

Whooping Crane Cellular Telemetry Data Request



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Technical Advisory Committee Meeting, October 10, 2023

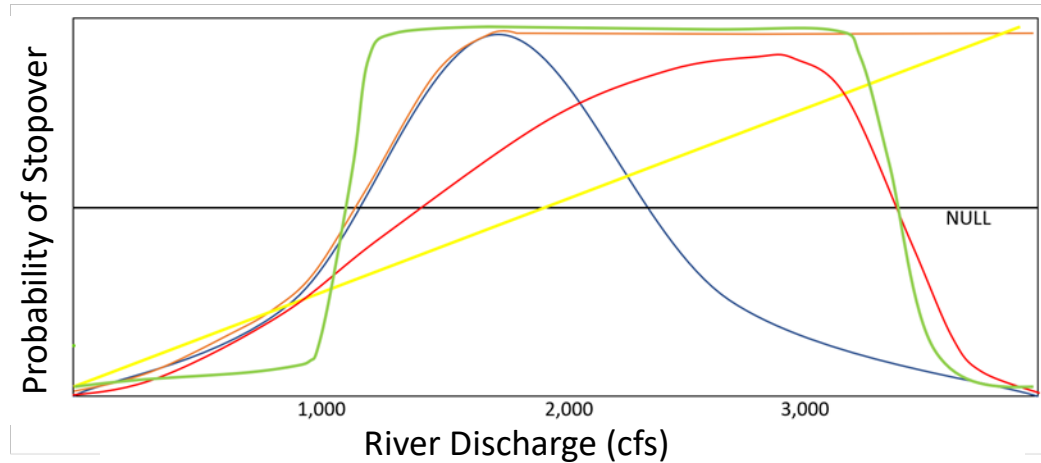


PLATTE RIVER
RECOVERY IMPLEMENTATION PROGRAM

EBQ #4: What factors influence WC decision to stop or fly over the AHR?

Management Hypothesis: Probability of WC stopping within the AHR is a function of discharge.

X-Y Graph



Hypothetical probability of a whooping crane stopping and roosting within the AHR (vs. flying over) is a function of discharge. The relationship could take a number of forms (represented by different colors).

Alternative Hypotheses:

- Time of day
- MUCW and unforested corridor width
- Land cover or habitat suitability
- Weather
- Length of stay at previous stopover and distance traveled since last stopover
- Point in migration (proportion of migration completed)

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Original Proposal

Tier 1: Corridor-wide. Understand the effect size of factors we cannot manage in relation to those we can.

Tier 2: NE sandbed rivers.
Understand the general pattern for stopover decisions along NE sandbed river systems.

Tier 3: Address Platte-specific questions while controlling for overarching effects of what we cannot manage.

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Alternative proposal

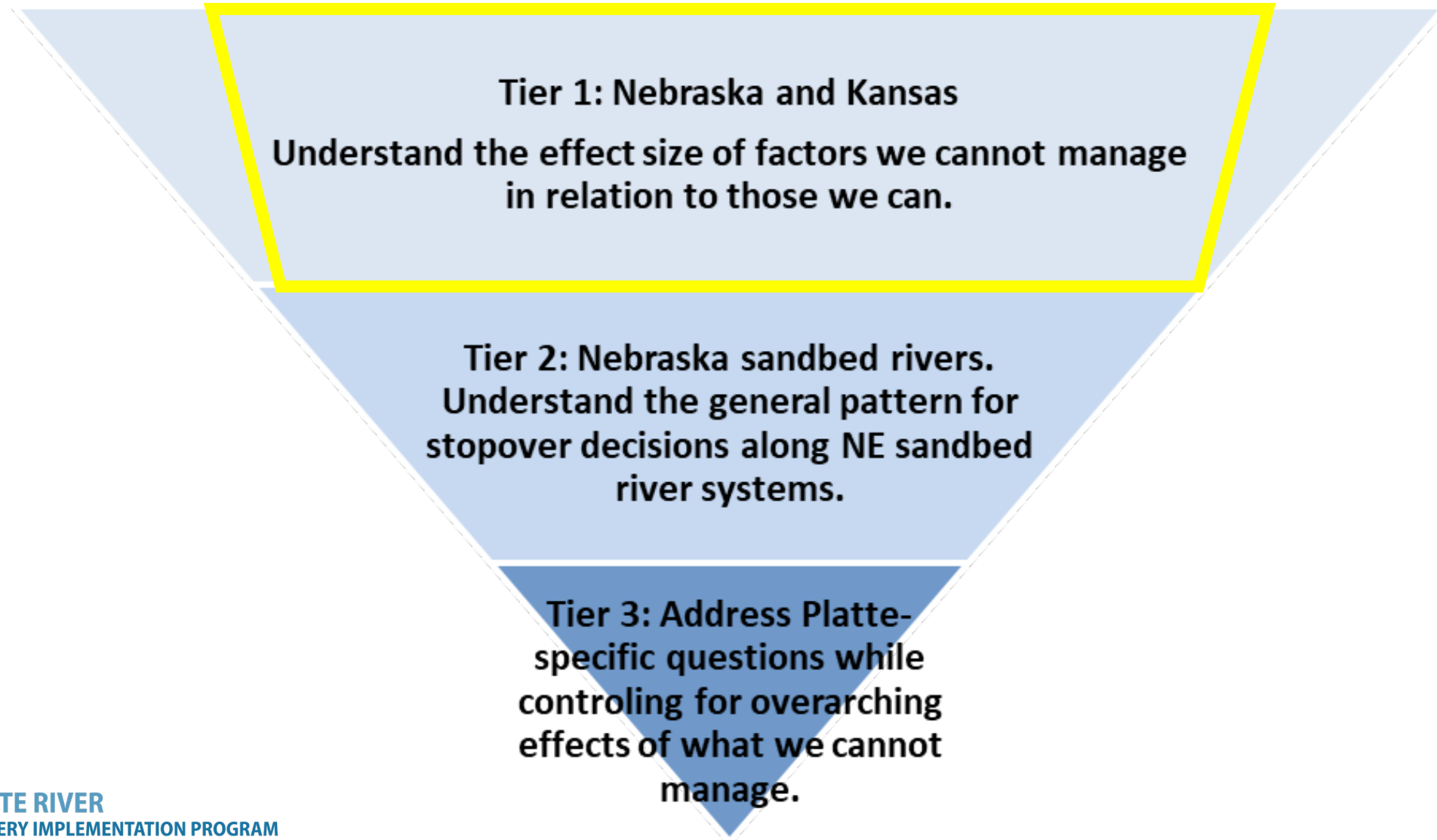
Tier 1: Southern portion of migratory corridor.
Understand the effect size of factors we cannot manage in relation to those we can.

Tier 2: Nebraska sandbed rivers.
Understand the general pattern for stopover decisions along NE sandbed river systems.

Tier 3: Address Platte-specific questions while controlling for overarching effects of what we cannot manage.

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Pilot Study



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Minimum Required

Tier 1: At least 1 stopover prior to AHR stop or flyover.
Understand the effect size of factors we cannot manage in relation to those we can.

Tier 2: Nebraska sandbed rivers.
Understand the general pattern for stopover decisions along NE sandbed river systems.

Tier 3: Address Platte-specific questions while controlling for overarching effects of what we cannot manage.