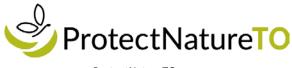
PE26.7.3



www.ProtectNatureTO.org info@ ProtectNatureTO.org

April 7, 2018

To: Parks and Environment Committee, City of Toronto

Re: PE26.7 Pollinator Protection Strategy, PE Meeting of April 9, 2018

Dear Councillors,

On behalf of ProtectNatureTO we are pleased to see that the Pollinator Protection Strategy is moving forward with a focus on our native bees and butterflies. Many other insects and animals that depend upon the habitats that these pollinators require will also benefit from the suite of native plants and other structural features that are characteristic of natural habitats.

Protection of our special Environmentally Significant Areas and other natural areas remaining in the ravines and on the waterfront will ensure the healthy biodiversity needed to make sure pollinators and other animals will thrive.

1. We support the three guiding principles outlined in the Strategy:

a. To prioritize actions that support and sustain native pollinator biodiversity in Toronto, recognizing that native bee species, for example, are more threatened than non-native honey bees, that they are ecologically important, and that once they are lost they cannot be replaced;

b. To create, enhance, and protect habitat in natural and urbanized areas – using native plants, trees, and shrubs as much as possible – recognizing that habitat loss is one of the greatest threats facing pollinators and that additional habitat will benefit all pollinators, both native and non-native; and

c. To engage and support the community in taking action to help sustain Toronto's native pollinators.

2. We enthusiastically endorse moving Agapostemon virescens from unofficial status to Toronto's Official Bee status!

3. ProtectNatureTO supports the creation of the "Pollinator Protection Reserve Fund", the purpose of which is to hold funds for pollinator stewardship incentives.

4. Attachment 5, The Best Native Plants for Toronto Gardens, is a list of plants for bees. Some of the plants on this list such as Cardinal Flower may not grow well in Toronto as it prefers more acidic soils, and one species Fairybells, which is not on Toronto and Region Conservation's native plant lists, is listed twice. That attachment is a list which is more regional. We are asking that a more deliberate, extensive list be created for the strategy that will work well for bees but still keep high standards for public restoration projects. One of the best lists is in a booklet from Credit Valley Conservation; this list is more extensive and notes which plants are suitable for gardens and which plants might not be suitable for restoration projects because they are not native to the area. Another useful list can be

found in the Butterflies of Toronto booklet which is part of the City's Biodiversity Series. Both lists are appended to this letter.

5. While this Strategy is an important component, it is meant to be part of a more comprehensive Toronto Biodiversity Strategy which is still in the works. Management plans also need to be developed and implemented to protect the City's Environmentally Significant Areas. We urge your committee to ensure that these two initiatives receive the priority attention and resources that they deserve.

Thank you!

Paula Davies and Karen Yukich, on behalf of ProtectNatureTO

Attachments:

1. Credit Valley Conservation booklet, pages 12-20, source:

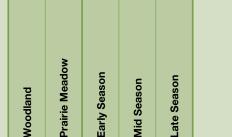
https://cvc.ca/wp-content/uploads/2017/04/17-uo-nativeplantsforpollinators-booklet-v8-web.pdf

2. Butterflies of Toronto booklet, pages 57-59, source:

https://www.toronto.ca/wp-content/uploads/2017/08/969e-Biodiversity_ButterfliesBook-Division-Planning-And-Development.pdf



