

Fields and shrublands in the NH Landscape

About 84% of NH is covered in forest

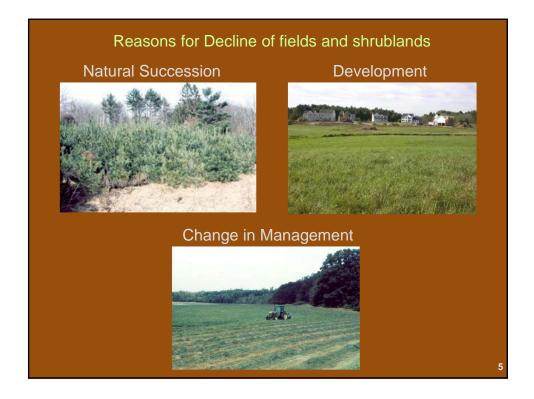




•The "typical" NH forest is comprised of trees averaging 70 -100 years old...

NH lacks *young forests, fields, old fields:* this has special consequences to wildlife







Fields and shrublands in the NH Landscape

60 wildlife species require fields, old fields, or young forest as their primary habitat type



New England cottontail



American woodcock





brown thrasher



savannah sparrow



eastern towhee

Populations of many of these species are declining as farmland reverts to forest and as forests become more mature













A Checklist of Factors that determine what wildlife will use "open habitats":

- 1) How big is the habitat "patch"?
- 2) How tall & dense are the plants within the patch?
- 3) What types of plants are in the patch?
- 4) Where is the patch located on the property?
- 5) What's the landscape surrounding the property?

opening is more than 5 acres or part of a larger complex of open habitats, wetlands, forests



opening is less than a few acres & surrounded by forest

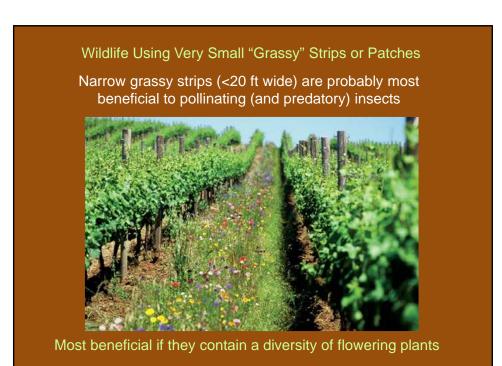


Managers can control most of these factors that determine what wildlife species will be attracted to open habitats!

- 1) Size of the habitat "patch"
- 2) Height & density of vegetation in the patch
- 3) Plant species in the patch
- 4) Where the patch occurs on the property
- 5) Landscape surrounding the property



Let's look at specific open habitats and see what wildlife species can be expected to use those areas



Wildlife Using Very Small "Grassy" Strips or Patches

Flower strips within and along field edges can improve pollination of crops and increase native pollinators



honey bees

butterflies

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Wildlife Using Very Small "Grassy" Strips or Patches





•some birds can be attracted to a <u>single</u> <u>row</u> of flowers if those flowers are allowed to go to seed



carpenter bee

•some native pollinators will lay eggs or overwinter in stems of flowers that you leave uncut

Small "Grassy" Strips or Patches are Dangerous! Predators focus their hunting efforts in *small & narrow* cover patches



eastern coyote



house cats



red fox

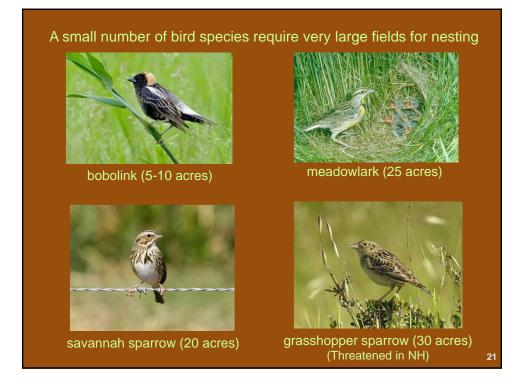


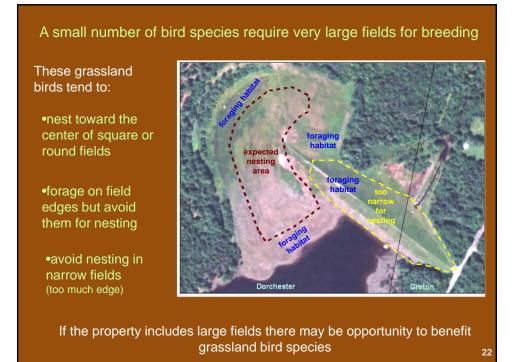
red-tailed hawk

•most birds & small mammals tend to avoid these areas...

