

# SPRING IN THE GREAT SMOKY MOUNTAINS

APRIL 24 – MAY 1 , 2005

**LEADERS:**  
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This was the fourth birds and botany trip offered by Victor Emanuel Nature Tours to this area. The itinerary followed previous trips and included Sharp's Ridge Memorial Park in Knoxville, Seven Islands Wildlife Refuge, and numerous areas inside and around the border of the park itself. We began mostly at low elevations and then, by traveling to higher elevations, gradually experienced a reversal of Spring, ending with an early Spring plants and birds at the highest elevations. This spring was unusually cold and rainy although the rain did not appreciably affect our activities; the cool temperatures sent us scurrying for jackets and gloves.

The botanical diversity in the park is daunting, the highest anywhere, for the size of the area, in North America. We searched for flowers and plants at every turn, inside and outside of the park and, despite the cool temperatures, ended the trip with the longest list of plants to date. Bird were generally more difficult to see in the park than in disturbed areas outside the park and our best viewing, in most cases was outside of the park. Sharp's Ridge was particularly nice this year, providing opportunities to see a number of migrant warblers.

I was very pleased by some of our botanical finds, among them Pink Lady-Slipper orchids, Large Yellow Lady-Slipper Orchids, many Trilliums (the most ever including Vasey's and Nodding trilliums), carpets of phacelias, Dutchman's Pipe, Spotted Mandarin, Shrub Yellowroot, and more. I am especially indebted to Pat for help with wildflower identifications.

The smokies also provides a rare opportunity to stand in the shade of some beautiful old growth forest, where one can view immense yellow birch, buckeye, beech and maple trees. Once virtually blanketing the eastern half of the continent, such remnants now survive in few places outside of this park and, but for the work and foresight of a few, we and our future generations might never have been able to experience this magnificent sight. May your travels always include many birds and flowers!

### ITINERARY

- Day 1. Arrival in Knoxville, Tennessee, and check in to Hotel
- Day 2. Sharp's Ridge Memorial Park; Seven Islands Wildlife Area; and Chestnut Tops Trail
- Day 3. Cades's Cove Loop drive, and Rich Mountain Road
- Day 4. Morning at Cove Hardwood Trail; afternoon at Porter's Creek Trail
- Day 5. Newfound Gap, Clingman's Dome, and the Blue Ridge parkway to Mt. Pisgah area
- Day 6. Birding and botanizing along the Blue Ridge Parkway. Return to Townsend
- Day 7. Schoolhouse Gap trail and White Oak Sink Trail in morning; afternoon on Rich Mountain
- Day 8. Morning transfer to airport for mid-day flights home

### CHECKLIST OF BIRDS (\*\* heard only)

Double-crested Cormorant, *Phalacrocorax auratus*, Sharp's Ridge  
Canada Goose, *Branta canadensis*, Almost daily in Townsend  
Wood Duck, *Aix sponsa*, sewage lagoons at Cade's Cove  
Turkey Vulture, *Cathartes aura*, 12+ migr's over Sharp's Ridge; etc.  
Red-tailed Hawk, *Buteo jamaicensis*, Seven Islands and Sevierville  
**Bald Eagle**, *Haliaeetus leucocephalus*, 1 adult over Seven Islands  
Osprey, *Pandion haliaetus*, 1 at Seven Islands Refuge  
Wild Turkey, *Meleagris gallopavo*, Seen all but two days  
Solitary Sandpiper, *Tringa solitaria*, Cade's Cove Sewage Lagoons  
Spotted Sandpiper, *Actitis macularia*, Cade's Cove Sewage Lagoons  
Rock Dove, *Columba domestica*, Gatlinburg

