

Paradise Gardens for Pollinators and Wildlife
presented by Rutgers Morris County Master Gardener: Gail Di Domenico

Deciduous Trees			A-Acid AD-Adaptable AL-Alkaline B-Birds, Butterflies, Bees C-Compact Soil D-Drought & Heat Tolerant E-Evergreen F-Flowers FC-Fall Color FR-Fragrant FT-Fruit/Berries M-Moist/Wet Soil MR-Moisture Retentive N-Neutral O-Organic P-Protection PS-Part Shade S-Sun SH-Shade U-Underused W-Winter Interest WD - Well Drained WP-Weeping				
S-15-30ft	M-30-50ft	L-50ft & up					
<u>Common Name</u>	<u>Botanical Name</u>	<u>Size</u>	<u>Zone</u>	<u>Soil Type</u>	<u>Soil Conditions</u>	<u>Exposure</u>	<u>Characteristics</u>
Cherry, Black*	<i>Prunus serotina</i>	L	3-9	AD	M-Rich-AD	S	F-FT-B
Crabapple, Flowering	<i>Malus</i>	S	4-8	A	M-WD	S	F-FR-FT- B
Dogwood, Flowering *	<i>Cornus florida</i>	S	5-9	A	WD	PS-S	F-FT-FC-B
Hawthorn, Washington *	<i>Crataegus phaenopyrum</i>	S	4-8	AD	WD-C-D	S-PS	F-FR-FC-B
Hornbeam, American	<i>Carpinus caroliniana</i>	S	3-9	AD	M-WD	S-SH	FT-B
Maple, Red*	<i>Acer rubrum</i>	M-L	3-9	A	M	S	FC-B
Oak, Pin*	<i>Quercus palustris</i>	L	4-8	A	M-WD-rich	S	B - ACORNS
Serviceberry *	<i>Amelanchier aborea</i>	S-M	4-9	A	M-WD	S-PS	F-FT-B
Weeping Trees							
Cherry, Higan	<i>Prunus subhiartella 'Pendula'</i>	S-M	5-8	AD	AD	S	F-FR-FT-WP
Crabapple, Flowering	<i>Malus 'Red Jade'</i>	S	4-7	A	M-WD	S	F-FT-WP-B
Dogwood, flowering *	<i>Cornus florida 'Pendula'</i>	S	5-9	A	WD	PS-S	F-FT-FC-WP-B
Eastern Redbud*	<i>Cercis canadensis</i>						
Snowbell, Fragrant	<i>Styrax obassia</i>	M	5-8	A	M-WD	S-PS	F-FR-WP
Weeping Willow	<i>Salix babylonica</i>	M	6-8	AD	M	S	F-Catkins -B-WP
Needle Evergreens			- Provide year round shelter & nesting sites				
<u>Common Name</u>	<u>Botanical Name</u>	<u>Size</u>	<u>Zone</u>	<u>Soil Type</u>	<u>Soil Conditions</u>	<u>Exposure</u>	<u>Characteristics</u>
Colorado Blue Spruce*	<i>Picea pungens</i>	M	3-7	AD	M-R-D	S	E
Douglas Fir	<i>Pseudotsuga menziesii</i>	M-L	4-6	N-slightly A	M-WD	S	E
Eastern Red Cedar*	<i>Juniperus virginiana</i>	S	4-9	AD	AD-S-WD	S	FR-B
Fir, Nikko	<i>Abies homolepis</i>	M	4-6	A	M-WD	S	E
Hemlock, Canadian *	<i>Tsuga canadensis</i>	M-L	3-7	A	M-WD - Cool	PS-S	E
Hinoki Falsecypress	<i>Chamaecyparis obtusa</i>	Lg	5-8	N-A	M-WD	S	E(protect from Wind)
White Pine	<i>Pinus strobus</i>	L	3-7/8	AD	AD-WD	S	E
* = Native Plants - Note specific cultivar or species							



