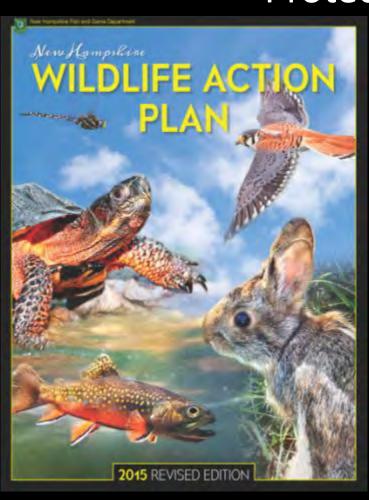


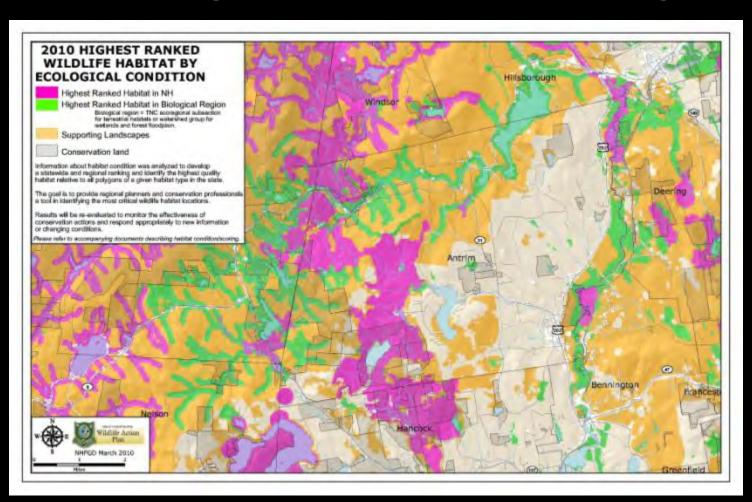
Why is a Conservation Commission Against a Green Energy Project?

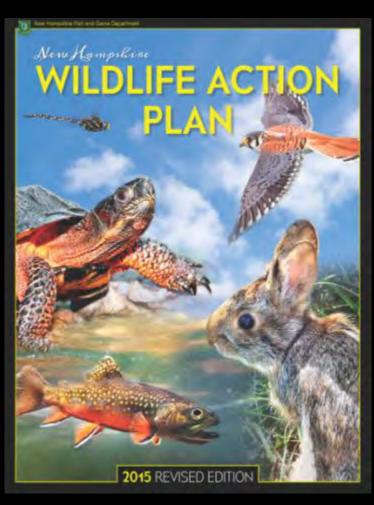


Wildlife Action Plan Developed By NHF & G to Assist Towns/State With Land Use Planning to Protect Wildlife:

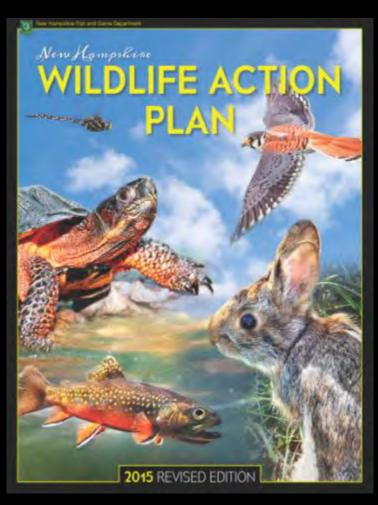


- Private & Public Funds
- NH Natural Heritage, TNC, NH Audubon, DRED, F & G
- 2005 Plan cost \$500,000+
- 2015 Revisions took 2 years and cost \$575,700

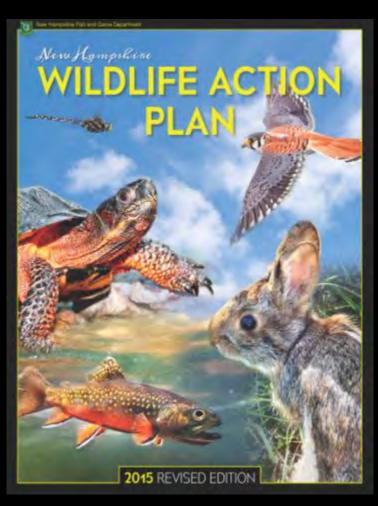




- Because of location in a large unfragmented forest block.....
- That is in close proximity to other large unfragmented forest blocks....
- Abuts thousands of acres of conservation lands



- High Ridge Deve.
 Changes wildlife community by introducing spp. Not normally found in such sites (robins, crows, cowbirds, generalist predators
- Creates more human & wildlife conflicts



- WAP Recommends
 AVOIDING Placing New
 Development into
 These Important Areas
 By:
 - Good Planning;
 - Finding Alternative Sites

Journal of Wildlife Management 71(8)

Invited Paper

Wind Energy Development and Wildlife Conservation: Challenges and Opportunities

WILLIAM P. KUVLESKY, JR., Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX 78363, USA LEONARD A. BRENNAN, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX 78363, USA MICHAEL L. MORRISON, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX 77843, USA KATHY K. BOYDSTON, Texas Parks and Wildlife Department, Austin, TX 78744, USA BART M. BALLARD, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX 78363, USA FRED C. BRYANT, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX 78363, USA

ABSTRACT Wind energy development represents significant challenges and opportunities in contemporary wildlife management. Such challenges include the large size and extensive placement of turbines that may represent potential hazards to birds and bats. However, the associated infrastructure required to support an array of turbines—such as roads and transmission lines—represents an even larger potential threat to wildlife than the turbines themselves because such infrastructure can result in extensive habitat fragmentation and can provide avenues for invasion by exotic species. There are numerous conceptual research opportunities that pertain to issues such as identifying the best and worst placement of sites for turbines that will minimize impacts on birds and bats. Unfortunately, to date very little research of this type has appeared in the peer-reviewed scientific literature; much of it exists in the form of unpublished reports and other forms of gray literature. In this paper, we summarize what is known about the potential impacts of wind farms on wildlife and identify a 3-part hierarchical approach to use the scientific method to assess these impacts. The Lower Gulf Coast (LGC) of Texas, USA, is a region currently identified as having a potentially negative impact on migratory birds and bats, with respect to wind farm development. This area is also a region of vast importance to wildlife from the standpoint of native diversity, nature tourism, and opportunities for recreational hunting. We thus use some of the emergent issues related to wind farm development in the LGC—such as siting turbines on cropland sites as opposed to on native rangelands—to illustrate the kinds of challenges and opportunities that wildlife managers must face as we balance our demand for sustainable energy with the need to conserve and sustain bird migration routes and corridors, native vertebrates, and the habitats that support them. (JOURNAL OF WILDLIFE MANAGEMENT 71(8):2487–2498; 2007)

DOI: 10.2193/2007-248

Journal of Wildlife Management 71(8)

- Impacts Include:
 - Not only Acreage Impacted by Towers, but
 - Infrastructure Impacts As Well
 - Buildings
 - Roads
 - Electrical Transmission Lines
- Habitat Fragmentation Results In
 - Negative Impacts of Biotic Integrity
 - Loss of Biodiversity on Local & Regional Scale
 - Introduce Exotics

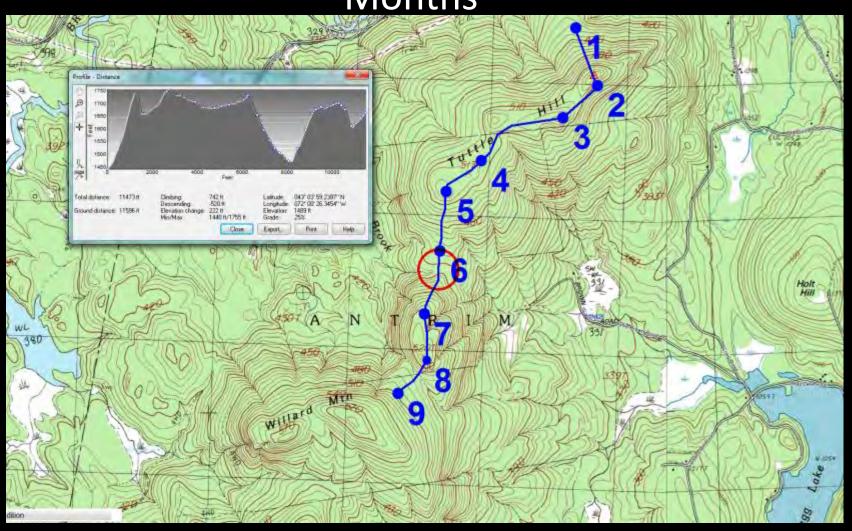
8/18/2016 Supplemental Testimony Submitted by the Antrim Board of Selectmen....Goes to Heart of Stoddard Con Com Argument:

5 propose a subdivision with 2.9 acre lots or larger lots by building a road to meet Town 6 standards under its subdivision regulations. Why is this relevant? Q. In the absence of the Antrim Wind Project, the 908 acres of conservation land could be 9 developed. The development of this land could have impacts on aesthetics, habitat fragmentation, lights, invasive species and other impacts. By protecting 908 acres of 10 conservation land, the Antrim Wind Project will provide a significant benefit to the Town 11 12 and add to conservation lands near the Willard Pond sanctuary. On Page 14, Line 10 of her testimony, Ms. Connelly states that: "As a Landscape

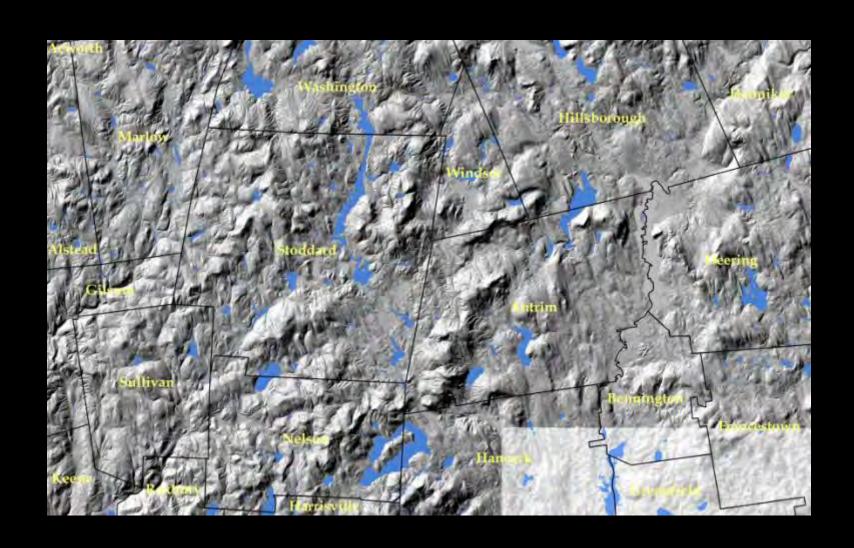
2012 & 2016 Tuttle Hill Traverses Confirm Extensive Wildlife Use



