Bloomington-Monroe County

Deer Task Force

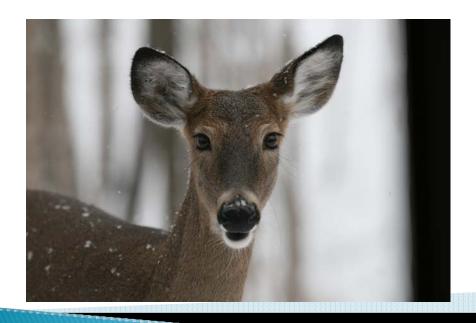


Photo: Stacy Weiss

Structure of Today's Meeting

- PRESENTATION
- QUESTIONS about PRESENTATION
- FEEDBACK on TWO SPECIFIC QUESTIONS
- GENERAL COMMENT PERIOD
- SURVEY

Purpose of Task Force

- Explore ways to address deer-human interactions
- Public education
- Solicit feedback on possible approaches

Draft advisory recommendations for review

by local government and the IDNR



Photo: Stacy Weiss

Goal of Community Meetings

Communicate what Task Force knows

 Communicate the COMPLEXITY of urban deer management – NO SIMPLE FIX

 Solicit feedback on your perception of deer, where deer are perceived to be

problematic & management preferences



Task Force Membership

- 11 members
 Appointed by Mayor, City Council and County Commissioners
- Diverse backgrounds
 Animal welfare, biology, ecology, anthropology, gardening and hunting

Member List

- Keith Clay, IU Biology Professor & Director of IU Research and Teaching Preserve
- Stefano Fiorini IU Research Analyst; PhD in Environmental Anthropology
- Robert Foyut Wildlife Rehabilitator
- Josh Griffin IDNR District Wildlife Biologist
- Judith Granbois Retired from IU Center for Study of Ethics
 & American Institutions, Gardener
- Sarah Hayes CEO of Monroe County Humane Association
- Iris Kiesling Monroe County Commissioner
- Thomas Moore IU SPEA PhD Student in Environmental Science
- Laurie Ringquist Director of Bloomington Animal Care & Control
- Dave Rollo City Council Member

Susannah Smith - Competitive Archer & Recreational Hunter

Work of Task Force To Date



- Met monthly since September 2010
- Worked with experts to learn more about deer biology, deer behavior and common management strategies
- Formulated a public outreach plan

Facts About Deer

Jurisdiction - IDNR has jurisdiction over deer, but allows communities to take lead

Habitat - transitional spaces between forested areas and open spaces

 Suburban environments tend to provide rich source of food and shelter

Home Range - female-led groups

- Females remain in the general area in which they were born
- Males disperse

Facts About Deer (cont.)

Diet - foragers

- Move around, browsing the best of what is available
- Fertilizer and suburban areas

Reproduction & Lifespan - give birth annually

- In the spring
- 1–3 offspring
- Live 8–12 years



Photo:weatherunderground-Tomsphotoandmem

Facts About Deer (cont.)

Aggression - not inherently aggressive

Choose flight over fight unless young are threatened

Lyme Disease -not reservoirs of Lyme Disease

- Serve as hosts for ticks that carry it
- Where deer are scarce, ticks have alternative hosts



Photo: Scott Bauer

Deer Population: A Brief History

- Deer are native to Indiana.
- From 1893–1934
 - Indiana virtually "deer free" due to hunting and habitat destruction.
- Mid-1930s
 - Deer reintroduced
- Since then, the deer population has increased dramatically
 - human encroachment, intentional feeding and the elimination of predators.



how has this led to deer population increasing? Thomas T Moore, 5/19/2011 TTM1

Deer Population

- IDNR does not conduct a deer census
 - Monitors population using trends such as hunter harvest and deer-vehicle collisions
- IDNR advises that instead of the actual number of deer in the community, the more relevant measurement is:

"social carrying capacity" - the community's capacity to tolerate deer



Social vs. Biological Carrying Capacity

Biological Carrying Capacity is a measure of the maximum deer population that an area can physically support (i.e. food, habitat).

Social Carrying Capacity is a measure of the capacity of people to tolerate the presence of

deer.



