



Connecticut's Future:

Rooted in Choice!

Or ...

We Chose This?

***Karl Wagener
Executive Director
Council on Environmental Quality
CT Invasive Plant Symposium
October 11, 2066***

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“It’s difficult to make predictions, especially about the future.”



The pairs of figures above indicate by their comparative sizes the populations that will be supported eventually by different regions. North America will support 600,000,000, of whom 200,000,000 will be in the United States. The equatorial regions will be densest.

City Populations Predicted *from Study of Flies*

*Experiments with Pumpkins, Yeast and Rats
Make Possible Forecasts of Cities' Growths*

By MYRON M. STEARNS

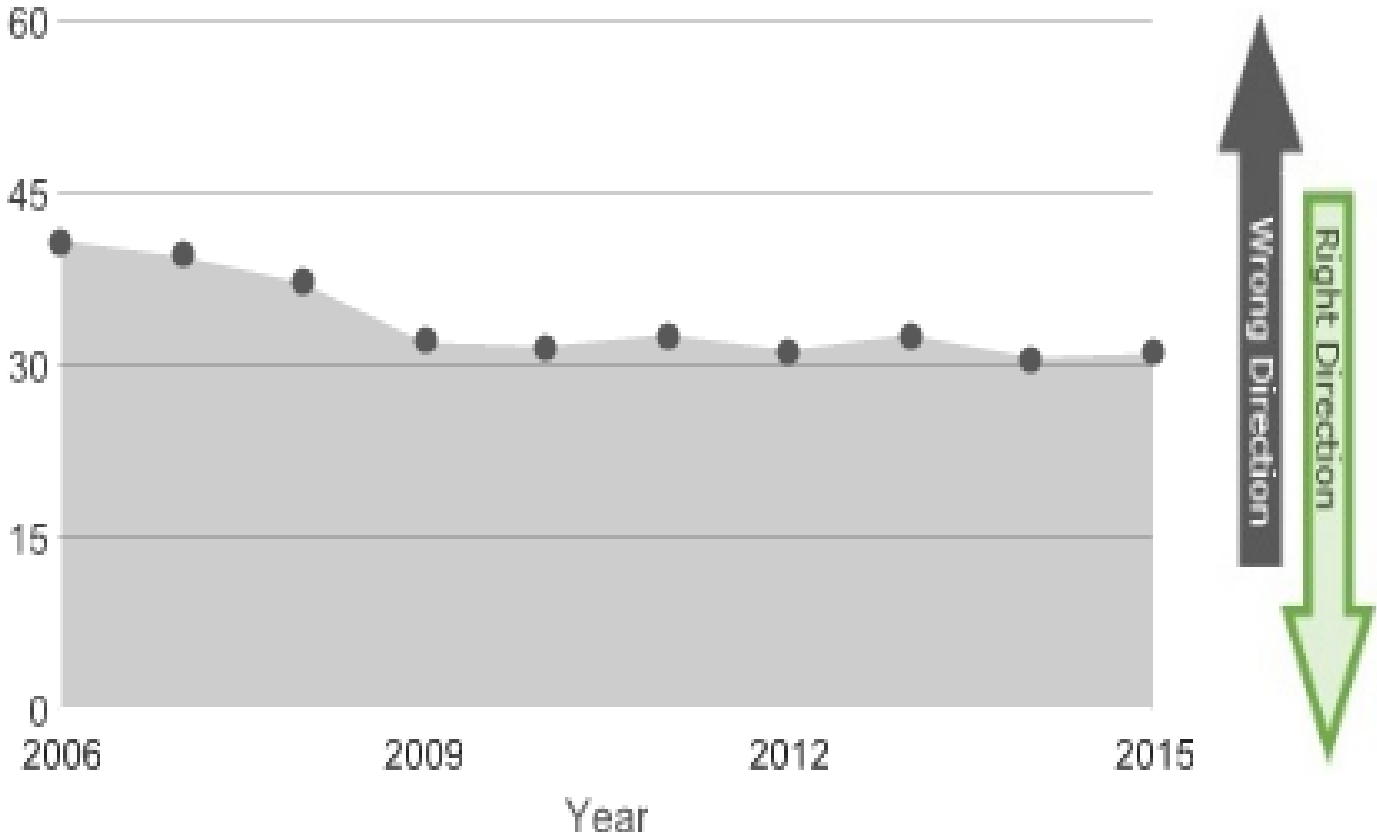
THEY were weighing a rat in one of the research laboratories of Johns Hopkins University at Baltimore. Weighing it with particular care, for a strange reason—to find out what the population of New York City would be in A.D. [redacted]

