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Data Management Plan

Mapping the immediate and prolonged impacts of, and adaptations to, fire in the Kenai River fishery

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I. Data Management Plan Justification

This study will be gathering new data. Data will consist of Fuzzy Cognitive Maps (FCM) generated in the software *Mental Modeler*. These FCMs will be developed with individual stakeholders during in-person interviews. In addition to the FCMs, audio recordings will be taken during the interviews so researchers can revisit the FCMs to make corrections and/or fine-tune them if needed.

FCMs will be combine into two main models that will be presented at stakeholder workshops. One workshop will focus on the model developed by outfitters, guides, and other relevant business owners, and the other workshop will focus on the model developed by the regional ecologists, biologists, and managers. Video of the projected model will be collected during the workshops so researchers can review model changes and stakeholder input during the workshops.

II. Project Data Management

1. Data types

There will be four types of data gathered in this study:

- 1) Individual FCMs developed during interviews;
- 2) Audio recordings of interviews;
- 3) Two combined models (one model representing the perspectives of outfitters, guides, and other relevant business owners and one model representing the perspectives of regional ecologists, biologists, and managers); and
- 4) A video recording of the projected model taken at the stakeholder workshops.

2. Quality Assurance

Quality assurance will take place throughout the study. First, the FCM will be evaluated for their accuracy during their development with individual stakeholders. Second, if there are questions about the FCMs, the researcher can review the audio recording that was taken during the FCMs development to clarify any issues. Follow-up calls/meetings can also take place if needed to resolve any issues. Third, all stakeholders will have a chance to provide input during the workshops to make changes to the combined models. Lastly, video of the projected models will be taken during the workshops that can be used to clarify any issues after the workshops and during the finalization of the models. All of these steps will help ensure the models produced are the best representation of the Kenia River fishery possible.

3. Data Access

Only the PI (Dr. Jordan Smith) and Co-PI (Chase Lamborn) will have access to audio and video recording to protect the confidentiality of the respondents. Individual models will have no identifiable information and will be stored in a Box folder that is protected by a username and password. The final model will be shared upon request with workshop participants and interested parties.

4. Storage and Backup

All mental models can be downloaded from *Mental Modeler* as .CSV files for backup. These CSV files will be stored in a shared Box folder that only the PI and Co-PI will have access to. All audio and video recording will also be stored in the Box folder to protect respondent confidentiality.

III. Long-Term Data Management

1. Metadata

Individual and combined models will be stored in a Box folder as .CSV files. Audio and video recordings will be transcribed, and the recordings will be destroyed to protect respondent confidentiality.

2. Data Repository

Data will be stored in a Box folder shared by the PI and Co-PI.

3. Data Access

Access to the combined models will be provided upon request, and can be shared as .CSV files. The combined models will also be shared with the JFSP.