



New Jersey Audubon Gardening For Wildlife



Designing Your Garden Space Part 1

Developed by Danielle Bara, Stewardship Department
Adapted and Presented by Gretchen Whitman, Education Department

Sanctuary Director – Nature Center of Cape May



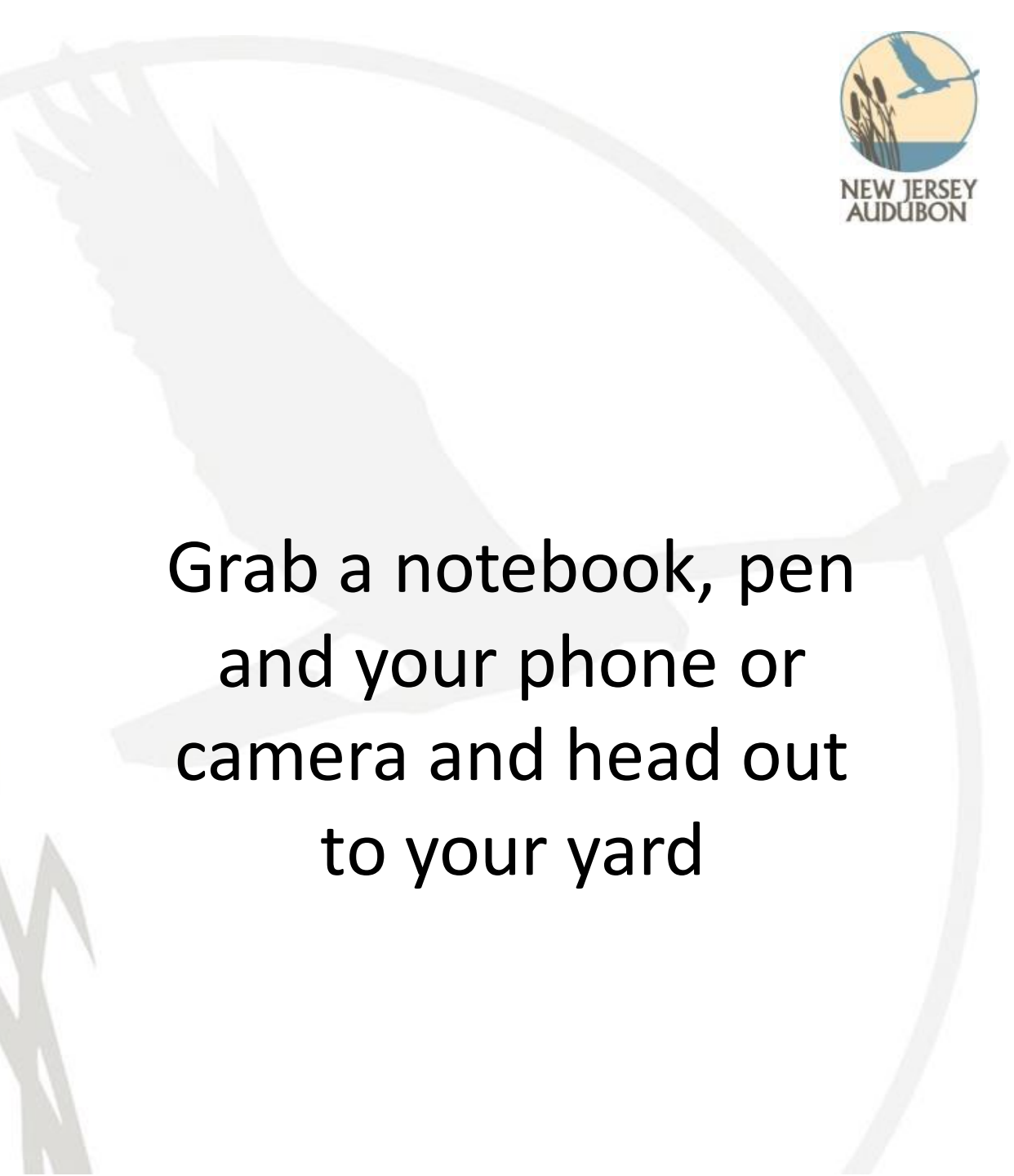
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- BS in Biology, Rutgers University
- Environmental Education – 26 yrs
- Wildlife Gardening
- Gardener since a teen
- Master Gardener
- Landscape Designer – Amateur

In This Webinar

- Understanding Your Space
- Plant Selection Strategy
- Type of plants: Seeds, plugs and potted plants
- Where to Source Native Plants
- Preparation for Design Part 2

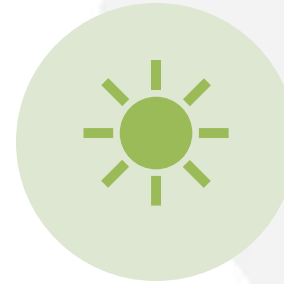
Understanding Your Space

- Current site conditions
- Needed site preparation
- Essential components for wildlife
- Plant selection
- Maintenance
- Your Goals (more on that later)