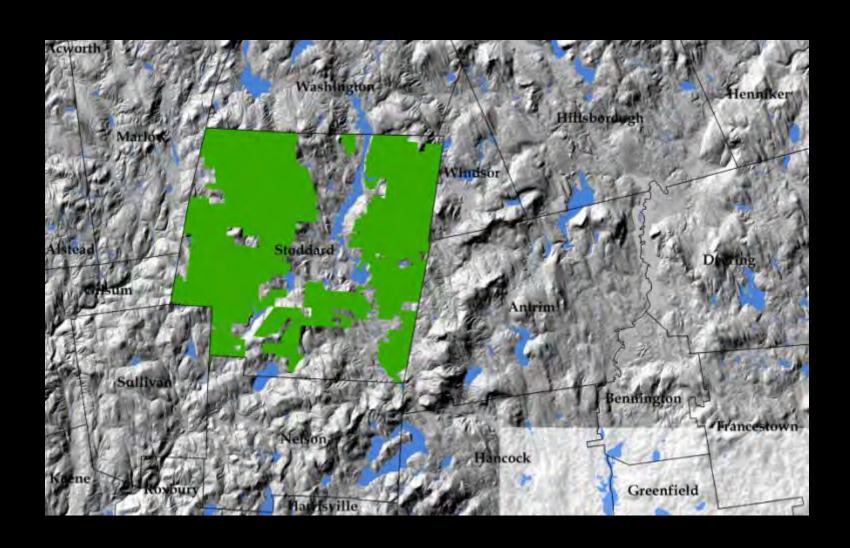
Rugged Terrain Potential Bear Den Areas.....Construction Scheduled for Winter Months



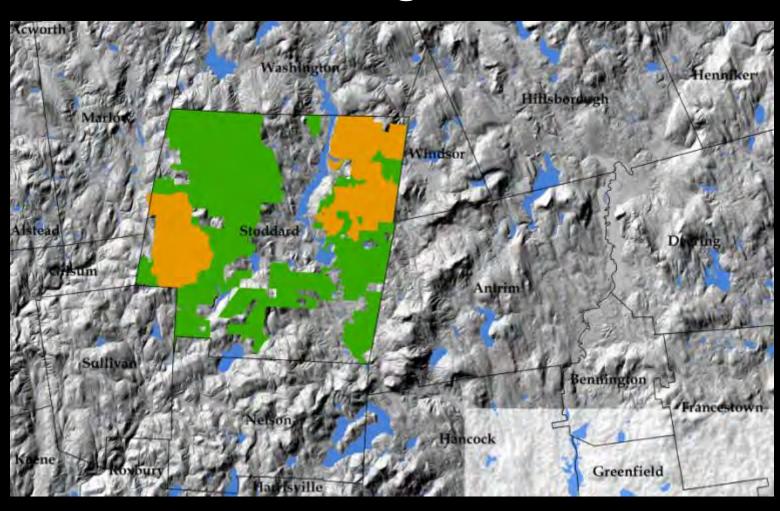
Stoddard in 1977: No Protected Land



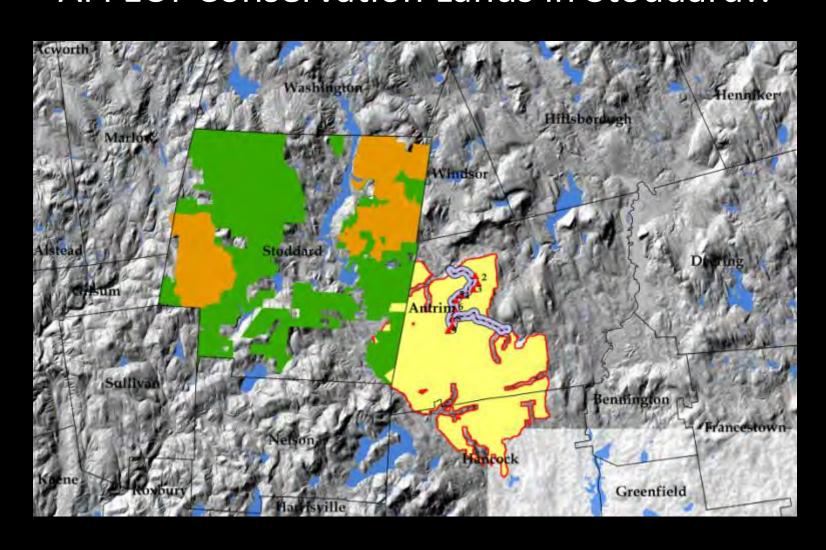
Stoddard 2016: 65% Conserved!



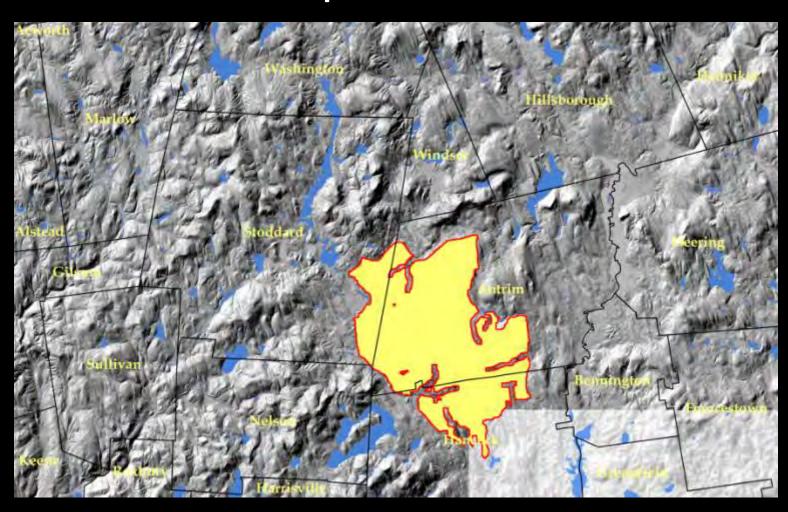
20% of Protected Lands in Forever Wild Designation!!



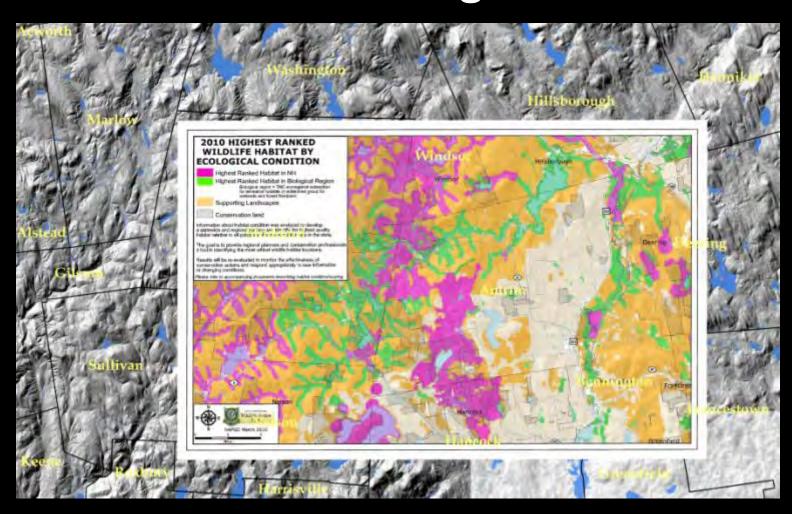
Development Projects in Neighboring Towns AFFECT Conservation Lands in Stoddard!!

