



PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM (PRRIP or Program)
Technical Advisory Committee (TAC) Webinar Minutes
Thursday, April 30, 2020

1 **Technical Advisory Committee (TAC)**

2 **Bureau of Reclamation (BOR)**

3 Brock Merrill – Member (2020 TAC Chair)

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7 **State of Colorado**

8 Jojo La – Member

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11 **State of Nebraska**

12 Carol Flaute – Member

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15 **Upper Platte Water Users**

16 N/A

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18 **Downstream Water Users**

19 Brandi Flyr – Member

20 Jim Jenniges – Member

21 Dave Zorn – Member

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23 **Executive Director's Office (EDO)**

24 Jason Farnsworth

25 Chad Smith

26 Patrick Farrell

27 Kevin Werbylo

28 Tom Smrdel

U.S. Fish and Wildlife Service (Service)

Matt Rabbe – Member

Jeff Runge – Alternate

Tom Econopouly - Alternate

State of Wyoming

Barry Lawrence – Member

Jeremy Manley – Alternate

Environmental Entities

Rich Walters – Member

Andrew Pierson – Alternate

Colorado Water Users

Jason Marks – Member

Participants

Mike Drain – CNPPID

Andrew Caven – Trust

Elizabeth Esseks – Nebraska DNR

Dan Sternkopf – Nebraska DNR

Michelle Koch – NGPC

Melissa Marinovich – NGPC

Joel Jorgensen – NGPC

1 **Welcome and Administrative**

2 Merrill called the meeting to order at 1:03 PM Central Time and the group proceeded with introductions.
3 No agenda modifications.

4

5 **TAC DECISION** – *Walters moved and Zorn seconded to approve the February 24, 2020 TAC Meeting*
6 *minutes as amended. Minutes approved.*

7

8 **PRRIP AMP – New Learning**

9 Smith summarized the rationale to have a formalized process to address new learning relevant to the
10 Program. He emphasized assessing new learning against the structure/conclusions of the current Adaptive
11 Management Plan (AMP) and the revised AMP for the Extension is important for communicating findings
12 to Program participants. This includes the conceptual ecological models (CEMs), Big Questions (BQs),
13 priority hypotheses, and AMP management objectives.

14

15 The group proceeded with an in-depth discussion. Discussion highlights:

16

- 17 • Discussed standardized development of EDO technical or science policy briefs to address new
18 information and have TAC assess the EDO's response to new learning related to the Program and what
19 further actions should be taken. A technical brief example was presented to address new learning from
20 Alexander et al. paper.
- 21 • Drain – Agreed with approach, suggests communicating this process/thinking to GC in next meeting.
- 22 • La – To add value, decisions are science oriented, but policy also drives actions so input from GC on
23 how process occurs would be helpful. Does this affect something decided/negotiated by the GC?

24

25 *Alexander et al. paper*

26 Farnsworth provided background and context for Program work and the Alexander et al. paper:

- 27 • Related article back to First Increment BQ #1 in original AMP. Described Flow #1, flows of 5,000-
28 8,000 cfs for three days (short-duration high flows or SDHF) will create tern and plover suitable nesting
29 habitat on-channel. Presented and described BQ #1 including the development and peer-review of tern
30 and plover synthesis chapters. Conclusion of BQ #1 was “two-thumbs down”.
- 31 • Presented to current state of the AMP update CEM. Model specifically splits on and off-channel nesting
32 habitat, but future Program emphasis will be creation and management of off-channel habitat.
- 33 • Program developed a sandbar-habitat model (assuming constant bar-height), coupled with tern and
34 plover nesting data, to predict success of on-channel nesting in the Platte River.
- 35 • Described two parts of discussion section recommending management actions are related to Program
36 decisions/management.
- 37 • Alexander et al. bar-height model improvement over constant bar-height model Program used.
- 38 • Suggests caution using mean bar-height to assess bird nest inundation.
- 39 • Presented plot of height above stage of mean annual discharge and peak discharge from Alexander et
40 al. 2020, with PRRIP constant depositional gap relationship overlaid.
- 41 • Described rational for looking at lower Platte River for Program purpose. Due to lower Platte River
42 being a proxy to historic central Platte River.
- 43 • Described how Alexander bar-height model relationship changes the percent of years emergent sandbar
44 habitat is inundated described in Farnsworth et al. 2017. Found Alexander depositional gap increases
45 percent of years ESH inundation occurs. Farnsworth further presented relationships of bar-height
46 depositional gaps from Farnsworth et al. 2017 and Alexander et al. 2020.
- 47 • Drain – asked if this new information will be incorporated into an updated technical brief, with specific
48 suggestions of data presentation

