

**APPENDIX A**  
**SPECIES FOUND WITHIN THE WATERSHED**



Table A-1. Plants observed by Versar during 1996, September 1999, and June 2000 fieldwork in and around Ballenger Creek watershed, Frederick County, Maryland. An explanation of each wetland indicator status is located at the end of the table.

Scientific Name	Common Name	Wetland Indicator Status
<b>Herbs</b>		
<i>Achillia millefolium</i>	Yarrow	FACU
<i>Agrimonia parviflora</i>	Small flowered agrimony	FAC
<i>Agrostis alba</i>	Redtop	FACW
<i>Alliaria petiolata</i>	Garlic mustard	FACU-
<i>Ambrosia artemisiifolia</i>	Common ragweed	FACU
<i>Ambrosia trifida</i>	Great ragweed	FAC
<i>Angelica atropurpurea</i>	Angelica	OBL
<i>Arctium minus</i>	Common burdock	NI
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	FACW-
<i>Anthemis arvensis</i>	Field chamomile	NI
<i>Asclepias incarnata</i>	Common milkweed	NI
<i>Asclepias syriaca</i>	Swamp milkweed	OBL
<i>Asplenium platyneuron</i>	Ebony spleenwort	FACU
<i>Aster pilosus</i>	Heath aster	UPL
<i>Berberis thunbergii</i>	Japanese barberry	FACU
<i>Bidens coronata</i>	Tickseed sunflower	OBL
<i>Bidens frondosa</i>	Beggar ticks	FACW
<i>Bohemeria cylindrica</i>	False nettle	FACW+
<i>Botrychium oneidense</i>	Bluntlobe grapefern	NI
<i>Campanulastrum americana</i>	Tall bellflower	FAC
<i>Carex lurida</i>	Sallow sedge	OBL
<i>Chrysanthemum leucanthemum</i>	Ox-eye daisy	NI
<i>Cichorium intybus</i>	Chickory	NI
<i>Cimicifuga racemosa</i>	Black cohosh	NI
<i>Circaea quadrisulcata</i>	Enchanter's nighshade	FACU
<i>Cirsium arvense</i>	Canada thistle	FACU
<i>Cirsium discolor</i>	Field thistle	F
<i>Cirsium muticum</i>	Swamp thistle	OBL
<i>Commelina communis</i>	Asiatic dayflower	FAC-
<i>Coronilla varia</i>	Crown vetch	NI

Table A-1. (Continued)		
Scientific Name	Common Name	Wetland Indicator Status
<b>Herbs (Continued)</b>		
<i>Cuscuta gronovii</i>	Dodder	NI
<i>Cyperus erythrorhizos</i>	Red rooted sedge	FACW+
<i>Cyperus retrorsus</i>	Barren cyperus	FAC-
<i>Dactylis glomerata</i>	Orchard grass	FACU
<i>Daucus carota</i>	Wild carrot	NI
<i>Dianthus armeria</i>	Deptford pink	NI
<i>Dipsacus sylvestris</i>	Common teasle	NI
<i>Discorea villosa</i>	Common wild yam	FAC+
<i>Echinochloa crus-galli</i>	Barnyard grass	FACU
<i>Eleocharis obtusa</i>	Spike rush	OBL
<i>Equisetum arvense</i>	Field horsetail	FAC
<i>Eragrostis pectinacea</i>	Purple love grass	FAC
<i>Eupatorium coelestinum</i>	Mistflower	FAC
<i>Eupatoruim maculatum</i>	Spotted joe pye weed	FACW
<i>Eupatorium serotinum</i>	Late flowering boneset	FAC-
<i>Eupatorium perfoliatum</i>	Thoroughwort boneset	FACW+
<i>Eupatorium rugosum</i>	White snakeroot	NI
<i>Euphorbia corollata</i>	Flowering spurge	NI
<i>Euthamia graminifolia</i>	Grass-leaved goldenrod	FAC
<i>Festuca pratensis</i>	Meadow fescue	FACU-
<i>Fragaria vesca</i>	Wood strawberry	U
<i>Geum canadense</i>	White avens	FACU
<i>Glecoma hederacea</i>	Gill-over-the-ground	FACU
<i>Hydrocotyle americana</i>	American water pennywort	OBL
<i>Hypericum mutilum</i>	Dwarf St. Johns-wort	FACW
<i>Hypericum perforatum</i>	Common St. Johns-wort	NI
<i>Impatiens duthicae</i>	Jewelweed	FACW
<i>Impatiens capensis</i>	Jewelweed	FACW
<i>Ipomoea hederifolia</i>	Ivyleaf morning glory	NI
<i>Ipomoea lacunosa</i>	Small white morning glory	FACW
<i>Iris verna</i>	Vernal iris	OBL
<i>Juncus effusus</i>	Common rush	FACW+
<i>Juncus tenuis</i>	Slender rush	FAC-
<i>Lactuca biennis</i>	Tall blue lettuce	FACU-

