BIGHORN SHEEP: SUPPLEMENTAL ANALYSIS TO THE FOREST PLAN ENVIRONMENTAL IMPACT STATEMENT—INTERDISCIPLINARY TEAM MEETING

AmericInn Hotel Meeting Room

211 South 3rd Street, McCall, Idaho

October 15–16, 2007

ATTENDEES

- Vic Coggins, Oregon Dept. of Fish and Wildlife
- Ana Egnew, Payette Forest Wildlife Biologist (Monday only)
- Craig Ely, Oregon Dept. of Fish and Wildlife
- Bob Giles, Payette Forest (Monday only)
- Keith Lawrence, Nez Perce Tribe
- Curt Mack, Nez Perce Tribe
- Susan Miller, Payette Forest Ecologist
- Mickey Pillers, Payette Forest
- Suzanne Rainville, Payette Forest Supervisor (Monday only)
- Carl Scheeler, Confederated Tribes of the Umatilla
- Tim Schommer, Wallowa Whitman National Forest (Monday only)
- Pattie Soucek, Payette Forest Planner/ Interdisciplinary Team Leader
- Paul Wik, Washington Dept. of Fish and Wildlife (Monday afternoon and Tuesday all day)

PROCESS SUPPORT

- Susan Hayman, Facilitator, North Country Resources, Inc.
- Roinda Plesner, Documentation, Peak Science Communications

MEETING OBJECTIVES

1. Determine the method and measurement criteria for the viability analysis.
2. Finalize the habitat modeling parameters and assumptions that will be used in the analysis.
3. Finalize the Salmon River GPR.
4. Identify alternatives to be addressed in the analysis.

DOCUMENTATION—APPENDICES

1. Appendix 1 contains the meeting agenda.
2. Appendix 2 contains the transcribed flip chart notes, which document key points of discussion captured during the October 15–16, 2007, meeting.
3. Appendix 3 contains a complete list of substantive interdisciplinary team (IDT) agreements and Forest Supervisor decisions recorded at this meeting.
4. Appendix 4 contains the BIN list, updated to remove completed items.

ACTION ITEMS

What	Who	When
1) Provide numbers/analysis to support conclusionary statement regarding viability	Dale Toweill	Oct 29
2) Determine (and report to IDT) how many telemetry points fall within adjusted habitat buffers	Chans O'Brien	Oct 29
3) Develop map of known travel corridors	Keith Lawrence, Susan Miller, Chans O'Brien	Oct 29
4) Check with OGC at completion of technical report to determine their assessment of the defensibility of the analysis	Pattie Soucek	TBD
5) Provide electronic/color copy of Clifford et. al. "Modeling Risk of Disease Transmission…" to IDT	Ana Egnew (thru Susan Hayman)	Oct 29
6) Check to see if there is an economic-related measurement criterion for this project (Issue Indicator)	Pattie Soucek	Oct 29
7) Develop *first draft of technical report for IDT review and comment	Vic Coggins, Dale Toweill, Tim Schommer, Clint McCarthy, Curt Mack, Susan Miller ("Chair"), Paul Wik	Pre work by Oct 29 *TBD
8) Develop refined Salmon River GPR with best available data	Dale Toweill, Keith Lawrence, Chans O'Brien	Oct 29
9) Provide the IDT a list of bighorn sightings included in the Fauna database	Chans	TBD
10) Define adaptive management as used in the Forest Plan, provide an example or two of how adaptive management would be used in the forest plan, and email this to the IDT via email	Pattie	TBD

The next meeting is scheduled for October 29, 2007, from 8:30 A.M. to 3:00 P.M.

Day 1

OPENING

Welcome

Suzanne Rainville opened the meeting by acknowledging the review and confirmation sessions in the agenda, which will allow the IDT to track agreements easily. The Forest Service (FS) is attempting to finish the alternatives for the draft by the end of October. Rainville stated that the draft does not need to be perfect, but needs to be submitted for public review. Information obtained after the draft can be used to improve the final.

Pattie Soucek reiterated the need to push forward. Comments from the draft will need to be addressed for the final document.