rapid. Finally, after it reaches maximum speed, it begins to slow down again, the slowing-down rate almost exactly reversing the acceleration. The division of cells becomes less frequent, until the pumpkin, reaching full size, stops growing.

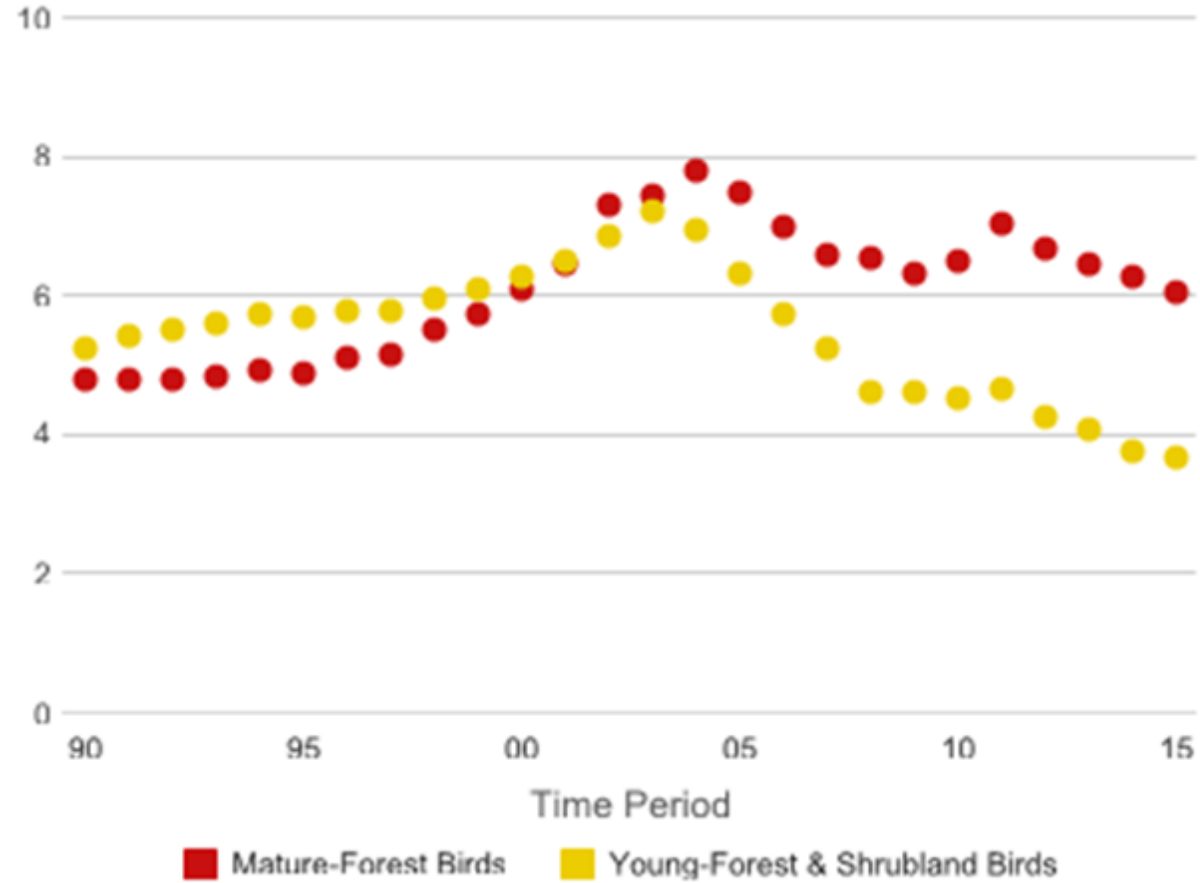
Investigation shifted to the tail