Table A-1. (Continued)		
Scientific Name	Common Name	Wetland Indicator Status
<b>Herbs (Continued)</b>		
<i>Ligustrum vulgore</i>	Privet	FACU+
<i>Linaria vulgaris</i>	Butter-and-eggs	NI
<i>Lobelia cardinalis</i>	Cardinal flower	FACW+
<i>Lobelia inflata</i>	Indian tobacco	FACU
<i>Lonicera japonica</i>	Japanese honeysuckle	FAC-
<i>Lonicera morrowi</i>	Morrow's honeysuckle	F-
<i>Ludwigia palustris</i>	Water purslane	OBL
<i>Lychnis alba</i>	White campion	NI
<i>Lycopus virginicus</i>	Virginia bugleweed	OBL
<i>Lythrum salicaria</i>	Purple loosestrife	FACW+
<i>Maintheum racemosum</i>	False Solomon's seal	FACU-
<i>Mentha arvensis</i>	Wild mint	NI
<i>Mentha piperita</i>	Peppermint	FACW+
<i>Nepeta cataria</i>	Catnip	FACU
<i>Oenothera biennis</i>	Evening primrose	FACU-
<i>Onoclea sensibilis</i>	Sensitive fern	FACW
<i>Osmunda regalis</i>	Royal fern	OBL
<i>Oxalis eurapaea</i>	Yellow wood sorrel	NI
<i>Panicum virgatum</i>	Switchgrass	FAC
<i>Parthenocissus quinquefolia</i>	Virginia creeper	FACU
<i>Phalaris arundinacea</i>	Reed canary grass	FACW+
<i>Phlox maculata</i>	Sweet William	FACW
<i>Phragmites australis</i>	Common reed	FACW
<i>Phryma leptostachya</i>	Lopseed	UPL
<i>Physalis subglabrata</i>	Smooth ground cherry	NI
<i>Phytolacca americana</i>	Pokeweed	FACU+
<i>Pilea pumila</i>	Clearweed	FACW
<i>Plantago major</i>	Common plantain	FACU
<i>Podophyllum peltatum</i>	Mayapple	FACU
<i>Polygonatum cannaliculatum</i>	Great Soloman's seal	FACU
<i>Polygonum convolvulus</i>	Black bind weed	FACU
<i>Polygonum cuspidatum</i>	Japanese knotweed	FACU-
<i>Polygonum pennsylvanicum</i>	Pennsylvania smartweed	FACW
<i>Polygonum persicaria</i>	Lady's thumb	FACW

Table A-1. (Continued)

Scientific Name	Common Name	Wetland Indicator Status
<b>Herbs (Continued)</b>		
<i>Polygonum virginianum</i>	Jumpseed	FAC
<i>Polygonum punctatum</i>	Dotted smartweed	OBL
<i>Polystichum acrostichoides</i>	Christmas fern	FACU-
<i>Potentilla simplex</i>	Common cinquefoil	FACU-
<i>Ranunculus acris</i>	Tall buttercup	FAC+
<i>Rumex crispus</i>	Yellow dock	FACU
<i>Sanguinaria canadensis</i>	Bloodroot	FACUNI
<i>Saponaria officinalis</i>	Bouncing Bette	FACU-
<i>Schizachyrium scoparium</i>	Little bluestem grass	FACU
<i>Scirpus atrovirens</i>	Dark green bulrush	OBL
<i>Scirpus cyperinus</i>	Woolgrass	FACW+
<i>Setaria spp.</i>	Bristly fox tail grass	UPL
<i>Sicyos angulatus</i>	Bur cucumber	FACU
<i>Smilax rotundifolia</i>	Greenbriar	FAC
<i>Solanum carolinense</i>	Horse hettle	UPL
<i>Solanum dulcamara</i>	Bittersweet nightshade	FAC-
<i>Solidago rugosa</i>	Rough stemmed goldenrod	FAC
<i>Solidago canadensis</i>	Canada goldenrod	FACU
<i>Symplocarpus foetidus</i>	Skunk cabbage	OBL
<i>Thelypteris noveboracensis</i>	New York fern	FAC
<i>Tridens flavus</i>	Purple-top grass	FACU
<i>Trifolium arvense</i>	Rabbit's foot clover	UPL
<i>Typha latifolia</i>	Broad-leaved cattail	OBL
<i>Urtica dioica</i>	Stinging nettle	FACU
<i>Verbascum thapsus</i>	Common mullien	UPL
<i>Verbena hastata</i>	Blue vervain	FACW+
<i>Veronia noveboracensis</i>	New York iron weed	FACW+
<i>Xanthium pennsylvanicum</i>	Smooth-body cocklebur	NI

