







Priority Bird Species/Groups

| Phase 1 Priorities: | Consider in Future Phases: | |
|---------------------------|----------------------------|--|
| Shorebirds (non-breeding) | Shorebirds (breeding) | |
| Waterfowl (non-breeding) | Waterfowl (breeding) | |
| Sandhill Crane (roosting) | Riparian landbirds | |
| Sandhill Crane (foraging) | Burrowing Owl | |
| | Swainson's Hawk | |
| | Tricolored Blackbird | |
| | Bank Swallow | |



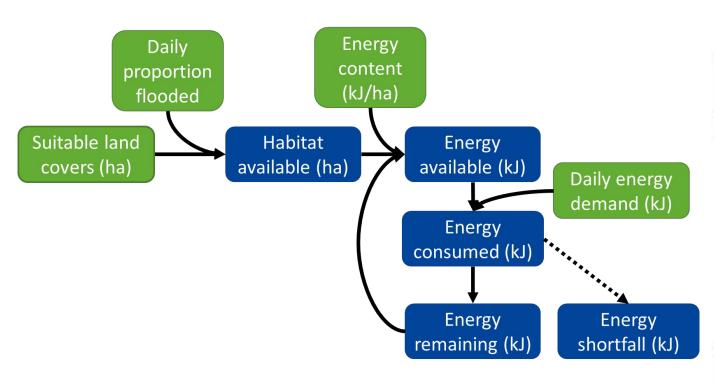
Habitat Suitability Criteria

| Group | Land cover class | Flooding status | Depth | Season |
|------------------------------|---|---|----------------------|-----------------|
| Shorebirds (non-breeding) | Managed wetlands, rice, grain corn, field & row crops | Must be flooded | < 4 inches (~10cm) | July 1 - May 15 |
| Waterfowl* (non-breeding) | Managed seasonal wetlands, rice, grain corn | Managed wetlands and rice must be flooded | < 12 inches (~30 cm) | Aug 15 - Mar 31 |
| Cranes (roosting) | Managed wetlands, rice, corn, wheat, pasture | Must be flooded | < 8 inches (~20 cm) | Oct 1 - Mar 15 |
| Cranes (foraging) | Primarily rice, corn, wheat within 5km of known roost | Dry or very shallow (e.g. leading edge of flood-up) | < 2 inches (~5 cm) | Oct 1 - Mar 15 |

^{*}emphasis on dabbling ducks (over geese, diving ducks)



Bioenergetics Models

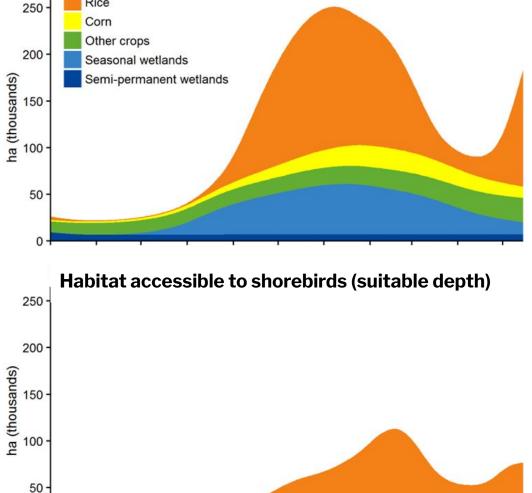


Habitat available to shorebirds (suitable land covers flooded)

Rice

Aug

Oct



Jan

Feb



Workflow & Next Steps

Hydrodynamic model

Simulate inundation extent and depth over multiple years (Oct-Jun, 1997-2018)

Habitat suitability evaluation

Estimate total amount of suitable habitat available for each priority species (e.g., by year, basin, and scenario)

Bioenergetics evaluation

Estimate total number of bird-use days provided for shorebirds and waterfowl (e.g., by year, basin, and scenario)