Mourning Dove, *Zenaida macroura*, disturbed areas  
 \*Barred Owl, *Strix varia*, Hd on Rich Mts.  
Chimney Swift, *Chaetura pelagica*, 250+ migratory flock at Seven Isles.  
 Ruby-thr. Hummingbird, *Archilochus colubris*, 1 on Blue Ridge Pkway (SH only)  
 Belted Kingfisher, *Ceryle alcyon*, 1 flying at Metcalf Bottoms  
 Red-bellied Woodpecker, *Melanerpes carolinus*, hd in many areas; seen Rich Mts.  
 Hairy Woodpecker, *Picoides*, Sharp's Ridge; hd. elsewhere  
 Pileated Woodpecker, *Dryocopus pileatus*, seen on ground log at Metcalf Bottoms  
 Eastern Wood Pewee, *Contopus virens*, Hd. And seen on Sharp's Ridge  
 Eastern Phoebe, *Sayornis phoebe*, Almost daily  
 Eastern Kingbird, *Tyrannus tyrannus*, South end Cade's Cove (migrant?)  
 Red-eyed Vireo, *Vireo olivaceus*, all areas  
 Blue-headed Vireo, *Vireo solitarius*, Common, esp. at higher els.  
 Blue Jay, , *Cyanocitta cristata*, hd. daily; a few seen  
 Common Raven, *Corvus corax*, 1 seen on Blue Ridge Pkway (by 2 of us)  
 American Crow, *Corvus brachyrhynchos*, All elevations and areas  
 Northern Rough-winged Swallow, *Stelgidopteryx serripennis*, rivers  
 Tree Swallow, *Tachycineta bicolor*, Seven Islands; Cade's Cove  
 Barn Swallow, *Hirundo rustica*, Seven Islands, etc. and Newfoundland Gap  
 Tufted Titmouse, *Baeolophus bicolor*, all areas  
 Black-capped Chickadee, *Poecile atricapilla*, Upper elevations  
 Carolina Chickadee, *Poecile carolinensis*, Lower elevations  
 Red-breasted Nuthatch, *Sitta canadensis*, Upper elevations  
 \*White-breasted Nuthatch, *Sitta carolinensis*, hd. Cade's Cove  
 Carolina Wren, *Thryothorus ludovicianus*, hd everywhere; seen Schoolhouse Gap  
 \*Winter Wren, *Troglodytes troglodytes*, hd. on Appalachian Trail  
 Golden-crowned Kinglet, *Regulus satrapa*, Several; Newfound Gap etc.  
 Blue-gray Gnatcatcher, *Poliophtila caerulea*, Lower elevations  
 Eastern Bluebird, *Sialis sialis*, Seven Islands; Townsend, etc.  
 American Robin, *Turdus migratorius*, clearings, towns, etc.  
 \*Wood Thrush, *Hylocichla mustelina*, Hd. At Sharp's Ridge  
 Gray Catbird, *Dumatella carolinensis*, 1 at Smokin' Joe's  
 Northern Mockingbird, *Mimus polyglottos*, towns  
 Brown Thrasher, *Toxostoma rufum*, 1 at Smokin' Joe's  
 European Starling, *Sturnus vulgaris*, settled areas  
 Cedar Waxwing, *Bombycilla cedrorum*, Sharp's Ridge  
 Northern Parula, *Parula americana*, seen Metcalf Bottoms; hd many areas  
Blue-winged Warbler, *Vermivora pinus*, Sharp's Ridge (1 seen well)  
 Nashville Warbler, *Vermivora ruficapilla*, Sharp's Ridge (1)  
 \*Yellow Warbler, *Dendroica petechia*, hd. at Smokin' Joe's  
 Chestnut-sided Warbler, *Dendroica pensylvanica*, parkway; hd. Sharp's  
 Black-thr. Blue Warbler, *Dendroica caerulescens*, Cove Hardwood; parkway  
Cerulean Warbler, *Dendroica cerulea*, Sharp's Ridge (1 female; SH only?)  
 Blackburnian Warbler, *Dendroica fusca*, 1 at Newfoundland Gap  
 Yellow-rumped Warbler, *Dendroica coronata*, Many at Sharp's; also in park  
 Black-throated Green Warbler, *Dendroica virens*, Commonest warbler in park; all areas  
Prairie Warbler, *Dendroica discolor*, Sharp's Ridge (1)  
 Yellow-throated Warbler, *Dendroica dominica*, Metcalf Bottoms  
Worm-eating Warbler, *Helmitheros vermivora*, Rich Mt (only 1)  
 Black-and-white Warbler, *Mniotilta*, Rich Mt.; parkway  
 American Redstart, *Setophaga ruticilla*, Parkway (several)  
 Ovenbird, *Seiurus aurocapillus*, seen at Cove Hardwood; hd. daily

