

Whooping Crane Cellular Telemetry Data Request



Malinda Henry, PRRIP EDO

Governance Committee Meeting, December 5, 2023



PLATTE RIVER
RECOVERY IMPLEMENTATION PROGRAM

PRRIP Extension Science Plan

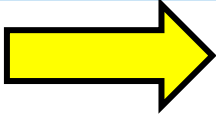
EBQ #4: What factors influence WC decision to stop or fly over the AHR?

EBQ #5: What factors influence WC stopover length within the AHR?

EBQ #6: Why is spring WC use of the AHR greater than fall WC use?

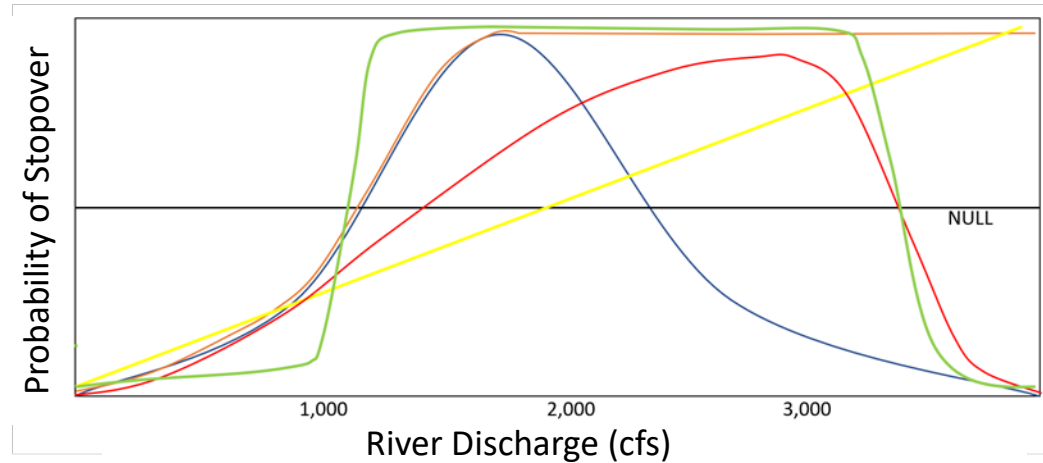


EBQ #4: What factors influence WC decision to stop or fly over the AHR?



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).

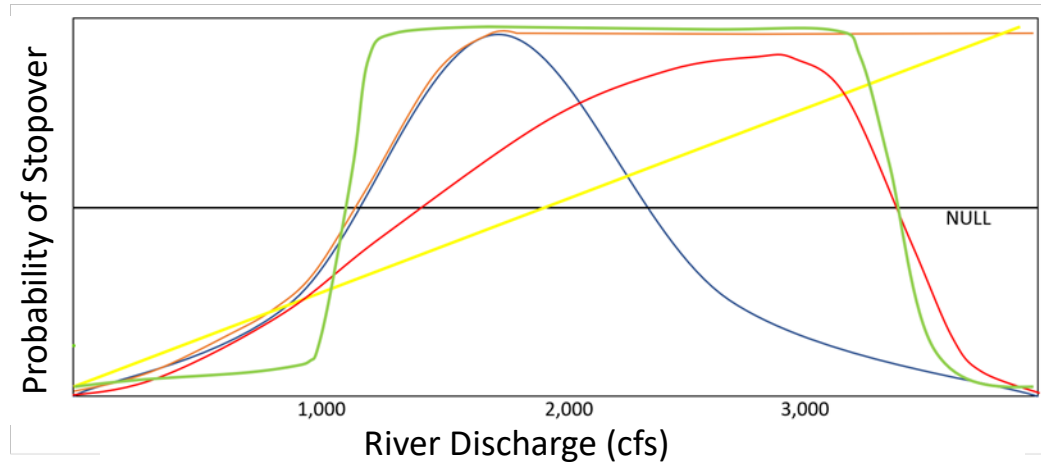
Alternative Hypotheses:

- 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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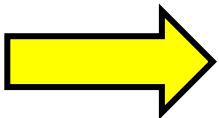
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Original Proposal