Grab a notebook, pen
and your phone or
camera and head out
to your yard

Existing Site Conditions



SUNLIGHT



SOIL TYPE



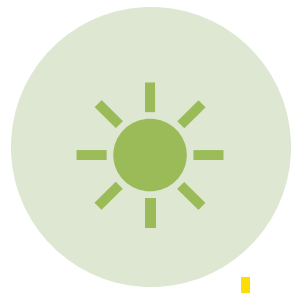
MOISTURE



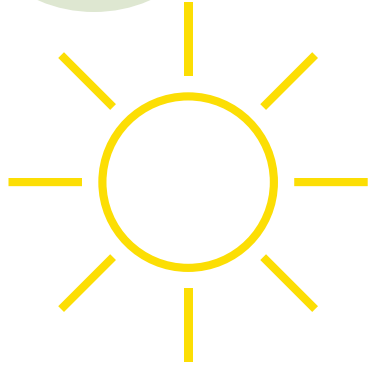
EXPOSURE



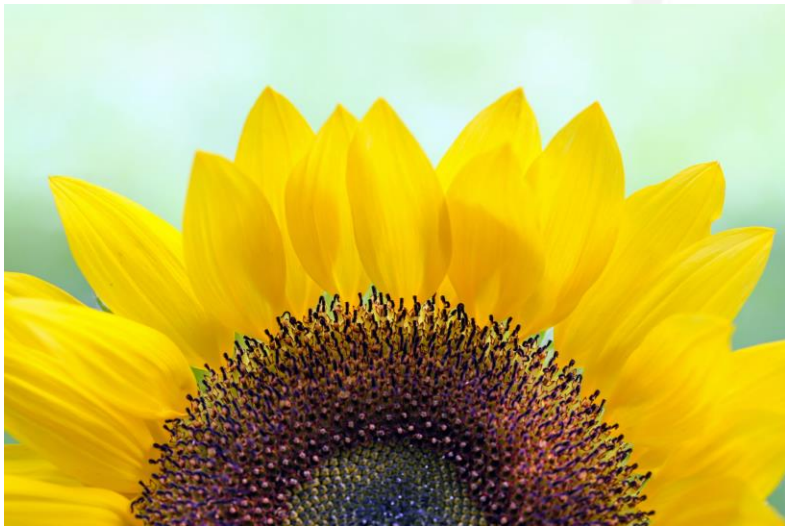
**NATURAL HABITAT OR
HUMAN-ALTERED**



Sunlight Requirements



Full sun



Part Sun



Full shade

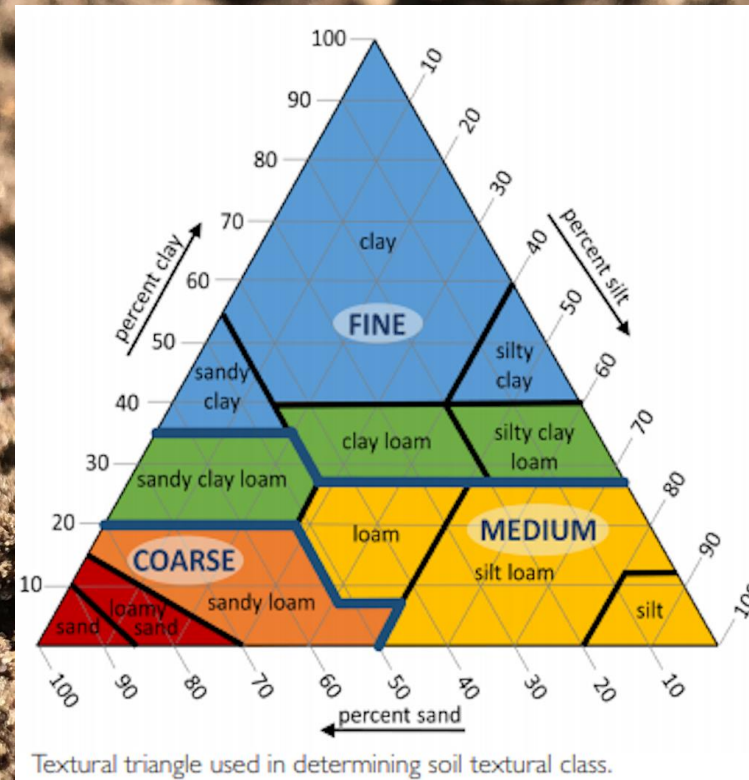




Soil Type

Texture

- Clay
- Sand
- Silt



Characteristics

- pH (ideally 6-7)
- Nutrient levels
- Organic matter

Disturbance

- Fill material
- Debris



Soil Moisture

Wetland Indicator Status

Well-drained
or

Poorly drained



<i>Indicator Code</i>	<i>Indicator Status</i>	<i>Meaning</i>
OBL	Obligate Wetland	Almost always occur in wetlands
FACW	Facultative Wetland	Usually occur in wetlands, but may occur in non-wetlands
FAC	Facultative	Occur in wetlands and non-wetlands
FACU	Facultative Upland	Usually occur in non-wetlands, but may occur in wetlands
UPL	Obligate Upland	Almost never occur in wetlands



EXPOSURE

IS YOUR SITE EXPOSED
OR IS IT SHELTERED FROM....?