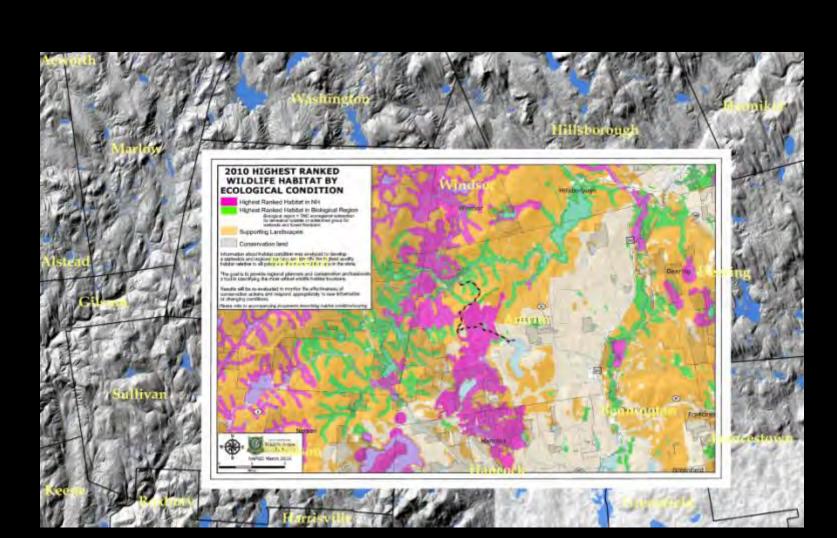


NW Antrim Has 12,994 Acres Undeveloped Forest Block

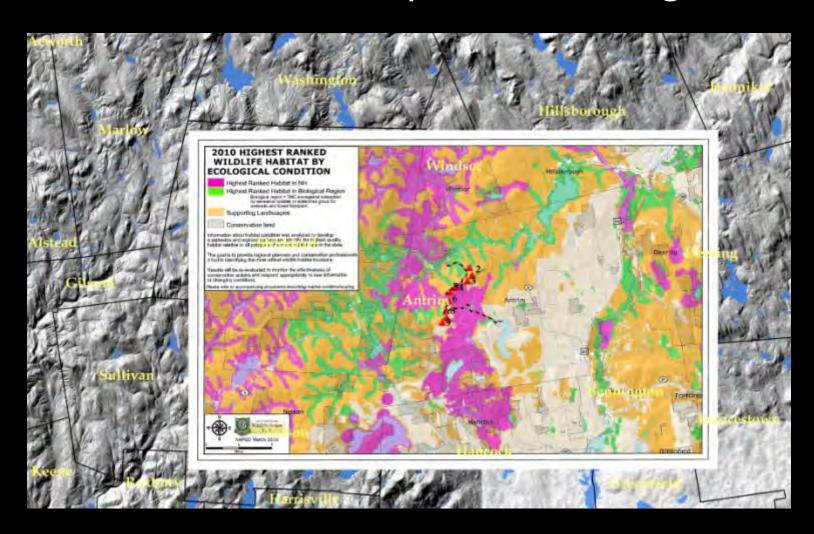


WAP Gives Tuttle Hill Highest Habitat Ranking

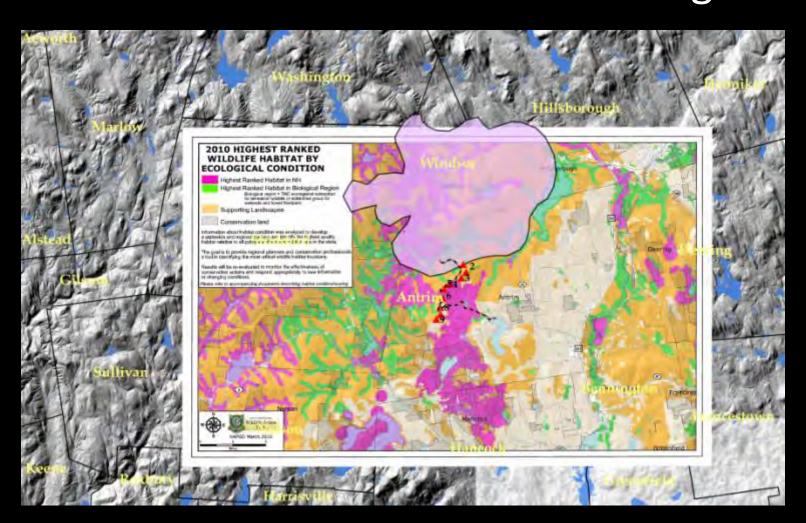




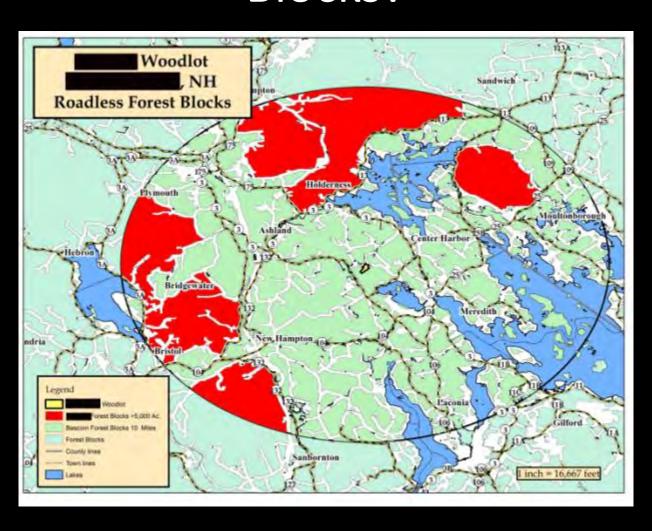
Proposed Wind Farm Lies in Important Habitat.....Used By Wildlife in Region!



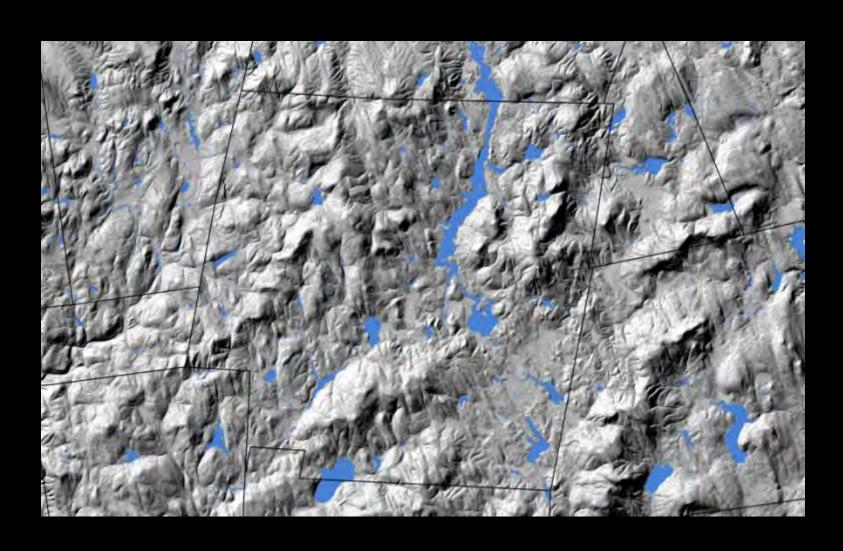
Recent Bobcat Study Confirms Ranking, as Collared bobcat shows home range!



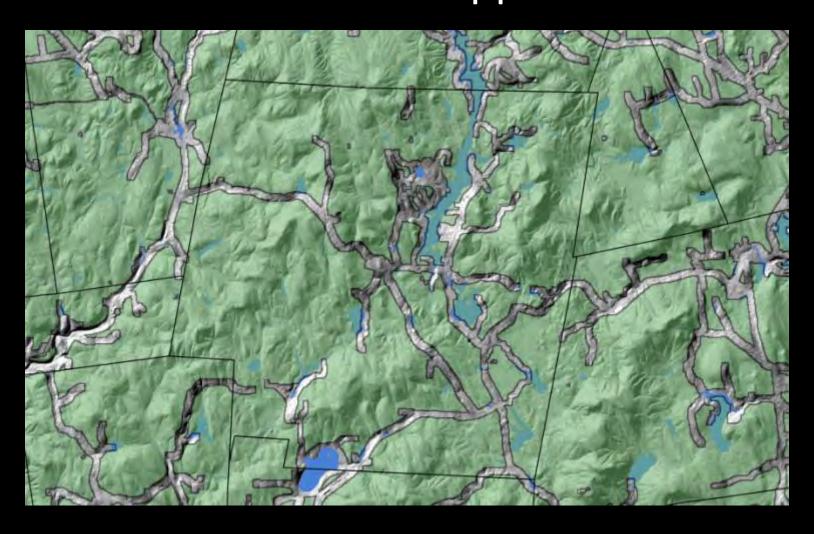
What Are Unfragmented Forest Blocks?



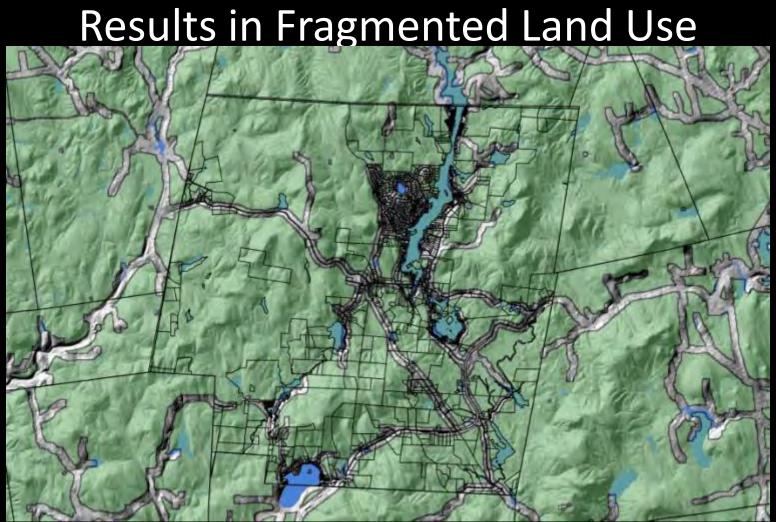
What Are Unfragmented Forests?



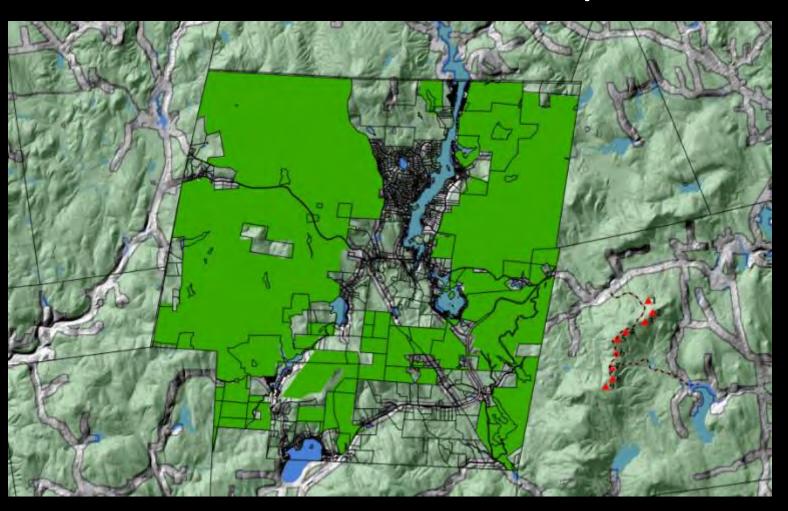
Examples of Unfragmented Forest Blocks......F & G has Mapped Entire State



Tax Map of Stoddard Shows Example of Fragmented Ownership....Which Often

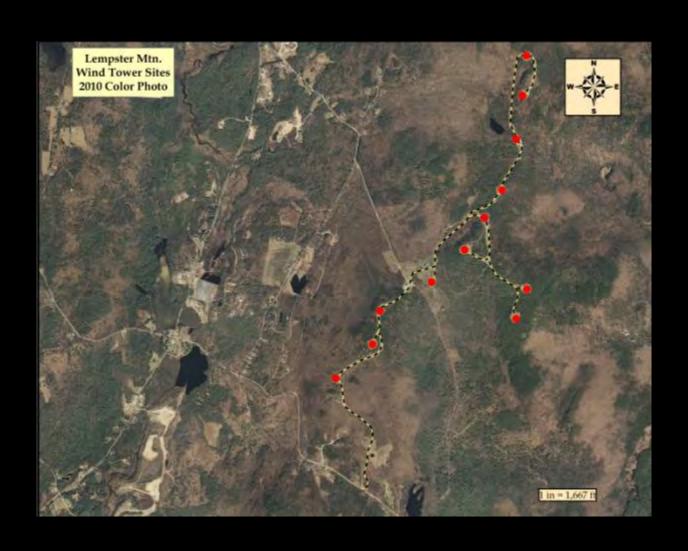


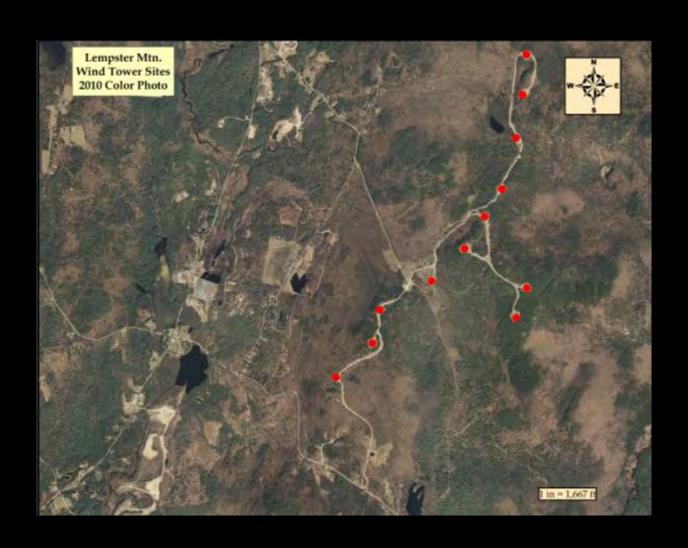
Fortunately in Stoddard....65% of Land is Protected From Development!













