

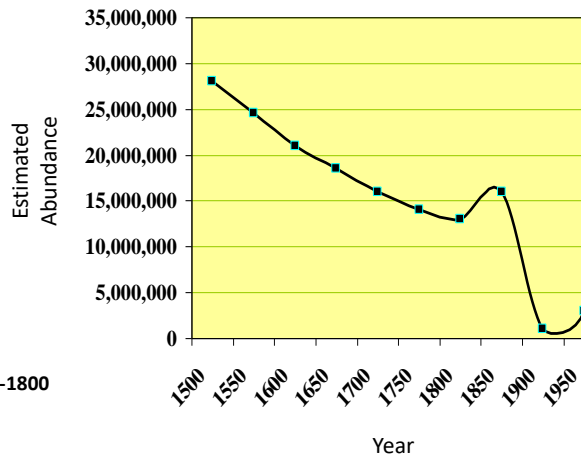


Deer Management in the Vineyard

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University of Georgia

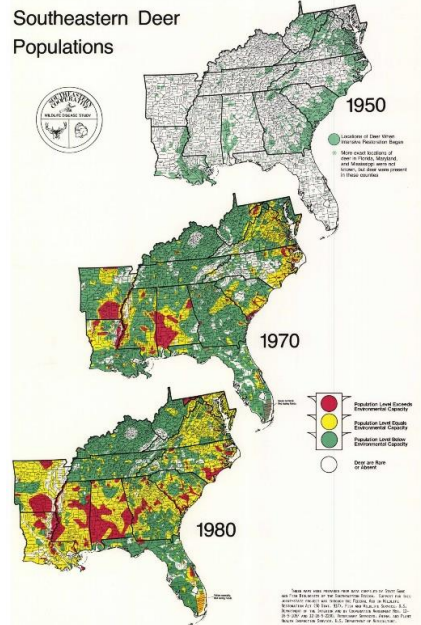


History



- Phase I – Early European Settlement 1500-1800
- Phase II – Moderate Recovery 1800-1860
- Phase III – Era of Exploitation 1860-1900
- Phase IV – Protection & Recovery 1900-1975

History



Wildlife Damage Management

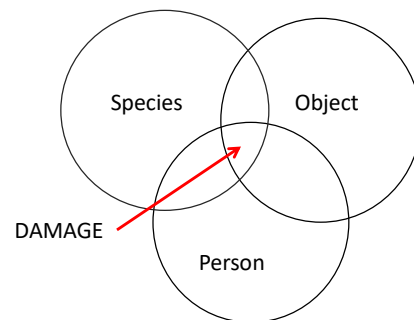


Identify the Species



Philosophy

- Recipe for conflict
 - Deer hunters want more;
 - Homeowners & farmers may want less
- Ingredients for Damage
 - A wildlife Species
 - An object that is damaged
 - Someone adversely affected by actions of the animal



Rules of Thumb

- RULE #1
 - When dealing with wild animals there are no rules
- RULE #2
 - Animals can't read
- RULE #3
 - There is no 'magic powder' or 'magic bullet' or magic. Just hard work and perseverance.
- RULE #4
 - If it sounds too good to be true --- IT IS!



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Operational Model

- H. E. R. L.
 - H – **H**abitat Modification
 - E – **E**xclusion
 - R – **R**epellent or **R**emoval
 - L – **L**ethal Control



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Economic Analysis



- **Economic Feasibility**
 - Is cost of damage \geq cost of management?
- **Cost-Effectiveness (CEA)**
 - Which available option offers the best return on investment
- **BCA – Benefit-Cost Analysis**
 - What is the actual benefit gained in relation to cost of management?