- WIND
- PRIVACY FROM NEIGHBORS
- TRAFFIC
- NOISE

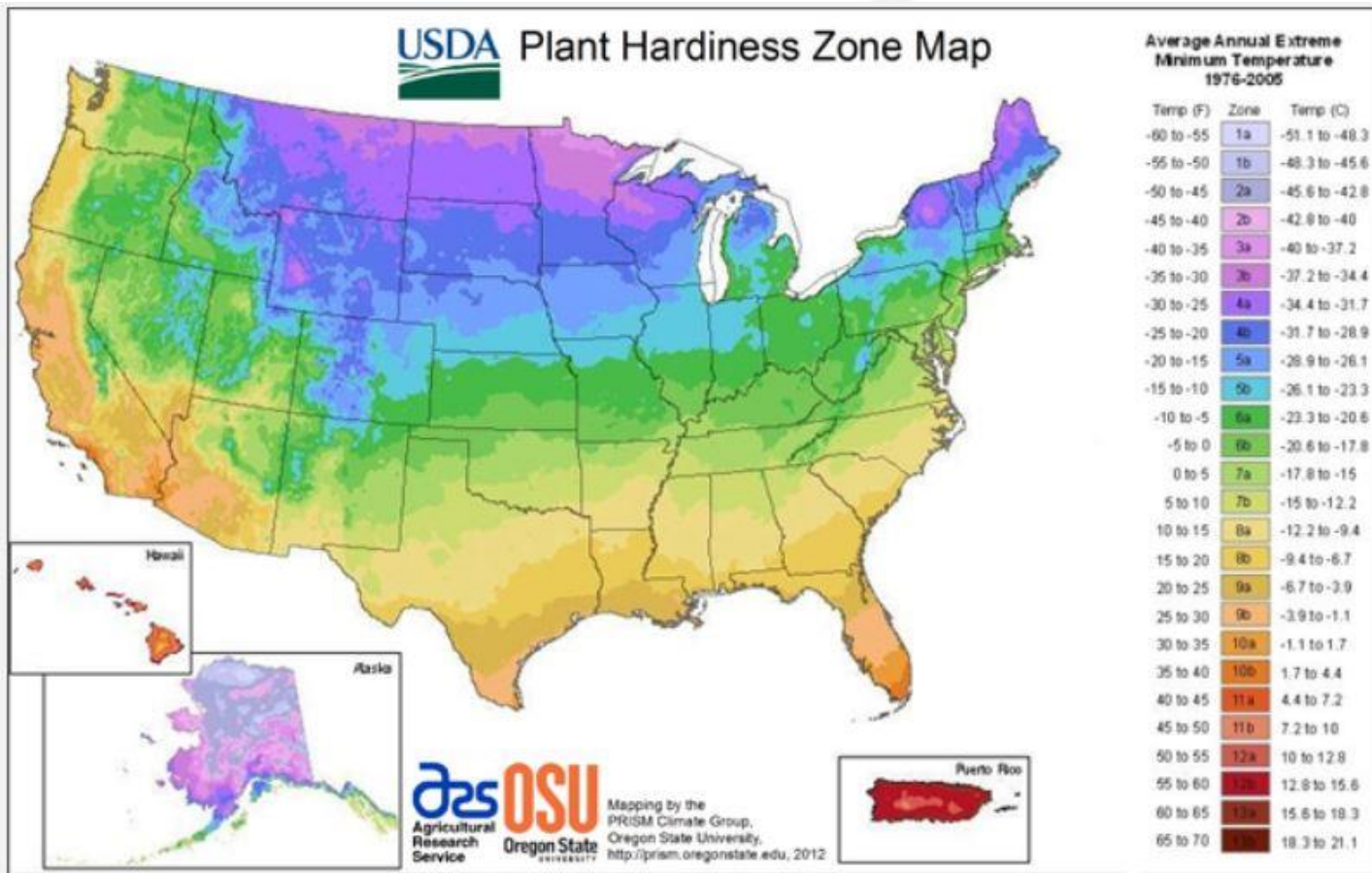




Natural Habitat or Human-altered

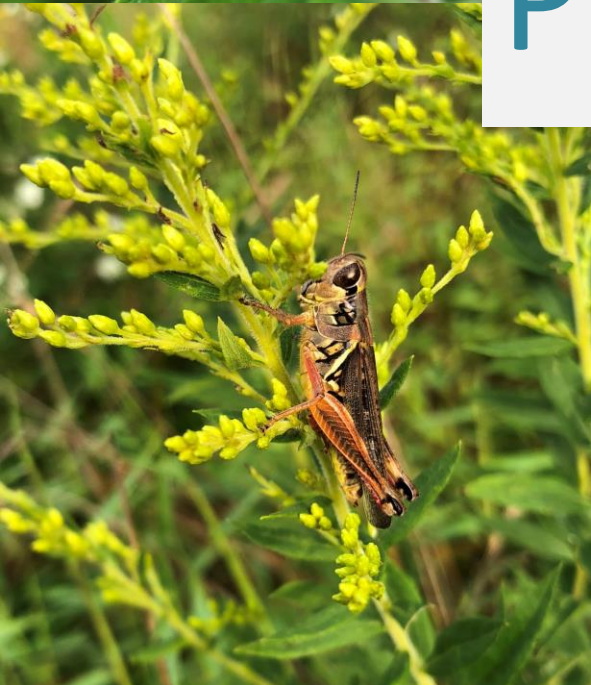


Hardiness Zone





Plant Selection Strategy



Plant Type

Herbaceous

- grasses, forbs, ferns
- annual, biennial, perennial



Vines

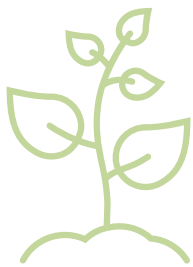
Woody Plants

- shrubs, trees



Space

- Height
- Spread



Native Perennials and Shrubs that Support Bees and Beneficial Insects

Common Name	Scientific Name	Natural enemies	Bees	April	May	June	July	August	Sept	Oct	Nov
Wild Strawberry	<i>Fragaria virginiana</i>	**	*								
American Plum	<i>Prunus americanus</i>	**	**								
Penstemons	<i>Penstemon ssp</i>	**	**								
Golden Alexanders	<i>Zizia aurea</i>	***	***								
Dogwoods (native)	<i>Cornus spp</i>	**	**								
Lanceleaf Coreopsis	<i>Coreopsis lanceolata</i>	***	*								
Elderberry	<i>Sambucus nigra-canadensis</i>	***	**								
Blue Baptisia	<i>Baptisia australis</i>	**	**								
Swamp Milkweed	<i>Aesclepias incarnata</i>	**	**								
Culver's Root	<i>Veronicastrum virginicum</i>	**	***								
Anise Hyssop	<i>Agastache foeniculum</i>	***	***								
Beebalm	<i>Monarda fistulosa</i>	***	**								
Butterfly Milkweed	<i>Asclepias tuberosa</i>	***	**								
Spotted Beebalm	<i>Monarda punctata</i>	***	**								
Narrowleaf Mountain Mint	<i>Pycnanthemum tenuifolium</i>	***	***								
Black-eyed Susan	<i>Rudbeckia fulgida</i>	**	***								
