

Update on: 4-Poster Tick Management and White-tailed Deer Management

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BROOKHAVEN
NATIONAL LABORATORY
a passion for discovery



4-Poster Tick Management System

Employees affected by ticks account for the highest number of visits annually to the Occupational Medical Clinic

- 4-Poster Tick Management System
 - Is a delivery system to kill ticks on deer
- NYSDEC required supplemental testing
 - Experiments conducted 2010-2011
 - Human and wildlife associated risks
 - Permethrin residues
 - Efficacy
 - NSYDEC authorized use in Nassau & Suffolk Counties 2/12



4-Poster (cont.)

- Studies conducted in North Haven, Shelter & Fire Islands found:
 - Car deer accidents didn't really change
 - Deer didn't move out of home ranges
 - Raccoons, squirrels, mice, birds did use devices
 - Residue transfer to meat non-conclusive
 - Efficacy overall – 86% reduction in ticks
- BNL ready to order 14 devices
- NYSDEC added a requirement – “Authorization to Feed Deer”
 - An application was submitted for “Authorization”
 - NYSDEC -“Authorizations” need additional SEQRA review and a Deer Management Plan.
 - May require that BNL wait a year

4-Poster Report <http://wildlifecontrol.info/tickstudy/pages/default.aspx>.

Questions on 4-Poster?



Deer Management - Review

- Working toward deer management since 1998
 - Many discussions on various concerns regarding potential impacts and draw backs of management
- 2000 – began routine deer surveys to determine population - fluctuates between 400-1000+ animals
- 2003 – Wrote Natural Resource Management Plan with community input



Deer Management - Review

- Historical Review:
 - Worked on regional approach without success
 - NYSDEC extended hunting season out as much as possible w/unlimited take.
 - 2005 - 2006 - Monitoring indicated pine barrens are not regenerating – implicating high deer population
 - Lab gathered employee input on deer management alternatives –
 - Wide range of opinions
 - Preferred management method: not definitive – archery hunt and a culling operation considered
 - Actions have been on hold until present



Environmental Assessment

- Current Status:

- Adopting two existing EAs
 - U.S. Fish & Wildlife Service EA for Deer Management at Wertheim NWR
 - Utilize the environmental analysis due to close similarities of habitat
- USDA – Wildlife Services EA for Deer Management in New York
 - Utilize the methodologies for Integrated Wildlife Damage Management approach

FINAL ENVIRONMENTAL ASSESSMENT
AMENDED
WHITE-TAILED DEER MANAGEMENT PROGRAM
April 24, 2007

U.S. FISH AND WILDLIFE SERVICE
LONG ISLAND AND NYPONDIA WILDLIFE REFUGE COMPLEX
WERTHEIM NATIONAL WILDLIFE REFUGE
SHOLEX, NEW YORK

In compliance with the National Environmental Policy Act of 1969

File of Contents
March 2007
Long Island
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ENVIRONMENTAL ASSESSMENT
An Integrated Wildlife Damage Management Approach
for the Management of White-tailed Deer Damage
in the State of New York
January 2003



Environmental Assessment



- Purpose and Need

- Reduce deer population to achieve levels supportive of ecosystem health and improve human health and safety
- Because:
 - Car-deer accidents
 - Human-deer accidents
 - Damage to landscape vegetation
 - Impacts on ecosystem – migratory birds, small mammals, threatened and endangered species, rare plants
 - Impacts on deer health



Path forward

- June 2012 - Complete environmental assessment
- Fall 2012 - Continue planning for deer removal
 - Planning documents
 - Identify and secure funding – estimated \$150K/year
 - Secure contract with USDA – Wildlife Services
 - Secure agreements with processor(s)
 - Secure agreements with soup kitchens

Questions?