Lempster Ridge Before Wind Farm



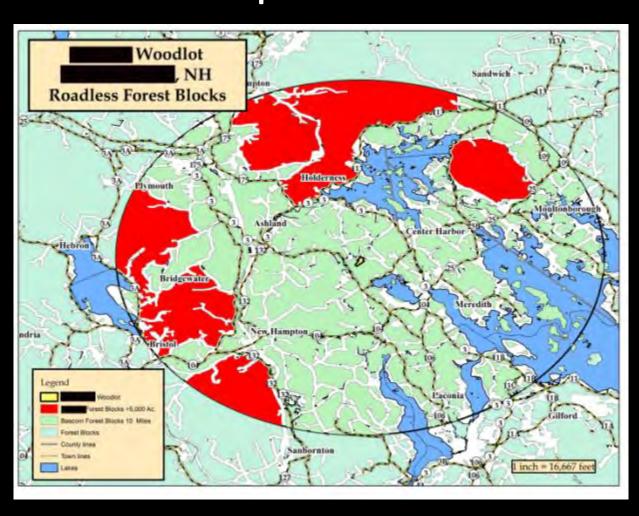
Lempster Ridge After Wind Farm



Lempster Ridge After Wind Farm



Why are Unfragmented Forest Blocks Important?



Concerns About Developing Unfragmented Forest Blocks:

- wildlife habitat (especially for large mammals that roam) is degraded,
- biodiversity is lost,
- the presence of invasive plants, pests, and pathogens increases
- AND water quality decreases.
- the movement of plants and animals is inhibited and it restricts breeding and gene flow, causing long-term population decline.
- As the forest's health and function erodes, so too does it's resiliency and ability to adapt and respond to change, like global warming.

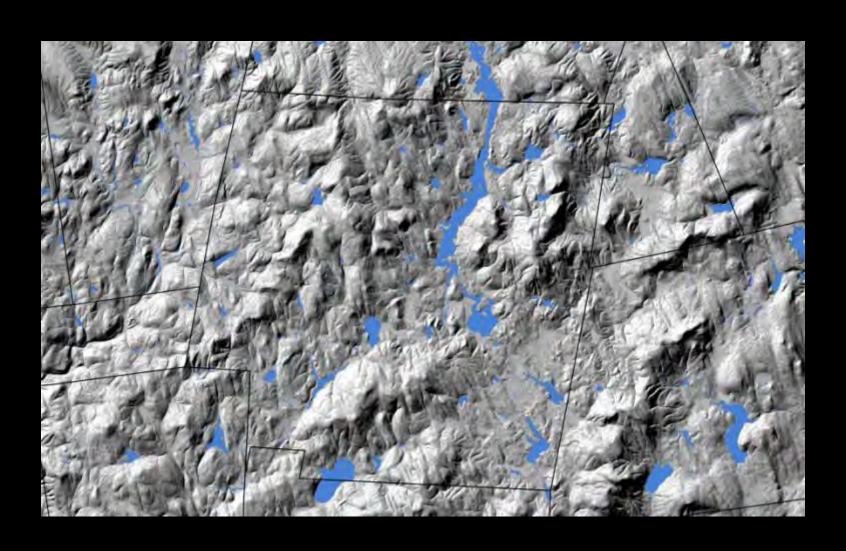
The edge effect that fragmentation creates, damages interior forests by drastically changing:

- temperature,
- moisture,
- light,
- and wind, which impacts the survivability of trees, flowers, ferns, lichens and the animals that depend upon them, in particular certain species of salamanders, goshawks, bats, and flying squirrels.

The edge effect that fragmentation creates, damages interior forests by drastically changing:

- The negative impacts of each residential dwelling acre located within an unbroken forest radiates outward, affecting up to 30 additional acres with increased noise disturbance, predation, and competition from edge dwellers, like the cow bird.
- The larger unfragmented blocks are significant, because they provide important habitat and traveling corridors connecting woodlands with farmlands that are used by a wide variety of song birds and large and small mammals that require deep interior unbroken forest canopies.

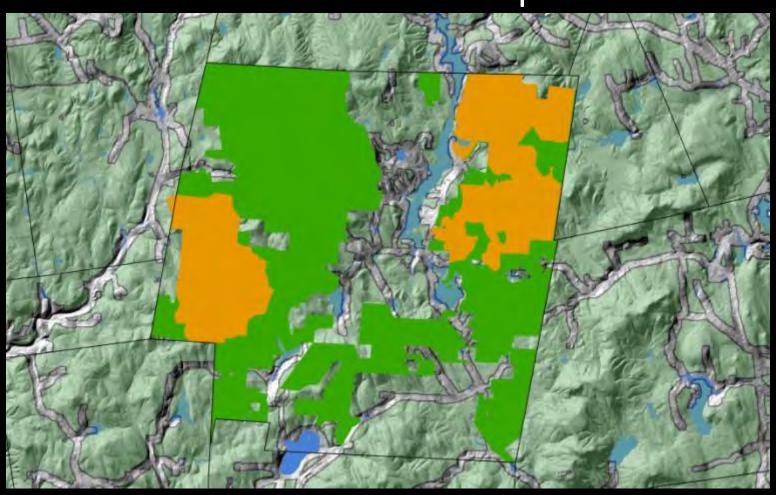
What Makes Stoddard Unique?



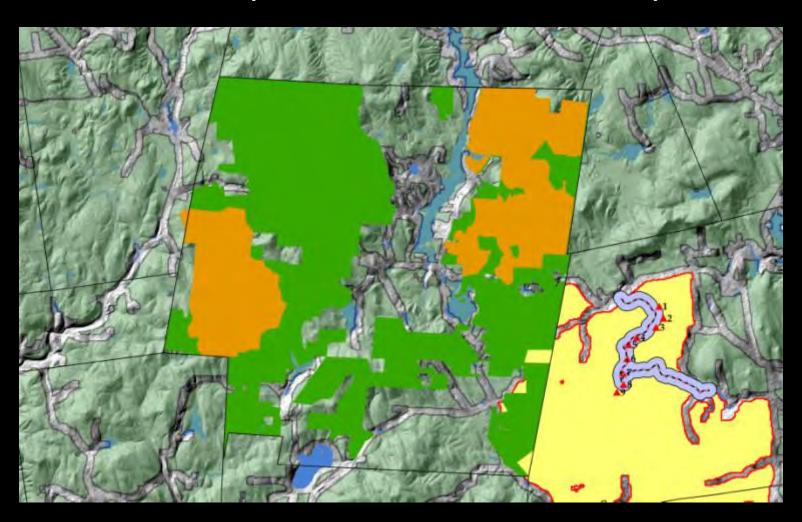
Since 1978 65% of Town Now In Conservation Land!



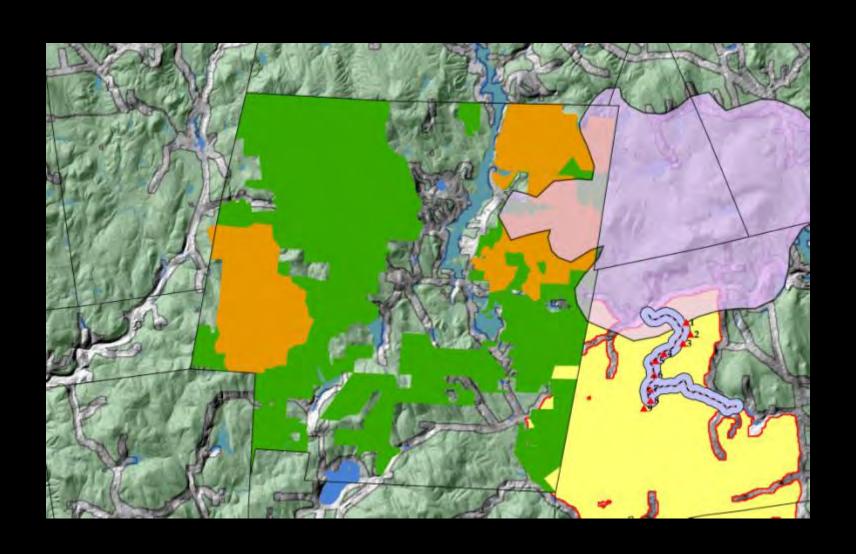
20% of Protected Lands in Forever Wild Designation.....Opportunity for Ecological Restoration on Landscape Level



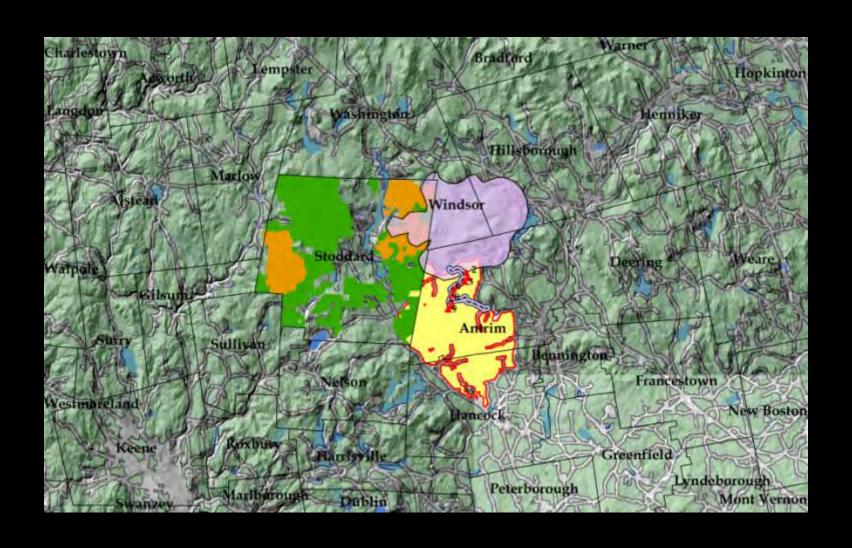
The Close Proximity of AWE to Protected Lands (Viewshed & Wildlife)!



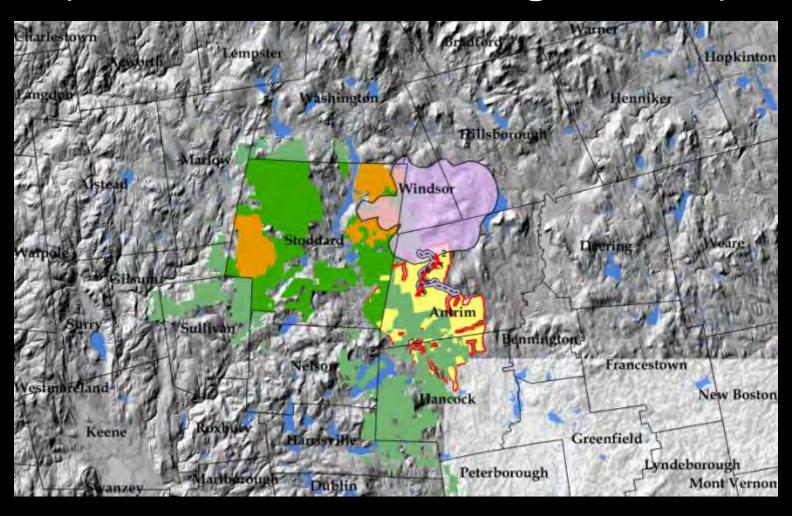
And Confirmed Bobcat Habitat.....