Ox-eye Sunflower	<i>Helianthus helianthoides</i>	**	**								
Buttonbush	<i>Cephalanthus occidentalis</i>	**	**								
Ironweed	<i>Vernonia gigantea</i>	**	**								
Joe Pyeweed	<i>Eutrochium spp</i>	***	***								
Cup Plant	<i>Silphium perfoliatum</i>	***	***								
Boneset	<i>Eupatorium perfoliatum</i>	***	**								
Blue Lobelia	<i>Lobelia silphilitica</i>	***	***								
Sunflowers (perennials)	<i>Helianthus spp</i>	***	**								
Goldenrods	<i>Solidago spp.</i>	***	***								
New England Aster	<i>Symphyotrichum novae-angliae</i>	***	**								
Smooth Aster	<i>Symphyotrichum laevis</i>	**	**								
Aromatic Aster	<i>Symphyotrichum oblongifolium</i>	**	**								

Bars indicates approximate bloom color and bloom time

Key:

* = good

** = better

*** = best

Make sure you limit or eliminate your use of pesticides in and around flowering plants. Systemic pesticides like neonicotinoids are taken up in the nectar and pollen of treated plants and can be lethal to pollinators and beneficial insects. See more information and register your garden at www.chapollinator.org.



Bloom Time

NWF.ORG/GARDEN

Special Characteristics

- salt tolerant
- drought tolerant
- deer resistant
- colonizing
- wildlife value (host for caterpillars, attract hummingbirds)
- unique colors/structures



How to learn about plant requirements



GARDEN BOOKS



CATALOGS & MAGAZINES



SEED PACKETS
and of course the Internet!