Table A-1. (Continued)		
Scientific Name	Common Name	Wetland Indicator Status
<b>Shrubs/Woody Vines</b>		
<i>Alnus rugosa</i>	Speckled alder	FACW+
<i>Asimina triloba</i>	Pawpaw	FACU+
<i>Ligustrum vulgare</i>	Privet	FACU
<i>Lindera benzoin</i>	Spicebush	FACW-
<i>Lonicera morrowii</i>	Morrow's honeysuckle	NI
<i>Parthenocissus quinquefolia</i>	Virginia creeper	FACU
<i>Rhus copallina</i>	Shining sumac	FAC
<i>Rhus glabra</i>	Smooth sumac	NI
<i>Rhus typhina</i>	Staghorn sumac	NI
<i>Rosa multiflora</i>	Multiflora rose	FAC
<i>Rubus phoenicolasius</i>	Wineberry	NI
<i>Toxicodendron radicans</i>	Poison ivy	FAC
<i>Viburnum acerifolium</i>	Maple-leaved viburnum	UPL
<i>Viburnum dentatum</i>	Southern arrowwood	FAC
<i>Vitis labrusca</i>	Fox grape	FACU
<i>Vitis aestivalis</i>	Summer grape (silver)	FACU
<b>Trees</b>		
<i>Acer negundo</i>	Boxelder	FAC+
<i>Acer rubrum</i>	Red maple	FAC
<i>Acer saccharinum</i>	Silver maple	FACW
<i>Ailanthus altissima</i>	Tree of heaven	NI
<i>Betula nigra</i>	River birch	FACW
<i>Carpinus glabra</i>	Pignut hickory	FAC
<i>Carpinus caroliniana</i>	Musclewood	FAC
<i>Carya cordiformis</i>	Bitternut hickory	FACU+
<i>Catalpa bignonioides</i>	Common catalpa	UPL
<i>Celtis occidentalis</i>	Hackberry	FACU
<i>Cercis canadensis</i>	Redbud	FACW
<i>Cornus obliqua</i>	Silky dogwood	FACU-
<i>Fraxinus americana</i>	White ash	FACU
<i>Fraxinus americana</i> var. <i>biltmoreana</i>	Biltmore ash	NI
<i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i>	Green ash	FACW
<i>Fagus grandifolia</i>	American beech	FACU

Table A-1. (Continued)

