Challenges of Deer Population Mngment in the 21st century

* Deer population in the 20th century = entirely different objectives that the objectives in the 21st century
  + – e.g. tied to disease
    - Caveat – the issues were dealing with today are the result of deer populations and their management in the 20th century – why important to understand
  + Climate change in a main challenge in this century because deer are in northern climates where there were none
    - Public health and disease issues associated with this
* Money that goes into the population management (comes from deer hunter participation which has declines)
* Region specific issues with deer populations
  + E.g. michican where deer TB was an issue from things that happened in the 50s-70s
  + Have CWD emerging in various state s
* Issue with public practices
* Captive deer population
* All of the above are intererelated – cause and effect - snowball with several other aspects, issues
  + No major document that outlines how this has all influenced other aspects and how this guides deer management in the 21st century
* Deer = Hunters = Money = Management
  + Agencies may not want to know CWD presence if it’s going to lower hunter participation
    - Is model preventing from adequately addressing some of the modern challenges?
    - Do political views of the hunting population matter?
      * Climate change is major issue – those paying for deer management don’t believe in climate change = constituents that no longer want to pay money if state agency is spending money on phony research
        + Rule of tradition – legacy – grandfather to son to grandchild in traditions of hunting
    - Science denial / mistrust of government agencies = all time high
      * Hunters may be paying $ for
      * How to bridge the gap between the stakeholders and hunters? How does this differ between different states?
        + Dmap - Conflict between land owners on private land – how is this dealt with? How is this accounted for?
      * Wtd = everywhere
        + If agencies in west aren’t communications with SE..

How are challenges different? – e.g. multiple ungulate species co-occuring

* + - * Global NA conservation perspective in global lense
        + Critis
* **Lime disease TB CWD EHD menigental worm – cannot keep it own of discussing challenges in 21st century**
  + **Challenges in 21st century – and how they change, regionally, temporally (decades), management approaches given new technologies and accessibility?** 
    - **Diseases**
    - **Hunter participation**
      * **Harvest regulations = conflict with the science, government, etc. trust and participation**
    - **Public health**
      * **SARS COVID 2 and TB**
    - **Climate change** 
      * **Changes distribution and presence of WTD – e.g. Alaska and bring new issues**
* hunter surveys are also going to inform the models
* **Challenges and Management in the 20st century**
* **How it is has changed in the 21st century**
* **Tools and Technology available today that didn’t exist before and how does that influence management**
* **Plugs in to interviews with agencies** 
  + **What are they doing differently?** 
    - **E.g. states using X technologies and how that helps, limits, etc. compared to other agencies**
    - **Not formal interviews – for letter –** 
      * **We are very interested in these issues deer pop / cwd management** 
        + **Interested in learning more about the perspective and real world experiences from managing those topics**

**Coming from 2 people with limited hunting experience – little management experience**

**Help guide focus**

* + - * + **Would be happy to do it zoom but would love to travel to you and informally discuss – approx. 2 hours**
  + **\*\* potentially lead to more formal conversation at deer conference later** 
    - * **If driving – talk to WMA / DMAP / other people that manage deer**
  + **If want to publish – talk to Ally Mc. – IRB approval for structured survey for deer population managers**
  + **We want to understand so that we can be helped to prepare a group meeting in upcoming months – all participating will be invited – able to talk through these differences, successes, challenges as group**
* Is the current model of deer management at odds with the 21st century cahllenges?
  + The way that we manage deer is heavily influences the way that deer are managed
    - NA conservation – big point is that it made wildlife public trust; big point two is that it made hunter participation profitable and legitimate/regulated
* 1. Report the history of WTD management in NA is first critical step before addressing anything else in chapter
  + History of deer management – what we do now and n 75 years will be drastically different
    - But we need to review the last century to guide the next – what can we learn? What were failures? Successes? Issues?
      * What’s at our disposal now?
        + Telemetry – 1 paragraph – when did they start – weight of collars – triangulation vs exact location – cost and how it has influenced accessibility (not just for the collars but also for the labor and resources and time that go intoit)
        + Camera traps
        + AI