Exclusion Methods

- Fencing option #1
 - **High Fence** – 8ft+
 - (deer can jump 7ft+)
- Anchor to the ground
- Requires maintenance
- Chain-link = \$\$



Exclusion Methods

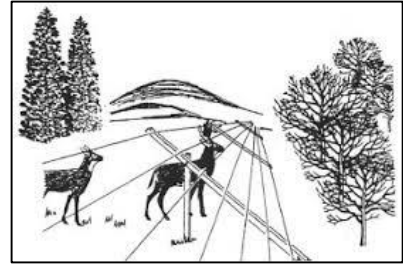


Exclusion Methods



Exclusion Methods

- Fencing option #2
 - 7-strand; 5ft high
 - Slanted outward
 - Electrified



Exclusion Methods



Exclusion Methods

- Fencing option #3
 - 3-dimensional fences
 - “Gallagher Electric Fence”



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Exclusion Methods



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Exclusion Methods

- Fencing option #4
 - Plot Saver
 - Fence + Repellent



Repellants



Population Management

Population size changes as a result of :

- ✓ Births
- ✓ Immigration
- ✓ Deaths
- ✓ Emigration

$$N_{t+1} = N_t + \overset{\uparrow}{B}_t - \overset{\downarrow}{D}_t + \overset{\uparrow}{I}_t - \overset{\downarrow}{E}_t$$



Population Management

- Trap and Transfer is not legal in GA
- Fertility control – no contraceptive registered for WTD in GA
- Lethal Control



Population Management – Lethal Control

- Organized sport hunting
 - Hunting groups
 - Abide by state laws and local ordinances
 - No cost
 - Archery: September – January
 - Firearm: October – January
- Nocturnal issues



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Population Management – Lethal Control

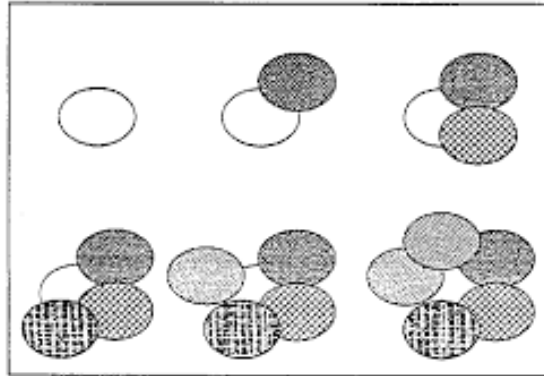
High deer densities?
Or
Problematic groups?



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Population Management – Lethal Control

- **Rose Petal Theory** – Localized deer management



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Lethal Control

- **USDA APHIS – Wildlife Services**
 - Site Visit
 - Deer population index
 - Environmental damage



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Lethal Control

- USDA APHIS Wildlife Services
 - Minimize impact to residents
 - Trained personnel
 - Suppressed firearms
 - Can conduct removals outside of hunting seasons
 - Meat donations
 - Cost associated



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Lethal Control

https://www.aphis.usda.gov/aphis/ourfocus/wildlifedamage/SA_Program_Overview/SA_Contact/ws-state-info?st=GA:Georgia

Wildlife Services Georgia State Office

Wildlife Services Georgia
State Director
School of Forestry and Natural Resources
University of Georgia
Athens, GA 30602-2152

Phone: 706-546-5637
Toll Free: 1-866-4USDAWS
Fax: 706-316-9248

Select State... ▾
State Program Data Reports (PDR)... ▾

USDA Resolves Wildlife Conflicts in Georgia

Every day, the Wildlife Services (WS) program in Georgia helps citizens, organizations, industries, and Government agencies resolve conflicts with wildlife to protect agriculture, property, and natural resources, and to safeguard human health and safety. WS' professional wildlife biologists and specialists implement effective, selective, and responsible strategies that value wildlife, the environment, and the resources being protected. WS manages wildlife damage according to its public trust stewardship responsibilities as a Federal natural resource management program. WS supports the North American Model of Wildlife Conservation, based on the principle that wildlife resources are owned collectively and held in trust by Government for the benefit of present and future generations.

WS-Georgia helps protect property and agriculture from damage caused by deer, feral swine, pigeons, vultures, and Canada geese. The Program strives to minimize wildlife-aircraft conflicts by providing expertise to numerous civilian airports and military installations. WS-Georgia helps reduce damage to Georgia's timber industry, transportation, natural resources and property caused by beaver and associated flooding. It also protects people, pets and livestock from wildlife-borne diseases, such as rabies; guards many natural resources from wildlife depredation; and educates the public about wildlife and wildlife damage management.