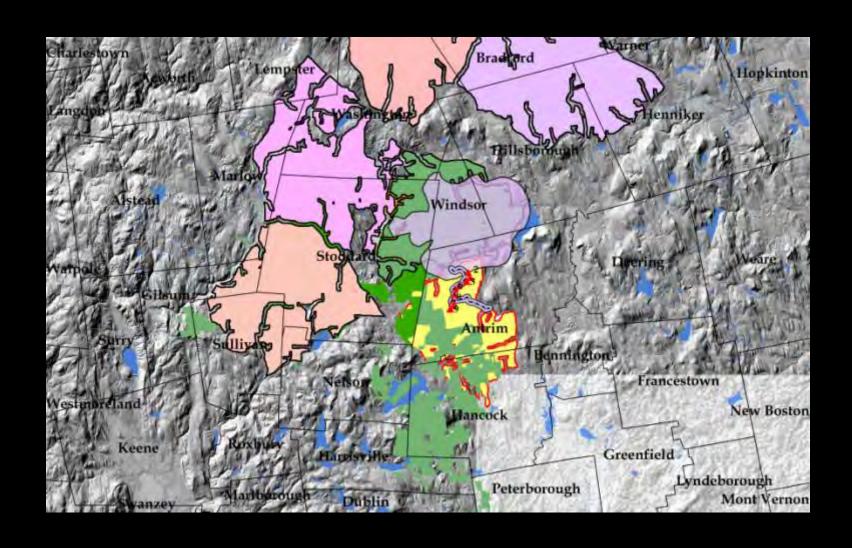
Bigger Scale View.....



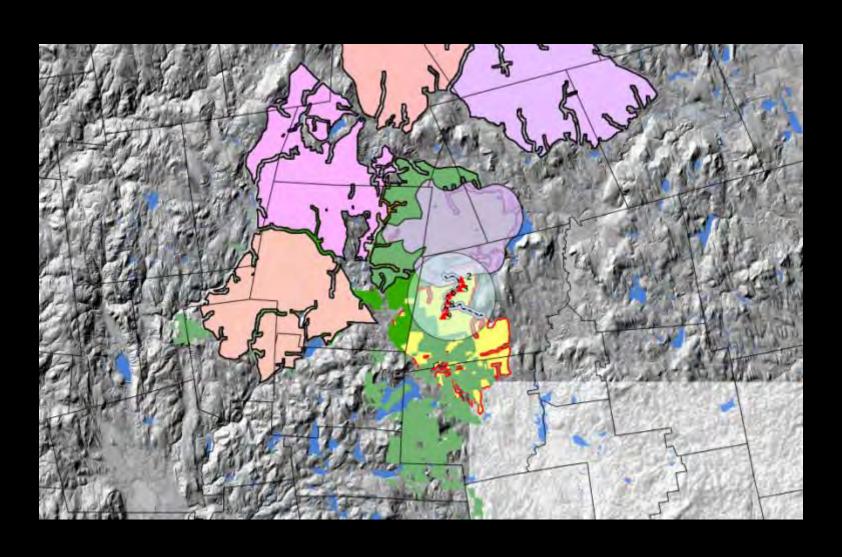
Proximity to Super Sanctuary Lands (42,000 acres of contiguous CL)