The larger areas of cover will attract & support more wildlife

(So, how "big" is big enough?)...





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Wildlife using openings with grasses & forbs less than 12 inches tall



pastures & mowed hayfields



(e.g., legumes, oats, buckwheat)



openings maintained by frequent mowing (e.g., field edges, woods roads)

Wildlife are specifically attracted to:•highly palatable plant species or varieties•young, nutritious, very digestible plants

•short or sparse vegetation



Wildlife using openings with grasses & forbs less than 12 inches tall



toms, hens, & chicks forage in openings with short grasses & forbs throughout the year Male turkeys prefer to display in short grass openings in the spring...







Wildlife using <u>fields</u> with grasses & forbs less than 12 inches tall •Canada geese graze in short-grass openings from spring through winter...



•Snow buntings are attracted to windblown, short-grass fields in late fall through winter where they feed on exposed grass & weed seeds

and are particularly attracted to fields containing corn or grain stubble



Wildlife using fields with grasses & forbs less than 12 inches tall



mallards

•Wilson's snipe will also use wet depressions in these fields during migration ponded water they can serve as important resting sites for migrating ducks and geese

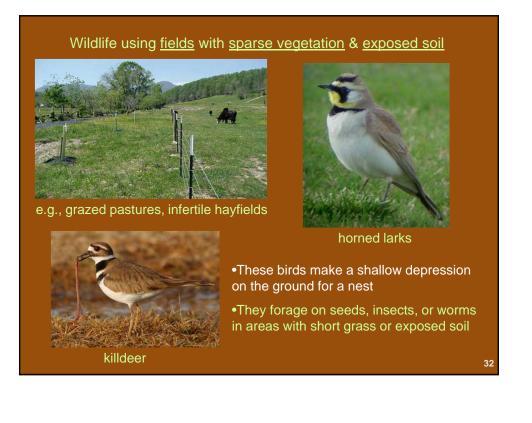
•If these fields contain any

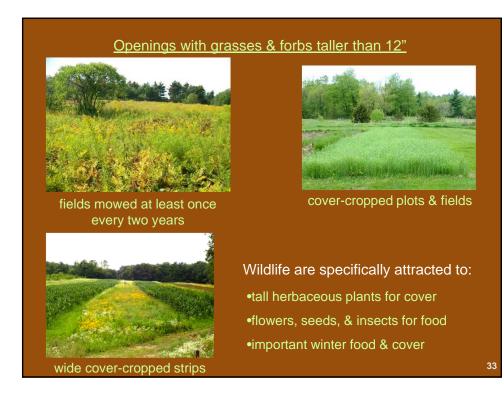


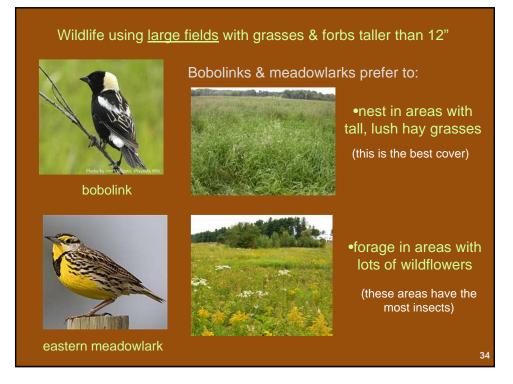


Wildlife using openings with sparse vegetation & exposed soil

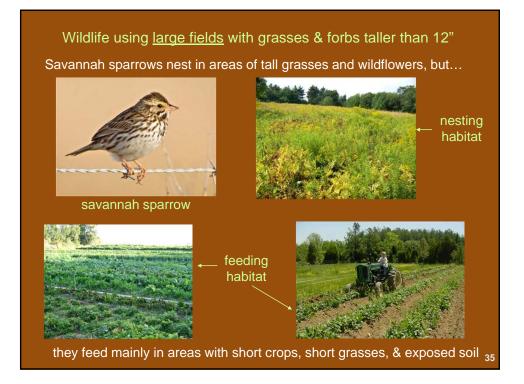








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Wildlife using openings with grasses & forbs taller than 12"