Louisiana Waterthrush, *Seiurus motacilla*, Cade's Cove; hd. all days  
 \*Canada Warbler, *Wilsonia canadensis*, hd on Parkway  
 Common Yellowthroat, *Geothlypis trichas*, Seven Isles.; hd. parkway (odd place)  
 Hooded Warbler, *Wilsonia citrina*, 4-5 seen in park lower els; hd. Sharp's  
 \*Yellow-breasted Chat, *Icteria virens*, Seven Islands (hd. only)  
 Scarlet Tanager, *Piranga olivacea*, Sharp's; also in park  
 Northern Cardinal, *Cardinalis cardinalis*, settled areas  
 Rose-breasted Grosbeak, *Pheucticus ludovicianus*, Several hd/seen on parkway  
 Indigo Bunting, *Passerina cyanea*, migratory flock at Sharp's and on Rich mt.  
 Rufous-sided Towhee, *Pipilo erythrophthalmus*, Sharp's Ridge; Parkway, etc.  
 Field Sparrow, *Spizella pusilla*, Seven Islands  
 Chipping Sparrow, *Spizella passerina*, Cade's Cove; parkway; etc.  
 White-throated Sparrow, *Zonotrichia albicollis*, Sharp's Ridge  
 Song Sparrow, *Melospiza melodia*, Daily around hotel, etc.  
 Dark-eyed Junco, *Junco hyemalis carolinensis*, High els. (white-billed form)  
 Eastern Meadowlark, *Sturnella magna*, Seven Islands  
 Brown-headed Cowbird, *Molothrus ater*, Seven Islands  
 Red-winged Blackbird, *Agelaius phoeniceus*, Seven Islands; Cade's Cove  
 Common Grackle, *Quiscalus quiscula*, settled areas  
 \*Baltimore Oriole, *Icterus galbula*, Smokin' Joe's  
 House Finch, *Carpodacus mexicanus*, Townsend  
 American Goldfinch, *Carduelis tristis*, First 2 days; last day  
 House Sparrow, *Passer domesticus*, settled areas

**MAMMALS**

Eastern Cottontail, Schoolhouse Gap trail  
**Eastern Chipmunk**, *Tamias striatus*, Pisgah Inn; Cove Hardwood  
 Gray Squirrel, *Sciurus carolinensis*, widespread at lower els.  
 Red Squirrel, *Tamiasciurus hudsonicus*, higher els. (common above 3500 ft)  
 White-tailed Deer, *Odocoileus virginianus*, too many at Cade's Cove

**LIST OF TREES, SHRUBS AND VINES**

[The following is an approximation of what we saw]

<b>Ground Pine</b> ( <i>not a woody plant</i> )	Division: Lycophyta; Family: Lycopodiaceae	
Genus: <i>Lycopodium</i>	Parkway etc.	
Allspice or Calycanthus Family	<b>Calycanthaceae</b>	
<b>Sweet Shrub (or Allspice)</b>	<i>Calycanthus floridus</i>	Rich Mt.
Ash Family	<b>Oleaceae</b>	
Green Ash	<i>Fraxinus americana</i>	Prob. this sp.
<b>Beech Family</b>	<b>Fagaceae</b>	
American Beech	<i>Fagus grandifolia</i>	
Common Alder	<i>Alnus serrulata</i>	Lower els.
American Chestnut	<i>Castanea dentate</i>	Sprouts; Parson's Creek