Scientific Name	Common Name	Wetland Indicator Status
<b>Trees (Continued)</b>		
<i>Gleditsia triacanthos</i>	Honey locust	FAC-
<i>Juglans nigra</i>	Black walnut	FACU
<i>Liquidambar styraciflua</i>	Sweet gum	FAC
<i>Liriodendron tulipifera</i>	Tulip poplar	FACU
<i>Maclura pomifera</i>	Osage orange	UPL
<i>Morus alba</i>	White mulberry	UPL
<i>Plantanus occidentalis</i>	Sycamore	FACW-
<i>Populus deltoides</i>	Eastern cottonwood	FAC
<i>Prunus serotina</i>	Black cherry	FACU
<i>Prunus virginiana</i>	Choke cherry	FACU
<i>Quercus alba</i>	White oak	FACU-
<i>Quercus palustris</i>	Pin oak	FACW
<i>Quercus phellos</i>	Willow oak	FAC+
<i>Quercus prinus</i>	Chestnut oak	UPL
<i>Quercus velutina</i>	Black oak	NI
<i>Robinia pseudoacacia</i>	Black locust	FACU-
<i>Salix babylonica</i>	Weeping willow	FACW-
<i>Salix discolor</i>	Pussy willow	FACW
<i>Salix fragilis</i>	Crack willow	FAC+
<i>Salix nigra</i>	Black willow	FACW+
<i>Sassafras albidum</i>	Sassafras	FACU-
<i>Tilia americana</i>	Basswood	FACU
<i>Ulmus americana</i>	American elm	FACW-
<i>Ulmus rubra</i>	Slippery elm	FAC
Federal definitions (USACE 1987)		
OBL: Obligate Hydrophyte. Always found in wetlands (greater than 99%).		
FACW: Wet Facultative Hydrophyte. Usually found in wetlands (66-99% frequency).		
FAC: Facultative Hydrophyte. Sometimes found in wetlands (34-66% frequency).		
FACU: Dry Facultative Hydrophyte. Seldom found in wetlands (1-33% frequency).		
UPL: Upland Plant. Not found in wetlands in this region, but associated with wetlands elsewhere.		
<u>Modifiers:</u>		
+ Found at wetter end of frequency spectrum within the category		
- Found at drier end of frequency spectrum within the category		

Table A-2. Aquatic macroinvertebrates found within Ballenger Creek, Frederick County, Maryland					
Phylum	Class	Order	Family	Genus	Final ID
Annelida	Oligochaeta - earthworms	Haplotaxida	Lumbricidae		Lumbricidae
			Naididae	<i>Nais</i>	<i>Nais</i>
			Tubificidae	<i>Ophidonais</i>	<i>Ophidonais</i>
				<i>Branchiura</i>	<i>Branchiura</i>
				<i>Isochaetides</i>	<i>Isochaetides</i>
				<i>Limnodrilus</i>	<i>Limnodrilus</i>
	Hirudinea - leaches				
	Arhynchobdellida	Erpobdellidae		<i>Mooreobdella</i>	<i>Mooreobdella</i>
Arthropoda	Hexapoda - Insects	Coleoptera - beetles	Dryopidae	<i>Helichus</i>	<i>Helichus</i>
			Elmidae		Elmidae
				<i>Dubiraphia</i>	<i>Dubiraphia</i> sp.
				<i>Optioservus</i>	<i>Optioservus</i>
				<i>Stenelmis</i>	<i>Stenelmis</i>
			Psephenidae	<i>Psephenus</i>	<i>Psephenus</i>
	Diptera - flies				
		Ceratopogonidae		<i>Bezzia</i>	<i>Bezzia</i> group
				<i>Probezzia</i>	<i>Probezzia</i>
		Chironomidae		<i>Ablabesmyia</i>	<i>Ablabesmyia</i>
				<i>Brillia</i>	<i>Brillia</i>
				<i>Cardiocladius</i>	<i>Cardiocladius</i>
				<i>Cladotanytarsus</i>	<i>Cladotanytarsus</i>
				<i>Conchapelopia</i>	<i>Conchapelopia</i>
				<i>Cricotopus</i>	<i>Cricotopus</i>
				<i>Cricotopus/</i>	<i>Cricotopus/</i>
				<i>Orthocladius</i>	<i>Orthocladius</i> sp.
				<i>Cryptochironomus</i>	<i>Cryptochironomus</i>
				<i>Dicrotendipes</i>	<i>Dicrotendipes</i>
				<i>Diplocladius</i>	<i>Diplocladius</i>
				<i>Eukiefferiella</i>	<i>Eukiefferiella</i>
				<i>Hayesomyia</i>	<i>Hayesomyia</i>
				<i>Helopelopia</i>	<i>Helopelopia</i>
				<i>Micropsectra</i>	<i>Micropsectra</i>
				<i>Microtendipes</i>	<i>Microtendipes</i>
				<i>Nanocladius</i>	<i>Nanocladius</i>
				<i>Orthocladius</i>	<i>Orthocladius</i>
				<i>Pagastia</i>	<i>Pagastia</i>
				<i>Parakiefferiella</i>	<i>Parakiefferiella</i>
				<i>Parametriocnemus</i>	<i>Parametriocnemus</i>
				<i>Paratanytarsus</i>	<i>Paratanytarsus</i>
				<i>Paratendipes</i>	<i>Paratendipes</i>
				<i>Paratrachocladius</i>	<i>Paratrachocladius</i>
				<i>Polypedilum</i>	<i>Polypedilum</i>
				<i>Potthastia</i>	<i>Potthastia</i>
				<i>Psectrocladius</i>	<i>Prostoma</i>
				<i>Rheocricotopus</i>	<i>Rheocricotopus</i>