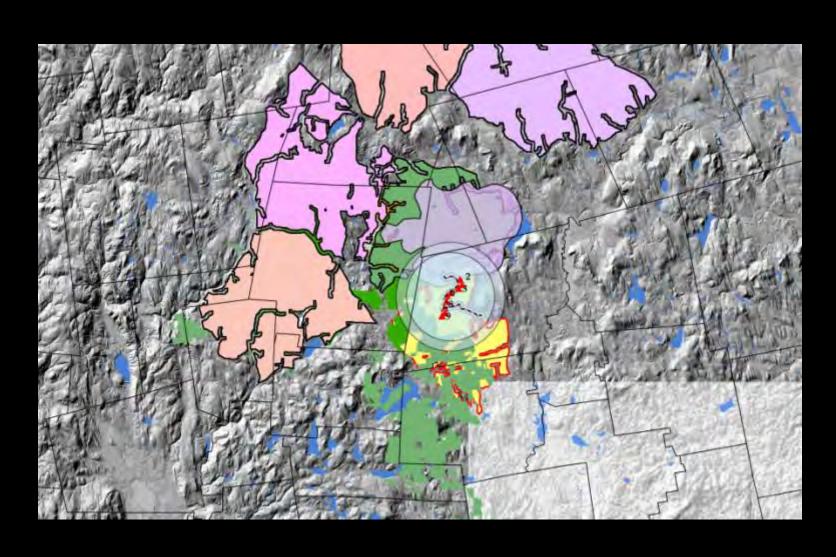
Large Unfragmented Forest Blocks



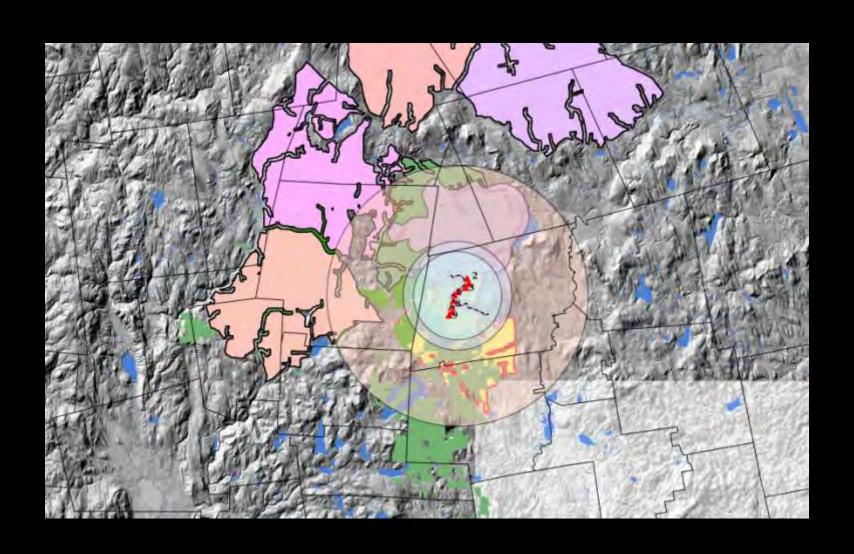
Bobcat Range: 12-14 Sq. Miles



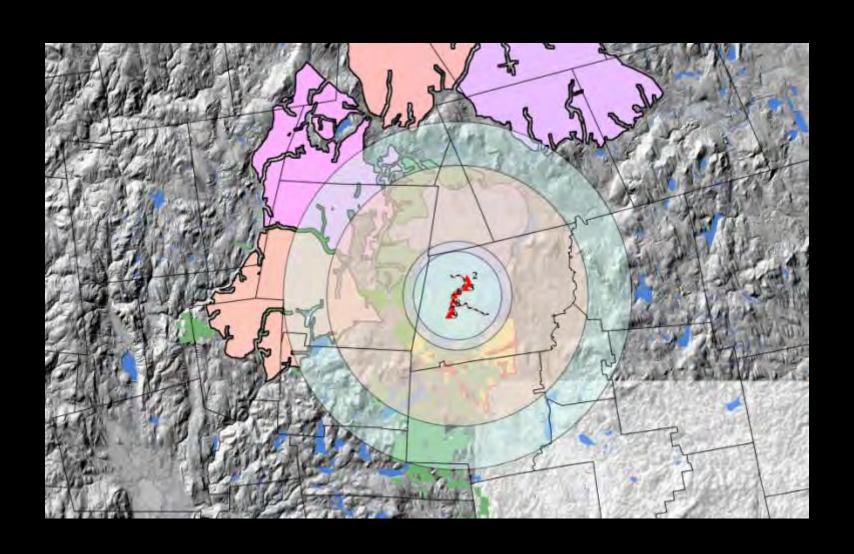
Coyotes: 5 Mile Diameter



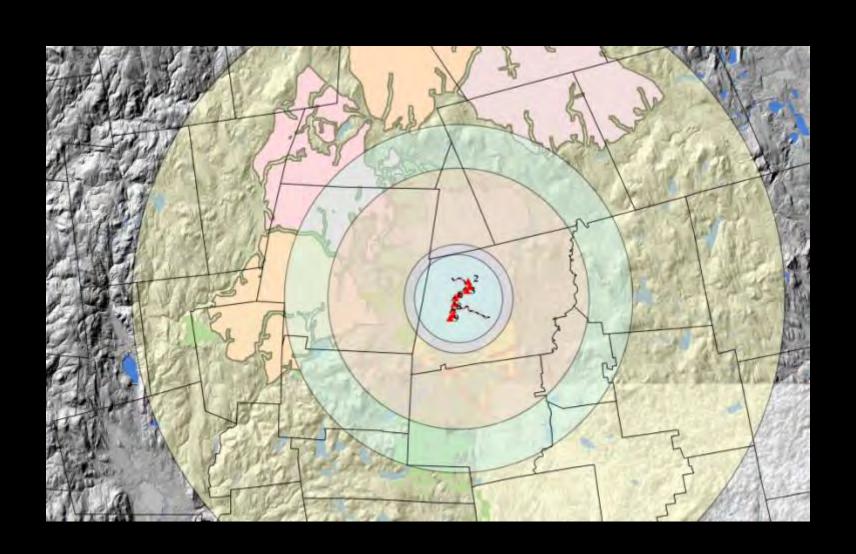
Fisher: 8-15 Mile Diameter



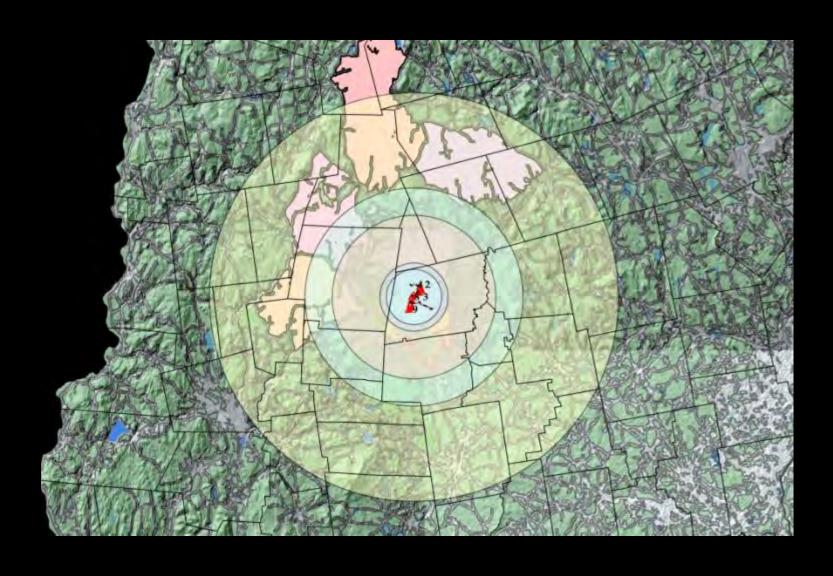
Moose: 4-20 Mile Diameter

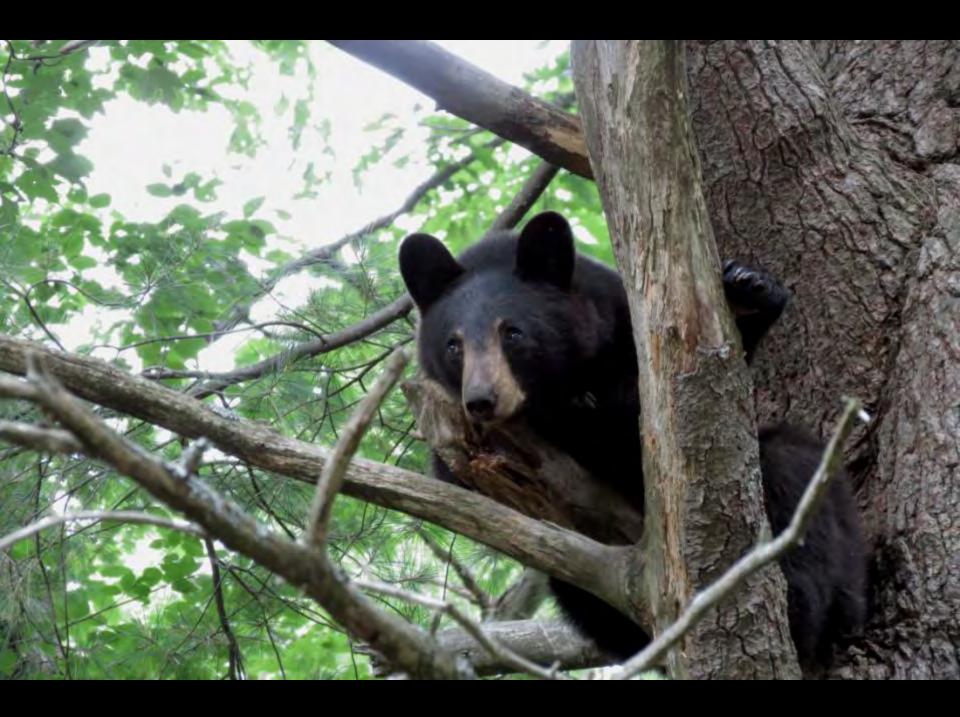


Bear: 30 Mile Diameter



Relative Size of Territory Requirements









If We Want These Animals on Our Landscape......We to Protect Their Important Habitats



Wind Energy Trumps Aesthetics.....???

INEXHAUSTIBLE RESOURCES. UNLIMITED POTENTIAL.

Experts: Wind power needs outweigh aesthetics

January 13, 2015

"It would add 27 megawatts of clean, carbon neutral, renewable energy to the New England energy grid, with relatively minimal impacts to ecosystems and wildlife."

Margaret Dillon

LOOKS COUNT!!!



Stoddard is a Recreational Community for Thousands of People



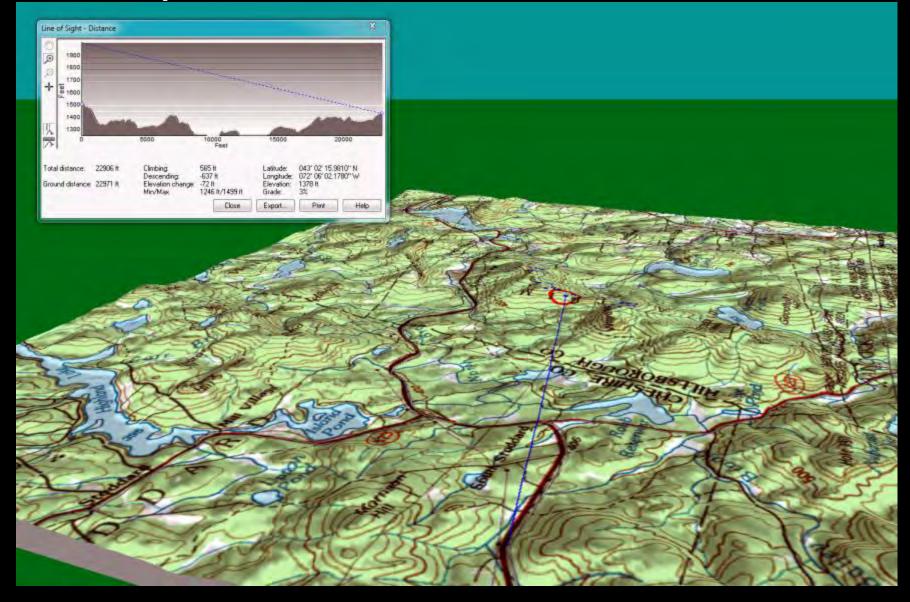
Pitcher Mtn. Offers the Best 360° Views For The Effort.....Visited by Thousands



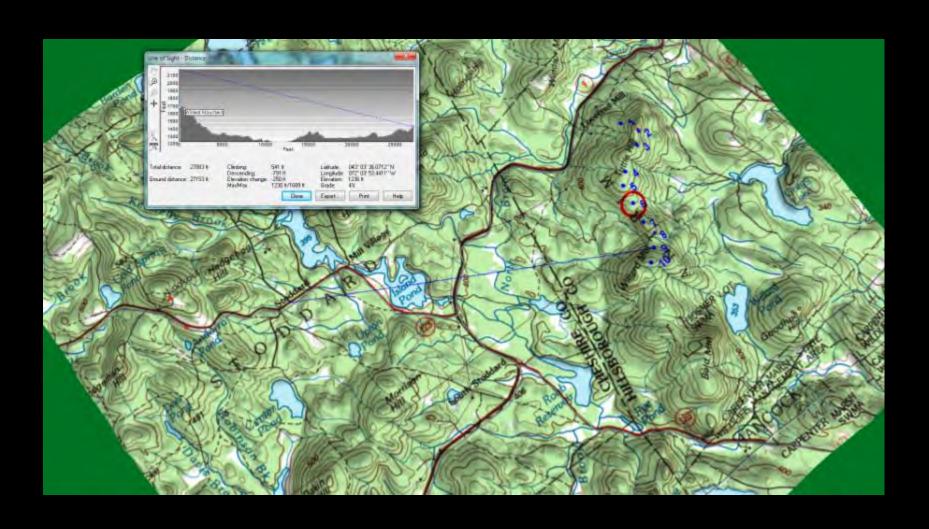
Pitcher Mtn. Offers the Best 360° Views For The Effort.....Visited by Thousands



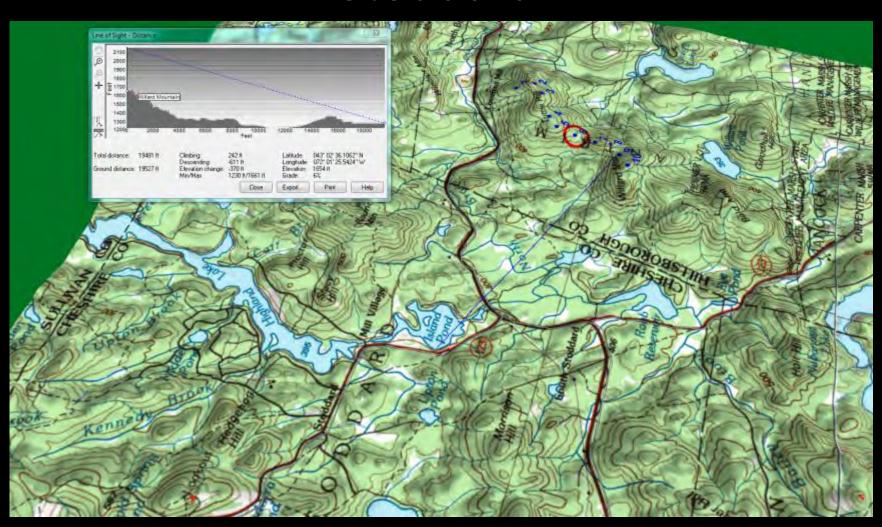
Impact From Rte 9~Stoddard



View From Stoddard Town Hall



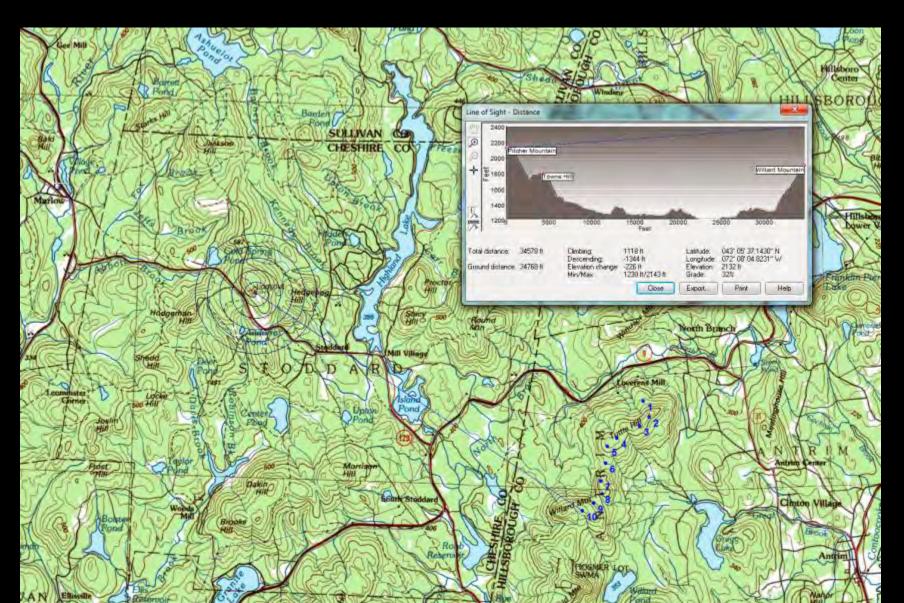
View From Island Pond Beach, Stoddard



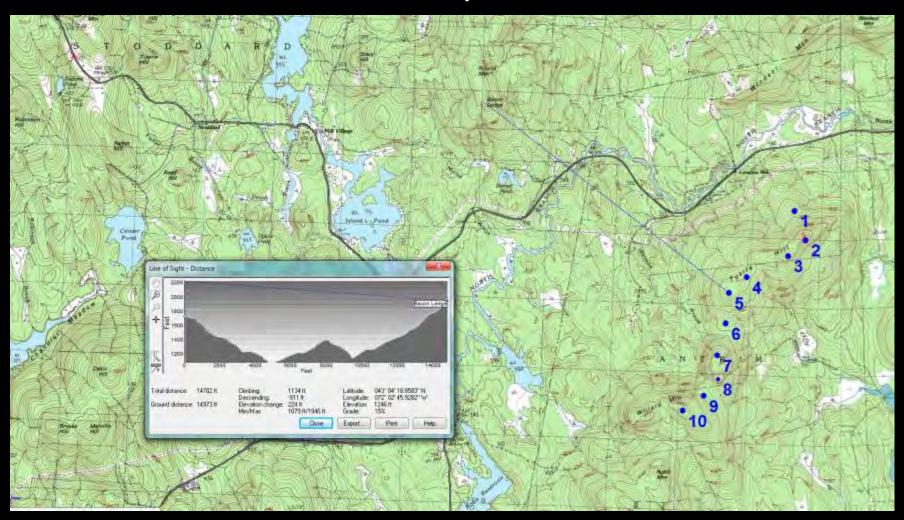
View From Hidden Lake Development, Stoddard



View From Pitcher Mtn., Stoddard



View From Bacon Ledge, Peirce Reservation, Stoddard







im wind farm denied

By KAITLIN MULHERE Sentinel Staff

ANTRIM — A state agency has denied an application for a wind energy facility because it would blemish the look of the surrounding natural area, in a move the developer said could be a setback for clean energy in the state.