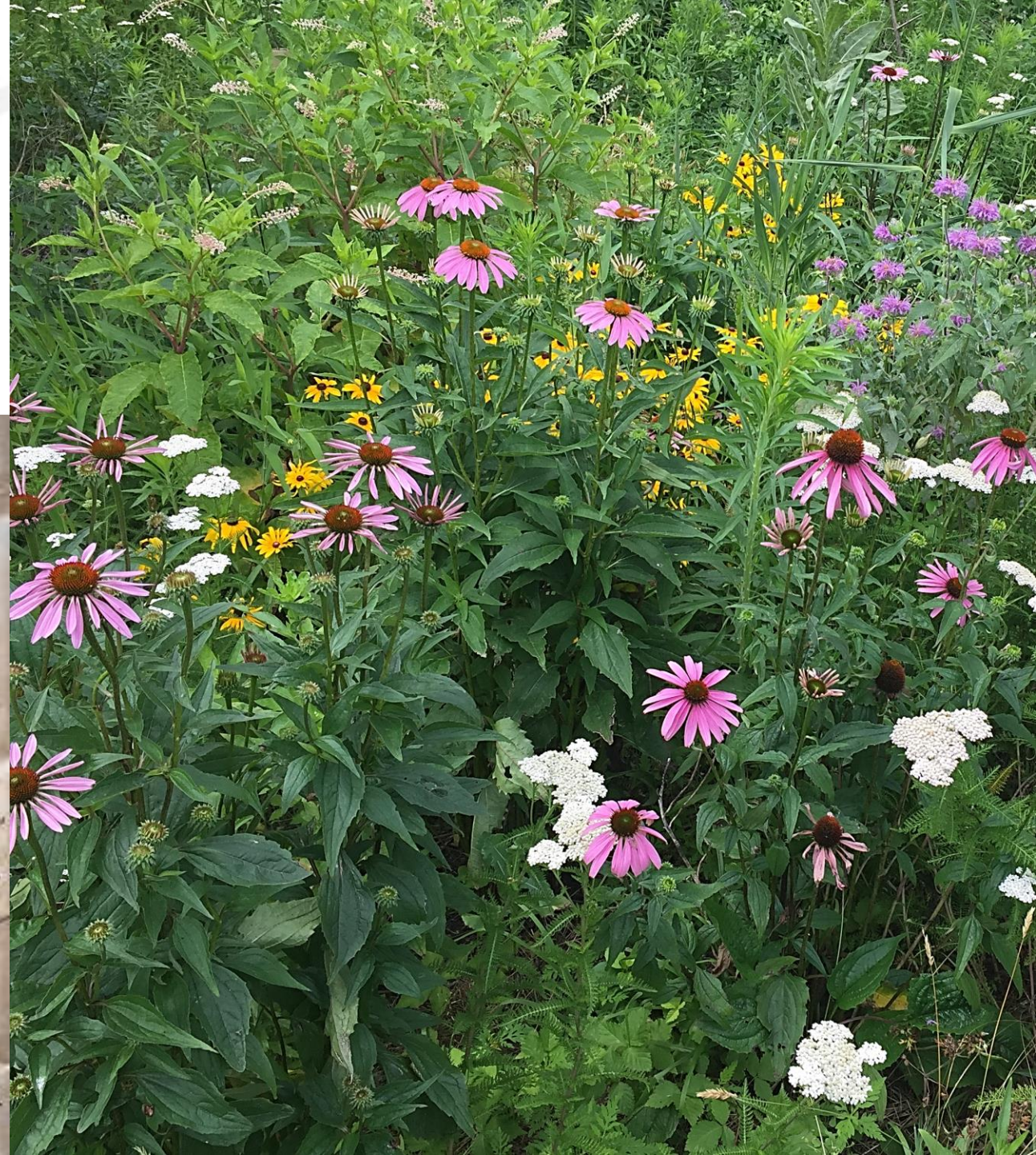


Plant Material

- Seeds
- Plugs
- Potted plants

Planting directly from seed

- Clean seed bed
- Dormant or spring
- Gently scratch into soil surface





Sow into flats (plugs)

allow seedlings to adjust to natural temperatures,
protect from late frost, watering is key



Container/ Potted Plants

- Different sizes
- More expensive but better established
- Large planting window





Where do I find native plants?

From your own garden space!

Seed Collection



Plant
Division



↑
Woody Plant
Cuttings



Nurseries/Catalogs

The Native Plant Society of New Jersey
(npsnj.org)



