3RD ANNUAL CREATING & IMPROVING POLLINATOR HABITAT CONFERENCE

Presented By: Dr. Kim Stoner, CAES



SITE ANALYSIS & PLANNING POLLINATOR HABITAT THAT WILL THRIVE ON THE SITE -OR-

Bees – Give 'Em What They Want -OR-

Bugs & Thugs: How To Pick A Fair Fight



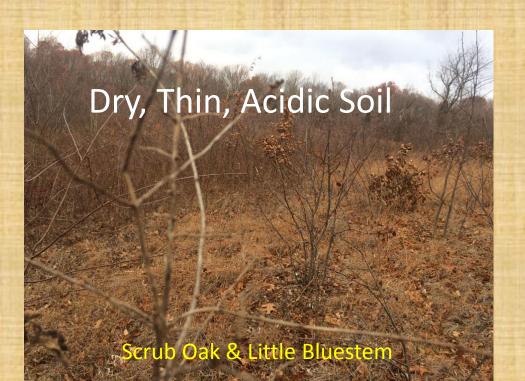
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ASSESSING THE SITE

What Is The Land Telling Us?



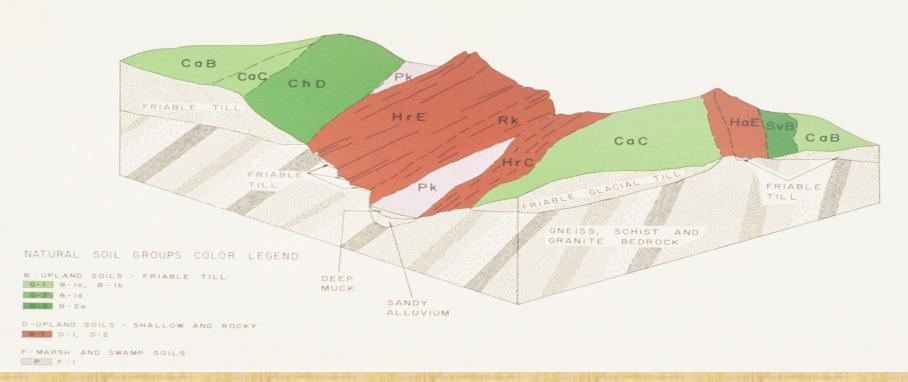




KNOW YOUR SOIL TYPES

Soil Types Can Vary Widely On The Same Property

LANDSCAPE SEGMENT WITH NATURAL SOIL GROUPS



WHAT GROWS WHERE & WHY

Plants have developed over millennia to prefer certain niches Soil pH, organic matter, texture, drainage, microbes, exposure Plant them where they want to be for long-term success