White Oak	<i>Quercus alba</i>	Sharp's Ridge
Scarlet Oak	<i>Quercus coccinea</i>	Sharp's; Rich Mt etc.
Southern Red Oak	<i>Quercus falcata</i>	Sharp's Ridge
Chestnut Oak	<i>Quercus montana</i>	Common/ widespread
Northern Red Oak	<i>Quercus rubra</i>	Lower els.
Black Oak		Lower els.
<b><i>Birch or Hazel Family</i></b>	<b><i>Betulaceae</i></b>	
River Birch	<i>Betula nigra</i>	River by Smokin' Joe's
Yellow Birch	<i>Betula alleghaniensis</i>	Cove Hardwood etc.
Ironwood; Musclewood	<i>Carpinus</i>	Widespread at lower els.
<b><i>Buckeye Family</i></b>	<b><i>Hippocastanaceae</i></b>	
Yellow Buckeye	<i>Aesculus flava</i>	Common at lower els.
<b><i>Cashew Family</i></b>	<b><i>Anacardiaceae</i></b>	
Smooth Sumac	<i>Rhus glabra</i>	
Poison Ivy	<i>Toxicodendron radicans</i>	
<b><i>Cedar Family</i></b>	<b><i>Cupressaceae</i></b>	
Eastern Red Cedar	<i>Juniperus virginiana</i>	
<b><i>Dogwood Family</i></b>	<b><i>Cornaceae</i></b>	
Flowering Dogwood	<i>Cornus florida</i>	
<b><i>Elm Family</i></b>	<b><i>Ulmaceae</i></b>	
Slippery Elm	<i>Ulmus rubra</i>	Metcalf Bottoms etc.
Winged Elm	<i>Ulmus alata</i>	Little River Road
Common Hackberry	<i>Celtis occidentalis</i>	Lower els.
<b><i>Figwort Family</i></b>	<b><i>Scrophulariaceae</i></b>	
Empress Tree	Paulownia	<i>Paulownia tomentosa</i>
Outside park		
<b><i>Ginseng Family</i></b>	<b><i>Araliaceae</i></b>	
Hercules' Club (Devil's Walking-Stick)	<i>Aralia spinosa</i>	Metcalf; Little River Rd. etc.
<b><i>Grape Family</i></b>	<b><i>Vitaceae</i></b>	
Virginia Creeper	<i>Parthenocissus quinquefolia</i>	
Summer Grape	<i>Vitis spp. (prob. aestivalis)</i>	
<b><i>Heath Family</i></b>	<b><i>Ericaceae</i></b>	
Mountain Laurel	<i>Kalmia latifolia</i>	None in flower
Dog-hobble	<i>Leucothoe fontanesiana</i>	Lower elevations
Deciduous Dog-hobble	<i>Leucothoe recurva</i>	Rocky areas on parkway
Pink Azalea	<i>Rhododendron prinophyllum</i>	None in flower
Catawba Rhododendron	<i>Rhododendron catawbiense</i>	Common; not in flower
Rosebay Rhododendron	<i>Rhododendron maximum</i>	Common; not in flower
Small-leaved Rhododendron	<i>Rhododendron minimum</i>	

Lowbush Blueberry	<i>Vaccinium pallidum</i>	Rich Mountain road
Fetterbush (Mountain Pieris)	<i>Pieris floribunda</i>	Blue Ridge Parkway
<b>Holly Family</b>	<b>Aquifoliaceae</b>	
American Holly	<i>Ilex opaca</i>	Lower elevations
<b>Honeysuckle Family</b>	<b>Caprifoliaceae</b>	
Japanese Honeysuckle	<i>Lonicera japonica</i>	Sharp's Ridge
Common Elder-Berry	<i>Sambucus canadensis</i>	Sharp's; lower els.
Witch-hobble	<i>Viburnum lantanoides</i>	Not in flower
<b>Lily Family</b>	<b>Liliaceae</b>	
greenbrier spp.	<i>Smilax spp.</i>	Widespread at lower els.
<b>Pine Family</b>	<b>Pinaceae</b>	
Fraser Fir	<i>Abies fraseri</i>	Clingman's
Red Spruce	<i>Picea rubens</i>	High els.
Eastern Hemlock	<i>Tsuga canadensis</i>	Low els.
Short-leaf Pine	<i>Pinus echinata</i>	Common; needles longer than next sp.
Virginia Pine	<i>Pinus virginiana</i>	Scrubby pine; short needles
Pine sp.	<i>Pinus /ridgeda</i>	Prob. this; difficult to ID.
White Pine	<i>Pinus strobes</i>	common
<b>Laurel Family</b>	<b>Lauraceae</b>	
Spicebush	<i>Lindera benzoin</i>	Lower els.
<b>Linden Family</b>	<b>Tiliaceae</b>	
White Basswood	<i>Tilia americana</i>	common
<b>Magnolia Family</b>	<b>Magnoliaceae</b>	
Yellow-Poplar	Tulip Tree	<i>Liriodendron tulipifera</i>
Flowering last day		
Umbrella Magnolia	<i>Magnolia tripetala</i>	Not in flower
Fraser Magnolia	<i>Magnolia acuminata</i>	Flowering on Rich Mt.
<b>Maple Family</b>	<b>Aceraceae</b>	
Box Elder	<i>Acer negundo</i>	Seven Islands
Sugar Maple	<i>Acer saccharum</i>	
Silver Maple	<i>Acer saccharinum</i>	Seven Islands
Red Maple	<i>Acer rubrum var. rubrum</i>	
Striped Maple	<i>Acer pensylvanicum</i>	small
<b>Mulberry Family</b>	<b>Moraceae</b>	
Red Mulberry	<i>Morus rubra</i>	Sharp's Ridge
<b>Pea Family</b>	<b>Legumosidae</b>	
Redbud	<i>Cercis canadensis</i>	Best Western Hotel
Yellow Wood	<i>Cladrastis kentuckea</i>	Rich Mts.
Black Locust	<i>Robinia pseudo-acacia</i>	