Name	Address	Phone Number	Website
Arrowood Native Plant Nursery Inc.	961 Clark Ave., Franklinville, NJ	856-697-6045	No website
Alliegance Landscape & Garden Center	104 Main Street, Helmetta	732-238-8756	www.AllieganceLandscaping.com
Atlantic Nursery, Inc.	3072 Cologne Avenue, Mays Landing	609-965-2553	www.atlanticnurserynj.com
Atlock Farm	545 Weston Canal Road, Somerset, NJ	732-356-3373	www.atlockfarm.com
Barton Nursery	949 New Durham Road, Edison, NJ	732-287-5222	www.bartonnurseries.com
Bramblewood Tree Farm	133 Millville Ave., Millmay, NJ	856-457-2200	No website
Brock Farms	4189 Route 9, Freehold, NJ	732-308-0498	www.brockfarms.com
Buddtown Nursery	441 Issac Budd Road, Southampton, NJ	609-859-1412	No website
Caliper Farms & Nursery	447 Griggstown Road, Belle Mead, NJ	908-904-9446	www.caliperfarms.com
Cavano's Perennials, Inc.	6845 Sunshine Ave., Kingsville, MD 21087	410-592-8077	www.cavanos.com
Cedar Hill Nursery	10 Whitney Road, Mahwah, NJ	201-891-7775	garret@cedarhillnursery.com
Centerton Nursery	345 Woodruff Road, Bridgeton, NJ	856-455-0926	www.centertonnursery.com
Chesterfield Gardens Inc.	PO Box 7 - 576 Pine Road, Hammonton, NJ	609-351-8732	No website
Chesterfield Gardens Inc.	615 Chesterfield-Jacobstown Rd., Chesterfield, NJ	609-298-2726	www.chesterfieldgardensinc.com
Cicconi Farms	1005 Farmingdale Rd., Jackson, NJ	732-363-1420	www.cicconifarms.com
Clemenson Farms Native Nursery	108 Linwood Ave, Estell Manor, NJ	609-476-3903	www.clemensonfarmsnativenursery.com
Coastal Nursery, LLC	50 Vanderveer Road, Freehold, NJ	732-303-6700	www.coastalnurserynj.com
Condursos	96 River Road, Montville, NJ	973-263-8814	www.Condursos.com
Croshaw Nursery	113 Mill Lane, Columbus, NJ	609-298-0477	www.croshawnursery.com
Dean's Evergreens, Inc.	542-1 Elk Road - Cty. Route 538, Monroeville	856-881-3496	www.deansevergreens.com
Earth First Native Plant Nursery & Gift, LLC	2501 Tilton Road, Egg Harbor Twp., NJ	609-287-5090	www.Earthfirstnatives.com
Fernbrook Nursery, Inc.	150 Bordentown-Georgetown Rd, Chesterfield, NJ	609-298-8282	www.fernbrookfarms.com
Four Seasons Nursery & Landscape Co., LLC	299 Woodward Road, Englishtown, NJ	732-792-9890	www.4seasonsnurserynj.com
Franz Fuertges Landscape Nursery	109 Ford Road, Denville, NJ	973-625-0077	No website
Galloway Wholesale Nursery	1121 Aloe Street, South Egg Harbor	609-965-2071	http://gallowaynursery.net
Glenwild Garden Center	104 Glenwild Ave, Bloomingdale, NJ	973-838-0174	www.glenwildgardens.com
Hionis Greenhouses & Garden Center	4 Coddington Road, Whitthouse Station, NJ	908-534-7710	www.hionisgreenhouses.com
Hopewell Nursery, Inc.	54 Harmony Road, Bridgeton	856-451-5552	www.hopewellnursery.com
J.G. Akerboom Nurseries, Inc.	700 Main Street, Cedarville, NJ	856-447-3346	www.Akerboom.com
Johnson Farms	1633 Rt. 77, Deerfield, NJ	856-358-1123	www.johnsonfarmsinc.com
Kale's Nursery & Landscape Services, Inc.	133 Carter Road, Princeton	609-921-9248	www.kalesnursery.com
Kuperus Farmside Gardens	19 Loomis Ave, Sussex, NJ	973-875-3160	www.farmsidegardens.com
Mapleton Nurseries	140 Mapleton Road, Kingston, NJ	609-430-0366	www.mapletonnurseries.com
New Moon Nursery, LLC	975 Barretts Run Road, Bridgeton, NJ	888-998-1951	www.NewMoonNursery.com
Overdevest Nurseries	578 Bowentown Road, Bridgeton, NJ	856-451-3179	www.Overdevestnurseries.com
Pinelands	323 Island Road, Columbus, NJ	800-667-2729	www.pinelandsnursery.com
Plant Detectives	45 Route 206, Chester, NJ	908-879-6577	www.plantdetectives.com
Pleasant Run Nursery	93 Ellisdale Road, Allentown, NJ	609-259-8585	www.pleasantrunnursery.com
Potts Nurseries LLC	427 Ontelaunee Dr., Shoemakersville, PA	610-929-2084	www.pottsnurseries.com
Quinton Nursery, LLC	842 Salem-Quinton Rd, Salem, NJ	856-935-7503	www.quintonnursery.com
Rare Find Nursery	957 Patterson Road, Jackson, NJ	732-833-0613	www.rarefindnursery.com
Rutgers Landscape & Nursery	1051 US Hwy. Route 202 North, Ringoes, NJ	908-788-2600	www.rutgersln.com
Scott Farm Nursery	1554 Tanyard Road, Sewell	856-464-0530	No website
Sepers Nursery	1003 Columbia Avenue, Newfield, NJ	856-691-0597	www.sepersnursery.com
Steve Kristoph Nursery	PO Box 746, Englishtown, NJ	732-446-1440	www.pstevenkristoph.com
The Perennial Farm	12017 Glen Arm Road, Glen Arm, MD 21057	800-567-9913	www.WhatsNative.com
The Perennial Farm	12017 Glen Arm Road, Glen Arm, MD	800-567-9913	www.WhatsNative.com
Toadshade Wildflower Farm	53 Everittstown Rd., Frenchtown, NJ	908-996-7500	www.toadshade.com
Village Nurseries, Inc.	818 York Road, Hightstown, NJ	609-448-0436	www.villagenurseriesnj.com
Waterford Gardens	74 East Allendale Road, Saddle River, NJ	201-327-0721	www.waterford-gardens.com
Waterford Gardens	561 Jackson Road, Atco, NJ	856-767-7277	www.waterfordgardensnj.com





i DETAILS

Seeds/Packet	750
Seeds/Ounce	400,000
<u>Germination Code</u>	<u>C(60)</u> <u>D</u>
<u>Life Cycle</u>	Short-Lived Perennial
<u>Sun Exposure</u>	Full, Partial
<u>Soil Moisture</u>	Wet, Medium-Wet
<u>Height</u>	4 feet
<u>Bloom Time</u>	July, August, September
<u>Bloom Color</u>	Red
<u>Advantages</u>	  
<u>USDA Zones</u>	4-9
<u>Plant Spacing</u>	6-16"
<u>Catalog Number</u>	LOB02F



Lobelia cardinalis CARDINAL FLOWER

SEEDS

Packet	\$3.00
1/8 oz.	\$15.00
1/4 oz.	\$25.00

BARE ROOT PLANTS

Bare Root Plants	Out of Stock
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POTTED PLANTS

Tray of 50	Out of Stock
Tray of 38	Out of Stock
3 Packs - Ships June	Out of Stock

Description

Tall and slender with ray-less, rose-purple flower heads arranged on a dense spike. Good for marsh edges.

Pinelands Nursery

LIATRIS SPICATA (Dense Blazingstar) 2" Plug

Item Code: LISPIPJ00



Category Herbaceous Plants

Manufacturer Pinelands Nursery

Minimum order quantity 50

Maximum order quantity 999999

Wetland Indicator Status: FAC+

Zone: 3-9

Species Type: Native

Growth Habit: Forb

Classification: Perennial

Plant Height: 4'

Spread: 2'

Growth Rate: Medium

Bloom Period: June-September

Bloom Color: Purple

Pollinator Value: High

Shade Tolerance: Moderate

Drought Tolerance: Moderate

Flood Tolerance: Low



Native Plant Sales



NEW JERSEY AUDUBON

CALENDAR OF EVENTS

VISIT US ▾

PROGRAMS ▾

GET INVOLVED ▾

ABOUT US ▾

DONATE

Native Plant Sales

Visit our Website at

<https://njudubon.org/native-plant-sales/>

for more information.