Meeting Overview

Susan Hayman welcomed everyone, reviewed the meeting ground rules, explained her role, and asked participants to introduce themselves. Hayman reviewed the meeting agenda and pointed out that finalizing the Salmon River geographic population range (GPR) might not be an advisable objective for today's meeting due to the absence of Dale Toweill (Idaho Department of Fish and Game).

ACTION ITEMS FROM LAST MEETING

Action Item 1—Remove "confidential" from meeting summaries and redistribute to IDT (Susan Hayman)

This action item has been completed by Hayman and new meeting summaries have been distributed to participants.

Action Item 2—Provide the IDT a map of Forest Plan management areas (Pattie Soucek)

Soucek provided hard copies of management area maps at this meeting. Questions regarding those maps should be directed to Soucek.

Action Item 3—Provide the IDT a list of bighorn sightings included in the Fauna database (Chans O'Brien)

This action item is pending.

Action Item 4—Define adaptive management as used in the Forest Plan, provide an example or two of how adaptive management would be used in the Forest Plan, and email this to the IDT via email (Pattie Soucek)

This action item is pending.

Action Item 5—Continue Viability Subcommittee discussions to develop a proposal for viability definition and measurements; distribute to the IDT prior to the next meeting (Viability Subcommittee)

This action item has been added to the agenda for the meeting today.

Action Item 6—Identify known BHS travel corridors on a map and provide this to Chans (Vic Coggins and Susan Miller)

This action item is in progress.

Run the habitat model with Dale Toweill's buffers for comparison with the current buffers, and provide this to the IDT (Chans O'Brien)

This action item has been added to the agenda for the meeting today.

Model travel corridors for IDT review and refinement (Chans O'Brien)

This action item is in progress.

Identify habitat components for the 8% of telemetry points that occur outside of modeled BHS habitat; also, see if changes to the model for travel corridors and new buffers pick up any of these telemetry points (Chans O'Brien)

This action item has been added to the agenda for the meeting today.

MEETING SUMMARY

Proposed changes to the September 25, 2007 meeting summary were reviewed and discussed. Changes approved by the IDT will be made, and corrected electronic copies will be provided to IDT members.

VIABILITY ANALYSIS

Synthesis of available analysis methods

Susan Miller provided a summary regarding the "Viability Assessment Options" handout. Miller pointed out that this is not an exhaustive list, and that the pros and cons are in regards to the Supplemental Analysis to the *Payette National Forest Land and Resource Management Plan* (Forest Plan) Final Environmental Impact Statement (FEIS) and not the analysis methods themselves. The following is a list of viability options described and discussed:

1. PVA Analysis
2. UC Davis Reed–Frost Approach
3. BBN Model
4. Update Risk Analysis and Qualitative Ranking of Alternatives
5. Qualitative ranking of alternatives with no update of risk analysis

Analysis Strategy Tasks/Assignments

Appendix 3 contains the IDT areas of agreement and Forest Supervisor decisions in regard to this agenda topic.

A Technical Report Team was formed that included Vic Coggins, Tim Dykstra, Curt Mack, Clint McCarthy (will serve as an adjunct team member representing the FS Intermountain Region Office), Susan Miller (coordinator), Dale Toweill, and Paul Wik.

MODELING DATA

Habitat Model

Soucek presented the revised buffer modeling data on-screen with help from Mickey Pillers. After discussion, the IDT reach agreement, and the Forest Supervisor concurred, on habitat parameters for escape terrain,

acceptance of the habitat model in consideration of the 92% point capture, and the mapping of travel corridors.

Appendix 3 contains the IDT areas of agreement and Forest Supervisor decisions in regard to this agenda topic.

Salmon River GPR

Due to the absence of Dale Toweill and Chans O'Brien, this topic was deferred for discussion until the October 29 meeting.

CLOSING

Hayman ended the Day 1 meeting by reminding the IDT that they would review this afternoon's agreements tomorrow morning. Hayman briefly reviewed today's IDT agreements. Tomorrow's meeting will begin at 8:00 A.M. by consensus of the IDT.

The meeting adjourned at 4:54 P.M.

HANDOUTS

1. Agenda
2. "BIN (from August 14, August 30 and September 25, 2007)." Handout from Susan Hayman. 2 p.
3. "Viability Assessment Options." Handout from Susan Miller dated October 12, 2007. 4 p.