Operational Activities

- » **Wildlife Hazard Management at Airports** - Statistics by State.
- » **National Environmental Policy Act (NEPA)** - Analyses of the environmental effects of Wildlife Services program activities in Georgia.
- » **Georgia Oral Rabies Vaccine Program** - State summaries, maps, and statistics



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Lethal Control

- GA-DNR Depredation Permits
 - Permits are limited to commercial crops and byproducts marketed for sale
 - May include up to 6 assistants on each permit
 - Permits are issued outside the firearms deer season
 - Permits may be renewed after limit is reached as long as damage continues
 - Permit applications should be completed online – <https://www.gooutdoorsgeorgia.com/>



Lethal Control

Type	License	Description	Term	Price	Add to Cart
1315	\$5 donation to the Georgia Wildlife Conservation Fund	From bald eagles to sea turtles, the Georgia Wildlife Conse...	More Details	Other \$5.00	+ Add To Cart
1316	\$10 donation to the Georgia Wildlife Conservation Fund	From bald eagles to sea turtles, the Georgia Wildlife Conse...	More Details	Other \$10.00	+ Add To Cart
1317	\$25 donation to the Georgia Wildlife Conservation Fund	From bald eagles to sea turtles, the Georgia Wildlife Conse...	More Details	Other \$25.00	+ Add To Cart
1318	\$50 donation to the Georgia Wildlife Conservation Fund	From bald eagles to sea turtles, the Georgia Wildlife Conse...	More Details	Other \$50.00	+ Add To Cart
1319	\$100 donation to the Georgia Wildlife Conservation Fund	From bald eagles to sea turtles, the Georgia Wildlife Conse...	More Details	Other \$100.00	+ Add To Cart
Applications					
Type	License	Description	Term	Price	Add to Cart
1384	Deer Crop Damage Application (Not a License)	This is an Application for the Deer Crop Damage permit and ...	More Details	Season Free	+ Add To Cart
1431	Registration for Wild Animal Reptile Application (Not A License)	This is an application for registration to allow a person t...	More Details	3 year Free	+ Add To Cart
1437	Camping Reservation - Disabled Veteran Discount	Camping Reservation - Disabled Veteran Discount	Other	Free	+ Add To Cart



Region Offices**Game Management****Region 1**

706-295-6041
2650 Floyd Springs Road
Armuchee, GA 30105

Region 2

770-535-5700
2150 Dawsonville Highway
Gainesville, GA 30501

Region 3

706-595-4222
4176 West Bypass Road
Thomson, GA 30824

Region 4

229-426-5267
1773-A BOWENS MILL HIGHWAY
FITZGERALD, GA 31750

Region 5

229-430-4254
2024 Newton Road
Albany, GA 31701

Region 6

912-262-3173
1 Conservation Way
Brunswick, GA 31520

<https://georgiawildlife.com/about/contact>



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Population Management

- **Deer Management Assistance Program - DMAP**
- Provide harvest flexibility
- Site Visits
- DMAP can provide additional tags on properties with excessive deer populations during hunting season



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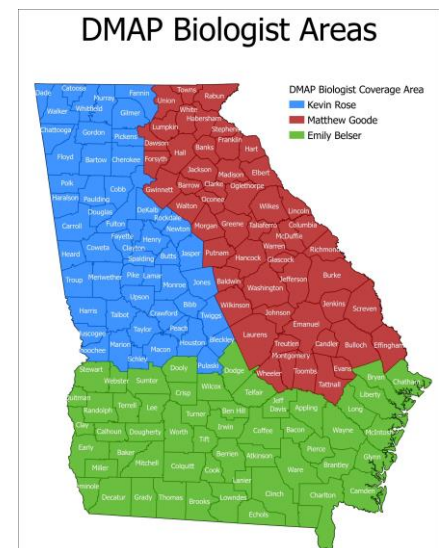
Population Management

- Deer Management Assistance Program
- DMAPs are used by most southeastern states to **address site-specific deer management issues with science-based flexibility on private lands.**
- DMAPs offer the ability to resolve site-specific deer management issues at the individual property level through **data collection and analysis** while maintaining simplified and less complex hunting regulations across a much larger geographic area that are responsive to hunter desires (e.g., reduced doe bag limit).
- This strategy protects more casually managed properties from over-harvest, while **affording science-based flexibility for more intensively managed properties.**



Population Management

- Deer Management Assistance Program
- 4 different management levels
- <https://georgiawildlife.com/DMAP>





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