2025 Wildlife Key Topics for Envirothon

- Identify common wildlife species from silhouettes, mounted specimens or pictures. Part of an animal may be shown instead of the whole animal, for example: identifying waterfowl by a wing image or specimen.
- 2. Answer questions concerning the natural history of wildlife species occurring in Delaware. Examples:
 - The history of DDT and its effects on wildlife
 - Delaware's history of wild turkey reintroduction and management
- 3. Understand the Wildlife Restoration Act (also known as the Pittman-Robertson Act) and how it funds wildlife and habitat conservation
- 4. Understand basic wildlife survival needs
 - Habitat components
 - Biological carrying capacity vs. social carrying capacity
 - Territory vs. home range
 - Factors that limit or enhance population growth
 - Habitat requirements for specific species. Be able to identify a given habitat and select or list species most likely to live there. Describe ways a habitat can be improved for specific species by knowing their requirements.
- 5. Describe specific adaptions of wildlife to their environment and role in the ecosystem
 - Understand the definition and importance of a keystone species.
- 6. Understand food chains and food webs and be able to identify examples
 - Identify/define trophic levels: decomposers, primary producers (autotrophs), primary consumers, secondary consumers, tertiary consumers
- 7. Understand predator/prey relationships and be able to identify examples
- 8. Understand hibernation, aestivation, nocturnal, and crepuscular. Be able to provide examples of animals who fall into each of these categories.
- 9. Describe how meadow/grassland management can enhance or impact wildlife habitat.
 - Understand the stages of plant succession.
 - Know the difference between cool season grasses and warm season grasses used for meadow/grassland management.
 - Be able to list Best Management Practices for maintaining early successional grassland habitat.
 - Understand ecotone and edge effect.
 - Understand the importance of hedgerows and food plots.
- 10. Understand and be able to list the stages of plant succession.
- 11. Understand hunting regulations and how they pertain to wildlife management.
 - Be able to read and understand the DE hunting guide.
 - Understand the difference between game and non-game species.
- 12. Identify agencies responsible for providing the protection and management of wildlife resources.

- 13. Understand and be able to explain the North American Model of Wildlife Conservation
- 14. Understand the importance of the Atlantic Flyway and the Migratory Bird Treaty Act.
- 15. Identify Delaware wildlife species that are listed as endangered or threatened and describe the main causes that have led to their depleted populations. Be familiar with the Endangered Species Act.
- 16. Understand the functions of wetlands and the importance of vegetative wetland buffers.
 - Know what a vernal pool is and be able to discuss why they are important
 - Know what an impoundment is and be able to discuss how impoundments are managed in Delaware and what species use them.
- 17. Understand the definition of and the effects of invasive species.
 - Identify non-native and/or invasive wildlife species that have been introduced into Delaware.
 - Know the difference between non-native, invasive and nuisance wildlife species. Be able to list examples.
 - Identify noxious plants found in Delaware.
- 18. Know the cause, symptoms, species affected, and management/monitoring methods for the following wildlife diseases:
 - Rabies
 - White-nose Syndrome (WNS)
 - Epizootic Hemorrhagic Disease (EHD)
 - Chronic Wasting Disease (CWD)
 - Avian Influenza (AI)
- 19. Understand the purpose and methods of wildlife banding and tagging and be able to list species that are banded/tagged in Delaware.
 - Be familiar with migratory shorebird research and habitat management being conducted in Delaware, including the history and management of red knots and other species being monitored.
- 20. Be able to identify wildlife nest boxes and species that use the nest boxes.
- 21. Understand tick management in Delaware as it relates to humans and wildlife.
- 22. Audio Challenge be able to identify a wildlife species based on its call. 2025 audio challenge will include 2 Delaware bird species.
- 23. Understand the Wildlife Action Plan.