Day Two

Overview

Hayman opened the Day 2 meeting by reviewing the agenda.

Review and Confirmation of Previous Afternoon's Agreements and Decisions

The IDT reviewed a summary of Day 1 agreements and decisions provided in handout form by Hayman and Plesner. There was minor tweaking of verbiage, with the exception of the description of the technical report content and process. The IDT clarified and refined this description, and felt that it was still in line with the Forest Supervisor's decision. Appendix 3 contains the IDT areas of agreement and Forest Supervisor decisions in regard to this agenda topic.

Alternative Development

Before NEPA requirements were presented and discussed, the IDT discussed alternative development and developed a "tickler list" to remind them of important concepts during alternative development (see Appendix 2—Flip charts, Summary page 14).

NEPA requirements/Review existing Forest Plan direction/Define key issues

Soucek described the Forest Plan for the IDT members. There are two levels of management in the Forest Plan: the forest-wide level and the management-wide level. Five main areas of the Forest Plan were described and discussed:

1. Forest-wide direction (applies to the entire forest)
2. Goals in the rangeland section
3. Objectives (amount of something or someplace you want to be at a time and place, usually a measurement)
4. Standards (have to be applied)
5. Guidelines (also have to be applied - if not, must demonstrate that not following the guideline is better than following the guideline)

Review existing proposed alternatives for FEIS Alternative 7 (7a–7f from August 14 meeting folder)

Soucek presented the discussion and Pillers navigated the computer to display the maps of the alternatives. Soucek briefly displayed and described the Forest Plan alternatives.

Develop other alternatives that address key issues, if needed

The IDT spent a considerable amount of time discussing the existing issues, and identifying options for potentially developing new alternatives. They identified preliminary alternatives to recommend carrying into detailed analysis, and some to drop from further analysis. They agreed to finalize recommendations on preliminary alternatives at the next meeting, once they have agreed on the Salmon River GPR.

Appendix 3 contains the IDT areas of agreement in regard to this agenda topic.

NEXT STEPS

Bin Items

The IDT reviewed two previously typed flipcharts containing BIN items from the previous meetings (see Appendix 3). Completed BIN items were noted, and will be removed from the carryover list for the October 29 meeting.

Meeting Schedule

The next meeting is scheduled for October 29, 2007, at 8:30 a.m. The IDT agreed to adhere to the previously agreed upon meeting schedule.

Evaluation (round-robin)

The IDT participated in a meeting evaluation round-robin. Each IDT member contributed to the evaluation.

CLOSING

The meeting adjourned at 3:20 P.M.

HANDOUT

1. "October 15, 2007 Agreements." Handout from Susan Hayman. 2 p.

APPENDIX 1—AGENDA

Bighorn Sheep: Supplemental Analysis to the Forest Plan Environmental Impact Statement
Interdisciplinary Team Meeting
October 15 – 16, 2007
AmericInn Hotel Meeting Room, 211 South 3rd St., McCall, ID 83638

Meeting Objectives:

1) Finalize the definition, method and measurement criteria for the viability analysis.
2) Finalize the habitat modeling parameters and assumptions that will be used in the analysis.
3) Finalize the Salmon River GPR.
4) Identify alternatives for the analysis
5) Develop a preliminary adaptive management framework.

Monday, October 15 Agenda (8:30 a.m. to 4:30pm)

Time	Topic	Process / Product
8:15 a.m.	Refreshments available in meeting room	
8:30 a.m.	Opening • Welcome and opening remarks – Suzanne Rainville, Payette Forest Supervisor – Susan Miller, Payette Forest Ecologist • Meeting overview, September action items, group agreements – Susan Hayman, Facilitator	Information
8:50 a.m.	September 25, 2007 Meeting Summary • Framing the discussion – Susan H. • Proposed edits (per Second Draft) • Action item review	Discussion; IDT decision
9:30 a.m. (A 15-minute break will be taken)	Viability Analysis: Definition, method and measurement criteria • Framing the discussion – Susan M. • Small group report • ID team discussion	Discussion; Forest supervisor decision *Product:* • *ID team areas of agreement and disagreement;* • *Forest Supervisor decision on the viability definition, method and measurement*