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Shrubs		A-Acid AD-Adaptable AL-Alkaline B-Birds, Butterflies, Bees C-Compact Soil D-Drought & Heat Tolerant E-Evergreen F-Flowers FC-Fall Color FR-Fragrant FT-Fruit/Berries M-Moist/Wet Soil MR-Moisture Retentive N-Neutral O-Organic P - Protection PS-Part Shade S-Sun SH-Shade U-Underused W-Winter Interest WD-Well Drained WP - Weeping					
S- 6' or less	M-6-12' L-12' & up						
Common Name	Botanical Name	Size	Zone	Soil Type	Soil Conditions	Exposure	Characteristics
Abelia, Glossy	<i>Abelia x grandiflora</i>	S	6-9	A	M	S-PS	F-FR-B
Alder-leaved Serviceberry	<i>Amalanchier alnifolia</i>	M	4-5	A	M-WD	S-PS	F-FT-B
Azalea (deciduous)*	<i>Azalea R. altanticum</i>	S	A	5-7	WD-Light	PS	F-B
Bayberry	<i>Myrica pensylvanica</i>	M	3-6	AD	AD	S-PS	E-FT-B
Blueberry	<i>Vaccinium corymbosum</i>	M	3-7/8	A	M-WD-O	S-PS	F-FT-B
Blue Mist Shrub	<i>Caryopteris clandonensis</i>	S	5-9	AD	WD- Loose	S-PS	F-FR-B
Eastern Red Bud*	<i>Cercis canadensis</i>	S	4-9	AD	AD	S-PS	B-F
Elderberry	<i>Sambucus canadensis</i>	S-M	4-9	AD	M-AD	S	F-FT-B
Firethorn	<i>Pyracantha</i>	M	6-10	A	WD or Dry	S-PS	FT-B-W
Holly	<i>Ilex (numerous)</i>	S-M-L	Varies	A	M	S-PS-SH	E-FT-B-W
Leucothoe (drooping) *	<i>Leucothoe fontanesiana</i>	S	5-8	A	MR	S-PS	F-WP-P
Oregon Grape-Holly *	<i>Mahonia aquifolium</i>	S	5-8	A	M-WD	PS-SH	F-FT-FR-B
Purple Beautyberry *	<i>Callicarpia dichotoma</i>	S	6-9	AD	WD	PS-S	F-FT-B
Pussy Willow	<i>Salix chaenomyloides</i>	M	6-8	AD	M	S-PS	F-B
Red Twig Dogwood *	<i>Cornus sericea</i>	M	3-8		M	S-PS	F-FC-B-W - RedStems
Rhododendron	<i>Rhododendron (various)</i>	S-M-L	3 & UP	A	0-WD	PS	F-FR-B-E(some)
Rose	<i>Rosa blanda & carolina</i>	S-M	Varies	O	WD	S-PS	F-FR-B
Spicebush	<i>Lindera Benzoin</i>	M	5-8	AD	M-WD	S-PS	F-B
Summersweet*	<i>Clethra alnifolia</i>	M	4-9	A	M-WD	S-SH	F-FR-B
Viburnum	<i>Viburnum (numerous)</i>	S-M	Varies	A	WD-MR	S-PS	F-FR-B
Weigela	<i>Weigela</i>	S	5-8	AD	M	S	F-B
Yucca	<i>Yucca filamentosa</i>	S	4-9	AD	WD	S	F--B-E
Vines							
Common Name	Botanical Name	Size	Zone	Soil Type	Soil Conditions	Exposure	Characteristics
Cross-Vine*	<i>Bigonía capreolata</i>	35+	4-9	AD	AD	S-PS	F-vigorous
Coral Honeysuckle *	<i>Lonicera sempervirens</i>	Up to 12ft	4-9	AD	D-M	S-PS	B-F-FT -FC
Dutchman's Pipe	<i>Aristolochia macrophylla</i>	10++	4-7	AD	M	S-SH	F-B
Virginia Creeper*	<i>Parthenocissus henryana</i>	30 ft +	4-9	WD	AD	S-PS	FC - aggressive
Wisteria, American*	<i>Wisteria frutescens</i>	30ft +	5-9	AD	AD	S	F-FR-B
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Perennials	AD-Adaptable B-Birds, Butterflies, Bees D-Drought & Heat Tolerant F-Flowers FC-Fall Color FR-Fragrant FT-Fruit M-Mois/Wet Soil PS-Part Shade R- Rich S-Sun SA-Salt Tolerant SH-Shade U-Underused W-Winter Interest WD- Well Drained						