49 • Farnsworth presented table 3 from Farnsworth et al. 2017 to verify successful nesting on the lower
50 Platte compared to predictions of nest inundation potential from Alexander et al. 2020 and Farnsworth
51 et al. 2017 depositional gap relationships. Suggested Farnsworth relationship would over predict
52 breeding success window and underpredict inundation potential. Alexander relation would likely under
53 predict success. Findings supported our transition to off-channel habitat emphasis and analysis
54 suggestions parallel that course of action.

55 • Runge – Reference to 15,000 cfs and creation of suitable on-channel nesting sandbar heights but not
56 captured in the current CEM (AMP update). Farnsworth stated bar heights are essentially constant in
57 CPR, in relation to stage, so is of less importance to present in CEM. Runge suggested linking report
58 findings to Programs decisions or management actions. Farnsworth said the GC made decision to focus
59 on off-channel and new learning would strengthen that decision. Runge said that both papers currently
60 have limited application to the AMP because: 1) we do not have nesting on sandbars within the AHR,
61 2) there is not a clear link between findings and Program management actions; and 3) GC decided to
62 focus on off-channel nesting habitat. However, both papers could be revisited if the above
63 circumstances would change.

64 • Caven – Suggested a quarterly document of relevant new learning or a form to address if implications
65 are Program related, in support/dispute of Program findings, and additional materials developed only
66 if need be.

67 • Drain – Agreed with Caven’s idea, with ideas to finalize the process up to the GC/policy level.

68 • Koch – Important for authors to describe/explain research directly for TAC and have EDO describe
69 implications. Will this current memo incorporate structural elements discussed at this meeting for a
70 technical brief? Farnsworth stated that will happen and a technical brief will do so.

71 • Jorgensen – Suggested authors should have access to the memo and have the ability to respond the
72 memo findings as a courtesy and to provide basic transparency and fairness. Drain stated EDO memo
73 implication has no implication to Alexander’s research findings as currently stated. La and Flyr agree
74 most cases providing authors opportunity to respond to Program memos is likely not necessary and
75 very Program specific. Caven stated if most relevant research addressed quarterly, could have discourse
76 with research authors in a limited capacity. Smith suggested presenting new learning implications at
77 AMP reporting sessions. Also developing a process that the Program is comfortable with to address
78 this type of new learning is highly important. Caven suggested early contact with authors to have them
79 communicate applications to the Program may help process efficiency. Drain concurred with Caven
80 that an efficient process and only most relevant new research be discussed/addressed. La iterated the
81 financial implications for new learning discourse should be considered as part of the formalized
82 process. Smith suggests talking with GC about process in June and help develop process specifics,
83 especially for time allocation considerations. Need to understand the possibility for new assessments
84 of original AMP due to new learning and how to address that situation if it arises. Smith further suggests
85 beginning of process maybe to present new learning at TAC level but Drain stated we need some sort
86 of initial thought and limited analysis before talking with group. Rabbe suggested manuscript first be
87 presented to TAC, discuss what TAC members thinks implications are, what EDO thinks implications
88 are and then make next step decisions, which may include development of documents, invitation to
89 authors, etc.