Time	Topic	Process / Product
		criteria for this analysis
11:45 a.m.	LUNCH (on your own)	Break
1:00 p.m.	Review and confirmation of morning agreements and decisions – Susan H.	Discussion; IDT and Forest Service confirmation
1:30 p.m. (A 15-minute break will be taken)	Modeling Data • Framing the discussion – Susan M. • Habitat model - Adjusted buffers - Travel corridors - Habitat components for "8%" telemetry points • Salmon River GPR: What is the occupied habitat for this metapopulation on the Payette National Forest?	Discussion; Forest supervisor decision *Product:* • *ID team areas of agreement and disagreement;* • *Forest Supervisor decision on the habitat model parameters and Salmon River GPR*
3:15 p.m.	Review, refine and trim BIN list – Susan H.	Discussion; IDT decision
4:15 p.m.	Wrap-up Day 1; preview Day 2 – Susan H.	Information
4:30 p.m.	Adjourn	

Tuesday, October 16 Agenda (8:30 a.m. to 3:30 p.m.)

Time	Topic	Process / Product
8:15 a.m.	Refreshments available in meeting room	
8:30 a.m.	Day 2 overview – Susan H.	Information
8:45 a.m.	Review and confirmation of the previous afternoon's agreements and decisions – Susan H.	Discussion; IDT and Forest Service confirmation
9:15 a.m. (A 15-minute break will be taken around	Alternative Development o NEPA requirements o Review existing Forest Plan direction o Define key issues o Review existing proposed alternatives for FEIS	Discussion; *Product:* • *A list of proposed alternatives for analysis* • *ID team areas of agreement and disagreement on this*

Time	Topic	Process / Product
10:00 a.m.)	Alternative 7 (7a – 7f from August 14 meeting folder) o Develop other alternatives that address key issues, if needed	*list;*
12:00 p.m.	LUNCH (on your own)	Break
1:00 p.m.	Review and confirmation of morning agreements and decisions – Susan H.	Discussion; IDT and Forest Service confirmation
1:30 p.m.	Adaptive Management • Triggering mechanisms • Monitoring • Management response	Discussion *Product: Preliminary adaptive management framework (finalized with preferred alternative)*
2:30 p.m.	BREAK	
2:45 p.m.	Next steps • Framing the discussion – Susan Hayman • Bin Items • Tasks/assignments • Meeting schedule, objectives - October 29 - November 30 - December 10 (Boise?) • Evaluation (round-robin)	Discussion; ID team decision *Products:* • *List of bin items and disposition;* • *Assignments for the next meeting;* • *Meeting schedule through December* • *Preliminary objectives for the next meeting*
3:25 p.m.	Closing remarks – Suzanne Rainville	Information
3:30 p.m.	Adjourn	

APPENDIX 2—TRANSCRIBED FLIP CHART NOTES

(Note: Facilitator additions to clarify the text are italicized. Green text indicates IDT areas of agreement and blue text indicates a decision by Suzanne Rainville, Payette Forest Supervisor.)

Viability Methods

1. Dale's concern re: viability analysis thru PDA structure → this concern would be consistent for any analysis methods
   - If viability goes to zero with any contact, this would seem to reach a conclusion regarding mgt options
   - Agree that risk of contact is the issue
   - Speaks to need to minimize risk for less than one contact/year

1

Viability Methods (cont.)

2. If you are going to propose actions that may result in contact, you need to do a viability analysis to define effects.

   If you are <u>not</u> proposing anything that will result in contact, no need for viability analysis.
3. Since risk of disease is primary issue, risk assessment options may be best course for addressing this
4. Think about using ≤2% risk of contact as measure for viability

2

Viability Methods (cont.)

5. Issue is disease trans– not habitat. Is risk assessment best tool to evaluate viability?
6. Test→ that analysis is legally defendable &meets chiefs instructions
7. Cherry pick? Can use existing work, rather than inventing new. Use this info to frame assumptions
8. Try to quantify level of risk "low, med, high" in risk assessment

3

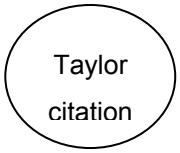
Viability Methods (cont.)