Table A-2. (Continued)

Phylum	Class	Order	Family	Genus	Final ID
				<i>Rheotanytarsus</i>	<i>Rheotanytarsus</i>
				<i>Tanytarsus</i>	<i>Tanytarsus</i>
				<i>Thienemanniella</i>	<i>Thienemanniella</i>
				<i>Tvetenia</i>	<i>Tvetenia</i>
			Empididae	<i>Hemerodromia</i>	<i>Hemerodromia</i>
			Simuliidae	<i>Simulium</i>	<i>Simulium</i>
			Tabanidae	<i>Chrysops</i>	<i>Chrysops</i>
			Tipulidae		Tipulidae
				<i>Antocha</i>	<i>Antocha</i>
				<i>Dicranota</i>	<i>Dicranota</i>
				<i>Hexatoma</i>	<i>Hexatoma</i>
		Ephemeroptera - mayflies			
			Baetidae		
				<i>Acentrella</i>	<i>Acentrella</i>
				<i>Baetis</i>	<i>Baetis</i>
			Ephemerellidae		Ephemerellidae
				<i>Ephemerella</i>	<i>Ephemerella</i>
			Ephemeridae	<i>Ephemera</i>	<i>Ephemera</i>
			Heptageniidae		Heptageniidae
				<i>Stenacron</i>	<i>Stenacron</i>
				<i>Stenonema</i>	<i>Stenonema</i>
		Odonata - dragonflies and damselflies			
			Coenagrionidae	<i>Argia</i>	<i>Argia</i>
		Trichoptera - caddisflies			
			Helicopsychidae	<i>Helicopsyche</i>	<i>Helicopsyche</i>
			Hydropsychidae		Hydropsychidae
				<i>Cheumatopsyche</i>	<i>Cheumatopsyche</i>
				<i>Hydropsyche</i>	<i>Hydropsyche</i>
			Limnephilidae		Limnephilidae
				<i>Goera</i>	<i>Goera</i>
			Philopotamidae	<i>Chimarra</i>	<i>Chimarra</i>
			Polycentropodidae	<i>Polycentropus</i>	<i>Polycentropus sp.</i>
			Psychomyiidae	<i>Psychomyia</i>	<i>Psychomyia</i>
Mollusca	Gastropoda - snails				
		Basommatophora	Ancylidae	<i>Ferrissia</i>	<i>Ferrissia</i>
	Malacostraca - scuds and crayfish				
		Amphipoda	Gammaridae	<i>Gammarus</i>	<i>Gammarus</i>
		Decapoda	Cambaridae		Cambaridae
	Pelecypoda - bivalves				
		Veneroida	Corbiculidae	<i>Corbicula</i>	<i>Corbicula fluminea</i>
			Sphaeriidae		Sphaeriidae
				<i>Pisidium</i>	<i>Pisidium</i>
				<i>Sphaerium</i>	<i>Sphaerium</i>
Platyhelminthes	Turbellaria - free-living flatworms				
		Tricladida	Planariidae	<i>Dugesia</i>	<i>Dugesia</i>