90 • Jenniges (comments from email to TAC following meeting) – There is new information published or
91 being obtained by the Program itself on a constant basis. If that new information is directly applicable
92 to hypothesis or Program management actions, then it should be brought to the attention of the TAC
93 either by the EDO or a TAC member. Regardless of who brings it, they can do so with their
94 interpretation of what it says, or they can just bring it as an FYI and why they think it is relevant. I also
95 think we should all remember we do not have to agree with others interpretation of data or
96 articles. Adaptive management can be used to address those disagreements if they are stated clearly. If

97 the new information is proposed to facilitate a change in Program actions, then it is appropriate to have
98 an in-depth discussion that may include the original authors if people think it would have
99 value. However, for the most part, other than data collected to directly address a hypothesis or big
100 question most information will provide more understanding but is unlikely to be relevant enough to
101 dictate change. When I look back, I can think of very few instances where data other than that collected
102 to specifically address hypothesis was used in decision making. Therefore, while I do not disagree
103 with your proposed approach, I do question the need for it. I think a simple approach is to just point out
104 new information and let those who believe it should dictate a change in Program actions make the
105 argument of why that change should occur and let others respond to it. The EDO can do that but so can
106 any other stakeholder. If no change is needed or proposed I would just go with the old philosophy of
107 letting the sleeping dog lie.

108

109 *Caven et al. paper*

- 110 • Rabbe introduced the reasons for this research to be conducted and provided some management
111 implications for whooping cranes. Habitat limitations may be creating larger groups, potentially due to
112 smaller groups joining together (conspecific attraction) during migration in some areas of the migration
113 corridor. This was most pronounced closer to the center of the migration corridor, at staging areas, and
114 were wetland habitat was most limited regionally and the frequency of these large groups is increasing
115 over time. Caven provided more result details and emphasized larger groups are increasing more so in
116 the southern Great Plains, where wetland habitat limitations may be more pronounced. Smith stated
117 this is relevant to the Program and important, current life-history information to for EDO and TAC to
118 understand, but conclusions do not influence Program policies at this time.
- 119 • Runge presented different types of uncertainties in natural resource management and how it applied to
120 whooping cranes. Specific to the whooping crane CEM, it appears as if the paper could have
121 implications on structural uncertainty (modeling species response to management) and partial
122 observability (detecting species response to management). Caven stated the findings could be
123 associated with multiple types of uncertainties. He suggested that the Platte River is the first region on
124 the northward spring migration with a large amount of dependable quality habitat for crane stopovers.
125 Caven also stated Platte is not a focal area for large group increases and developed hypotheses to
126 explore for why group size increases are region-specific. Rabbe iterates these are initial trend results
127 and further research would be needed to make any implications for the Program and central Platte River.
128 Runge asked if larger group sizes would be more visible and Rabbe suggested we may have a higher
129 detection rate of groups with increased group size. In conclusion, Caven and Rabbe said that research
130 findings did not substantially affect certainty/uncertainty, so there was no need to consider findings
131 when updating CEMs, big questions, and/or hypotheses.
- 132 • Farnsworth addressed the CEM and how it broadly captures the uncertainties discussed and if a
133 different version of CEMs would be more useful. Runge suggested only detailing those aspects of the
134 CEM that have a high degree of Program controllability and where management actions are linked to
135 habitat and species response. Under these circumstances, numerical relationships and analytical models
136 could be expanded in CEM's. Smith stated CEMs are more so management conceptual models
137 reflecting what the Program can control.

138
139 Smith asked the TAC to submit suggestions for how this process of reviewing new learning should be
140 conducted based on the TAC discussion today. For example, how do we record the process we just
141 conducted about Caven et al. paper?

142

143 **Future Meetings and Closing Business**



144 Smith will work with Farrell to develop TAC items for next meeting and will send out a Doodle poll to
145 schedule.

146

147 **Summary of Decisions from the April 30, 2020 TAC Webinar**

148 1) Approved the amended February 24, 2020 TAC Meeting minutes.