The N.H. Site Evaluation Committee voted last week not to certify a project proposed by Antrim Wind Energy LLC to build a wind farm in the northwest part

of town.

After three days of deliberating, members of the committee found the project would have an "unreasonable adverse effect" on the aesthetics in the region, primarily the visual aesthetics, Michael J. Iacopino, attorney for the thy said the company was disapcommittee, said.

Antrim Wind had proposed building 10 wind turbines, each 500 feet tall, on privately owned land near Tuttle Hill and Willard Mountain. The developer planned to sell energy produced at the

30-megawatt facility to regional buyers, according to the project's

Antrim Wind is a subsidiary of Portsmouth-based Eolian Renewable Energy.

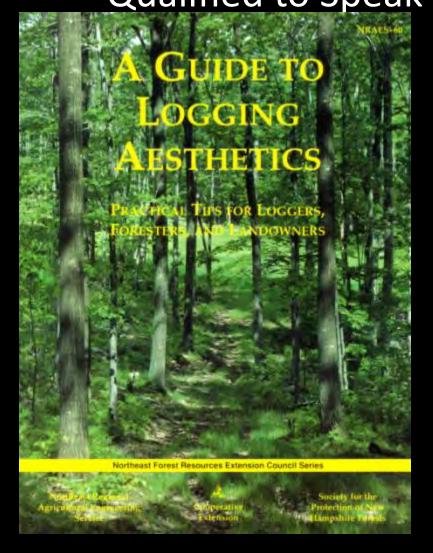
Eolian CEO Jack Kenworpointed by the decision. The company felt the project had gone a lot further than other projects to mitigate the visual effects of the wind turbines, including using radar-activated lighting and forming a swath of permanently

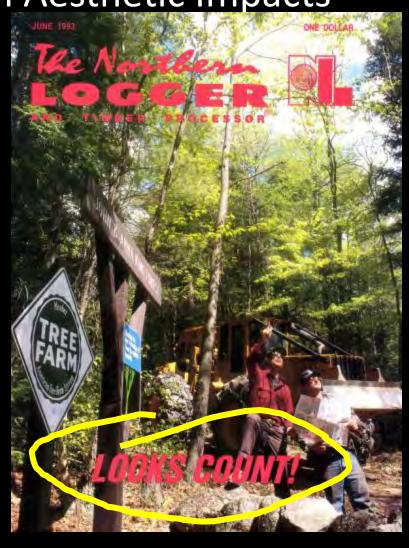
conserved land around the facility, he said.

Because of its large size, the project has been under the jurisdiction of the Site Evaluation Committee since 2011. The committee is made up of regulators from various agencies. In November, the committee had 11 days of hearings where parties discussed the project's anticipated effects on regional development and environmental issues.

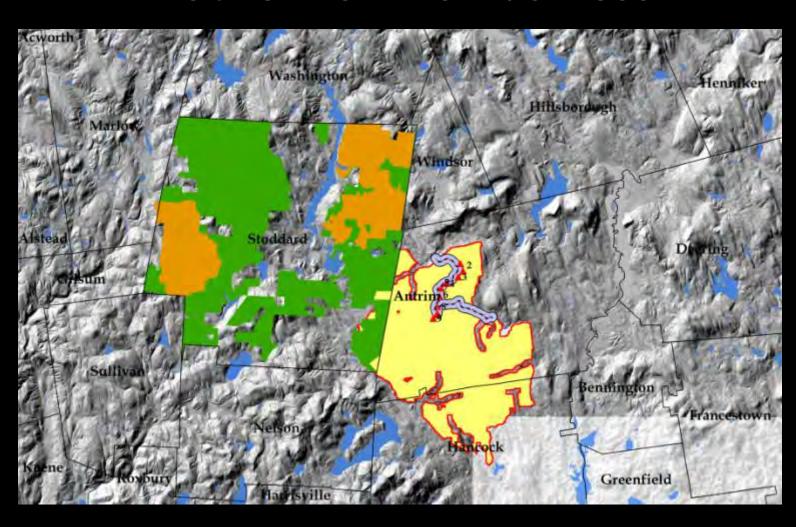
See WIND on Page A8

G.T. Jones Acknowledged As Expert In Addressing Forest Aesthetic Concerns & Qualified to Speak on Aesthetic Impacts





Why Is Stoddard Sticking It's "Nose" In Another Town's Business?



RSA 36-A Allows for "Optional Activities".....

The Keene Sentinel

Foes of bypass plan rally, plan door-to-door ca

(Continued from Page One)

She introduced highway and environmental experts, who addressed a crowd partly made up of college students and overwhelmingly supportive of criticisms about the project.

The \$66 million highway expansion, in the planning stages for years, is due to enter its construc-

tion stage next month.

Critics of the plan object mainly to the size of several intersections proposed by the N.H. Department of Transportation and endorsed by Keene city government.

There was no evidence of any city officials at the gathering.

The meeting came days after critics filed an appeal challenging the state environmental permit that allows the transportation department to dredge and fill 30 acres of wetlands.

The forum was hosted by Concerned Cheshire Citizens, a local grass-roots organization opposed to the scope of the planned bypass, and Keene State College Campus Ecology.

"There is a real, impending crisis in our community due to insufficient attention to details on the part of those to whom we entrusted our well-being." Kennedy



Sentinel photo by TRACI RUEST

Geoff Jones — Director of Land Management, Society for the Protection of New Hampshire Forests — refers to an overhead projection while discussing the environmental impacts of the Keene Bypass project Wednesday night at Keene State College.

said. She asked for volunteers to go door to door and talk to residents about the bypass this weekend.

"If each person talks to six peo-

ple, we can make a difference," she said. She also asked residents to attend the city council meeting on April 20 to protest the bypass proposal. "It is not too late," she said. "It will be if we do nothing."

Referring to a huge map detailing the route and scope of the project, Tony Redington, a planner for the Vermont Agency of Transportation, explained how a cheaper, smaller and less time-consuming alternative to highway bridges included in the Keene bypass plan exists in the form of roundabouts.

Roundabouts are small, lowspeed traffic circles with clear deflections that slow traffic speeds. While a traffic circle is typically 300-400 feet in diameter, roundabouts are 90-200 feet.

The biggest question about roundabouts is whether they could handle the projected increase in traffic, and these figures have been hotly debated. Redington said the transportation department's traffic predictions — an increase of 10,000 to 33,000 cars a day by 2015 — are inflated. With N.H. population growth at 2 percent a year, Redington said the figures were greatly exaggerated.

"I don't see anybody in city planning defending those numbers," he said.

Redington estimated that one roundabout could be constructed for \$100,000 in six months, and

that the whole project could done for \$8 million to \$10 milli The bypass project is estimated cost \$66 million, most of it w federal and state money.

Comparing roundabouts to tersections, Redington said tl reduce pedestrian accidents by percent to 70 percent, cut crashes in half, reduce emissic keep traffic calm, and function attractive gateways to commu ties. He said that with the possi exception of Winchester Street, of the transportation department plans to widen intersections cobe done with roundabouts. To Keene plan contains no roundabouts.

Geologist Mike Corvel and (off Jones, director of land mana ment at the Society for the Prot tion of N.H. Forests, addressed environmental impacts of the p ject.

Jones asked that people thi of the bypass project in conjuition with the slated developme of a 134,000-square-foot shoppi complex by Konover Developme Corp. of West Hartford, Connext to the bypass.

"They are linked through t permitting process and link through their impact on the sanatural resources," Jones said.

Stoddard Helped Lead Fight to Prevent an Ill Conceived Bobcat Hunt



Hey, Fish and Game: Don't hunt bobcats

IS NOT WORTH

By GEOFFREY T. JONES um asking New Hamp shire residents and friends of bobcats to contact the N.H. Fish and Gamo not a genetic response, like Department and its commission members and im-

director on the board of the

N.H. Wildlife Federation

plore them to maintain the moratorium on hunting and trapping bolents. My camments are rooted in a 35venr career as a professional forester and as an eight-year

N.H. Voices

Why?

They are still a speries in recovery. I worked for the Society for the Protection of N.H. Forests in the late 1970s and 30s, when its land and other land in Cheshire County were

example of this: Bears keep their cubs with them for two years. Why? To teach them all of the above. Predators

gain learned behavior; it is

prev species have Hobcats (and other predatiers) are an in-SPECIES POSES telligent spenies NO THREAT AND that play an

important role

on translatining

renloginal bal-

ance and they

should be re-

own populations, which are tied closely with food abundance/scarcity. This has been thoroughly studied with fyre: and enewsitee hare population cycles. I strongly oppose and object to the nation of the need to hunt them in order to manage their populations.

That is a hunter's myth!

spected They maintain their

posted against hunting bob-I have worked dilizently rate. It was done for a reason and with focused purpose - to keep the species from to help identify and protect grong extinct in the state thousands of acros of land I furnly believe this "predin New Hampshire - esceator is not designed to withcially in southwestern New Hampshire and Stoddard in stand hunting pressure from humans, because it destroys particular - in order to provide large, unfragmented

their complex social order. which lackades older uniquals forest habituts for those spoteaching younger ones about cies that require thuse urthe geography, places to bunk can to survive. I do not beespecially when food is scarce. lieve, especially in this day and to seek over when being and age, that the conservathreatened. They also help tion community and private to maintain "order" _ teachlandowners would accept. bunting bobcats (or bears) ing younger juvenile ents acceptable bennvior. I believe or covotes as a reason for this has been documented this effort. They are an imthrough field studies. Another porton part of nov evolving

understanding of the need to for life? We are NOT living. restore and maintain biodiversity and ecosystem health

For the skeptics, I rescourage folics to read the bests Bohrats Before Breakfast. written by a local trapper. branter and bat-THIS FRAGILE urnlist, the late

John Kalish.