9. May be able to utilize modeling in risk assessments to evaluate alts., or preferred alts
10. Providing habitat, well-distributed-viability call for this analysis.
    - Sheep presence affects BHS herds
11. Can "thresholds" be identified? E.G. must meet ≤2% risk
    - Yes, define thresholds
    - Define H,M, L

4

New Habitat Parameters
(escape terrain)

1000m buffer or land areas ≤ 2000m wide, bounded on 2 sides by escape terrain (500M) (IDT Agreement and Forest Supervisor Decision)



5

New Habitat Parameters (cont.)

Since existing habitat model captures 92% + telemetry points, IDT agrees to accept habitat model, with "Taylor" buffers

6

New Habitat Parameter (cont.)

- Use known travel corridors. Be specific that these are known travel corridors, and not necessarily all the travel corridors
- Do not model travel corridors at this time. Currently, inadequate data. may be useful in the future

7

Forest Supervisor Decision:

Will not use full BBN at this time in this analysis, to the extent that it might draw in the Boise, Sawtooth Forests (which is beyond the scope of this analysis).

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Analysis Strategy

1. Develop technical report that:
   (without regard to allotment boundaries)
   a) Quantify risk ratings (high, med, low, very low)
   b) Find tie between risk ratings & viability
   c) Define "thresholds"
   d) refine "metapopulations" conclusions based on telemetry data
   e) Capture any other "new information"
      Chans' data
      Home range (GPR)
      Habitat modeling
      Incorporate new BLM risk rating of allotments

UC Davis "crosswalk" findings for b,c

Use "e" to inform a,b,c

9

Analysis Strategy

IDT Agreement and Forest Supervisor Decision

1. Complete technical report (Reed-Frost qualitatively)
2. Report findings to OGG & get advice on need for full Reed-Frost or for BBN approach, and if needed what degree it should be done.

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Significant Issues 1. Risk to BHS viability— "May affect disruption, vulnerability and disease risk…" 2. Impact on domestic sheep grazing 11	**Alternative Development** Purpose: 1. To respond to significant issues 2. To demonstrate a range of effects Includes: • "No action" alternative • Alternatives considered, but not carried into detailed study • Alternatives carried into detailed study *Alternatives don't have to be legal/viable to be carried into detailed study • Selected alternatives must be able to meet desired conditions 12
Suzanne's vision Start with: 1. Map of source habitat 2. GPRs 3. Draw a map, based on habitat and known population, map areas of: • Very high risk of contact & disease trans. • High • Mod • Low • Very low *Without regard to existing allotments/allotment boundaries 13	**Things to think about for Alternative Development** • Tie to terrain, features, etc., rather than current allotment boundaries • Can develop "theoretical" alternatives (based on descriptions, etc. instead of hard lines) • Alternatives may tie to occupied habitat • Alternatives may tie to source habitat 14

Measurement Criteria

Preliminary –IDT Agreement

- Acres of suitable domestic sheep range with in BHS habitat (not necessarily occupied)
  Issue indicator FEIS p1-15
- Risk of contact (per technical report)
- Where are areas/acres of suited domestic sheep range with respect to BHS range
- Risk to viability (per technical report)
- How the alternatives contribute to state and tribal goals and objectives
- ~~How HCA goals are met/contributed to~~
- ~~How recovery goals are addressed~~

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Occupied Habitat

1. On west side, 100% GPR mapped according to best available info/data
   - On east side—TBD

16

Alternative Development "Tickler List"

1. Need for operational and monitoring components (allotment mgt. instructions, standards, etc.) mgt. "toolbox"
   - Adaptive mgt. components—how does this fit w/alt development?
   - Alternatives include:
   - Goals, objectives, standards, guidelines, etc, (appendix)
   - Forest-wide/mgt. areas
   - Desired conditions

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Alternative Development "Tickler List" (cont.)

- How will we define "well-distributed" habitat?
- Temporal issues related to distribution, risk of contact, risk to viability
- Monitoring—elements and frequency
- Methods of separations—triggers for certain actions

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Treatment of Existing Alternatives

1. Alternatives 1, 2, 5, 7 and 3, 4, 6 (existing)
2. Alt 7a, 7c, 7f—currently dropped (from detailed analysis)
3. Alt 7b, 7d, 7e—currently considered for detailed analysis

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Current Alts

Evaluation

1. Agree w/ the FS decision to drop from detailed study 7a, 7c
2. Agree with adding 7g
3. *Treat as 3 separate: 7e, 7h, 7i or
   *Agree with expanding description of 7e to include:
   - 7h—occupied habitat plus 9-mile buffer
   - 7i—modeled habitat w/ 1-mile buffer

   (October 29 decision pt.)
4. 7d/g—Purely occupied habitat
5. 7j—No grazing in occupied or in high/mod risk areas (SRGPR)

   (October 29 decision pt.)