Deer Population Trends

IDNR – trends show "healthy and abundant" but stable deer harvest in Monroe county

No trend data for City of Bloomington

Research at Griffy Lake shows high population

Reduced species diversity & regeneration of

understory





Griffy Woods

- Biologists have been researching the impact of deer at Griffy Woods
- Pellet counts at 3 locations, one of which was Griffy, showed 13 x more pellets at Griffy
- Studies using exclosures show that deer have affected the ecosystem through:
 - Reduced species diversity
 - Reduced regeneration of the understory

Deer Management

- Community-based "urban deer task forces" have been used throughout the US for at least 20 years
- The Task Force has identified a set of commonlyused management strategies
- No preconceived notion of which approach(es) it will recommend
 - The issue is complex
 - Different approaches may be applied to different locations

Key points when it comes to management of deer in urban and suburban areas

- Issue is complex
- No simple fix
- No "one size fits all" approach for the whole community
- Any approach must be informed by community feedback (a bottom-up process)

Take no action

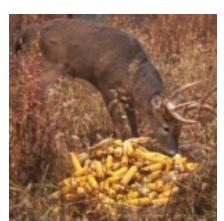
- Urban deer have a high survival rate and a high reproductive capacity.
- Taking no action to manage the deer population would mean the local deer herd may grow.

Feeding Ban

- Supplemental feeding may result in:
 - denser concentrations
 - spread of disease
 - habituating deer to the presence of humans



No cost to implement (other than enforcement)



Fencing

- Mesh or high-tensile wire at least 8' high
- Deer do not have good depth perception
 - Fencing at 45° or 2 fences a couple feet apart
- Current City regulations:
 - · 8' limit in backyard; 4' limit in front yard
 - Electric and barbed wire fences prohibited
- County regulations:

No height restriction; fences taller than 6' require

a building permit

Cost paid by individual property owners



Deterrents and Repellants

- Lights, sprinklers, noisemakers & chemical repellants
- Short-term solutions as deer will habituate
- Do not eliminate browsing, only reduce it
- Availability of other food determines effectiveness
- Must comply with City's noise ordinance
- Cost paid by individual property owners









Reintroduction of Predators

- Unsuitable in most situations because:
 - Lack of suitable habitat
 - Mobility of many predators
 - Potential to kill non-target species

• IDNR will not approve the reintroduction of

predators



Trap and Translocate

- Trap deer in problem areas and move them elsewhere.
- Not approved by IDNR for free-ranging deer:
 - High mortality rates
 - Capture myopathy
 - Low availability of suitable release sites
 - · Risk of disease transmission among deer populations
- Cost: \$400/deer plus ongoing maintenance



Contraception

- Deer population must be "closed" (i.e. not free-ranging) for best results
- High percentage of does must be treated
- Addresses population growth over time
 - But not immediate concerns with human-deer conflicts
- Long term effects (bioaccumulation, human consumption) are unknown
- Cost: \$600-\$800/doe plus ongoing maintenance



Sterilization (tubal ligation or removal of ovaries)

- Capture and surgery are stressful to deer
 - Results in high mortality rates
- Addresses population growth over time
 - But not immediate concerns with human-deer conflicts
- IDNR does not support in free-ranging contexts
- Cost: \$800-\$1,000/doe plus ongoing maintenance



Photo: CornellDailySur

Trap and Euthanize

- Deer are lured into a trap with bait and euthanized via gunshot or chemical by a trained specialist
- Deer are severely stressed
- Estimated cost of \$300/deer plus ongoing maintenance

Sharpshooting

- Conducted by professionals with special permit from IDNR and permission from property owners
- Possible to remove a large number of deer quickly and effectively
- Current prohibition against discharging firearms in City limits
- Meat can be donated to food bank

Estimated cost of \$200-\$350/deer plus ongoing maintenance

Regulated Hunting

- Requires adequate greenspace. IDNR recommends at least 5 contiguous acres
- Requires permission of landowner
- IDNR can approve creation of special "urban deer zones" to extend archery season bag limits
 - Efficacy hinges on access to land & whether hunters want to harvest more deer
 - Does not allow hunting in spaces otherwise prohibited
- Meat can be donated to food bank

 Cost: \$24/license paid by hunter; no cost to community (except enforcement)

Next Steps

The Task Force will:

- 1. Hold five meetings throughout the community
- 2. Administer a survey to gather information
- 3. Issue advisory recommendations that consider:
- Efficacy
 Cost
 Community acceptance
- SafetyDeer welfare

hoto: Joe Weiss

• Question and Answer Period on Part I of Presentation

hoto: Joe Weiss



Question #1:

What are your experiences with deer - both positive and negative?

In your neighborhood

In other parts of the community

Question #2

What are the most important criteria the Task Force should consider in making its recommendations?

- Efficacy
- Deer welfare
- Community acceptance
- Safety
- Cost
- Other

Open Discussion

Is there anything you want to tell us?

Your voice matters!

- Learn more: http://bloomington.in.gov/deertaskforce
- Send us an e-mail: deertaskforce@bloomington.in.gov
- Send us a letter:
 Deer Task Force
 c/o Office of the Common Council
 City of Bloomington
 PO Box 100
 Bloomington, IN 47402
- Give us a call! 349.3409