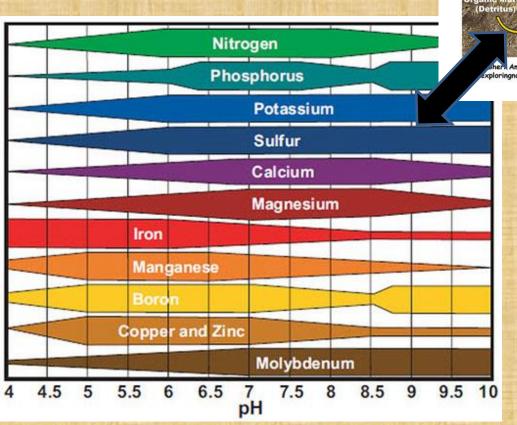


Wild Bergamot (Monarda fistulosa)
Full Sun
Alkaline Soil

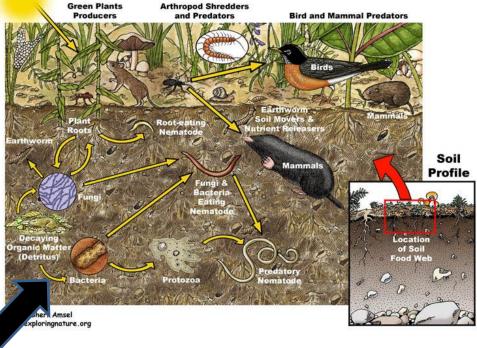


Black Cohosh (Actaea racemosa)
Woodland Edge
Acidic Soil

CHEMICAL & BIOLOGICAL PROCESSES



Soil Food Web



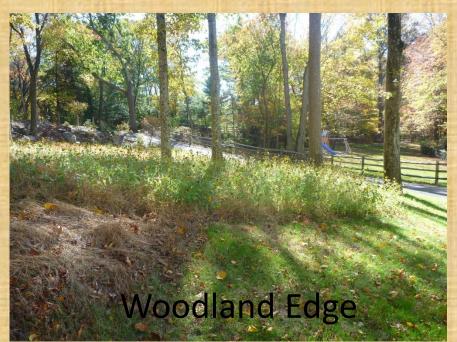
WHERE THE TWO
OVERLAP IS THE
SWEET SPOT



EXPOSURE









TOPOGRAPHY

Drier on Top, Wetter On Bottom Windier On Top, Calmer On The Bottom Poorer Soil On Top, Richer Soil On The Bottom





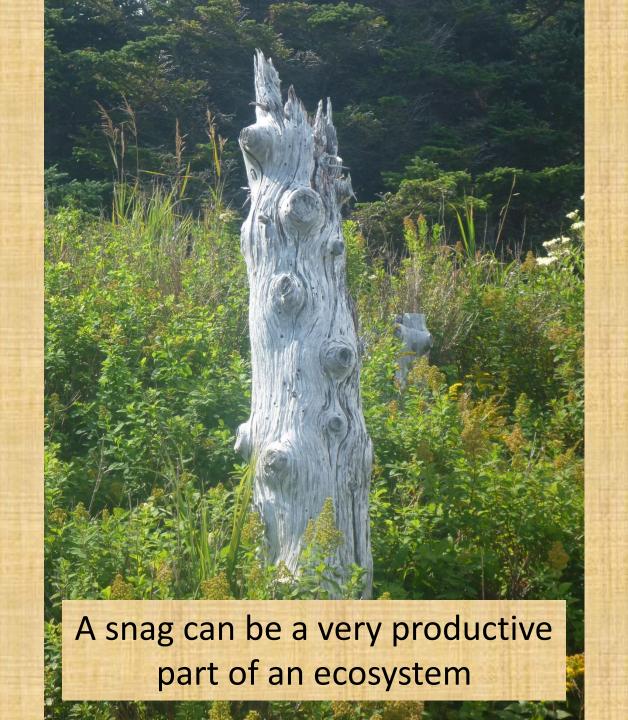
Preserve The Habitat
You Already Have

Clumping Grasses
Bare Soil Patches
Pollen & Nectar Sources
Undisturbed Woodland Edge











