· ANIS ABMS ~ SIMULATE RANDOM UNREPORTED DEATHS BLASING PARAMETER SETIMATION *SINKAS LAND COVER COURTNEY - ASSISTANT CHEIF OF RESCARCH MODEL PROIS IN DEER PROJECT (POC) * NLCD INTO SHINYAPP - WHAT SPECIFIC DISTRICTS NEEDS ARE? * SET UP EXCEL MODEL 4 DEER COMMITTEE MEETINGS (ADONR) MEET WICOURTNEY · SURVEYS, RESEARCH NEEDS, ANNUAL REPORTS · DISTRICT SUPERVISORS, COORDINATORS, CHAIRS, BIOLOGISTS · URBAN DEER POCKETS > HUNTSVILLE GOING TO BE ISSUE WIEXPANSION (CWD/COILLSICN) · DIFFICUITY: ECONOMICALLY FEASIBLE -> LIMITED TIME /RESOURCES · HIGH-FENC > STATEWIDE/PROGRAMMATIC ANCNR · POPULATION, DENSITY, ETC. LA 10T OF EFFORTS DONE REGIONALLY (REQUIRES EXPERTISE) - CAPTIVE BREEDER · GGAI: DEFENSIBLE DECISIONS - NOT ACCURATE /PRECISE - 8 NO REGULATION LACTIONABLE INSIGHTS -MOVED AWAY FROM CHECK STATIONS AT EVERY HUNT · MANDATORY CHECK -> WMAS EVERY WEEKEND (II HOURS WORTH) · WHAT EISE IS AVAILABLE? (OATA SHARE) - DAIN AVAILABLE · DEER CLUB=WMA 1 POINT (L/R) # POINTS MEATHER DATA? . WMA DATA INCLUDES AGE + REPRODUCTION - INCOMPLETE, MISMATCHIN PUT WHAT QUESTIONS? -> WHAT CHAILENGES? -ABM AT COUNTY IEUEI TIMEIINE? TIME FRAME FOR DATA -> Ly FOWS FOR DATA SHARE FRED T. > 10W H PRESSURE (SOA) · DMAP = SAME INFO AS WMA LIGIVEN DEER MNOMNT RECS+ PIANS BARBOUR > PINCH POINT STATION CAMMIT DIFF HABITAT 5 PROVIDE TAMBONET +INFO NMAS CHOSEN -> SHOULD MAKE BIOLOGICAL SENSE + GOOD L PRIVATE IAND BIOIOGISTS HANDIE PRIVATE DMAP DATA INPUT -WEBSITE, PUBLIC MEETINGS, CALL AGENCY LA COUNTY/WMA = UNIT WHERE -ADDITIONAL DOE TAGS -> DATA DECISIONS MADE-V - HISTORICALLY - 100 ACRES; NA ACREAGE AS - HUNTERPRESSURE OF UYEARS AGO - ECOREGION - COMPILANG LOOK IN DIGEST > IOCAI DISTRACT (FARM BIII) -> NRCS FOR HABITAT IMPROVEMENT OFFICE

- * DRAFT OF CHI MANUSCRIPT -> OCT 15

· WHAT DATA COILECT: *WHY? -> FOR THOUGHT VS INTENTION
· INTEGRATION OF HUNTER COMPONENT

Dissertation Chapter Outline

NCFDD

Rylee Tomey

CORE CURRICUIUM

Chapter 1: Conceptual Synthesis and Perspectives on Population Modeling Tools and Decision Frameworks in Wildlife Management

Objective:

 Provide a synthesis of how wildlife population models have evolved, what analytic advances have emerged, and what limitations still exisespecially in the context of deer management in the Southeast.

Main Points:

- Population models are central to setting harvest regulations and answering core management questions, but most agencies rely on a narrow range of tools.
- Review of traditional methods like SAK and SPR, matrix-based approaches, and recent growth in Bayesian state-space models and agent-based models (ABMs).
- Comparative summary across key factors like data needs, interpretability, cost, and adaptability.
- Overview of how newer platforms (e.g., R, GitHub, NetLogo, Shiny) and tools (e.g., ArcGIS Field Maps, Survey123) are changing what's possible (e.g., cloud computing)
- Gaps remain in reproducibility, flexibility, accessibility, applicability
- Introduce the need for pluralistic, modular frameworks Ani's "Rule of 3" as a rationale for using multiple tools instead of relying on a single model - a 'bouquet' or 'toolbox'

Alternatives and Additions:

 Consider including qualitative feedback from biologists or analysts across multiple states to capture operational constraints and design preferences.

Chapter 2: Building a Modeling Framework for Deer Management

Objective:

- Build an adaptable population modeling framework using Alabama as the initial focus, centered around an ABM and designed for eventual transferability to other states or contexts.
- · PUBLICLY AVAILABLE DATA FOR ALL 50 STATES
- * NO NOTIONS ON FEASIBLE * WHY CANT HAVE USA HARVEST REPORTS!

GO IN W/QUESTIONS "INTERACTED W/AGE	enasi,
HOW DO AGENCIES MAKE DECISIONS ABOUT MEETING WIDEER BIOLOGISTS IVI -> TRAVEL OF WANT TO FIELD WORK OF CHI -> WHATS WREENTH BETTER 10 SE/MIDWEST STATES UNDERSTAND PSK STEVE/MARK FOR CONTACTS * WEEKIY INCRIMENTS + NOTES -> PROCRESS REPO	PRORTUNITY 2024 GO Y AVAILABLE POSSIBILITY OF
TITIE: DEER POPULATION MNGMNT IN THE 21ST CEN	
VS 21ST CENTURY = DISEASES (ESP. CUID) SHAPING	OUT POP ZCHANGING S POP
· LOCAILY, DEFENSIBLE POP STRATEGY → SHARED CON- - HUNTER SATISFACTION - GDMA→BLG AND - PRIVATE (DMAP) - HUNTER SURVEYS - HUNTER PARTICIPATION*	MERS
FOR DIFF (WHAT INFO CONFCTED ? SOURCES? +; AGENCIES ? WHAT ARE QS? - USUANY DEMOG	ESS All STRUCTURE/FUNDS OF
ANA. FRAMEWORK TO INFORM MNGNT ANA MNGNT FW ANA MNGNT FW	PI INTRO CHAIJENGES
. TURNING POINT FOR DEER MNGMT AND . TECHNOLOGY = COLLECT AND PROCESS O . DISEASES ! STANDARDIZED DECISION MAKING PROCESS	PIRECTION
- WIIDIIFE SOUETY > BEISARE / DITCHKOPF	· HISTORY OF DEER MUST

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