It may allow

them to bet-

why he gave

ter understand

TAKING FOR ITS up the gun and traps and spent COAT OR MEAT. tine rest of his adult life promoting land arked if the study was a preprotection and was against cursor to re-establishing a hunting, Back in the 1970s, Kulish quickly realized that

> habitat loss crenbened with hunting pressure would drive bolicate to extinction. He did: an about-face and became an trust, by not only the Pish arded protector and spokesman for this species. Nothing has changed I believe it is also a gues-

tion of farmess. Hunters use down, built high-powered rifles with scopes marine resources." lasers and multiple shot magazines; they use hightech gear GPS, cellphones, game comeras, walkie talkies, etc. / in order to find and kill these unimats runspecial interest group. If you

God-given ability and a core and NOT allow these magnifhabitat that is being fractured by development, to counter the onslought

ally whom they have been

"treed", while the hunted

animals have only their

Whore is the sport, the skill, the fairness? Where is the respect and reverence

in the days of Daniel Boone and Davy Crockett.

These animals have the.

right to room the same landscape we do, free of the

four of being slaughtered. They are not a threat to humans nor do we need their. ment or far. Lastly, when I was con-

tected by the Fish and Game-Department, asking permismon to use a client's land for and of the babcat atody arens (as a baiting and gamecamera tagging station). I

bobeat hunting season. I was told "absolutely not" I find the effort to restorea hunting season on bubcat to be a blataut breach of

and Game biologists, but by their civilian-appointed Fish and Game commissioners, whose mission, curioualy, is as "guardians of the state's fish, wildlife and

I bolieve the effort to reinstate a hunting season on bobents in New Hampshire is ill-advised, politically driven. mod serves a very narrow

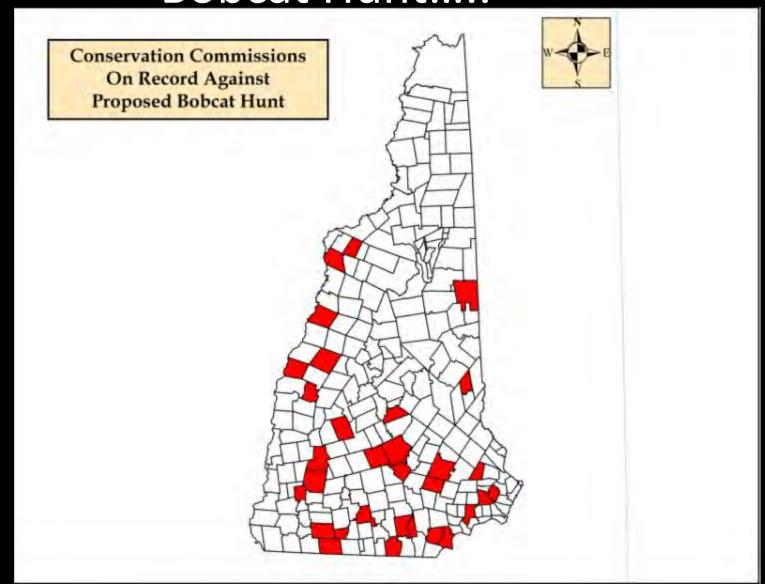
agree, please contact your

and ask them to recensider

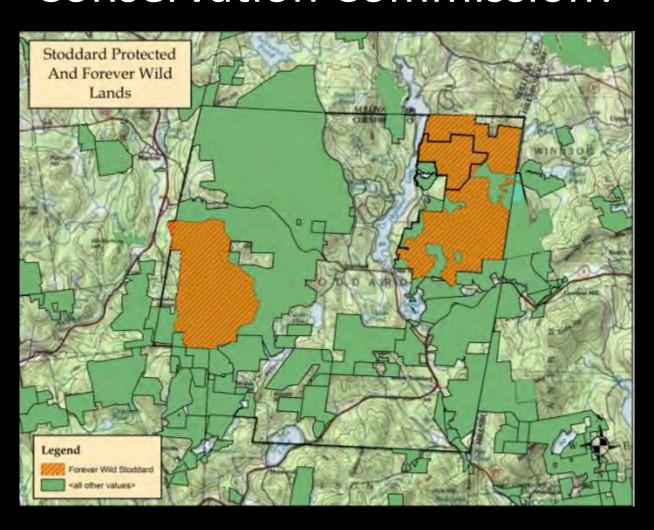
Fish and Game commissioner

icent animals to be hunted. Geoffrey T. Jones is a professional forester and chairman of the Stoddard Conservation Commission.

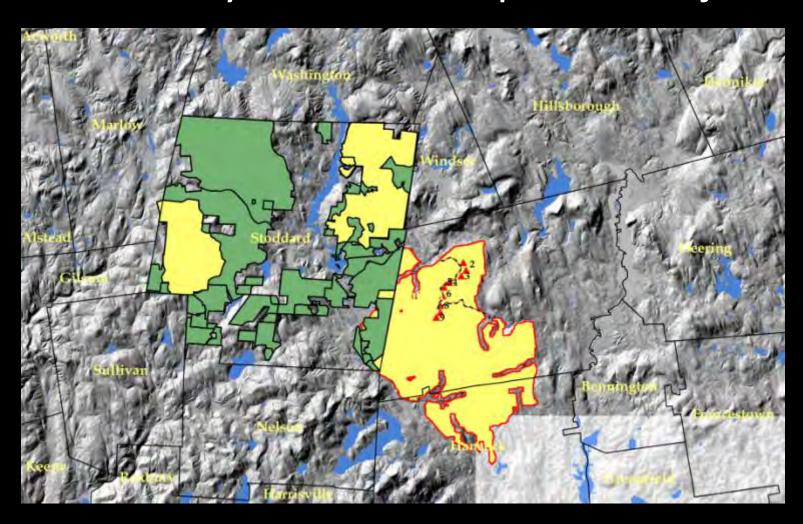
Solicited 35 Other Con Coms to Protest Bobcat Hunt.....



What Are Challenges to Stoddard Conservation Commission?



Protecting Values on Conservation Lands from Poorly Sited Development Projects



What Are the Biggest Threats to Life On Planet Earth??



According to Harvard Professor E.O. Wilson.....

ISBN 45-978-0-593-06217-5 page 16-0-593-06217-1 LISA \$21,55 Can. \$27,50

"Those who accept Wilson's challenge world with new eyes, and with him fin ground to care for creation." —John H University School of Theology

The Creation is a tittely book about of life on this planet, which E. demonstrates is more endangered than Drawing on his own personal experience leading biologist, he prophesies that at I species of planes and animals on Earth be gone or fated for early extinction by our present century.

Written in the form of an impass in a Southern Baptist pastor, The Ora strains that science and religion need in arragonists. Explaining that there are environmental and spiritual reasons to about pollution, global warning, and Edeclining biological diversity. Wilson so

these two powerful social and political forces can be combined in a minually respectful alliance, with basic metaphysical differences put aside in the service of real-world goals, some of the greatest problems of the twenty-first century might be solved quickly.

Wdson offers both the pastor and all general readers a rour of the living environment—from the biologically rich coral reefs, the "rainforests of the sea," to the plight of the world's 5,743 known species of amphibians—consprising frogs, roads, and salamanders—whose precipitous decline pressages our own.

conserved on hard film

- H habitat loss, including that caused by human-induced climate change
- I invasive species (harmful aliens, including predators, disease organisms, and dominant competitors that displace natives)
- P pollution
- P human overpopulation, a root cause of the other four factors
- O overharvesting (hunting, fishing, gathering)

When a species declines toward extinction, not one but two more factors are usually responsible. Thus overfishing in the

continued from from flop?

With lyrical language that evokes his Alabama Baptist boyhood and recollects many of memorable experiences as a biologist, slains why Earth's rich but imperited biovitally important to humanity and why ies, however incompicuous and humble in to us at the moment, is a masterpiece and well worth saving."

Prentian is a work that could help usher I, so painfully divided roday by culture cs, into a new era of respect and munual ding. Most urgently, it is a book that ugh potent words of wisdom and halm in environmental Armageddon otherned to diminish our own physical and yes.



Raised in, Alabama, E. O. WILSON, a Harvard University professor for nearly five decades, has written more than twenty books, including On Human Nature and The Anto, both of which won the Pulitzer Prize, He has received more than one hundred awards in science and letters from around the world. He lives in Lexingson, Massachusetts, with his wife, Renoe.

VILLEGO DE CONTRACTO DE TRUBE SENTIMO Y DESENVA POR LES CONTRACTOS DE PRESENTA DE PROPERTO DE LA PROPERTO DE PRESENTA DE PROPERTO POR LA PROPERTO DE PROPERTO DEPARTO DE PROPERTO DE PROPE

Forest Fragmentation! Because it Results In:

Habitat Loss **Invasive Species** Loss of Biodiversity

Stoddard Represents One of the Dark Areas......We Need To Defend It!



SEC Challenge:

- Don't Try to Solve One Environmental Crises
 By Creating Another
- In Order to Reverse A Situation Like the One Below.....Will Happen Once Land Use Decision At a Time....

Please Uphold Your Original Decision and Deny the AWF





facebook. | www.sentinelsource.com

trim wind farm denied

By KAITLIN MULHERE Sentinel Staff

ANTRIM — A state agency has denied an application for a wind energy facility because it would blemish the look of the surrounding natural area, in a move the developer said could be a setback for clean energy in the state.

The N.H. Site Evaluation Committee voted last week not to certify a project proposed by Antrim Wind Energy LLC to build a wind farm in the northwest part

After three days of deliberating, members of the committee found the project would have an "unreasonable adverse effect" on the aesthetics in the region, primarily the visual aesthetics, Michael J. Iacopino, attorney for the thy said the company was disapcommittee, said.

Antrim Wind had proposed building 10 wind turbines, each 500 feet tall, on privately owned land near Tuttle Hill and Willard Mountain. The developer planned to sell energy produced at the

30-megawatt facility to regional buyers, according to the project's

Antrim Wind is a subsidiary of Portsmouth-based Eolian Renewable Energy.

Eolian CEO Jack Kenworpointed by the decision. The company felt the project had gone a lot further than other projects to mitigate the visual effects of the wind turbines, including using radar-activated lighting and forming a swath of permanently

conserved land around the facility, he said.

Because of its large size, the project has been under the jurisdiction of the Site Evaluation Committee since 2011. The committee is made up of regulators from various agencies. In November, the committee had 11 days of hearings where parties discussed the project's anticipated effects on regional development and environmental issues.

See WIND on Page A8