Common Name	Botanical Name	Size	Zone	Soil Conditions	Exposure	Characteristics	
Asters*	<i>Aster novae-angliae</i>	3'-6'	3-8	M	S	B-F-FC	
Astilbe	<i>Astilbe x arendsii</i>	1.5ft-4ft.	4-8	M	PS	B-F	
Autumn Joy Sedum	<i>Sedum autumn joy</i>	2'	3-9	AD	S	B-F	
Beardtongue*	<i>Penstmon Husker's Red</i>	2ft.	3-9	M	S-PS	F-B	
Bee Balm*	<i>Monarda didyma</i>	3ft.	4-8	M	S-PS	F-B	
Blackberry Lily	<i>Belamcanda</i>	2'-4'	4-10	WD-R	S	F-FT	
Black-Eyed Susan	<i>Rudbeckia fulgida</i>	1.5-4ft.+	4-9	M-WD	S-PS	B-F-FC	
Blazing star	<i>Liatris</i>	1-3'	3-9	WD	S	B-F	
Butterfly Weed	<i>Asclepias tuberosa</i>	2'	2-10	WD-Average	S	B-F	
Cardinal Flower (Red)	<i>Lobelia Cardinalis</i>	2'-3'	3-9	M	PS-SH	B-F-FC	
Cardinal Flower (Blue)	<i>Lobelia siphilitica</i>	2'-3'	4-8	M	PS-SH	B-F	
Columbine*	<i>Aquilegia canadensis</i>	18in.	5-9	M-WD	S-PS	B-F	
Coral Bells*	<i>Heuchera americana</i>	1.5-3' varies	3-8	M-WD	S-PS	B-F-FC	
Coreopsis, Threadleaf*	<i>Coreopsis lanceolata</i>	1-2'	4-9	M-R	S	F-FC-B	
Crocasmia	<i>Crocasmia</i>	2-3'	6-9	M-Rich	S	B-F	
Delphinium	<i>Delphinium</i>	1-6'	3-10	WD-fertile	S	B-F	
False Sunflower	<i>Heliopsis</i>	4'	3-8	AD	S	F-FC-B	
Goldenrod "Fireworks"	<i>Solidago rugosa</i>	4'	4-9	AD	S	B-F-FC	
Hollyhock	<i>Alcea rosea</i>	5'	3-8	WD-fertile	S	B-F	
Joe-Pye-Weed*	<i>Eupatorium - now -Eutrochium</i>	varies	3-8	M-Average	S-PS	B-F	
Milkweed	<i>Asclepias incarnata</i>	3-5'	3-8	M-R	S	B-F	
Oregano, common	<i>Origanum vulgare</i>	2'	5-10	Average -poor	S	F-B	
Parsley	<i>Petroselinm crispum</i>	12-15"	2-10	WD-AD	S	B	
Phlox	<i>Phlox paniculata</i>	3-4'	4-9	M-WD	S-PS	B-F	
Purple Coneflower	<i>Echinacea purpurea</i>	3-6ft.	4-9	AD	S	B-FC	
Rose Mallow*	<i>Hibiscus moscheutos</i>	3-8ft.	5-9	M	S	F	
Sage	<i>Salvia</i>	1.5'	5-10	Average-Rich	S	F-B	
Sedum	<i>many varities</i>	varies	varies	AD	S	F-B	
Solomon's Seal	<i>Polygonatum</i>	varies	varies	M-R	PS-SH	F-B	
Stoke's Aster*	<i>Stokesia</i>	18"	5-9	M-WD	S	B-F-FC	
Stonecrop	<i>see sedum</i>						
Sunflower	<i>Helianthus</i>	2-15'	2-9	Average	S	B-F	
Woodland Phlox*	<i>Phlox divaricato</i>	12"	3-8	M	S-PS	F-B	
Yarrow	<i>Achillea millefolium</i>	1-3ft.	3-9	D	S	B-FC	
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<u>Annuals</u>	B-Birds, Butterflies or Bees C-Compact Soil D-Drought & Heat Tolerant					
	LS-Light Shade M-Moist/Wet Soil MR-Moisture Retentive N-Neutral O-Organic					
	PS-Part Shade R-Rich S-Sun SH-Shade U-Underused WD-Well Drained					
ESP-Early Spring LSP- Late Sprng SP-Spring ES-Early Sum.						