SAVE THE DATE

NJ Audubon's

Spring Native Plant Sale

Saturday MAY 4th 10am to 4pm

Be sure to get there early as selections are limited.

Please note: not all plant species are available at all centers due to supplier availability. Sizes and prices may vary.

Call ahead to your center of choice for updated information



What Are Your Goals?

Its homework time!
Your assignment for next
week's webinar on
Designing Your Space

Part 2

Complete the worksheet
entitled: "Understanding
Your Space and Preparing
for Design"



Understanding Your Outdoor Space and Preparing to Design



Gardening For Wildlife Program

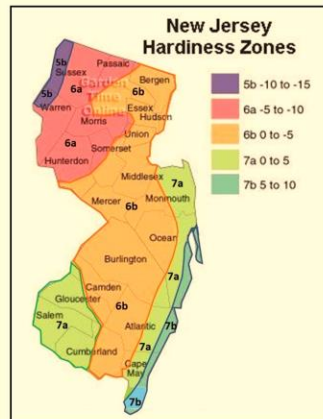
Understanding Your Outdoor Space and Preparing to Design



YOUR GOALS

What's the Goal for your outdoor space and what are you seeking to achieve? Check off the three biggest benefits related to your gardening for wildlife.

- ☐ It provides food, water, shelter for animals
- ☐ It gives me time outdoors
- ☐ It provides me with a way to talk about gardening for wildlife with others
- ☐ It makes my property beautiful
- ☐ It reduces the amount of yard maintenance I have to do
- ☐ It reduces the amount of herbicides/pesticides being used
- ☐ It helps reduce stress



HARDINESS ZONE

Using this map, which hardiness zone does your planting space fall within?

- ☐ 5b
- ☐ 6a
- ☐ 6b
- ☐ 7a
- ☐ 7b



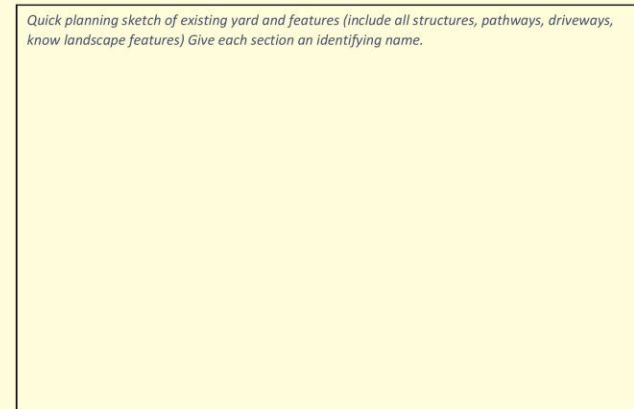
YOUR SPACE – EXISTING CONDITIONS

How would you describe your outdoor planting space? *This is not necessarily the size of your entire yard. This represents the total square footage you could dedicate toward planting.*

- ☐ Zero sq. ft. (Container Planting Only)
- ☐ Up to 45 sq. ft. (approximately the size of a King Size bed)
- ☐ Up to 400 sq. ft. (approximately size of 2 parking spaces)
- ☐ Up to 1,000 sq. ft (approximately the size of 5 parking spaces)
- ☐ Up to 5,000 sq. ft (approximately the size of a basketball court)
- ☐ More than 5,000 sq. ft

If you do plan to dedicate our entire yard to gardening for wildlife, we suggest creating a basic plan using a simple sketch of our property. A survey plan is a wonderful base map or even a aerial photograph from Google Earth or Google Maps is a great way to start. Assign each section of the yard a name (ex. *Front of the house, side yard, shady side of garage*)

Quick planning sketch of existing yard and features (include all structures, pathways, driveways, know landscape features) Give each section an identifying name.



Section Name (ex. Front of the house): _____



SOIL TYPE

Which of the descriptions below most accurately describes your soil? *You may have more than one.*

- ☐ Well-drained (dry most of the time)
- ☐ Medium-drained (periodically wet or moist)
- ☐ Wet (wet most of the time)



LIGHTING

How much sun does your space get? If there are areas that get differing amounts of light you can divide your yard into as many sections as you need.

- ☐ Less than 3 hours (Shade or filtered light only)
- ☐ 3-6 hours (Partial Shade)
- ☐ 6+ hours (Full Sun)



☐ Other considerations: _____

Section Name (ex. Front of the house): _____



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☐ Other considerations: _____

Section Name (ex. Front of the house): _____



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☐ Other considerations: _____



HABITAT FOR WILDLIFE

When you look around at your outdoor space, what resources do you have that would be useful to wildlife? These resources can be either natural (ex. maple tree) or supplemental (ex. suet feeder).