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Other Options

1. Develop occupied BHS map for Payette
   - Develop separation standard
   - Theme for alternative (7d)
6. Areas outside of existing allotments should not be considered suitable for grazing
7. Modify alts to account for source habitat outside of GPRs (e.g. Pollack Mtn.)
8. Apply buffers around occupied habitat (to create more/adeq. separation between BHS, domestic sheep)

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Other Options (cont.)

9. Base an alternative around source habitat

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Still to Analyze/Collect	Agreements
1. Economic factors Tribal-identified issues needing to be addressed in SEIS (will be formally communicated to Forest Service within next week or so) • Cultural concerns related to BHS • Ecological function of BHS • Economic (benefits of BHS by activity) • Other areas of FEIS that need to be addressed in SEIS 23	"√"=confirmed 1. √ Changes to Sept 25 mtg summary 2. √ Habitat parameters (buffers) 3. √ 92% point capture 4. √ Mapping travel corridors 5. √ Analysis strategy 6. √ Preliminary measurement criteria 7. √ Initial agreements on subset of alts to carry, to analyze, to consider on 10/29. 24

8.

Action Items	Action Items
1. Provide numbers/analysis to support conclusionary statement regarding viability. Dale • Determine (and report to IDT) how many telemetry points fall within adjusted habitat buffers. Chans • Develop map of known travel corridors. Keith, Susan M., Chans • Check with OGC at completion of technical report to determine their assessment of the defensibility of the analysis. Pattie 25	• Provide electronic/color copy of Clifford et. al. "Modeling Risk of Disease Transmission…" to IDT. Ana (through Susan H.) • Check to see if there is an economic-related measurement criterion for this project (issue indicator). Pattie • Develop first draft of technical report for IDT review and comment (get a framework and communicate to IDT). Vic, Dale, Tim, Clint, Curt, Susan M. ("chair"), Paul • Develop refined Salmon River GPR with best available data. Dale, Keith, Chans 26

APPENDIX 3—IDT AGREEMENTS AND FOREST SUPERVISOR DECISIONS

1. Changes to September 25 meeting summary

Reviewed and accepted by the IDT – Done

2. Habitat parameters

New Habitat Parameter (escape terrain): 1000 m buffer or land areas ≤ 2000 m wide, bounded on two sides by escape terrain (500 m)

Agreement by the IDT

Forest Supervisor decision affirms IDT, if Taylor citation can be used

3. 92% point capture

Since existing habitat model captures at least 92% of telemetry points, IDT agrees to accept the habitat model, with "Taylor" buffers

Agreement by the IDT

Forest Supervisor decision affirms IDT

4. Mapping travel corridors

Map known travel corridors. Be specific that these are the known travel corridors only, and not necessarily all the travel corridors.

Do not model travel corridors at this time. Currently, there is inadequate data. This modeling may be useful in the future.

Agreement by the IDT

Forest Supervisor decision affirms IDT

5. Analysis Strategy

New information will be used to reassess risk and effects described in the 2006 risk analysis. A formal update of the 2006 Risk Assessment will not be completed.

1. Complete technical report[1] (Reed-Frost, qualitatively applied). Develop a technical report to:
   a. Revisit and quantify risk of contact and risk to viability across the Payette forest and crosswalk UC Davis "threshold" if appropriate
   b. Map risk ratings across the forest without regard to allotment boundaries
   c. Find tie between risk ratings and viability (UC Davis/Dale Toweill)
   d. Define "threshold" (contact risk and viability)[2]

[1] Technical Report Team = Vic Coggins, Tim Schommer, Curt Mack, Clint McCarthy (adjunct member), Susan Miller, Dale Toweill, and Paul Wik

[2] Crosswalk with UC Davis findings

e. Reassess risk and "metapopulations" conclusions from the 2006 risk analysis.