Clammy Locust	<i>Robinia viscosa</i>	Sharp's Ridge
Honey Locust	<i>Gleditsia triacanthos</i>	Seven Isl; etc.
<b><i>Plane Tree Family</i></b>	<b><i>Platanaceae</i></b>	
Sycamore	<i>Platanus occidentalis</i>	
<b><i>Rose Family</i></b>	<b><i>Rosaceae</i></b>	
Smooth Serviceberry	<i>Amelanchier sp. (laevis?)</i>	Commonest of the 3 spp.
Black Cherry	<i>Prunus serotina</i>	Parkway etc.
Blackberry	<i>Rubus alumnus</i>	Seven Islands; not in flower
Smooth Blackberry	<i>Rubus (canadensis?)</i>	Chestnut Tops (prob. this)
Northern Dewberry	<i>Rubus (flagellaris?)</i>	Flowering last day or two
<b><i>Saxfrage Family</i></b>	<b><i>Saxifragaceae</i></b>	
Wild Hydrangea	<i>Hydrangea arborescens</i>	Common; not in flower
Sassafras	<i>Sassafras albidum</i>	Sharp's etc.
<b><i>Storax Family</i></b>	<b><i>Styracaceae</i></b>	
Silverbell Tree	<i>Halesia tetraptera</i>	Lower and middle els.
<b><i>Trumpet Creeper Family</i></b>	<b><i>Bignoniaceae</i></b>	
Cross-Vine	<i>Bignonia capreolata</i>	Little River Rd.; etc.
<b><i>Walnut Family</i></b>	<b><i>Juglandaceae</i></b>	
Shagbark or Shellbark Hickory	<i>Carya sp.</i>	
Pignut Hickory	<i>Carya ovata</i>	
Black Walnut	<i>Juglans nigra</i>	
<b><i>Willow Family</i></b>	<b><i>Salicaceae</i></b>	
Eastern Cottonwood	<i>Populus deltoides</i>	
willow sp.	<i>Salix sp.</i>	Little River in Townsend
<b><i>Witch Hazel Family</i></b>	<b><i>Hamamelidaceae</i></b>	
Sweetgum	<i>Liquidambar styraciflua</i>	Seven Islands; Rich Mt.
Common Witch-Hazel	<i>Hamamelis virginiana</i>	Lower els.
<b><i>Yam Family</i></b>	<b><i>Dioscoreaceae</i></b>	
Wild Yam	<i>Dioscorea villosa</i>	

**LIST OF HERBACEOUS PLANTS**

Underlines are rare or of special interest

NIF = Not in flower

F = Flowering

<b><u>Monocots (alphabetical)</u></b>		
<b><i>Arum Family</i></b>	<b><i>Araceae</i></b>	
Jack-in-the-Pulpit	<i>Arisaema triphyllum (atrorubens)</i>	Many areas (F)