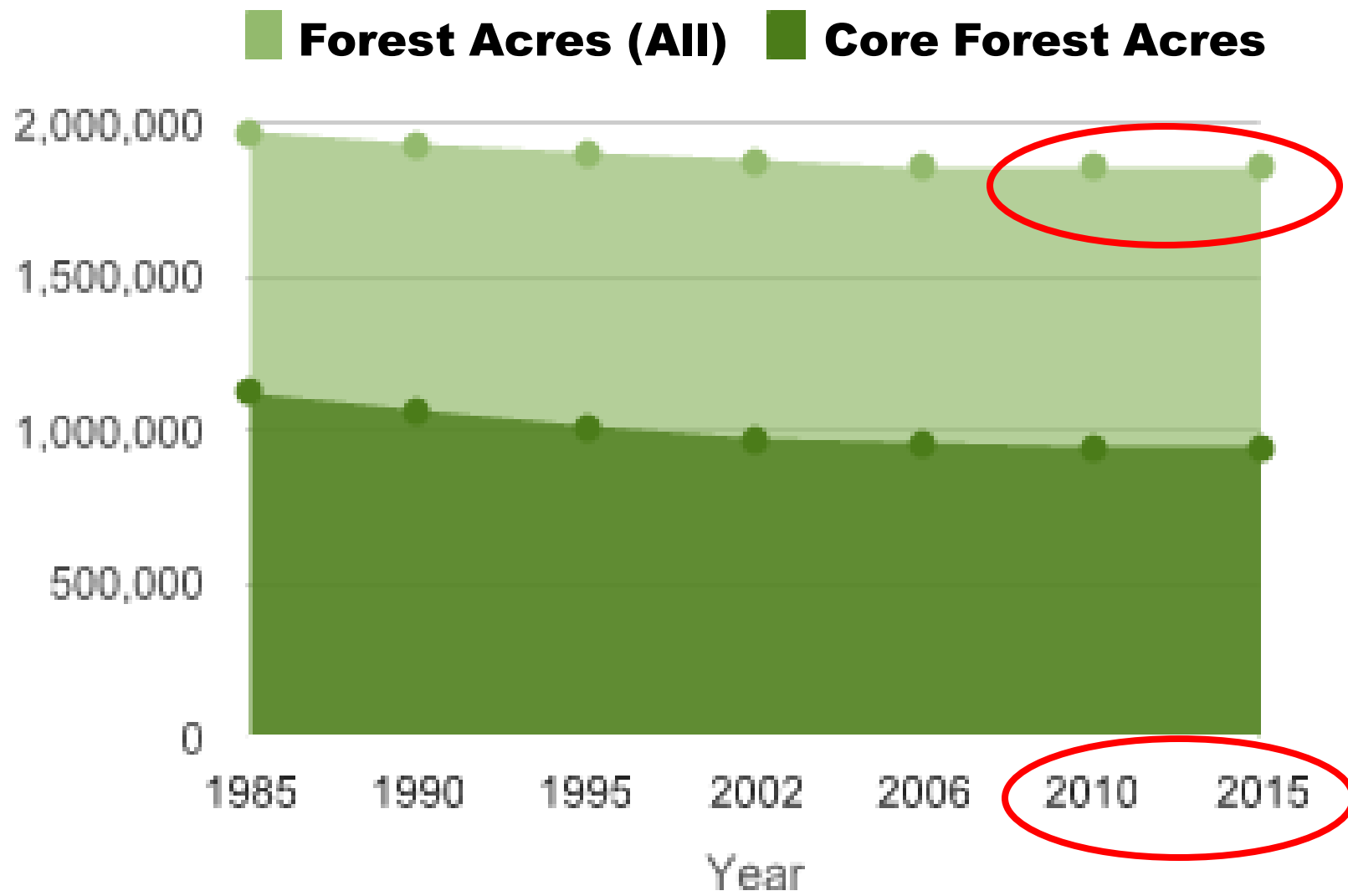
what—the whole rat or the whole pumpkin. But Dr. Pearl was endeavoring to trace a similarity between the growth of the rat, the pumpkin and the tadpole tail in an effort to establish that the seemingly haphazard increase in the number of people in the world in