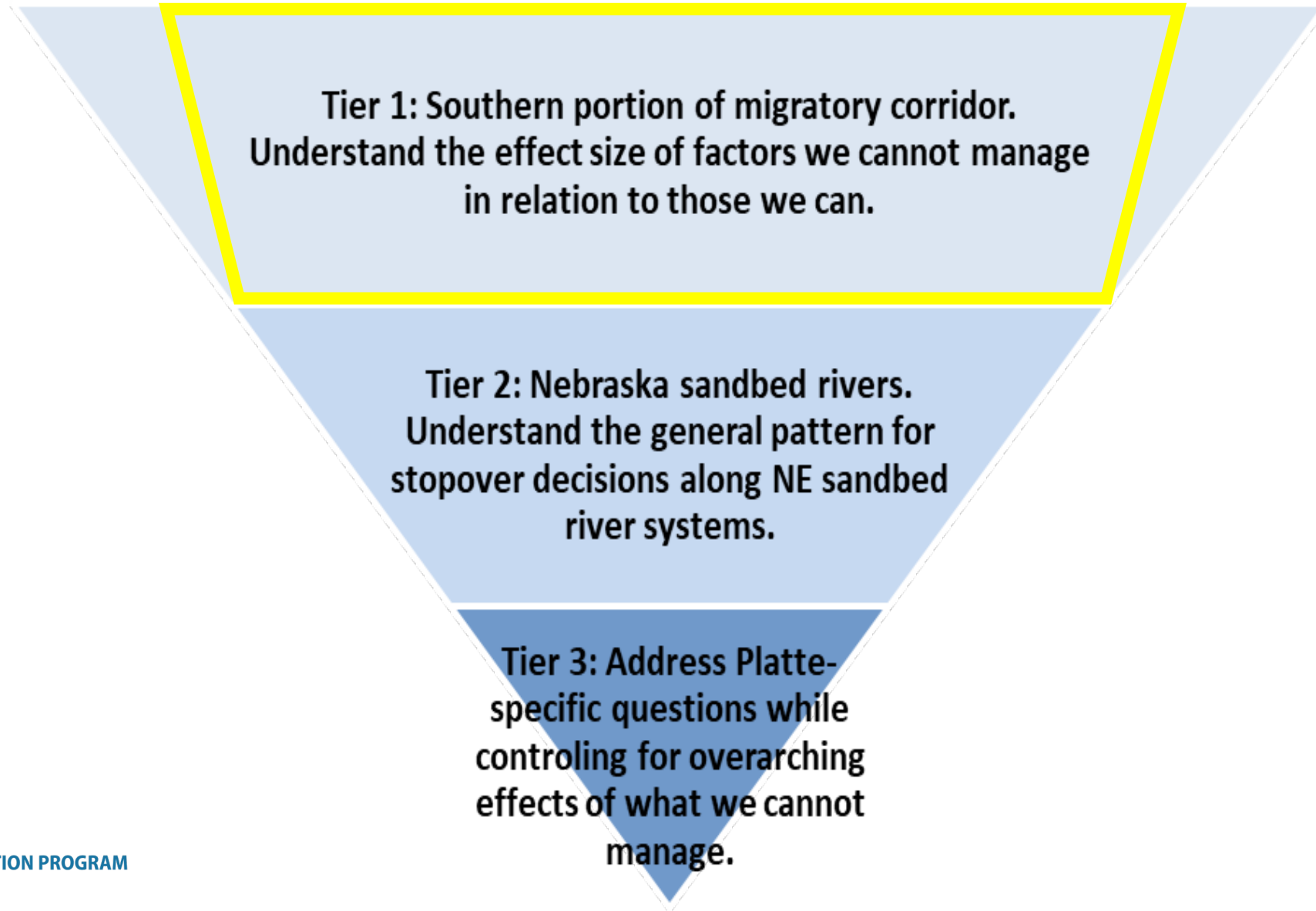
Tier 1: Corridor-wide. Understand the effect size of factors we cannot manage in relation to those we can.