Bumble Bees on Aster









Mason Bee



Common Buckeye Butterfly on Aster

		-									
Common Name	Scientific Name		ant nunity**	В	loom Ti	me	Flower Shape		Notes	Examples of Butterfly and Moth Users	Examples of Bee Users
Alexanders, Golden*	Zizia aurea			Ŷ			\$ *		Small bees pollinate; large bees only get nectar	Black Swallowtail Butterfly Northern Azure Butterfly	Mining Bees, e.g. Golden Alexanders Andrena^ Mason Bees
Aster, Calico	Symphyotrichum lateriflorum					W					
Aster, Flat-top White*	Doellingeria umbellata var. umbellata					W					
Aster, Heart-leaved	Symphyotrichum cordifolium					B					
Aster, Large-leaved	Eurybia macrophylla					Ø	 ₽ ₽ 1 1		Large number of flower heads attract many pollinators	Pearl Crescent Butterfly*** Common Buckeye Butterfly	Long-horned Bees, e.g. <i>Melissodes druriella</i> ^ Bumble Bees
Aster, New England	Symphyotrichum novae-angliae					Ø					
Aster, Sky-blue*	Symphyotrichum oolentangiense					8					
Aster, Swamp	Symphyotrichum puniceum					P	-				
Aster, White-Heath	Symphyotrichum ericoides var. ericoides					W	-				
Beardtongue, Foxglove*	Penstemon digitalis				W					American Copper Butterfly Blinded Sphinx Moth	Mason Bees, e.g. <i>Osmia distincta^</i>
Beardtongue, Hairy*	Penstemon hirsutus				P			Attr	Attract long-tongued bees and butterflies		Small Carpenter Bees
Bergamot, Wild	Monarda fistulosa var. fistulosa				P		* *		New flowers open as old ones are depleted	Hermit Sphinx Moth*** Silver-spotted Skipper Butterfly	Sweat Bees, e.g. Monarda Dufourea^ Bumble Bees

Bloom Time: Early: April-June Mid: June-August Late: August-October

Bloom Colour: 10 red O orange Y yellow G green 13 blue P purple 10 pink W white

Flower Shape: Simple ktube klipped kaisy-like spike tuber

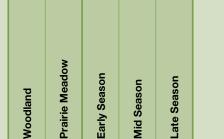
* Not for restoration or projects requiring a CVC permit. See page 10.

** For detailed plant information and alternate plant names, please cross-reference with CVC's Woodland Plants for Landscaping (creditvalleyca.ca/woodlandplants) and Prairie & Meadow Plants for Landscaping (creditvalleyca.ca/prairiemeadowplants) booklets.

*** Use plants as host plant.



Camouflaged Looper Moth on Black-eyed Susan





Blazing Star



fly on Black Swallowtail Butterfly on Coneflower



Leafcutter Bee on

Common Milkweed



Common Name	Scientific Name	Pla Comm	ant unity**	ВІ	oom Tir	me	Flower Shape		Notes	Examples of Butterfly and Moth Users	Examples of Bee Users
Black-eyed Susan	Rudbeckia hirta var. pulcherrima				Y		檾		Large flower head creates landing pad	Camouflaged Looper Moth*** Tiger Swallowtail Butterfly	Long-horned Bees Mining Bees
Blazing-star, Dense*	Liatris spicata					P	je ∮		Abundance of nectar attracts butterflies	Monarch Butterfly	Bumble Bees
Blazing-star, Slender*	Liatris cylindracea					P	*		Abunuance of nectar attracts butternies	Peck's Skipper Butterfly	Leafcutter Bees
Bloodroot	Sanguinaria canadensis			W			\$		If no pollinators, they can self pollinate after the third day flowering	Tufted Apple-bud Moth*** Mourning Cloak Butterfly	Cuckoo Bees Mining Bees
Boneset, Common	Eupatorium perfoliatum					W	₩		Large clusters with easy access to nectar	Clymene Moth*** Red Admiral Butterfly	Sweat Bees Yellow-faced Bees
Columbine, Wild	Aquilegia canadensis			6			¥		Also attracts Ruby-throated Hummingbirds	Columbine Borer Moth*** Black Swallowtail Butterfly	Mason Bees Sweat Bees
Coneflower, Cut-leaved	Rudbeckia laciniata				()	()					
Coneflower, Eastern Purple*	Echinacea purpurea				P			we have a second se		Black Swallowtail Butterfly American Lady Butterfly	Long-horned Bees Mining Bees
Coneflower, Gray-headed Prairie*	Ratibida pinnata				()		*		Large flower head creates landing pad		
Coneflower, Pale Purple*	Echinacea pallida				P	P	D				
Coreopsis, Lance-leaved	Coreopsis lanceolata				Y	Ŷ	淼		Large flower head with easy access to nectar	Orange Sulphur Butterfly Viceroy Butterfly	Miner Bees, e.g. Coreopsis Miner Bee^ Small Carpenter Bees
Culver's Root*	Veronicastrum virginicum				W		*		Continuous access to nectar as plants bloom from bottom to top	Culver's Root Borer Moth*** Aphrodite Fritillary Butterfly	Green Sweat Bees Leafcutter Bees

Bloom Time: Early: April-June Mid: June-August Late: August-October

Bloom Colour: 10 red O orange Y yellow G green 13 blue P purple 10 pink W white

Flower Shape: 😂 simple 🔌 tube 🗶 lipped 🎇 daisy-like 🕴 spike 🍟 cluster

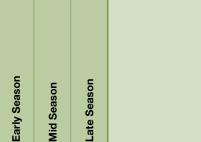
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*** Use plants as host plant.