•white-tailed deer fawns regularly hide in the cover of tall grasses and wildflowers

•turkeys often nest on field edges within tall cover of grasses, forbs, and shrubs





•Blanding's turtles will use dense, tall grasses & wildflowers as cover from summer heat

(Blanding's turtles are Endangered in NH)

Wildlife using openings with grasses & forbs taller than 12"

These snakes use a variety of farm habitats including tall grass & forb cover



smooth green snake (species of special concern)



northern black racer (Threatened in NH)

Populations of these snakes have been declining in New England due mainly to loss of required habitat

Wildlife using tall grasses & forbs in wet areas

If a grassy area is low and wet, it may attract some different species than similar sites that are drier



These wet areas typically occur as:

•drainage ditches or swales that extend into drier areas or along access roads •depressions within or along the edges of crop fields, hayfields, and pastures

Wildlife using tall grasses & forbs in wet areas



pickerel frog

Box turtles are uncommon, but will use moist field edges to escape the heat of summer Pickerel frogs very common in most grassy areas where the ground is moist or saturated



eastern box turtle (species of special concern)





Wildlife using wet fields with ponded water

Many wildlife species use grassy areas that have ponded water:







Jefferson's & bluespotted salamanders



red winged blackbird



spotted turtle (Threatened in NH) 41





Shrub edges provide numerous benefits to wildlife

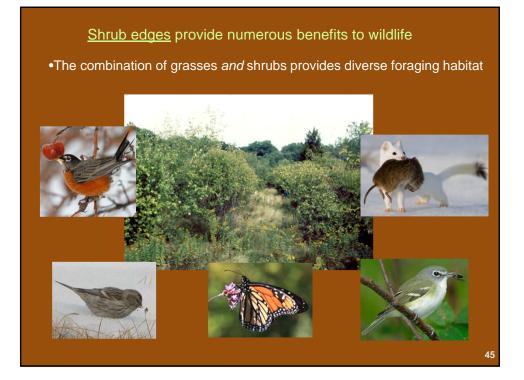
•Providing a gradual transition from fields to forest provides an area of unique habitat used by both field & forest wildlife species



opportunities to wildlife

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wildlife species on a property



<u>Shrub edges</u> provide numerous benefits to wildlife •Many native shrubs produce fruits eaten by birds & mammals



northern arrowwood



nannyberry



silky dogwood



high bush blueberry



common elderberry



sumacs

You should favor native shrubs over non-native, invasive shrubs whenever possible!

Wildlife that eat fruits produced by shrubs on field-forest edges purple finch rose-breasted Baltimore oriole eastern grosbeak chipmunk