CEQ Annual Air Pollution Index

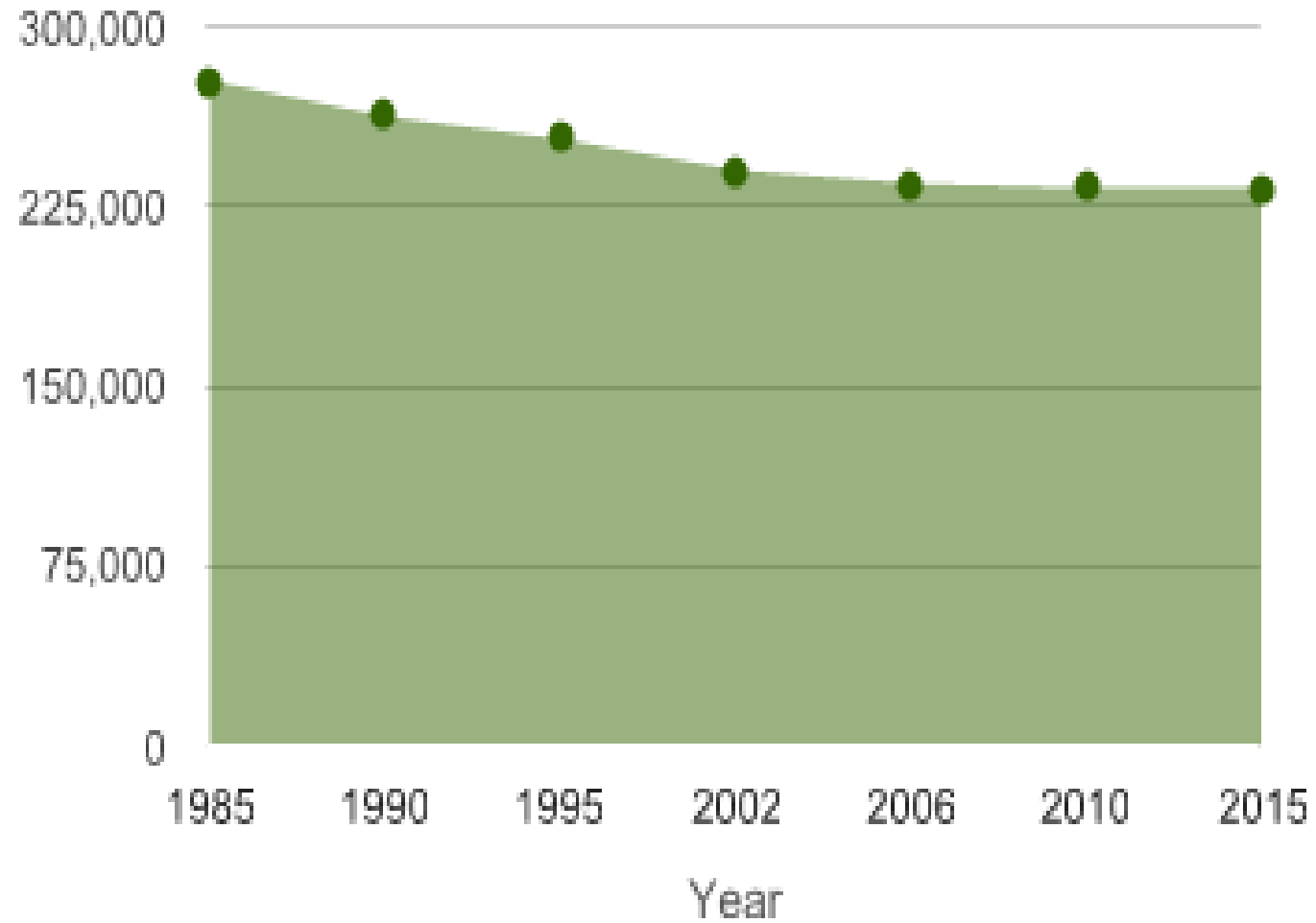


CEQ Forest Bird Population Index





Acres of Agricultural Fields in CT



Land development is no longer the number one threat to habitat and natural systems in Connecticut.

So what is #1?





Factors and Choices



Energy Sprawl Is the Largest Driver of Land Use Change in United States

Anne M. Trainor  , Robert I. McDonald, Joseph Fargione  