Mining Bee on Goldenrod



Prairie Meadow

Woodland







Coneflower



Primrose Moth on Evening Primrose Mourning Cloak Butterfly Leafcutter Bee on

Bumble Bee on Joe Pye Weed

Common Name	Scientific Name		ant nunity**	В	loom Ti	me	Flower Shape	Notes	Examples of Butterfly and Moth Users	Examples of Bee Users
Evening Primrose, Common	Oenothera biennis				()		\$	Opens in the evening with a sweet smell	Primrose Moth*** Waved Sphinx Moth	Mining Bees, e.g. Anthophora abrupta^ Bumble Bees
False Soloman's-seal	Maianthemum racemosum			W				langada visit maatlu fay nallan	White Triangle Tortrix Moth***	Bumble Bees
False Soloman's-seal, Star-flowered	Maianthemum stellatum			W			\$	Insects visit mostly for pollen	Northern Azure Butterfly	Sweat Bees
Fireweed*	Chamerion angustifolium				2	P	*	Long-tongued bees get nectar; short-tongued bees get pollen	White-lined Sphinx Moth*** Hummingbird Clearwing Moth	Bumble Bees Sweat Bees
Geranium, Wild	Geranium maculatum			P			\$	Dark lines on petals act as nectar guides	White-marked Tussock Moth*** Mourning Cloak Butterfly	Mining Bees, e.g. Andrena distans^ Sweat Bees
Goldenrod, Blue-stemmed	Solidago caesia					Y				
Goldenrod, Early	Solidago juncea				()	Y				
Goldenrod, Gray	Solidago nemoralis ssp. nemoralis					Y	* *	Numerous shallow flowers provide abundant nectar	Goldenrod Flower Moth*** Pearl Crescent Butterfly	Mining Bees, e.g. Hairy-banded Andrena^ Cellophane Bees
Goldenrod, Stiff*	Solidago rigida ssp. rigida					Y				
Goldenrod, Zigzag	Solidago flexicaulis					Y				
Joe Pye Weed, Spotted	Eutrochium maculatum var. maculatum					•	₩	Produces large quantities of nectar	Ruby Tiger Moth*** Red-spotted Purple Butterfly	Bumble Bees Cuckoo Bees
Leek, Wild	Allium tricoccum var. tricoccum	•		W			\$ *	Long anthers easily transfer pollen to bees' backs	Eastern Tailed Blue Butterfly Question Mark Butterfly	Cellophane Bees Leafcutter Bees

Bloom Time: Early: April-June Mid: June-August Late: August-October

Bloom Colour: 10 red O orange Y yellow G green 13 blue P purple 10 pink W white

Flower Shape: Simple ktube klipped kaisy-like spike tuber

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*** Use plants as host plant.