MS-Mid. Sum. LS-Late Sum FA-Fall FST-Frost						
<u>Common Name</u>	<u>Botanical Name</u>	<u>Soil Conditions</u>	<u>Exposure</u>	<u>Flowering Time & Notes</u>		
Ageratum	<i>Ageratum houstonianum</i>	M-WD	S-PS	MS-FST-B		
Begonia(wax)	<i>Begonia Semperflorens</i>	WD-R	S-PS-SH	ES-FST-B		
Blanket Flower	<i>Gaillardia pulchella</i>	R-WD	S	ES-FA-B		
Candy Tuft (globe)	<i>Iberis umbellata</i>	Poor -WD-M	S-PS	MS-LS-B		
Canna	<i>Canna (various)</i>	M-WD-O	S	ES-LS-B		
Cosmos	<i>Cosmos (various)</i>	Poor to Ave.- M-WD	S	MS-FA-B		
Fan Flower	<i>Scaevola (various)</i>	WD-M	S-PS	ES-FA-B		
Heliotrope	<i>Heliptrope</i>	R- WD	S-PS	ES - FA-B		
Hibiscus	<i>Hibiscus rosa-sinensis</i>	WD-R	S	ES-FA-B		
Hibiscus -Chinese/ Hawiian	<i>Hibiscus rosa-sinensis</i>	R-WD	S	MS-FA-B		
Impatiens	<i>Impatiens walleriana</i>	M-WD-R	PS-SH	ES-FST-B		
Lantana	<i>Lantana (various)</i>	WD	S	LS-FST-B		
Mandevilla	<i>Mandevilla x amoen</i>	M-WD	S-PS	ES-FST-B		
Million Bells	<i>Petunia - Calibrachoa</i>	M-WD	S-PS	ES-FA-B		
Phlox, annual	<i>Phlox</i>	M-WD-Rich	S	SP -B		
Pincushion Flower	<i>Scabiosa atropurpurea</i>	WD	S	ES-LS-B		
Pot Marigold	<i>Calendula officinalis</i>	WD-Average	S-LS	MS-FA (likes cool temp)-B		
Scarlet Sage	<i>Salvia (various)</i>	WD-M	S-PS	ES-FA-B		
Spider Flower	<i>Cleome hasslerana</i>	WD-LIGHT	S	ES-LS-B		
Star Cluster	<i>Pentas lanceolata</i>	R-WD	S	ES-FST-B		
Sunflower -common/ annual	<i>Helianthus annus</i>	M-WD	S	MS-FA-B		
Sweet Alyssum	<i>Lobularia maritima</i>	WD	S-PS	LSP-FA-B		
Verbena	<i>Verbena</i>	M-WD	S-PS	ES-FA-B		
Zinnia	many varieties	WD-Average	S	MS-LS-B		
<u>BUTTERFLIES</u>	<u>HOST PLANTS</u>	<u>NECTAR PLANTS</u>				
Black Swallowtail	Parsley, Dill, Carrot, Queen Anne's Lace	Milkweed, Phlox, Clover, Thistle,Celery				
Checkered White	Mustard, Turnip, Cabbage, Cleome	Aster, Milkweed, Mustard family plants				
Clouded Sulphur	Clover, and plants in Pea family	Aster, Goldenrod, Phlox, Clover				
Common Buckeye	Plantain, Snapdragon,, Toadflax	Aster, Hyssop, Coreopsis, Chicory				
Eastern Tiger Swallowtail	Cherry trees, Tulip tree & many more	Milkweed, Button bush, Joe-Pye Weed, Native Honeysuckle				



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<u>Books & Resources</u>							
Attracting Birds, Butterflies & Other Winged Wonders to Your Yard by Kris Wetherbee							
National Wildlife Federation's -							
Attracting Birds, Butterflies and other Backyard Wildlife by David Mizejewski							
Ortho's All About Attracting Hummingbirds and Butterflies							
Beginners Guide to Dragonflies by Donald & Lillian Stokes							
Bringing Nature Home: How You can Sustain Wildlife w/Native Plants by D. W. Tallamy & Natures Best Hope by D. Tallamy							
National Audubon Society's -							
	Field Guide to Insects & Spiders (North America)						
	Field Guide to Butterflies (North America)						
Taylor's Guides - Shrubs by Kathleen Fisher							
Rodale's Illustrated Encyclopedia of Perennials by Ellen Phillips & C. Colston Burrell							
Invasive Plants - A Guide to Identification, Impacts & Control of							
Common North American Species by Sylvan Ramsey-Kaufman							
Native Alternatives to Invasive Plants - Brooklyn Botanic Gardens							
	by C. Colston Burrell						
Designing Gardens with flora of the America East by Carolyn Summer							
<u>Fact Sheets:</u>							
Rutgers Fact Sheet: FS930-Beneficial Insects							
<u>Other Resources:</u>							
National Wildlife Federation	http://www.nwf.org/						
NJ Audubon	www.njaudubon.org						
Pollinator Association	http://www.pollinator.org/						
Native Plant Society of NJ	http://www.npsnj.org/						
Lady Bird Johnson	www.wildflower.org						
USDA's Plant Database	http://plants.usda.gov/						
www.patsuttonwildlifegarden.com							
Rutgers Website	http://www.njaes.rutgers.edu/						
Master Gardener Helpline - 973.285.8305 or 973.8316							
Master Gardener email:	rcemastergardeners@co.morris.nj.us						