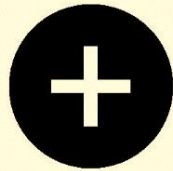
Food	Water
Have:	Have:
Would like to add:	Would like to add:
Cover	Places to Raise Young
Have:	Have:
Would like to add:	Would like to add:



YOUR SPACE – EVALUTAION OF NEEDS

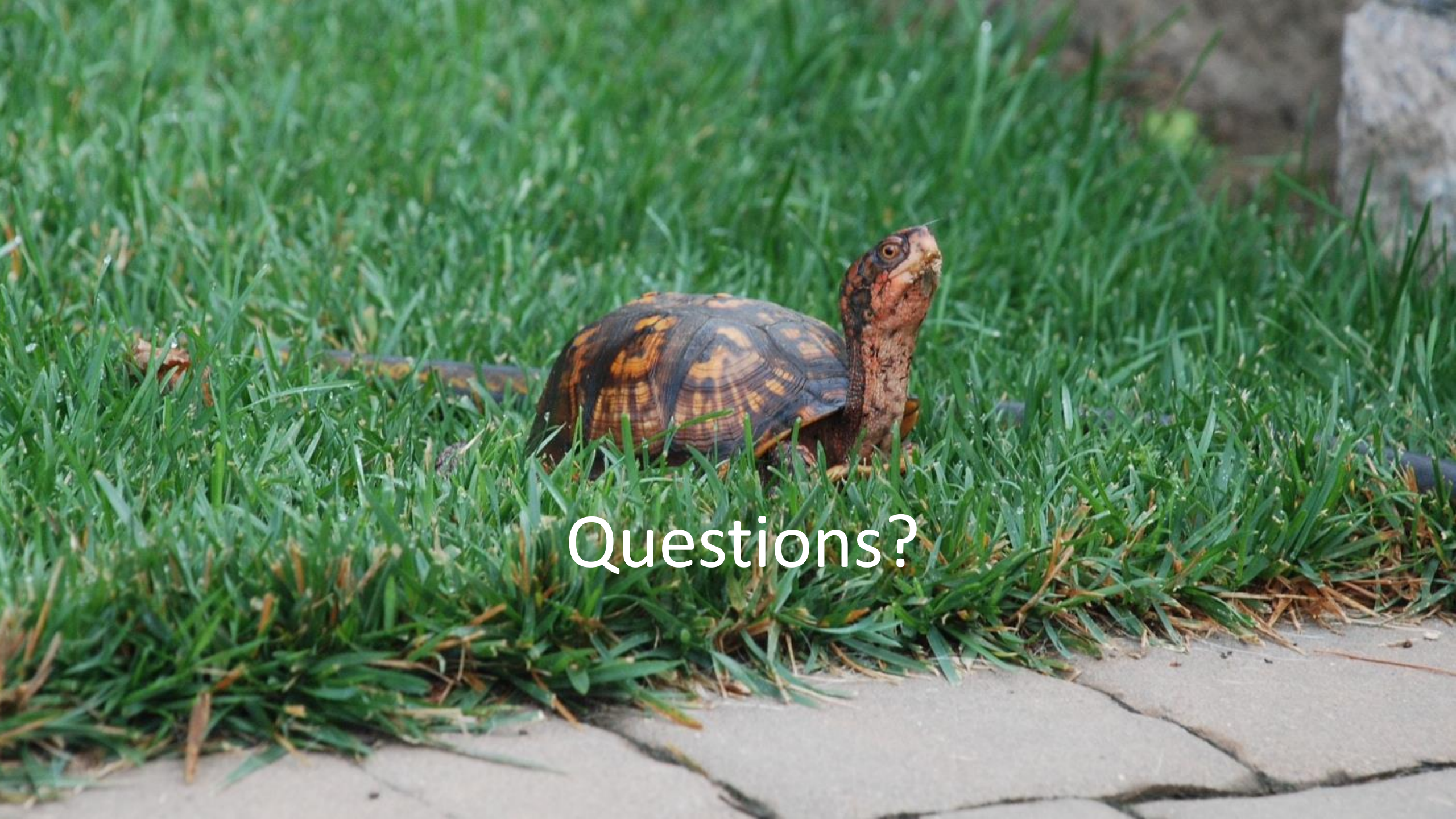
This is your habitat too! It's important to reflect upon how you and your family member (and pets too) will be using the space. Answer the following questions and then review when you are ready to begin designing your landscape.

- ☐ What uses do you currently male of your yard and landscape?
- ☐ What do you most like about your site?
- ☐ What don't you like about the existing landscape?
- ☐ For what specific uses do you want to plan?
- ☐ If you have children, what specific uses will they be growing into and out of?
- ☐ If you have pets, do they have any specific requirements that will influence your design? For example, do you want to shut them out of specific areas or let them in?
- ☐ If the various sections of your yard were seen as outdoor rooms or extensions of you indoor spaces, what would you call them? Kitchen? Storage space? Living Space?
- ☐ If you want your space to be private or protect from the wind, is special screening necessary?
- ☐ How much time will you personally have on creating the project?
- ☐ How much time will you have for maintenance?
- ☐ Are there any easements, setbacks or zoning or homeowner association restrictions that will affect your decisions?
- ☐ Are there any underground utility lines or irrigation lines? Can you locate them?
- ☐ Are there any special plants species you want to use? Special foliage or flower colors or types?



MORE BEFORE.....You put pen to paper and begin your design

- ☐ Spend time in nature and visit gardens which emphasize the use of native plants and eco-friendly gardening practices.
- ☐ Attend guided nature hikes with a naturalist or garden tours with a master gardener familiar with plant identification. Ask questions.
- ☐ Locate a survey of your property. Don't have one? Call your municipal or County clerk or tax office to see if one is on file.
- ☐ Search your property on Google Earth or Google Maps and print out a copy.
- ☐ Take photographs of the area you want to transform.



Questions?