Canadian Owlet Moth Caterpillar on Meadow-rue

Prairie Meadow

Voodland

Early Season

Mid Season

Late Season





Leafcutter Bee on





Great Spangled Fritillary Butterfly on Common Milkweed

Silvery Blue Butterfly Common Milkweed

Yellow Bumble Bee on Canada Milk-vetch

Common Name	Scientific Name		ant 1unity**	В	loom Time	Flower Shape		Notes	Examples of Butterfly and Moth Users	Examples of Bee Users
Lupine, Wild*	Lupinus perennis			Ø		K		Large bees pry open petals allowing smaller bees to visit later	Karner Blue Butterfly (Extirpated)*** Wild Indigo Duskywing Butterfly***	Bumble Bees Mason Bees
Mayflower, Canada	Maianthemum canadense	•		Ŵ		\$		Insects visit mostly for pollen	White Triangle Tortrix Moth*** Northern Azure Butterfly	Bumble Bees Sweat Bees
Meadow-rue, Early	Thalictrum dioicum			G		• SVA		Male plants produce large amounts of	Canadian Owlet Moth***	Sweat Bees, e.g. Bronze Sweat Bee^
Meadow-rue, Tall	Thalictrum pubescens				W	\$ *		pollen	Crocus Geometer Moth***	Bumble Bees
Milk-vetch, Canada*	Astragalus canadensis				Y	K		Bees may bite holes in the back of flowers to rob nectar	Clouded Sulphur Butterfly*** Eastern-tailed Blue Butterfly***	Bumble Bees Leafcutter Bees
Milkweed, Butterfly*	Asclepias tuberosa				0					
Milkweed, Common	Asclepias syriaca				2	₩		Sticky pollen sacs known as pollinia attach to the legs of large bees	Monarch Butterfly*** Great Spangled Fritillary Butterfly	Cuckoo Bees Leafcutter Bees
Milkweed, Swamp	Asclepias incarnata				2					
Onion, Nodding*	Allium cernuum				2	\$ *		Long anthers easily transfer pollen to the bees' backs	Eastern Tailed Blue Butterfly Edward's Hairstreak Butterfly	Cellophane Bees Leafcutter Bees
Phlox, Wild Blue*	Phlox divaricata			B		* *		Attracts long-tongued bees and butterflies	Tiger Swallowtail Butterfly*** Hummingbird Clearwing Moth	Bumble Bees Yellow-faced Bees
Silverweed, Common*	Potentilla anserina ssp. anserina				Y	\$]	Striking bullseye pattern that can only be seen by bees	Banded Hairstreak Butterfly Silvery Blue Butterfly	Mining Bees Yellow-faced Bees
Strawberry, Wild	Fragaria virginiana			W		\$		Distinct nectar guides are only seen by bees	Purple Lined Sallow Moth*** Bronze Copper Butterfly	Long-horned Bees Mining Bees

Bloom Time: Early: April-June Mid: June-August Late: August-October

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*** Use plants as host plant.



Common Wood Nymph Butterfly on Hoary Vervain











Leafcutter Bee

Sweat Bee on Coneflower

Common Name	Scientific Name	Pla Comm	Bl	oom Ti	me	Flower Shape		Notes	Examples of Butterfly and Moth Users	Examples of Bee Users
Sunflower, False*	Heliopsis helianthoides			Y						
Sunflower, Pale-leaved	Helianthus strumosus			Y	Y	*		Easy access leads to many visits;	Painted Lady Butterfly***	Sweat Bees, e.g. Dieunomia heteropoda ^
Sunflower, Tall*	Helianthus giganteus			Y	Ŷ	ĀĸĒ			Common Ringlet Butterfly	Long-horned Bees
Sunflower, Woodland	Helianthus divaricatus			Y	Ŷ					
Tick-trefoil, Showy*	Desmodium canadense			P		K		Large bees pry open petals allowing smaller bees to visit later	Northern Cloudywing Butterfly*** Orange Sulphur Butterfly***	Leafcutter Bees Small Resin Bees
Vervain, Blue	Verbena hastata			P				Continuous access to nectar as plants bloom from bottom to top	Common Buckeye Butterfly*** Common Wood Nymph Butterfly	Long-horned Bees Mining Bees
Vervain, Hoary*	Verbena stricta			P						
Violet, Canada	Viola canadensis var. canadensis		W							Small Carpenter Bees Sweat Bees
Violet, Common Blue	Viola sororia		B							
Violet, Round-leaved Yellow*	Viola rotundifolia		Y			K		Dark lines on petals act as nectar guides	Giant Leopard Moth*** Great Spangled Fritillary Butterfly***	
Violet, Sweet White	Viola blanda		Ŵ							
Violet, Yellow	Viola pubescens		Ŷ							

Bloom Time: Early: April-June Mid: June-August Late: August-October

Bloom Colour: 10 red O orange Y yellow G green 13 blue P purple 10 pink W white

Flower Shape: Simple ktube klipped kaisy-like spike tuber

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*** Use plants as host plant.

Plants Used by Butterflies and Caterpillars

These are some common plants used by butterflies for nectar and by caterpillars as food in the Toronto area. This list is not comprehensive. Where several species (spp.) in a genus are suitable, only the genus name is given (e.g., *Asclepias* spp. for various milkweed species). The status of different species in a genus may vary (i.e., some may be invasive while others are not). **Some species may not be suitable in a butterfly garden because they can be aggressive or invasive.** For information on plants recommended for butterfly gardening, please see the Select Butterfly Resources starting on page 61.