Table A-3. Fish found within Ballenger Creek, Frederick County, Maryland

Scientific Name	Common Name
<b>Anguillidae</b> <i>Anguilla rostrata</i>	<b>Freshwater eels</b> American eel
<b>Cyprinidae</b> <i>Campostoma anomalum</i> <i>Cyprinella spiloptera</i> <i>Exoglossum maxillingua</i> <i>Luxilus cornutus</i> <i>Notropis hudsonius</i> <i>Rhinichthys atratulus</i> <i>Rhinichthys cataractae</i> <i>Semotilus atromaculatus</i>	<b>Minnows</b> Central stoneroller Spotfin shiner Cutlips minnow Common shiner Spottail shiner Blacknose dace Longnose dace Creek chub
<b>Catostomidae</b> <i>Catostomus commersoni</i> <i>Hypentelium nigricans</i>	<b>Suckers</b> White sucker Northern hogsucker
<b>Cottidae</b> <i>Cottus bairdi</i> <i>Cottus girardi</i>	<b>Sculpins</b> Mottled sculpin Potomac sculpin
<b>Centrarchidae</b> <i>Ambloplites rupestris</i> <i>Lepomis auritus</i> <i>Lepomis cyanellus</i> <i>Lepomis gibbosus</i> <i>Lepomis macrochirus</i> <i>Micropterus salmoides</i>	<b>Sunfishes</b> Rock bass Redbreast sunfish Green sunfish Pumpkinseed sunfish Bluegill sunfish Largemouth bass
<b>Ictaluridae</b> <i>Ameiurus natalis</i>	<b>Bullhead Catfishes</b> Yellow bullhead
<b>Percidae</b> <i>Etheostoma flabellare</i> <i>Etheostoma olmstedii</i>	<b>Perches</b> Fantail darter Tessellated darter
<b>Salmonidae</b> <i>Salmo trutta</i>	<b>Trouts</b> Brown trout

Table A-4. Forty-seven species of mammals potentially occurring in the Ballenger Creek watershed of Frederick County, Maryland (Webster et al. 1985). Five species denoted by asterisk were identified by sight or evidence of sign in a field study conducted 20 July, 2000.

<b>FAMILY</b> <b>Genus/Species</b>	<b>COMMON NAME</b>
<b>DIDELPHIIDAE</b> <i>Didelphis marsupialis</i>	<b>OPOSSUMS</b> Opossum
<b>SORICIDAE</b> <i>Sorex cinereus</i> <i>Sorex longirostris</i> <i>Sorex hoyi</i> <i>Cryptotis parva</i> <i>Blarina brevicauda</i>	<b>SHREWS</b> Masked shrew Southeastern shrew Pygmy shrew Least shrew Northern short-tailed shrew
<b>TALPIDAE</b> <i>Condylura cristata</i> <i>Scalopus aquaticus</i>	<b>MOLES</b> Star-nosed mole Eastern mole
<b>VESPERTILIONIDAE</b> <i>Myotis lucifugus</i> <i>Myotis keenii</i> <i>Myotis leibii</i> <i>Lasionycteris noctivagans</i> <i>Pipistrellus subflavus</i> <i>Eptesicus fuscus</i> <i>Lasiurus borealis</i> <i>Lasiurus cinereus</i> <i>Nycticeius humeralis</i>	<b>PLAINNOSE BATS</b> Little brown myotis Keen's myotis Small-footed myotis Silver-haired bat Eastern pipistrelle Big brown bat Red bat Hoary bat Evening bat
<b>LEPORIDAE</b> <i>Sylvilagus floridanus</i> *	<b>HARES AND RABBITS</b> Eastern cottontail
<b>SCIURIDAE</b> <i>Tamias striatus</i> <i>Marmota monax</i> * <i>Sciurus carolinensis</i> * <i>Sciurus niger</i> <i>Tamiasciurus hudsonicus</i> <i>Glaucomys volans</i>	<b>SQUIRRELS</b> Eastern chipmunk Woodchuck Gray squirrel Fox squirrel Red squirrel Southern flying squirrel

Table A-4. (Continued)	
<b>FAMILY</b> <b>Genus/Species</b>	<b>COMMON NAME</b>
<b>CASTORIDAE</b> <i>Castor canadensis</i>	<b>BEAVERS</b> Beaver
<b>CRICETIDAE</b> <i>Reithrodontomys humulis</i> <i>Peromyscus maniculatus</i> <i>Peromyscus leucopus</i> <i>Neotoma floridana</i> <i>Microtus pennsylvanicus</i> <i>Microtus pinetorum</i> <i>Ondatra zibethicus</i> <i>Synaptomys cooperi</i>	<b>MICE, RATS, VOLES AND LEMMINGS</b> Eastern harvest mouse Deer mouse White-footed mouse Eastern woodrat Meadow vole Woodland vole Muskrat Southern bog lemming
<b>MURIDAE</b> <i>Rattus rattus</i> <i>Rattus norvegicus</i> <i>Mus musculus</i>	<b>OLD WORLD RATS AND MICE</b> Black rat Norway rat House mouse
<b>ZAPODIDAE</b> <i>Zapus hudsonius</i>	<b>JUMPING MICE</b> Meadow jumping mouse
<b>CANIDAE</b> <i>Vulpes vulpes</i> <i>Urocyon cinereoargenteus</i> <i>Canis latrans</i>	<b>WOLVES AND FOXES</b> Red fox Gray fox Coyote
<b>PROCYONIDAE</b> <i>Procyon lotor</i> *	<b>RACCOONS</b> Raccoon
<b>MUSTELIDAE</b> <i>Mustela frenata</i> <i>Mustela vison</i> <i>Mephitis mephitis</i> <i>Lutra canadensis</i>	<b>WEASELS, SKUNKS AND OTTERS</b> Long-tailed weasel Mink Striped skunk River otter
<b>FELIDAE</b> <i>Felis rufus</i>	<b>CATS</b> Bobcat
<b>CERVIDAE</b> <i>Odocoileus virginianus</i> *	<b>DEER</b> White-tailed deer

