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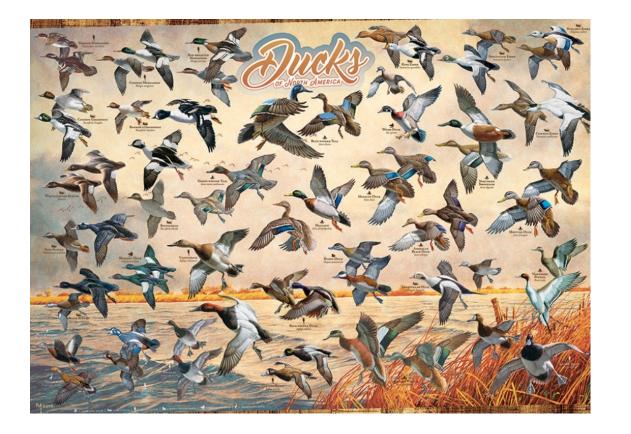
Wetlands & Waterfowl

Chesapeake Bay Program – Scientific Technical Advisory Committee Meeting 22-23 March 2022 – Annapolis, MD



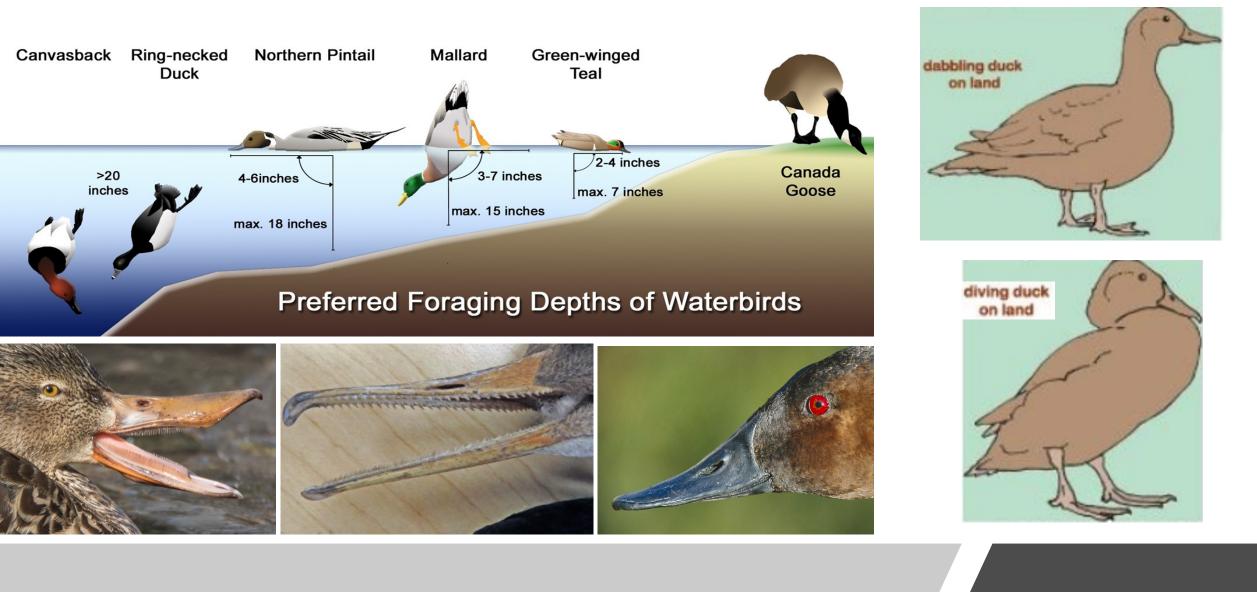


Wetlands & Waterfowl





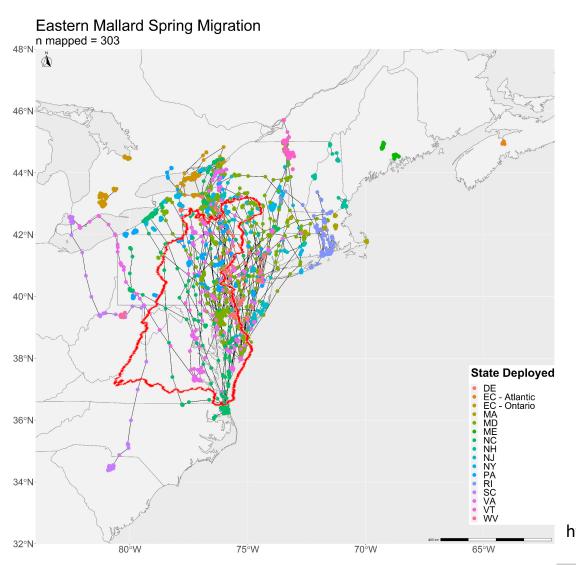
Waterfowl of the Chesapeake



Waterfowl of the Chesapeake



Habitat Prioritization for Waterfowl Conservation



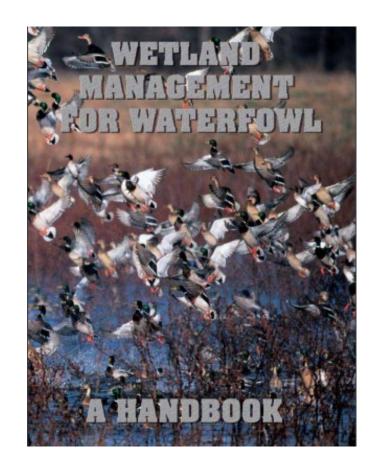
https://atlantic-flyway-waterfowl-gps.weebly.com/

Habitat Prioritization for Waterfowl Conservation



Level Control Structure





Moist Soil Management for Waterfowl



Co-Benefits and Tradeoffs

Is what's good for waterfowl bad for other wildlife and/or ecosystem services?

Waterfowl Metrics: Quantifying Outcomes

Bioenergetics Modeling

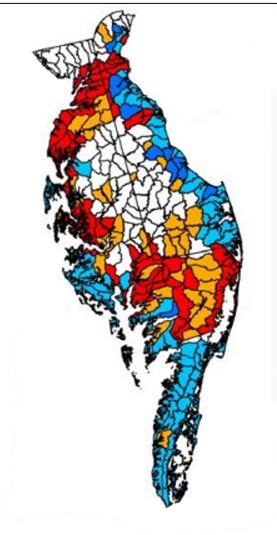
 $\frac{Total Metabolizable Energy (TME)}{Daily Energetic Requirements (DER)} = Duck Use Days (DUD)$



Waterfowl Metrics: Quantifying Outcomes

Bioenergetics Modeling

Wetland Type	Wetland Subtype	Energy Density Estimate (kcal/acre)
PEM	Managed (Moist Soil)	599,488
PFO	-	99,438
E2Veg	High Marsh	147,257
E2Veg	Low Marsh	380,569
E1	-	26,502
L	-	24,940
R	-	24,940
M2	-	26,502
PSS	-	99,438
PUB	-	24,940
E2US	-	29,305
PML	-	C
PRB	-	C
E2AB	-	26,502





A partnership

These data show priority watersheds important for meeting American Black Duck population objectives in the Chesapeake Bay Watershed.





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