REFUGIA

Leave It And They Will Come

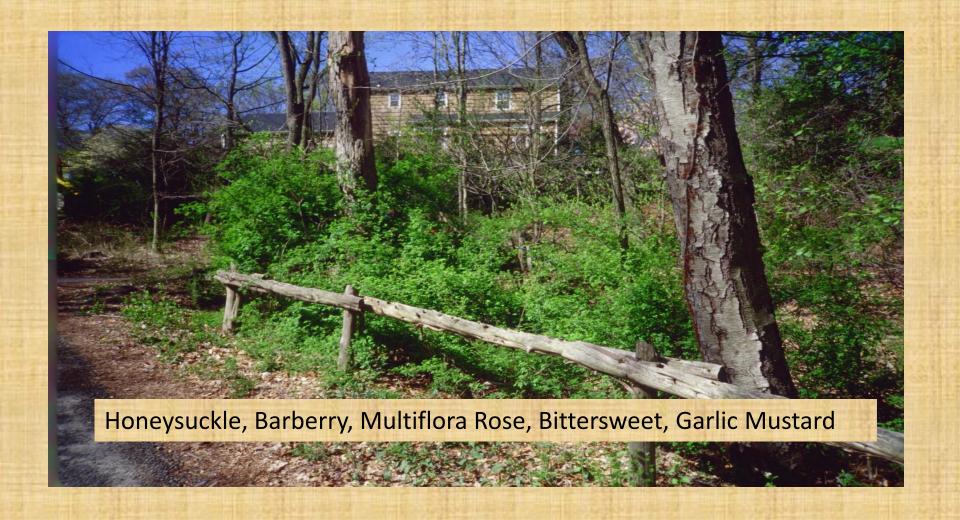




INVASIVE PLANTS Removing Undesirable Vegetation



HUMAN DISTURBANCE #1 REASON FOR INVASIVE PLANT INCURSION





LEAVE THE GOOD STUFF

INITIATE AN INVASIVE PLANT MANAGEMENT PLAN

Constant Vigilance
Remove Weeds When Young
Minimize Soil Disturbance
Fill All Niches Or Nature Will





REMOVAL METHODS

- 1 "Editing" with weed mower
- 2 "Glove of Death"
- 3 Propane Flame Weeder







DRIP TUBE APPLICATION

Some plants move nutrients down to the roots in the fall Apply organic herbicide to exploit this vulnerability Ag Vinegar 100% Concentration, Use A Dye



SITE PREPARATION

The #1 Reason For Failure Is Inadequate Site Preparation

XERCES Society Guidelines

Organic Site Preparation for Wildflower Establishment: http://xerces.org/guidelines-organic-site-preparation/

Establishing Pollinator Meadows from Seed https://xerces.org/establishing-pollinator-meadows-from-seed/

SOME PLANT REMOVAL METHODS











AVOID EXCESS SITE DISTURBANCE



REPEATED ORGANIC HERBICIDE APPLICATIONS







FARMSCAPING:

Plant What Your Pollinators Want & What You Need



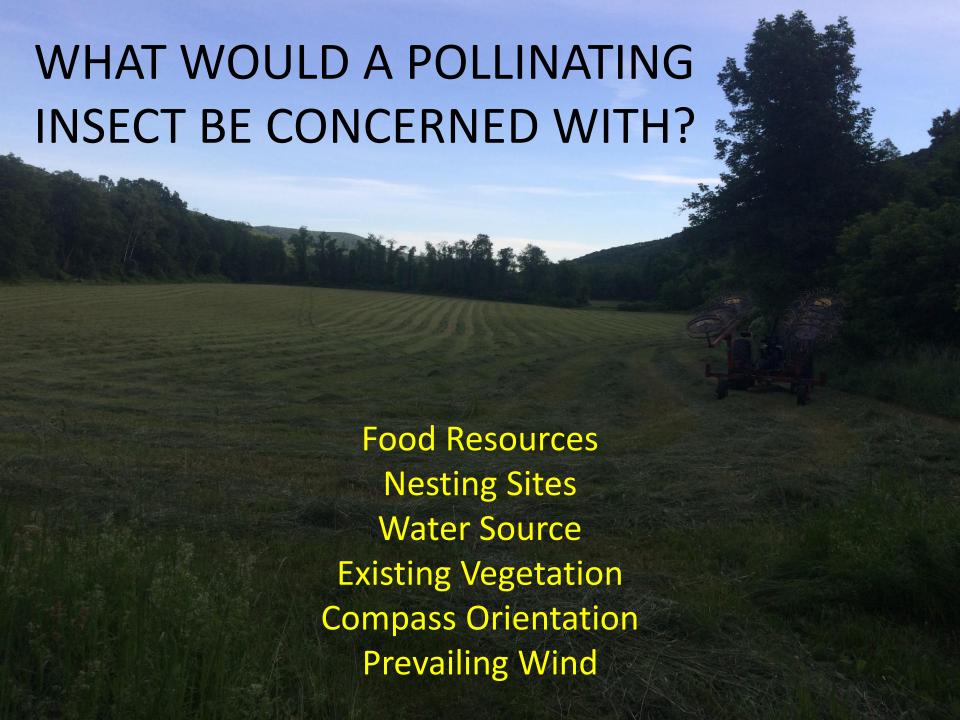
Clump Of Anise Hyssop (Agastache foeniculum)