<b>Grass Family</b>	<b>Poaceae</b>	
Virginia Broomsedge	<i>Andropogon virginicus</i>	Cade's Cove
<b>Iris Family</b>	<b>Iridaceae</b>	
Dwarf Crested Iris	<i>Iris cristata</i>	Many places (F)
<b>Lily Family</b>	<b>Liliaceae</b>	
Wild Garlic, Wild Onion	<i>Allium canadense var. canadense</i>	
Ramps, Wild Leeks	<i>Allium tricoccum</i>	Parkway (NIF)
Speckled Wood Lily	<i>Clintonia umbellulata</i>	Porter Creek (NIF)
Yellow Mandarin	<i>Disporum lanuginosum</i>	Cove Hardwood (F)
Speckled Mandarin	<i>Disporum maculatum</i>	Rich Mt. (scarce; F)
Yellow Trout-lily	<i>Erythronium umbilicatum</i>	Parkway (F)
False Solomon's Seal	<i>Smilacina racemosa</i>	
Great Solomon's Seal	<i>Polygonatum biflorum</i>	
Catesby's Trillium	<i>Trillium cuneatum</i>	Schoolhse. Gap (F)
Vasey's Trillium	<i>Trillium vaseyi</i>	River trail; end of parkway (scarce;F)
Wake Robin	<i>Trillium erectum</i>	higher els. (F)
Large flowering Trillium	<i>Trillium grandiflorum</i>	Rich Mountain (F)
Sweet White Trillium	<i>Trillium simile</i>	Common (F)
Nodding Trillium	<i>Trillium cernuum</i>	River trail; end of parkway (F)
Yellow Trillium	<i>Trillium luteum</i>	Widespread (F)
Perfoliate Bellwort	<i>Uvularia perfoliata</i>	Rich Mountain (F)
Fairy Wand	<i>Chamaelirium luteum</i>	Schoolhouse Gap (F)
Sessile-flowered Bellwort	<i>Uvularia sessilifolia</i>	Rich Mt; also called Wild Oats (F)
<b>Yam Family</b>	<b>Dioscoreaceae</b>	
Wild Yam	<i>Dioscorea quaternata</i>	Chestnut tops (NIF)
<b><u>Dicots (alphabetical)</u></b>		
<b>Barberry Family</b>	<b>Berberidaceae</b>	
Blue Cohosh	<i>Caulophyllum thalictroides</i>	Cove Hardwoods etc
May-apple	<i>Podophyllum peltatum</i>	Widespread (F)
<b>Bean Family</b>	<b>Fabaceae</b>	
Hog-peanut (?)	<i>Amphicarpaea sp. (or ?)</i>	Rich mt. (NIF)
White Sweet-Clover	<i>Melilotus albus (or sp.?)</i>	(F)
Red Clover	<i>Trifolium pratense</i>	Roadsides (F)
Yellow Hop Clover	<i>Trifolium aureum</i>	Roadsides (F)
Wood Vetch or Carolina Vetch	<i>Vicia caroliniana</i>	Rich mts. Etc. (F)
Vetch sp.	<i>Vicia sp.</i>	Roadsides (F)

<b>Birchwort Family</b>	<b>Aristolochiaceae</b>	
Dutchman's Pipe or Pipevine	<i>Aristolochia</i>	Chestnut tops (F)
Wild Ginger	<i>Asarum canadense</i>	
Spotted Little Brown Jugs	<i>Hesastylis shuttleworthii</i>	Porter Creek (F)
<b>Broomrape Family</b>	<b>Orobanchaceae</b>	
Squawroot	<i>Conopholia americana</i>	Rich Mt.
One-flowered Cancer-root	<i>Orobanche uniflora</i>	Chestnut tops (F)
<b>Buttercup Family</b>	<b>Ranunculaceae</b>	
White Baneberry; Doll's Eyes	<i>Actaea pachypoda</i>	Schoolhse. Gap (F)
Black Snakeroot	<i>Cimicifuga racemosa</i>	Cove Hardwd.(NIF)
Sharp-lobed Hepatica	<i>Hepatica nobilis</i>	Widespread (NIF)
Hispid Buttercup	<i>Ranunculus hispidus</i>	Widespread (F)
Hooked Buttercup	<i>Ranunculus recurvatus</i>	Everywhere (F)
Early Meadow Rue	<i>Thalictrum dioicum</i>	Higher els. (F)
Rue Anemone	<i>Thalictrum thalictroides</i>	Chestnut tops etc.
Columbine	<i>Aquilegia canadensis</i>	Cliffs (F)
Shrub Yellowroot	<i>Xanthorhiza simplicissima</i>	End of parkway; wood base (F)
Dwarf Larkspur	<i>Delphinium tricorne</i>	Parkway (F)
<b>Diapensia Family</b>	<b>Diapensiaceae</b>	
Galax	<i>Galax urceolata</i>	Many areas (NIF)
<b>Figworts or Snapdragons</b>	<b>Scrophulariaceae</b>	
Wood Betony	<i>Pedicularis canadensis</i>	Parkway (NIF)
Moth Mullein	<i>Verbascum blattaria</i>	Roadsides (NIF)
Common Speedwell	<i>Veronica officinalis</i>	Seven Islands (F)
<b>Forget-me-not Family</b>	<b>Boraginaceae</b>	
Wild Comfrey	<i>Cynoglossum virginianum</i>	Cade's Cove (NIF)
<b>Fumitory Family</b>	<b>Fmariacea</b>	
Dutchman's Britches	<i>Dicentra cucullaria</i>	Higher els. (F)
Squirrel Corn	<i>Dicentra canadensis</i>	Higher els. (F)
<b>Geranium Family</b>	<b>Geraniaceae</b>	
Carolina Cranesbill	<i>Geranium carolinianum</i>	Roadsides (F)
Wild Geranium	<i>Geranium maculatum</i>	Mostly in park (F)
<b>Heath Family</b>	<b>Ericaceae</b>	
Trailing Arbutus	<i>Epigaea repens</i>	Parkway (F); Rich mts(NIF)
<b>Madder Family</b>	<b>Rubiaceae</b>	
bedstraw spp.	<i>Galium spp. (3+)</i>	Everywhere (F)
Long-leaved Bluets	<i>Houstonia longifolia</i>	(F)
Thyme-leaved Bluets	<i>Houstonia serpyllifolia</i>	(F)
Partridge-berry	<i>Mitchella repens</i>	(NIF)

