



## PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM (PRRIP or Program)

### Adaptive Management Working Group (AMWG) Virtual Meeting

October 20, 2020

**Attendees** – Jeff Runge, USFWS; Jim Jenniges, NPPD; Dave Zorn, CNPPID; Andy Caven, Crane Trust; Matt Rabbe, USFWS; Tom Econopouly, USFWS; Mike Drain, CNPPID; Brandi Flyr, CPNRD; Brock Merrill, USBR; Jojo La, State of Colorado; Executive Director's Office (EDO) Staff

<b>October 20, 2020 (4 hours)</b>  LOCAL MEETING TIMES <b>New York:</b> 2:00 PM EDT <b>Nebraska:</b> 1:00 PM CDT <b>Wyoming:</b> 12:00 NOON MDT <b>Colorado:</b> 12:00 NOON MDT <i>* See calendar invite for MS Teams meeting link (audio &amp; video)</i>		<b>START TIME (CDT)</b>	<b>MEETING DOCUMENTS</b>
<b>Coffee Time, 12:45-1:00 PM CDT</b> – the Teams meeting will open early to allow for personal discussion and pleasantries over coffee. Not required but feel free to join us!			
<b>WELCOME &amp; ADMINISTRATIVE</b>	<b>Meeting Objective:</b> Greetings, roll call, review agenda, re-cap of previous meeting.		
<b>Roll call</b> – Teams participant list		1:00 PM	n/a
<b>Agenda</b> - modifications		1:05 PM	<a href="#">Meeting Agenda</a>
<b>Previous Meeting Recap</b> – AMWG meeting, 10/08/2020		1:10 PM	<a href="#">10/08/20 AMWG mtg summary</a>
<b>VIRTUAL TOOLS TUTORIAL</b>	<b>Meeting Objective:</b> Ensuring participant accessibility.		
<b>TECHNICAL TOOLS ONBOARDING</b> ○ Teams ○ Mural		1:20 PM	n/a
<b>Clarification of AMWG Conflict Resolution and Roles</b>	<b>Meeting Objective:</b> Clarifying conflict resolution process and member roles.		
Review and discussion of: ○ Conflict Resolution ○ Member Roles		1:30 PM	<a href="#">Conflict Resolution</a>
<b>TERNS &amp; PLOVERS Management Objective</b>	<b>Meeting Objective:</b> Evaluating objectives and gauging progress.		
Management Objective: ○ How do we interpret it? ○ Are we meeting it?		1:45 PM	<a href="#">Mgmt Objective MENTIPoll</a>
<b>TERNS &amp; PLOVERS Performance Indicators</b>	<b>Meeting Objective:</b> Evaluating measures of success.		
Performance Indicators ○ What are they? ○ What should they be? Based upon what? ○ Should we set quantitative targets, ranges?		2:00 PM	n/a



TERNs & PLOVER Population Viability Analyses and Modeling		Meeting Objective: Linking performance indicators to management objectives.	
What can population modeling tell us? <ul style="list-style-type: none"><li>○ Vortex and other PVA models</li><li>○ Overall species objectives for First Increment: Lutey 2002</li><li>○ Population viability analysis modeling: Ryan et al. 1993, Plissner &amp; Haag 2000, McGowan et al. 2014</li><li>○ Performance indicators for modeling from other systems: Catlin et al. 2016, MRRP 2019 ESA Adaptive Mgmt Compliance Report, 2019 LT PP Annual Report for LPR, USFWS 2020</li><li>○ Performance indicators for modeling from our system: Roche et al. 2016, Farrell et al. 2018</li></ul>	2:05 PM	<a href="#">Lutey 2002</a> <a href="#">Ryan et al. 1993</a> <a href="#">Plissner &amp; Haag 2000</a> <a href="#">McGowan et al. 2014</a> <a href="#">Catlin et al. 2016</a> <a href="#">MRRP 2019 ESA AM Compliance Report</a> <a href="#">2019 LT PP Annual Report for LPR</a> <a href="#">Roche et al. 2016</a> <a href="#">Farrell et al. 2018</a> <a href="#">USFWS 2020</a>	
What does PRRIP EDO population modeling for LT and PP tell us? <ul style="list-style-type: none"><li>○ Which variables have the most impact on productivity, population viability, population size?</li></ul>	2:25 PM	n/a	
Meeting Break (3:00 – 3:10 PM)			
TERNs & PLOVERS Performance Indicators		Meeting Objective: Deciding on future performance indicators.	
Performance Indicators <ul style="list-style-type: none"><li>○ What should they be? Why?</li><li>○ Should they different for LT and PP?</li><li>○ Should we set quantifiable targets and/or ranges?</li><li>○ What should these targets (ranges) be? Over what temporal and spatial scales? AHR vs. site-specific vs per acre?</li></ul>	3:10 PM	<a href="#">Roche et al. 2016</a> <a href="#">Farrell et al. 2018</a>	
PREPARATION FOR NEXT MEETING		Meeting Objective: Prepare for next meeting.	
<ul style="list-style-type: none"><li>• Agenda items for next meeting</li><li>• Homework – Factors with DIRECT impact on LT and PP performance indicators<ul style="list-style-type: none"><li>• Weather, Inundation</li><li>• Predation (terrestrial and avian)</li><li>• Renesting</li><li>• Density-dependent limitations (carrying capacity)</li><li>• Site age</li><li>• What do we know about how site choice, site fidelity, past site-specific productivity effects current productivity?</li><li>• Suggested literature from group?</li></ul></li></ul>	4:30 AM	<a href="#">Szell and Woodrey 2003</a> <a href="#">Anteau et al 2012</a> <a href="#">Farnsworth et al 2017</a> <a href="#">Farrell et al 2018</a> <a href="#">Robinson et al 2019</a> <a href="#">Catlin et al 2011</a> <a href="#">Saunders et al 2017</a> <a href="#">Swift et al 2020</a> <a href="#">CatlinPhD2009</a> <a href="#">Aug 1 2019 LT PP CEM DRAFT</a>	



<b>MEETING REVIEW &amp; WRAP-UP</b> <ul style="list-style-type: none"><li>○ Action items</li><li>○ Meeting feedback &amp; key insights</li><li>○ <b><u>Upcoming meetings:</u></b><ul style="list-style-type: none"><li>• Tues, Nov. 3rd, 1-5 PM CDT Virtual</li></ul></li></ul>	4:45 PM	n/a
<b>AMWG VIRTUAL MEETING END</b>	5:00 PM	