white-footed



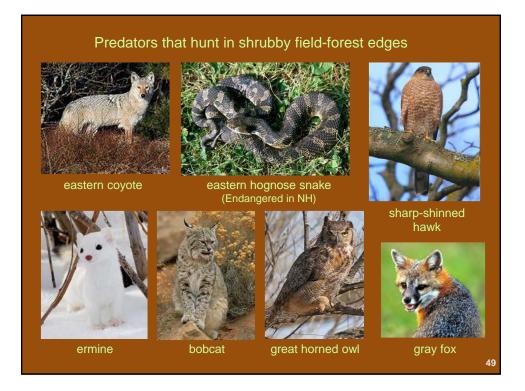
sapsucker

black-capped chickadee

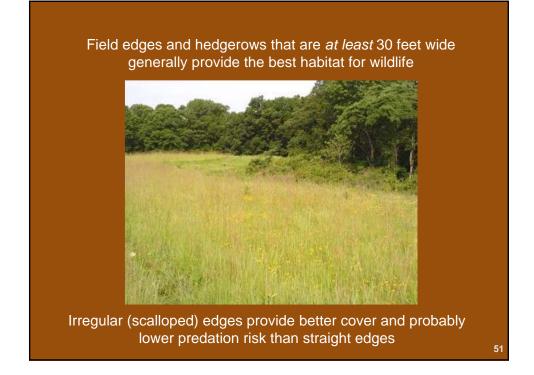


cedar waxwing 47



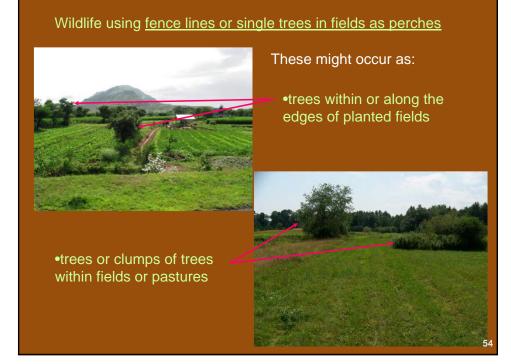












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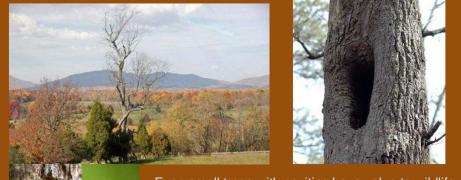
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Wildlife that use tree cavities in or near fields/shrublands

Live & dead standing trees with cavities provide important habitat for many wildlife species



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Even small trees with cavities have value to wildlife
Larger trees accommodate larger bodied animals
Trees over 24" in diameter support the most species

Wildlife that use tree cavities in or near fields/shrublands







eastern screech



barred owl



sav

saw whet owl



eastern bluebird





pileated woodpecker



nuthatch







Mowing timing & frequency determines wildlife use of openings



Very frequent mowing (once/month) •primarily clover, chicory, alfalfa food plots •keeps forages vigorous, nutritious, attractive

- •discourages grasses & "weeds" (like your lawn)
- •great bugging for turkeys, grouse

Frequent mowing (1-3 times/year) •classic "hayfield" •cover & forage (deer, turkey, bears) •bird nesting & fawning cover

Ideally mow after August 1st



Mowing timing & frequency determines wildlife use of fields/food plots



Infrequent mowing (once/2-3 years) •greatest diversity of non-woody plants

•great cover for fawns, turkeys

•great foraging for turkey broods (and grouse along field edges)

•blueberries (dry/wet sites), cranberries (wet sites) provide additional forage

Lots of pollinating insects, small mammals, snakes

Great low-maintenance way to manage small fields to benefit many wildlife species!

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•Often best to mow larger fields in blocks to always maintain some cover

•Fields 5 acres or larger may support grassland birds and warrant regular maintenance to maintain grassy conditions

> Often more beneficial to let smaller fields revert to combination of grasses, forbs & shrubs



Mowing timing & frequency determines wildlife use of fields/food plots

Very Infrequent mowing (once/4-10 years)



>3 yrs fields get shrubby
fruiting shrubs & small trees
diversity of cover & food:

bears
deer & moose
turkeys & grouse

woodcock

Very ephemeral (grows up quickly), very uncommon habitat in NH!

Many wildlife species that require this habitat are in decline

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Brontosaurus or similar forestry mower used to mow large shrubs and trees less than 4" in diameter



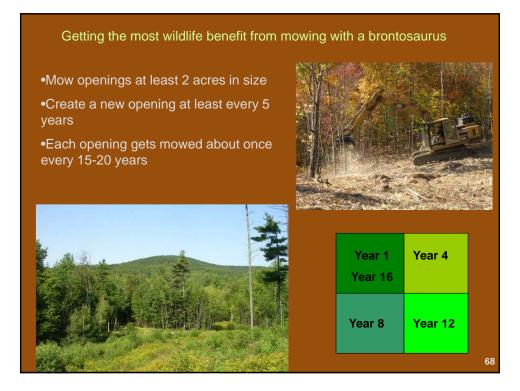
Area is mowed and allowed to regrow naturally... mowed every 10-15 years



Autumn mowing



Plant growth following summer



Financial Help for Landowners

- Federal programs
 - EQIP (Environmental Quality Incentives Program)
 - WHIP (Wildlife Habitat Incentives Program)
 - Partners Program (US Fish and Wildlife Service)
- State program
 - New Hampshire Fish and Game Small Grants Program







Financial Help for Landowners

- EQIP and WHIP
 - Private Landowners
 - Individuals
 - Organizations (NGOs)
- Partners Program
 - Private Landowners
 - Town Lands
- NH Fish & Game Small Grants
 - Private Landowners
 - Individuals
 - Organizations
 - Local government
 - Minimum of 25 acres
 - Land must be unposted (must be open to nonmotorized public use, including hunting)