<b>Mint Family</b>	<b>Lamiaceae</b>	
Purple Dead Nettle	<i>Lamium purpureum</i>	Roadsides (F)
Lyre-leaved Sage	<i>Salvia lyrata</i>	Roadsides (F)
<b>Mustard Family</b>	<b>Brassicaceae</b>	
Cut-leaved Toothwort	<i>Cardamine concatenata</i>	
Slender-leaf Toothwort	<i>Cardamine diphylla</i>	
Smooth Rock Cress	<i>Arabis laevisgata</i>	Rich Mt. (NIF)
Winter Cress or Yellow Rocket	<i>Barbarea vulgaris</i>	Roadsides (F)
Garlic Mustard	<i>Alliaria petiolata</i>	Chestnut tops (F)
<b>Nettle Family</b>	<b>Urticaceae</b>	
Wood-Nettle, Stinging	<i>Laportea canadensis</i>	(NIF)
<b>Orchid Family</b>	<b>Orchidaceae</b>	
<u>Pink Lady's Slipper</u>	<i>Cypripedium acaule</i>	Porter's Creek (F)
Showy Orchis	<i>Galearis spectabilis</i>	Many areas (F)
Downy Rattlesnake-Plantain	<i>Goodyera pubescens</i>	Many areas (NIF)
<u>Large Yellow Lady's Slipper</u>	<i>Cypripedium pubescens</i>	White Oak Sink (F)
Puttyroot	<i>Aplectrum hyemale</i>	Parkway (NIF)
<b>Parsley Family</b>	<b>Apiaceae (Umbelliferaceae )</b>	
Sweet Cicely	<i>Osmorhiza claytonii</i>	Widespread (F)
Meadow Parsnip (yellow flower)	<i>Thaspium trifolium flavum</i>	Widespread (F)
Meadow Parsnip (red flowers)	<i>T. trifolium trifolium</i>	River trail; end of parkway (F)
<b>Pink (Carnation) Family</b>	<b>Caryophyllaceae</b>	
Fire Pink	<i>Silene virginica</i>	Lower els. (F)
Great Chickweed	<i>Stellaria pubera</i>	Widespread (F)
Lesser Stitchwort	<i>Stellaria graminea (or media)</i>	Chestnut Tops (F)
<b>Phlox Family</b>	<b>Polemoniaceae</b>	
Phlox sp.	<i>Phlox stolonifera/divaricata</i>	Widespread (F)
<b>Plantain Family</b>	<b>Plantaginaceae</b>	
plantain spp.	<i>Plantago aristata or lanceolata</i>	Roadsides (NIF)
<b>Poppy Family</b>	<b>Papaveraceae</b>	
Bloodroot	<i>Sanguinaria canadensis</i>	Many areas (NIF)
<b>Purslane Family</b>	<b>Portulacaceae</b>	
Spring-beauty	<i>Claytonia caroliniana</i>	High elevations (F)
<b>Rose Family</b>	<b>Rosacea</b>	
Wild Strawberry	<i>Fragaria virginiana</i>	Rich mts. Etc. (F)