Table A-5. Seventy-four species of birds identified in Frederick County, Maryland by Versar field surveys conducted in recent years. Of these, forty were also identified within the Ballenger Creek watershed during a survey conducted 20 July, 2000 (denoted by asterisk).

<b>FAMILY: SUBFAMILY</b> <b>Species</b>	<b>COMMON NAME</b>
<b>ARDEIDAE</b> <i>Ardea herodias</i> * <i>Casmerodius albus</i> <i>Egretta thula</i> <i>Butorides virescens</i> *	<b>HERONS, BITTERNs</b> Great blue heron Great egret Snowy egret Green-backed heron
<b>ANATIDAE</b> <i>Branta canadensis</i> <i>Anas platyrhynchos</i>	<b>SWANS, GEESE, DUCKS</b> Canada goose Mallard
<b>CATHARTIDAE</b> <i>Coragyps atratus</i> <i>Cathartes aura</i> *	<b>AMERICAN VULTURES</b> Black vulture Turkey vulture
<b>ACCIPITRIDAE</b> <i>Circus cyaneus</i> <i>Accipiter striatus</i> <i>Buteo lineatus</i> <i>Buteo jamaicensis</i> *	<b>HAWKS, EAGLES, VULTURES</b> Northern harrier Sharp-shinned hawk Red-shouldered hawk Red-tailed hawk
<b>FALCONIDAE</b> <i>Falco sparverius</i> <i>Falco columbarius</i>	<b>FALCONS</b> American kestrel Merlin
<b>CHARADRIIDAE</b> <i>Charadrius vociferus</i>	<b>PLOVERS</b> Killdeer
<b>SCOLOPACIDAE</b> <i>Gallinago gallinago</i>	<b>WOODCOCK AND SNIPE</b> Common snipe
<b>COLUMBIDAE</b> <i>Zenaida macroura</i> * <i>Columba livia</i> *	<b>PIGEONS AND DOVES</b> Mourning dove Rock dove

Table A-5. (Continued)	
<b>FAMILY: SUBFAMILY</b> <b>Species</b>	<b>COMMON NAME</b>
<b>CUCULIDAE</b> <i>Coccyzus erythrophthalmus</i> <i>Coccyzus americanus</i> *	<b>CUCKOOS</b> Black-billed cuckoo Yellow-billed cuckoo
<b>APODIDAE</b> <i>Chaetura pelagica</i> *	<b>SWIFTS</b> Chimney swift
<b>ALCEDINIDAE</b> <i>Ceryle alcyon</i>	<b>KINGFISHERS</b> Belted kingfisher
<b>PICIDAE</b> <i>Melanerpes carolinus</i> * <i>Sphyrapicus varius</i> <i>Picoides pubescens</i> * <i>Picoides villosus</i> <i>Colaptes auratus</i> * <i>Dryocopus pileatus</i>	<b>WOODPECKERS</b> Red-bellied woodpecker Yellow-bellied sapsucker Downy woodpecker Hairy woodpecker Common flicker Pileated woodpecker
<b>TYRANNIDAE</b> <i>Contopus virens</i> * <i>Sayornis phoebe</i> <i>Miarchus crinitus</i> <i>Tyranus tyrannus</i> *	<b>FLYCATCHERS</b> Eastern wood-pewee Eastern phoebe Great crested flycatcher Eastern kingbird
<b>HIRUNDINIDAE</b> <i>Hirundo rustica</i> *	<b>SWALLOWS</b> Barn swallow
<b>CORVIDAE</b> <i>Cyanocitta cristata</i> * <i>Corvus brachyrhynchos</i> * <i>Corvus corax</i>	<b>JAYS, CROWS</b> Blue jay American crow Common raven
<b>PARIDAE</b> <i>Parus carolinensis</i> * <i>Parus bicolor</i> *	<b>TITMICE</b> Carolina chickadee Tufted titmouse