- Native plants grew in our area before the arrival of Europeans.
- Cultivated plants are introduced species that grow in our area only with human assistance.
- Naturalized plants are introduced species that survive without human assistance and now reproduce here.
- **Invasive** plants are naturalized species that negatively impact native biodiversity by reproducing aggressively and taking over natural habitats, to the exclusion of other plants.

spp. = various species in the genus

Caterpillar Plants (Host Plants)

	Common Name	Scientific Name	Species whose caterpillars use this plant
• •	speckled alder	Alnus incana	Harvester (woolly aphids)
•	hog peanut	Amphicarpaea bracteata	Silver-spotted Skipper, Northern Cloudywing
•	pearly everlasting	Anaphalis margaritacea	American Lady
•	bluestem	Andropogon spp.	Leonard's Skipper, Crossline Skipper, Delaware Skipper, Common Wood-Nymph
•	dill	Anethum graveolens	Black Swallowtail
•	burdock	Arctium spp.	Painted Lady
•	Dutchman's pipe	Aristolochia durior	Pipevine Swallowtail
•	milkweed	Asclepias spp.	Monarch
• • •	birch	Betula spp.	Compton Tortoiseshell
• • •	thistle	Carduus spp., Cirsium spp.	Painted Lady
•	sedge	Carex spp.	Broad-winged Skipper, Black Dash, Dion Skipper, Dun Skipper, Eyed Brown
•	New Jersey tea	Ceanothus americanus	Mottled Duskywing, Summer Azure
•	hackberry	Celtis occidentalis	American Snout, Tawny Emperor, Question Mark
••	turtlehead	Chelone spp.	Baltimore Checkerspot
• •	dogwood	Cornus spp.	Spring Azure, Summer Azure
•	crown vetch	Coronilla varia	Wild Indigo Duskywing
•	native hawthorn	Crataegus spp.	Striped Hairstreak, White Admiral/Red-spotted
			Purple
•	Queen Anne's lace	Daucus carota	Black Swallowtail
•	tick trefoil	Desmodium spp.	Northern Cloudywing, Eastern Tailed-Blue
•	fennel	Foeniculum vulgare	Black Swallowtail





photo: Bill O'Nei



	Common Name	Scientific Name	Species whose caterpillars use this plant	
	gerardia	Gerardia spp.	Common Buckeye	
•	 wild sunflower 	Helianthus spp.	Silvery Checkerspot	X IV
•	butter-and-eggs	Linaria vulgaris	Common Buckeye	
•	wild lupine	Lupinus perennis	Wild Indigo Duskywing, Karner Blue	
•	opple '	Malus spp.	White Admiral/Red-spotted Purple	
•	alfalfa	Medicago sativa	Clouded Sulphur, Orange Sulphur, Eastern Tailed-Blue	
•	sweet-clover	Melilotus spp.	Orange Sulphur, Summer Azure, Silvery Blue	
•	panic grass	Panicum spp.	Tawny-edged Skipper, Northern Broken-Dash, Hobomok Skipper	
	parsley	Petroselinum crispum	Black Swallowtail	
•	timothy	Phleum pratense	European Skipper, Long Dash	
•	ninebark	Physocarpus opulifolius	Spring Azure, Summer Azure	CYNNA U U
•	English plantain	Plantago lanceolata	Common Buckeye	
•	native pine	Pinus spp.	Eastern Pine Elfin	
٠	bluegrass	Poa pratensis	Long Dash, Hobomok Skipper, Common Ringlet, Little Wood-Satyr	
•	native poplar	Populus spp.	Dreamy Duskywing, Canadian Tiger Swallowtail, Red-spotted Purple/White Admiral, Viceroy	
•	 cherry/plum 	Prunus spp.	Canadian Tiger Swallowtail, Eastern Tiger Swallowtail, Coral Hairstreak, Striped Hairstreak, Spring Azure, Cherry Gall Azure, Red-spotted Purple/White Admiral	E Barrie
•	hoptree	Ptelea trifoliata	Giant Swallowtail	The second se
•	• oak	Quercus spp.	Juvenal's Duskywing, Edwards' Hairstreak, Banded Hairstreak	
٠	black locust	Robinia pseudoacacia	Silver-spotted Skipper	
•	curled dock	Rumex crispus	American Copper, Bronze Copper	
•	sheep sorrel	Rumex acetosella	American Copper	
•	rue	Ruta graveolens	Black Swallowtail, Giant Swallowtail	
•	• willow	Salix spp.	Dreamy Duskywing, Red-spotted Purple/White Admiral, Viceroy, Compton Tortoiseshell, Mourning Cloak, Green Comma	
٠	sassafras	Sassafras albidum	Spicebush Swallowtail	1.00
•	wild mustard	Sinapis arvensis spp.	Mustard White	
•	aster	Symphyotrichum spp.	Pearl Crescent, Northern Crescent	
•	clover	Trifolium spp.	Clouded Sulphur, Eastern Tailed-Blue	
•	elm elm	Ulmus spp.	Mourning Cloak, Question Mark, Eastern Comma	
	• nettle	Urtica spp., Laportea spp.	Red Admiral, Milbert's Tortoiseshell, Question Mark, Eastern Comma	
	viburnum	Viburnum spp.	Spring Azure, Summer Azure	
•	• vetch	Vicia spp.	Clouded Sulphur, Orange Sulphur, Eastern Tailed-Blue, Silvery Blue	
•	• violet	Viola spp.	Variegated Fritillary, Silver-bordered Fritillary, Meadow Fritillary, Great Spangled Fritillary	CT I
•	pansy	Viola wittrockiana	Variegated Fritillary	
٠	prickly ash	Zanthoxylum americanum	Giant Swallowtail	