Items 'a' through 'e' above will be facilitated through use of the following new information:

- Telemetry data
- Home range (GPR)
- Habitat modeling
- Incorporate new BLM risk rating of allotments

2. Report findings to OGC and get advice on need for partial/full Reed-Frost analysis, or need to take a BBN approach instead

Agreement by the IDT

Forest Supervisor decision affirms IDT

6. Use of BBN

Forest Supervisor Decision:

We will not use the full BBN analysis at this time, because it might draw in the Boise and Sawtooth forests (which are beyond the scope of this analysis).

7. Preliminary Measurement Criteria

The IDT agreed that the following was an acceptable starting place:

- Acres of suitable domestic sheep range within BHS habitat (not necessarily occupied). Issue Indicator in FEIS (page 1-15)
- Risk of contact (per technical report)
- Location of areas/acres of suited domestic sheep range with respect to BHS range
- Risk to viability (per technical report)
- How the alternatives contribute to state and tribal management goals and Objectives

8. Preliminary Alternatives

The IDT agreed to the following:

2. Drop alternatives 7a and 7c from detailed study

- Develop alternative 7g from alternative 7d. Alternative 7g will have the same description as alternative 7d but will contain new data.
- Add the following as an October 29, 2007, decision point: Reexamine alternatives 7e, 7h, and 7i.
- Add the following as an October 29, 2007, decision point: Create an alternative with no grazing in occupied (Salmon River GPR) habitat or in high/medium risk areas.
- Revisit alternatives when the Salmon River GRP is presented at the next meeting.

APPENDIX 4—UPDATED BIN LIST

[NOTE: ITALICIZED TEXT STATES DISPOSITION OF BIN ITEM]

1) Risk assessment/Viability-fit together—*In progress*
2) BHS mgt goals for forest instead of statewide (there is a goal for Hells Canyon)
   - Use Idaho Fish and Game existing plans—State bighorn sheep plan
3) What is IDT interested in making recommendations on? (issues?)
   - *Resolved →in protocol and through discussion*
4) Opportunity to update veg data/model to reflect fire info?
   - *Supplement with new information as available*
   - *Updated LandFire and forest veg. map may not be completed in time for a decision. Should be addressed as "new information" as appropriate through forest plan monitoring.*
5) Update cycle for data (e.g. 2007 telemetry points.)—*In progress*
6) Ability to apply WAFWA criteria to model
   - *Not criteria to model but useful tool and forest plan direction*
7) Question of not including outliers in adjusted fixed kernel analysis. Is it appropriate to exclude them for out purposes (Analysis of home range)
   - *Addressed in GPR discussion*
8) IDT discussion of:
   - Analysis of home range
   - Habitat/veg-changing the model (meeting NFMA requirements)
   - *Addressed at last meeting*
9) Compare first year movements to "after they are settled" movements—*In progress*
   - *Action item for Chans O'Brien.*
10) Definition of contact- what are we using?
   - *Not addressed yet. Item will remain in the BIN.*
11) Parameters for "bright line" of non-suitability
   - *Not addressed yet. Item will remain in the BIN.*
12) Incorporating benefits of outfitter/guides and hunting into economic analysis
   - *Not addressed yet. Item will remain in the BIN.*
13) Incorporating cost of administering grazing permits into economic analysis
   - *Not addressed yet. Item will remain in the BIN.*
14) Opportunity to expand conversation to discuss the issue more broadly across landscape
   - *Will be addressed in cumulative effects and others as appropriate.*
   - *Hells Canyon NRA, NPNF, BLM, WA, ID, OR, Tribes*

15) Need to check on state public records request—*Done*
16) Future review & comment on "need for changes" in FEIS document through supplement (wildlife & range section at least, other areas as interested/needed)—*In progress*
17) Adaptive management #1/viability #6. See assumptions for viability #6—*Done*
18) Define "Habitat Label" ("Source Habitat, etc.?")—*Done*
19) Need to continually revisit how source habitat model & occupied bighorn sheep model are going to be used in the analysis/decision.—*Incorporated into models; done*
20) Salmon River GPR-sequence of discussion with viability—*Done*
21) Define wandering sheep for adaptive management/tools discussion—*New BIN item 10/16*