

TRT Meeting: December 14-15, 2006
Portland, OR

Members in attendance: Michelle McClure, Howard Schaller, Charlie Petrosky, Paul Spruell, Rich Carmichael, Fred Utter, Pete Hassemer, Tom Cooney, Phil Howell
Non-Members in attendance: Damon Holzer, Eric Tinus, Don Matheson

1. Meeting changes
 - a. January meeting changed to 23-24 in Portland
 - b. February meeting in Boise 20-21
2. By February, target completion of 1) Viability Document; 2) Matrix Modeling; 3) Gaps Document (our for peer review, include ISAB)
 - a. Maintain separation between Gaps analysis and Viability Document (for ISAB review) to avoid confusion (viability first)
 - b. Consider sending an MPG example to demonstrate the application (perhaps one population in detail with the corresponding MPG overview)
 - c. Include a cover letter explaining various components (with Pete's spreadsheet)
3. Viability Edit Topics
 - a. Updates to date
 - i. Intro and structure
 - ii. QET & RFT
 - iii. Threshold rationale
 - iv. Extinction risk language
 - v. Model language
 1. S/R function
 2. Writeup in attachment
 - b. Remaining
 - i. Blend ESU & MPG
 - ii. Additional SSD Rationale
 - iii. Conclusion
 - iv. Population level
 1. Brief VSP paragraph
 - v. Integration
 1. Why not single model
 2. Why mod SSD, low AP
 3. Summary
 - c. Workgroup Tasks
 - i. M&E (outline completed, need text) – Charlie, Howard, Rich
 - ii. Conclusions
 - iii. Hatchery implications memo
 - iv. UC review
 - v. Fall chinook assessment (*)
 - vi. Sockeye assessment (and viability specifics)
 - vii. Bob Lohn request of overview (uncertainty versus viability criteria)

- viii. SSD (updated rationale) IUCN criteria, published literature – Phil, Pete, Michelle (*)
 - 1. need references (Howard’s mammal/bird refs)
 - ix. Capture changes to the selectivity metric (flow chart) (*)
 - x. Blend ESU/MPG – Tom (*)
 - xi. Integration section additions – Tom
- 4. Fall Chinook Overview (below hell’s canyon (extant), marsing reach (extirpated), salmon falls (extirpated))
 - a. Completed A.1.a and A.1.b
 - b. Need to decide complexity category
 - c. Metric A.1.c – Is the Tucannon currently occupied? Are we concerned with connectivity to other populations in the ESUs?
 - d. B.1.a-c (genetics) – completed “a,” need phenotypic info (Fred)
 - e. B.2 metric – have necessary info, need to complete
 - f. Selectivity – workgroup to inform this metric
 - g. After draft is complete, send out for input from interested parties
 - h. Separating out an ESU overview (because of 2 extirpated areas)
- 5. QET/RFT Update
 - a. Previously set RFT to QET
 - i. Evaluated R/S at very low escapements—noticed many positive returns with parent escapements less than 50
 - ii. Explored demographic effects of going below 50 spawners
 - 1. looked at multiple spawning areas and sex ratios
 - 2. should consider heavier weighting of females
 - b. consider adding inbreeding depression paragraph
 - c. Use RFT = 10
- 6. M&E Workgroup
 - a. Section to be added after peer review
 - b. Consider putting uncertainty categories up front, ESU/MPG discussion back
 - c. Look at ecological basis for uncertainty (as opposed to metrics)
 - i. Influence of catastrophe and dispersal rates
 - d. Key information (population level) to improve criteria/increase confidence in viability assessments:
 - i. intrinsic potential and population size categorization reflection of the true historic capacity distribution and relative population sizes
 - ii. increased information for ESU productivity parameters (e.g., variance or autocorrelation of R/S measures) for sockeye and steelhead
 - iii. approaches that will best estimate the capacity and low abundance productivity from empirical measures of abundance, recruits/spawner, and physical capacity for a population
 - iv. intrinsic potential analysis reflection of the historic spatial distribution of spawners

- v. which habitat based analytical approaches best inform the assessment of metrics for life-history strategies and phenotypic characteristics
 - vi. how well the specific hatchery fraction rules reflect risk impairment to patterns of gene flow
 - e. Identify key uncertainties in criteria
 - i. Distribute a table with SSD and AP uncertainties
 - 1. TRT members to rank, email table to Don (compile)
 - a. discuss at next meeting
7. Selectivity Workgroup
- a. Add guidelines for “we don’t know” ratings (esp. heritability)
 - b. Be clear that broad-sense and qualitative estimates are acceptable
 - c. Provide proportion, fitness, heritability rating justification/walk-through
8. SSD Workgroup – focus on individual criteria and lead-in paragraph
- a. Major issue: development of rationale for SSD criteria (reliance on VSP document)
 - i. Completed literature scan to bolster existing rationale
 - 1. Compile and add in references (Paul) (email to Don)
 - 2. Fred to send new information to Paul
 - b. Improve consistency of justification across criteria
 - c. Complete by January meeting
9. MPG/ESU Criteria Workgroup
- a. Blended language and incorporated comments
 - b. Mostly used language from original sections, introduction requires more work
 - c. Rearrangement
 - i. Criteria for multiple-population ESU
 - ii. Expanded on importance for criteria
 - iii. Move up language just after criteria list (use as introduction)
 - iv. End with single MPG criteria
10. All workgroups to finalize their pieces, incorporate into master document, then distribute
- a. Comments back to Tom by January 12th
11. Fall Chinook
- a. Alternative method for defining MaSAs
 - i. Change language for “independent tributary” and “dependent tributary”
 - b. Proportion of strays declined (hatchery practices), not abundance
 - c. Add language pertaining to Mainstem from Granite to Ice Harbor within the assessment
 - d. Population complexity category – most likely “C” (trellis structure)
 - e. Update proportional “MaSA” bar chart to reflect 5 (not 6) “MaSAs”
 - f. Check outmigration timing shift
 - g. Check sex structure (high proportion jacks) 2006
 - h. Indications that anthropogenic actions are favoring alternative life history; take care to protect historic life history patterns

- i. Fred to offer input on phenotypic variation metric
 - j. Send genetic variation writeup to Michelle, Paul, Fred for comment—and identify risk rating
 - k. Difficulty in applying ecoregion distribution metric
 - i. Presently no historic distribution data
 - ii. Try using historic spawning gravel study data
 - iii. Change table heading to reflect spawning lengths (from area)
 - l. Discuss hatchery production leading to higher risk rating in rating summary
 - m. Pete to distribute, TRT to discuss at January meeting
12. Tasks
- a. Finish viability document
 - b. Matrix modeling writeup
 - c. Review of elasticity analysis
 - d. Viability interpretation memo for Bob Lohn