FIRST, DECIDE WHAT CROPS YOU WANT TO GROW

So You Know Which Pollinators To Attract



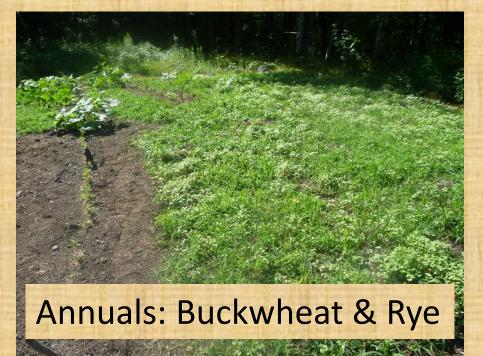


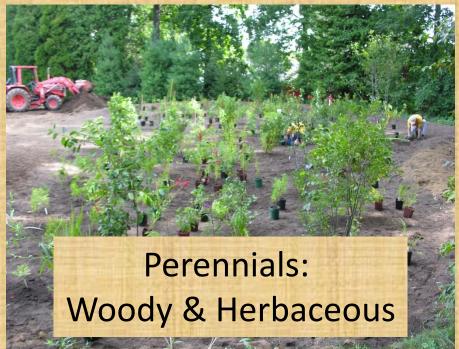






Violets, Dandelions & Clover

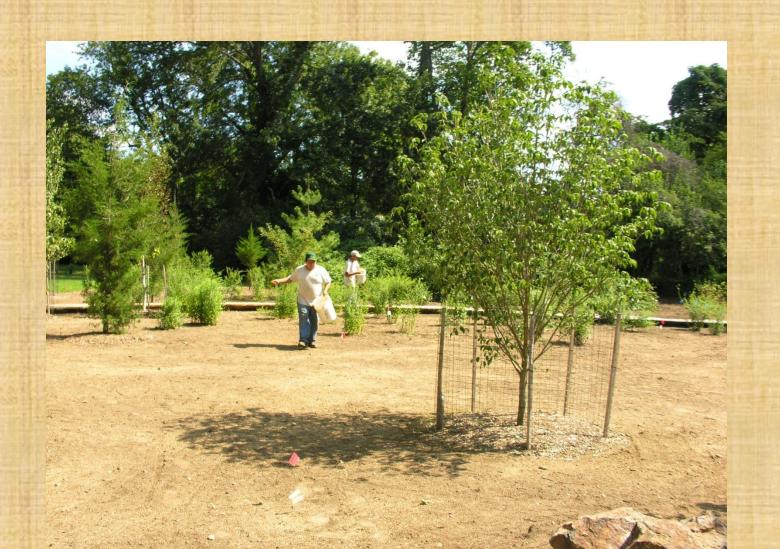




DIRECT PLANTING



SEEDING SMALLER OR MORE DIVERSE SITES



STARTING FROM SEED





1 Moisten Sawdust; 2 Mix In Seeds; 3 Sow; 4 Rake In







SEEDING LARGER SITES

Truax Meadow Seeder



FLOWERS THROUGHOUT THE SEASON





GLOBAL WEIRDING ...



Vernal Witch Hazel (Hamamelis vernalis)



... WINTER POLLINATORS?

EARLY SPRING FLOWERS





Common Strawberry (Fragaria virginiana)