Published: September 8, 2016 • <http://dx.doi.org/10.1371/journal.pone.0162269>

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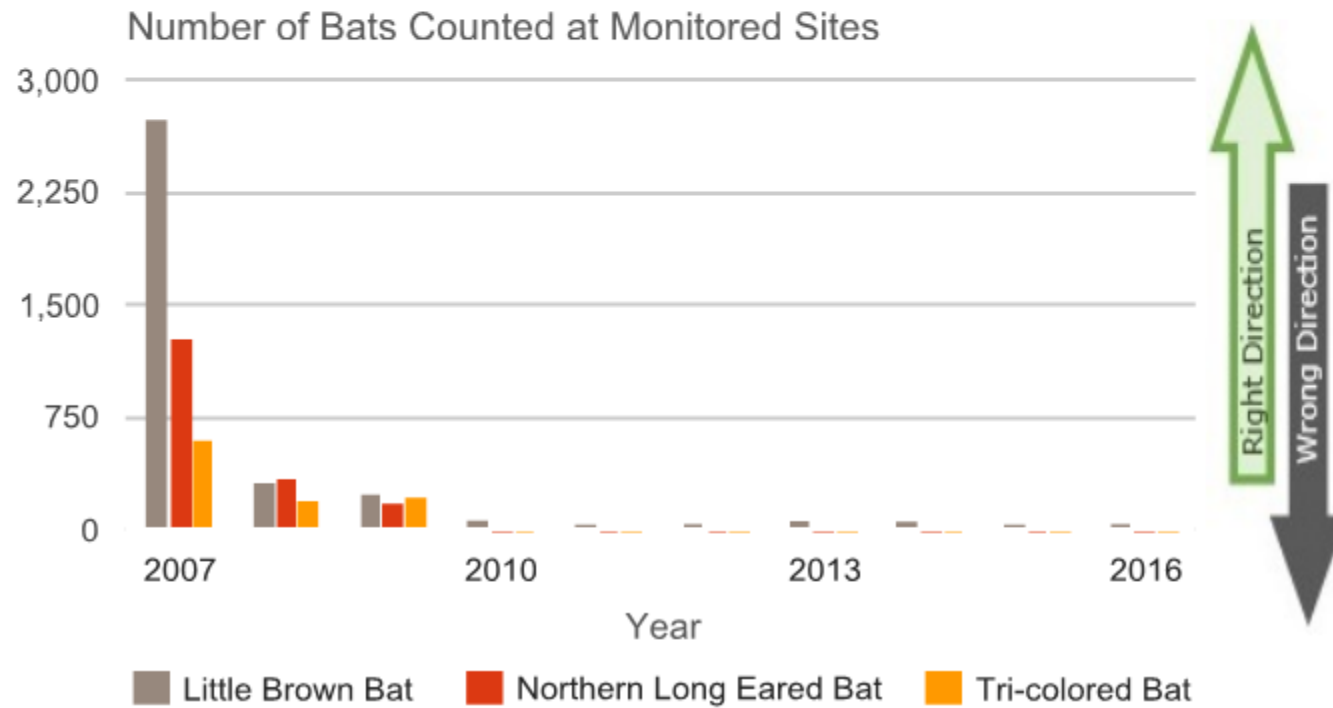
Energy production in the United States for domestic use and export is predicted to rise 27% by 2040. We quantify projected energy sprawl (new land required for energy production) in the United States through 2040. Over 200 000 km² of additional land area will be directly impacted

