENCES CITED

APPENDIX A — DEFINITIONS
APPENDIX B — ACRONYMS USED
APPENDIX C — OCCURRENCE TABLE (if too large to include in that section)
APPENDIX D — THREATS SUMMARY TABLE (if too large to include in that section)
APPENDIX E — CHANGES OVER TIME SUMMARY TABLE (if too large to include in that section)
APPENDIX F — MANAGEMENT ZONE (and POPULATION) MAPS
APPENDIX G — NON-REGULATORY MECHANISMS EVALUATED

~~Tools for Writers:~~

- ~~Chapter Template ***(Amy Nicholas)***~~
- ~~Occurrence Table ***(Amy Nicholas)***~~
- ~~Threat Summary Table ***(Amy Nicholas)***~~
- ~~Changes over Time Summary Table ***(Amy Nicholas)***~~

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