**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.

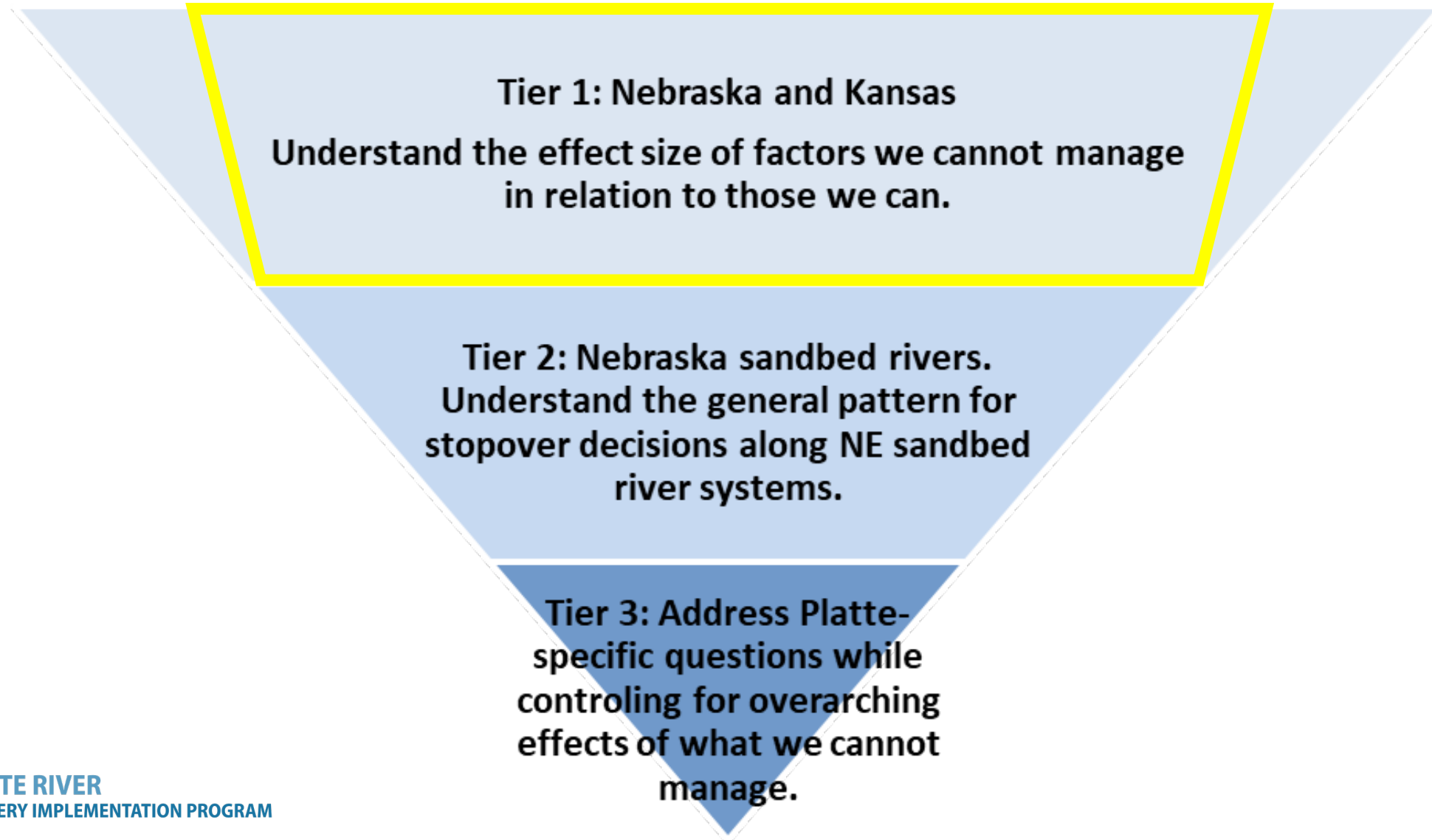
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Alternative proposal



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Tracking Partnership Response: Pilot Study



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DATA REQUEST WITHOUT COLLABORATION

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

Tier 2: Minimum Dataset Required:

Nebraska sand bed rivers. Understand the general pattern for stopover decisions along NE sand bed river systems.

1 stop prior through 1 stop after

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WC Tracking Partnership Response



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