"In my view, it's the greatest threat to agriculture and the land available for farming today."

Steven Reviczky
Commissioner of Agriculture
August 1, 2016

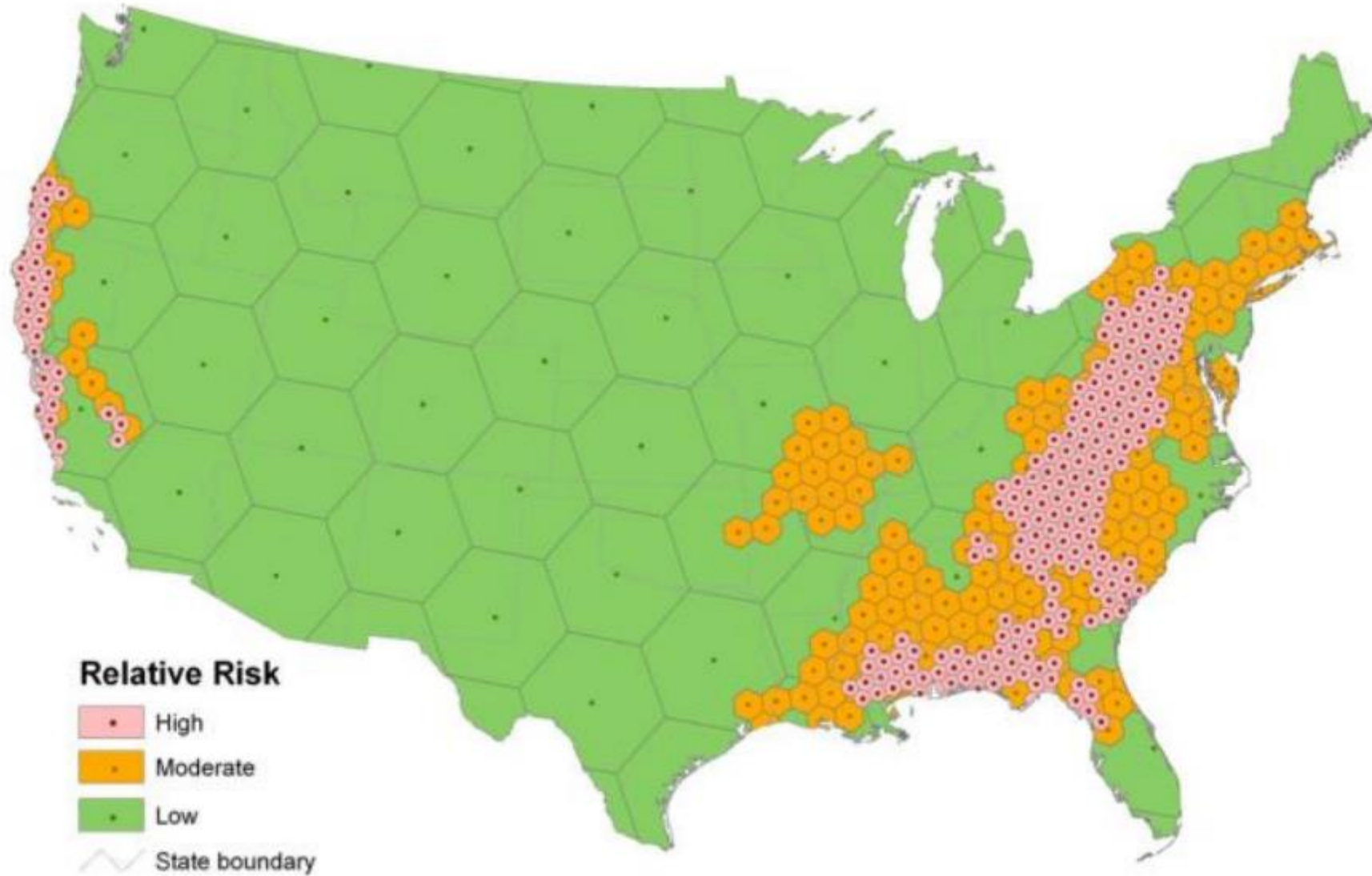
Bats

Cave-dwelling bat species have declined catastrophically.





Risk Map for Ramorum Blight (Sudden Oak Death)





This place is gorgeous!

Election 2016, when it comes to invasive species the silence is almost deafening

Posted on 9 June, 2016

by Andrew Cox

in biosecurity, Blog, Feral Herald, law & policy



“We’re more than halfway through **Australia**’s marathon federal election but yet to hear what the major parties will do to confront the environmental threats posed by invasive species. The silence is almost deafening.”

Trump surrogate says Donald would make the Great Lakes ‘great again’



Invasive Species and Disturbances: Current and Future Roles of Forest Service Research and Development

Mary Ellen Dix¹, Marilyn Buford², Jim Slavicek³,
Allen M. Solomon⁴, and Susan G. Conard⁵

“The success of an invasive species is in large part due to favorable conditions resulting from the complex interactions among natural and anthropogenic factors such as native and nonnative pests, fires, droughts, hurricanes, wind storms, ice storms, climate warming, management practices, human travel, and trade. Reducing the negative effects of invasive species and other disturbances on our natural resources is a major priority.”

“Meeting this goal will require an understanding of the complex interactions, development of tools to minimize new invasions, and effective management of systems that have already been changed by invasive species.

Resources needed to accomplish the foregoing outcomes include the following:

- 1. Modelers skilled in multiobjective stand dynamics and forest management modeling.**
- 2. Integrative specialists whose expertise incorporates ecological, social, and economic effects.**