Nectar Plants SPRING FLOWERING (March – early June)

	Common Name	Scientific Name
• •	serviceberry	Amelanchier spp.
••	dogwood	Cornus spp.
• • •	hawthorn	Crataegus spp.
•	fleabane	Erigeron spp.
•	wild strawberry	Fragaria virginiana
•	dame's rocket	Hesperis matronalis
• •	apple	Malus spp.
•	ninebark	Physocarpus opulifolius
• • •	buttercup	Ranunculus spp.
••	blackberry/raspberry	Rubus spp.
•	elderberry	Sambucus spp.
•	cup plant	Silphium perfoliatum
•	lilac	Syringa spp.
•	dandelion	Taraxacum officinale
•	coltsfoot	Tussilago farfara
• •	thyme	Thymus spp.
• • •	viburnum	Viburnum spp.
••	violet	Viola spp.

SUMMER FLOWERING (June – August)

	Common Name	Scientific Name
•	chives	Allium schoenoprasum
	dogbane	Apocynum spp.
	milkweed	Asclepias spp.
	butterfly bush	Buddleja davidii
	virgin's bower	Clematis virginiana
	coreopsis	Coreopsis spp.
	purple coneflower	Echinacea spp.
	Joe-Pye weed	Eupatorium purpureum
	heliotrope	Heliotropium spp.
	lantana	Lantana spp.
	blazing star	Liatris spp.
	purple loosestrife	Lythrum salicana
	alfalfa	Medicago sativa
	sweet-clover	Melilotus spp.
	mint	Mentha spp.
	bee-balm	Monarda didyma
	wild bergamot	Monarda fistulosa

SUMMER FLOWERING (June – August, cont'd)

	Common Name	Scientific Name
•	catnip	Nepeta cataria
••	phlox	Phlox spp.
••	cinquefoil	Potentilla spp.
•••	buttercup	Ranunculus spp.
••	prairie coneflower	Ratibida spp.
•	staghorn sumac	Rhus typhina
••	black-eyed Susan	Rudbeckia hirta
••	tall coneflower	Rudbeckia laciniata
• •	brown-eyed coneflower	Rudbeckia triloba
•	rue	Ruta graveolens
•	salvia	Salvia spp.
•	scabiosa	Scabiosa spp.
•	clover	Trifolium spp.
•	heliotrope	Valeriana officinalis
• •	vervain	Verbena spp.
••	ironweed	Vernonia spp.
•	zinnia	Zinnia spp.

FALL FLOWERING (September – October)

	Common Name	Scientific Name
•	spotted knapweed	Centaurea maculosa
••	boneset	Eupatorium perfoliatum
•	showy stonecrop	Sedum spectabile
•	goldenrod	Solidago spp.
••	aster	Symphyotrichum spp.