MID-SEASON FLOWERS

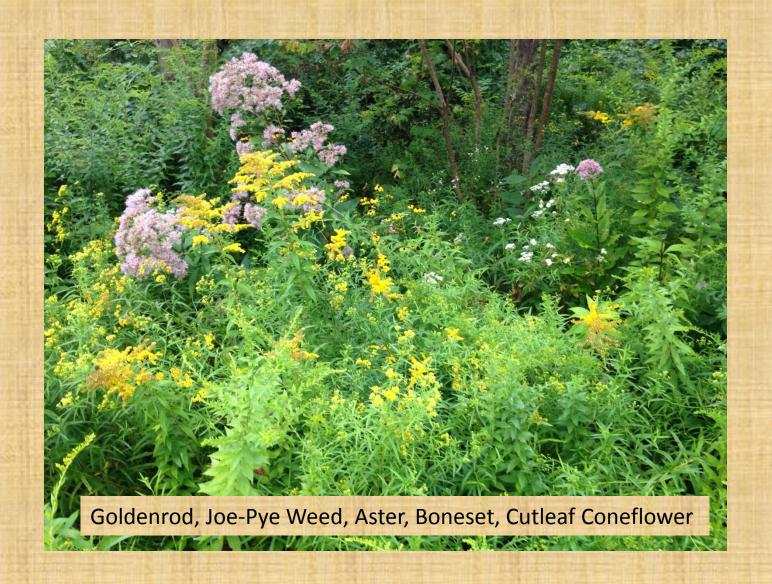




Great Blue Lobelia (Lobelia syphilitica)



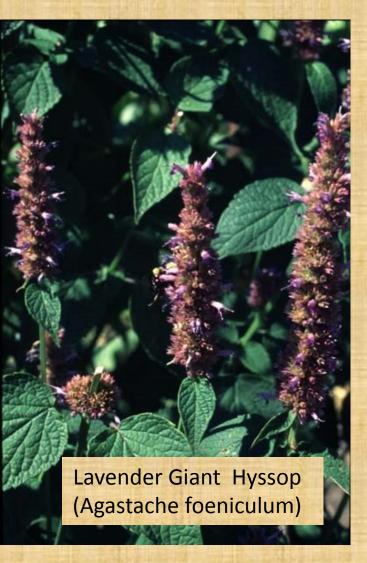
LATE SEASON FLOWERS





Woodland Edge - Fall

PLANTS FOR HIGH pH (Alkaline) SOILS



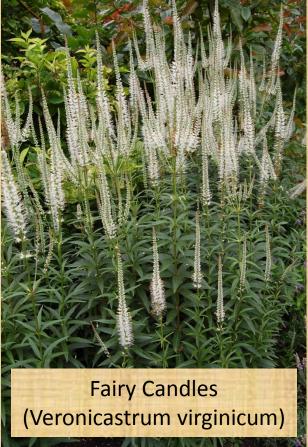


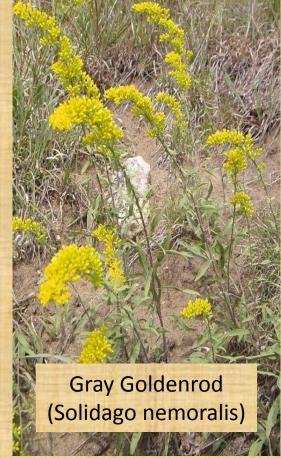


PLANTS FOR BASIC SOILS

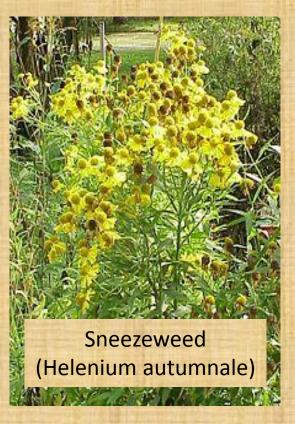


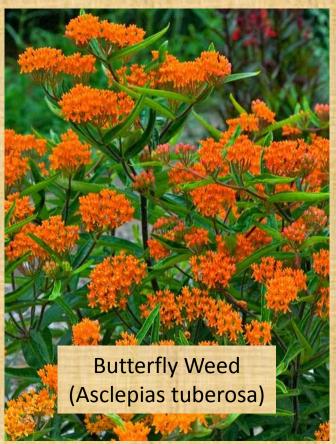
Beardtongue (Penstemon digitalis)





PLANTS FOR LOW Ph (Acid) SOILS







CREATE NEW HABITAT













Let Some Onions Go To Seed



GO NATIVE!