Six factors

Our choices

- The climate will change.

?? (probably not our choice)

- Rate of land disturbance
vs.
Rate of land conservation

Conservation, Regulation and Incentives:
Our choice!

- More international trade and travel

- People and preferences will change

- Indifference

- Political will to spend to: regulate, educate
and respond to invasions

Will education and voluntary efforts be
enough?

(No evidence for that)

If not, then we must elevate this as a public
issue, and devote an appropriate level of
state resources, or ...



Some things do get better.

head of the
from the rear.
e may be con-
s of freight or
of the air.

for Radio

osits of mag-
agnet Cove,
Hot Springs.
waves with
made with
e large boul-
wed that sta-
at this point
ost feebly in
ons. Further
or having the

the belief that ninety percent of accidents
are due to the pilot and not the plane.

Why Candy Explodes

SOMETIMES candy explodes, and
now and then confectioners find
whole shelves of chocolate creams that
have burst open. The cause, according
to scientists of the U. S. Bureau of
Chemistry, is yeast in the sugar filling.
Ordinary yeast, like that used for making
bread, will not grow in sugar; but there
is a special yeast that finds the sweet
creamy mixture ideal. Its fermentation
produces gas that bursts the candy.



Dshines, the
bird recently sta-
biegel, German b-
spectacle when w
liant dye of its
pale pink, the le
ammonia in rain
eats probably fur
of the natural
Dr. Krumbiegel.
dye is a compound



What do You have to say when you are with interesting people?

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your end in a
general conversa-
tion—or are you
tongue-tied when
with people?*

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Everybody envies a good talker. You



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