Common Cinquefoil	<i>Potentilla simplex</i>	Widespread (F)
<b>Saxifrage Family</b>	<b>Saxifragaceae</b>	
Alumroot	<i>Heuchera americana/villosa</i>	Flowering last day
Wild Hydrangea	<i>Hydrangea arborescens</i>	(NIF)
Miterwort (Bishop's Cap)	<i>Mitella diphylla</i>	Chestnut Tops (F)
Brook Lettuce	<i>S. micranthidifolia</i>	Streams (F)
Carey's Saxifrage	<i>S. careyana</i>	Chestnut Tops (F)
Michaux's Saxifrage	<i>S. michauxii</i>	Parkway (NIF)
Foamflower	<i>Tiarella cordifolia</i>	Common (F)
<b>Sedge Family</b>		
Plantain-leaf Sedge	<i>Carex plantaginea</i>	Chestnut Tops (F)
<b>Smartweed Family</b>	<b>Polygonaceae</b>	
Lady's Thumb	<i>Polygonum persicaria</i> (V on leaf)	Widespread (NIF)
Japanese Knotweed	<i>Polygonum cuspidatum</i> (this sp.?)	End of parkway (river trail); (NIF)
Curled Dock	<i>Rumex crispus</i>	Widespread (NIF)
<b>Sunflower Family</b>	<b>Asteraceae)</b>	
Pussy's Toes	<i>Antennaria plantaginifolia</i>	
Daisy Fleabane	<i>Erigeron strigosus</i>	Fields; waste areas
Robin's-plantain	<i>Erigeron pulchellus</i>	Roadsides (F)
Rattlesnake Hawkweed	<i>Hieracium venosum</i>	Chestnut tops (NIF)
Golden Ragwort	<i>Senecio anonymus</i>	Widespread (F)
Common Dandelion	<i>Taraxacum officinale</i>	
Sp not identified	<i>Rugelia</i> or <i>Cacalia</i>	Little River Rd (NIF)
Joe-Pye-Weed	<i>Eupatorium maculatum</i>	Porter Creek (NIF)
<b>Stonecrop Family</b>	<b>Crassulaceae</b>	
Wild Stonecrop	<i>Sedum ternatum</i>	Widespread (F)
<b>Touch-Me-Not Family</b>	<b>Balsaminaceae</b>	
Orange Jewelweed	<i>Impatiens capensis</i>	Common (NIF)
<b>Waterleaf Family</b>	<b>Hydrophyllaceae</b>	
Virginia Waterleaf	<i>Hydrophyllum virginianum</i>	Chestnut Tops (NIF)
Purple Phacelia	<i>Phacelia bispinnatifida</i>	Chestnut Tops (F)
Fringed Phacelia	<i>Phacelia fimbriata</i>	Cove Hardwd (F)
<b>Wood Sorrel Family</b>	<b>Oxalidaceae</b>	
Yellow Wood-sorrel	<i>Oxalis stricta</i>	(F)
Violet wood-sorrel	<i>Oxalis violacea</i>	Cade's Cove (F)
<b>Valerian Family</b>	<b>Valerianaceae</b>	
Corn Salad	<i>Valerianella radiata</i>	End of Parkway (F)
<b>Violet Family</b>	<b>Violaceae</b>	
Sweet White Violet	<i>Viola blanda</i>	Small plant (F)

Canadian Violet	<i>Viola canadensis</i>	Large plant (F)
Halbert-leaved Violet	<i>Viola hastate</i>	A few (F)
Beaked (Long-spured) Violet	<i>Viola rostrata</i>	widespread
Bird-s Foot Violet	<i>Viola pedata</i>	A few (F)
Common Blue Violet	<i>Viola sororia</i> or <i>papilionacea</i>	Widespread (F)
Smooth Yellow Violet	<i>Viola pubescens</i>	A few areas (F)
<b><i>Wintergreen Family</i></b>	<b><i>Pyrolaceae</i></b>	
Spotted Wintergreen or Pipsissewa	<i>Chimaphila maculata</i>	Schoolhouse Gap etc. (NIF)

Total miles driven: ca. 500