Table A-5. (Continued)	
<b>FAMILY: SUBFAMILY</b> <b>Species</b>	<b>COMMON NAME</b>
<b>SITTIDAE</b> <i>Sitta carolinensis</i> *	<b>NUTHATCHES</b> White-breasted nuthatch
<b>TROGLODYTIDAE</b> <i>Thryothorus ludovicianus</i> * <i>Troglodytes aedon</i> *	<b>WRENS</b> Carolina wren House wren
<b>MUSCICAPIDAE: SYLVIINAE</b> <i>Regulus calendula</i> <i>Poliophtila caerulea</i> *	<b>GNATCATCHERS, KINGLETS</b> Ruby-crowned kinglet Blue-gray gnatcatcher
<b>MUSCICAPIDAE: TURDINAE</b> <i>Sialia sialis</i> * <i>Hylocichla mustelina</i> * <i>Turdus migratorius</i> *	<b>THRUSHES, BLUEBIRDS</b> Eastern bluebird Wood thrush American robin
<b>MIMIDAE</b> <i>Dumetella carolinensis</i> * <i>Mimus polyglottos</i> * <i>Toxostoma rufum</i>	<b>MOCKINGBIRDS, THRASHERS</b> Gray catbird Northern mockingbird Brown thrasher
<b>BOMBYCILLIDAE</b> <i>Bombycilla cedrorum</i>	<b>WAXWINGS</b> Cedar waxwing
<b>STURNIDAE</b> <i>Sturnus vulgaris</i> *	<b>STARLINGS</b> European starling
<b>VIREONIDAE</b> <i>Vireo olivaceus</i> *	<b>VIREOS</b> Red-eyed vireo
<b>EMBERIZIDAE: PARULINAE</b> <i>Dendroica magnolia</i> <i>Denroica caerulescens</i> <i>Dendroica coronata</i> <i>Geothlypis trichas</i>	<b>WOOD WARBLERS</b> Magnolia warbler Black-throated blue warbler Yellow-rumped warbler Common yellowthroat

Table A-5. (Continued)	
<b>FAMILY: SUBFAMILY</b> <b>Species</b>	<b>COMMON NAME</b>
<b>EMBERIZIDAE: THRAUPINAE</b> <i>Piranga olivacea</i> *	<b>TANAGERS</b> Scarlet tanager
<b>EMBERIZIDAE: CARDINALINAE</b> <i>Cardinalis cardinalis</i> * <i>Passerina cyanea</i> *	<b>CARDINAL, GROSBEAKS</b> Northern cardinal Indigo bunting
<b>EMBERIZIDAE: EMBERIZINAE</b> <i>Pipilo erythrophthalmus</i> * <i>Spizella passerina</i> * <i>Spizella pusilla</i> <i>Ammodramus savannarum</i> <i>Melospiza melodia</i> * <i>Melospiza georgiana</i> <i>Zonotrichia albicollis</i> <i>Junco hyemalis</i>	<b>NEW WORLD SPARROWS, BUNTINGS</b> Rufous-sided towhee Chipping sparrow Field sparrow Grasshopper sparrow Song sparrow Swamp sparrow White-throated sparrow Dark-eyed junco
<b>EMBERIZIDAE: ICTERINAE</b> <i>Agelaius phoeniceus</i> * <i>Sturnella magna</i> <i>Quiscalus quiscula</i> * <i>Molothrus ater</i>	<b>BLACKBIRDS, ORIOLES</b> Red-winged blackbird Eastern meadowlark Common grackle Brown-headed cowbird
<b>FRINGILLIDAE</b> <i>Carpodacus mexicanus</i> * <i>Carduelis tristis</i> *	<b>FINCHES</b> House finch American goldfinch
<b>PASSERIDAE</b> <i>Passer domesticus</i> *	<b>OLD WORLD SPARROWS</b> House sparrow

