

Table 1. New York Breeding Bird Atlas List of Bird Species by Potential Habitats Found along Greenfield Sections of the Proposed Route

Family	Common Name	Scientific Name	NYS Legal Status	Location	Grassland Species ¹	Habitat Type ²								
						OF	MF	WW	SS	EM	OW	AG	RES/UR	GL
Accipitridae	Cooper's Hawk	<i>Accipiter cooperii</i>	Protected-Special Concern	Both			N,F,C	N,F,C						
Accipitridae	Northern Goshawk	<i>Accipiter gentilis</i>	Protected-Special Concern	Upland			N,F,C	N,F,C						
Accipitridae	Sharp-shinned Hawk	<i>Accipiter striatus</i>	Protected-Special Concern	Both			N,F,C	N,F,C						
Accipitridae	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Protected	Both		F	N,F,C	N,F,C	F	F	F	N,F	N,F	
Accipitridae	Red-shouldered Hawk	<i>Buteo lineatus</i>	Protected-Special Concern	Upland		F	N,F,C	N,F,C	F	F	F	F		
Accipitridae	Broad-winged Hawk	<i>Buteo platypterus</i>	Protected	Upland		F	N,F,C	N,F,C	F	F	F,C	F		
Accipitridae	Northern Harrier	<i>Circus cyaneus</i>	Threatened	Upland	X	N,F,C		N		N,F,C		N,F,C		N,F,C
Accipitridae	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Threatened	Upland			N,F,C	N,F,C			F			
Alaudidae	Horned Lark	<i>Eremophila alpestris</i>	Protected-Special Concern	Upland	X	N,F,C				N,F,C		N,F,C		N,F,C
Alcedinidae	Belted Kingfisher	<i>Ceryle alcyon</i>	Protected	Upland							N,F,C			
Anatidae	Wood Duck	<i>Aix sponsa</i>	Game Species	Both				N,F,C	F,C	F,C	F,C			
Anatidae	Blue-winged Teal	<i>Anas discors</i>	Game Species	Upland		N				N,F,C	F,C	N,F		N
Anatidae	Mallard	<i>Anas platyrhynchos</i>	Game Species	Both		C	C	F,C	F,C	N,F,C	F,C	N,C		
Anatidae	American Black Duck	<i>Anas rubripes</i>	Game Species	Both		C	C	F,C	F,C	N,F,C	F,C			
Anatidae	Gadwall	<i>Anas strepera</i>	Game Species	Both		N,C			N	N,F,C	F,C	N,F	N	N
Anatidae	Canada Goose	<i>Branta canadensis</i>	Game Species	Both						N,F,C	F,C			
Anatidae	Mute Swan	<i>Cygnus olor</i>	Protected	Upland							F,C			
Anatidae	Hooded Merganser	<i>Lophodytes cucullatus</i>	Game Species	Both				N,F,C	C	F,C	F,C			
Anatidae	Common Merganser	<i>Mergus merganser</i>	Game Species	Both				N			F,C			
Apodidae	Chimney Swift	<i>Chaetura pelagica</i>	Protected	Upland		N,F,C	N,F,C	N,F,C	F,C	F,C	F,C	F,C	N,F,C	
Ardeidae	Great Blue Heron	<i>Ardea herodias</i>	Protected	Both				N,F,C	F,C	F,C	N,F,C			
Ardeidae	American Bittern	<i>Botaurus lentiginosus</i>	Protected-Special Concern	Upland					F,C	N,F,C	F,C			
Ardeidae	Green Heron	<i>Butorides virescens</i>	Protected	Upland				N,F,C	F,C	F,C	F,C			
Ardeidae	Least Bittern	<i>Ixobrychus exilis</i>	Protected	Upland					F,C	N,F,C	F			
Ardeidae	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	Protected	Submarine										
Bombycillidae	Cedar Waxwing	<i>Bombycilla cedrorum</i>	Protected	Both		F,C	N,F,C	N,F,C					N,F,C	
Caprimulgidae	Whip-poor-will	<i>Caprimulgus vociferus</i>	Protected-Special Concern	Upland		F	N,F,C					F		F
Cardinalidae	Northern Cardinal	<i>Cardinalis cardinalis</i>	Protected	Upland		N,F,C			N,F,C			N,F,C	N,F,C	
Cardinalidae	Indigo Bunting	<i>Passerina cyanea</i>	Protected	Upland		N,F,C			N,F,C			N,F,C		
Cardinalidae	Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	Protected	Upland		N,F,C	N,F,C	N,F,C						
Cathartidae	Turkey Vulture	<i>Cathartes aura</i>	Protected	Upland		N,F	N,C	C				F	F	
Certhiidae	Brown Creeper	<i>Certhia americana</i>	Protected	Upland			N,F,C	N,F,C						
Charadriidae	Killdeer	<i>Charadrius vociferus</i>	Protected	Upland		N,F,C						N,F,C	N,F,C	
Columbidae	Rock Pigeon	<i>Columba livia</i>	Unprotected	Upland		F,C						N,F,C	N,F,C	
Columbidae	Mourning Dove	<i>Zenaidura macroura</i>	Protected	Upland		N,F,C						N,F,C	N,F,C	
Corvidae	American Crow	<i>Corvus brachyrhynchos</i>	Game Species	Upland		F,C	N,F,C	N,F,C				N,F,C	F,C	
Corvidae	Common Raven	<i>Corvus corax</i>	Protected	Upland			N,F,C							
Corvidae	Blue Jay	<i>Cyanocitta cristata</i>	Protected	Upland		F,C	N,F,C	N,F,C				N,F,C	N,F,C	
Cuculidae	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	Protected	Upland		N,F,C		N,F,C	N,F,C			N,F,C		
Cuculidae	Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	Protected	Upland		N,F,C	N,F,C	N,F,C	N,F,C			N,F,C		
Emberizidae	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Protected-Special Concern	Both	X	N,F,C			N			N,F		N,F,C
Emberizidae	Dark-eyed Junco	<i>Junco hyemalis</i>	Protected	Upland		N,F,C	N,F,C						N,F,C	
Emberizidae	Swamp Sparrow	<i>Melospiza georgiana</i>	Protected	Upland				N,F,C	N,F,C	N,F,C	F			
Emberizidae	Song Sparrow	<i>Melospiza melodia</i>	Protected	Both		N,F,C			N,F,C			N,F,C	N,F,C	
Emberizidae	Savannah Sparrow	<i>Passerculus sandwichensis</i>	Protected	Upland	X	N,F,C				N,F,C		N,F,C		N,F,C
Emberizidae	Eastern Towhee	<i>Pipilo erythrophthalmus</i>	Protected	Upland		N,F,C	N,F,C							
Emberizidae	Vesper Sparrow	<i>Pooecetes gramineus</i>	Protected-Special Concern	Upland	X	N,F,C								
Emberizidae	Clay-colored Sparrow	<i>Spizella pallida</i>	Protected	Upland		N,F,C			N,F,C				F,C	N,F,C
Emberizidae	Chipping Sparrow	<i>Spizella passerina</i>	Protected	Upland		N,F,C	N,C					N,F,C		
Emberizidae	Field Sparrow	<i>Spizella pusilla</i>	Protected	Upland		N,F,C								
Emberizidae	White-throated Sparrow	<i>Zonotrichia albicollis</i>	Protected	Upland		N,F,C	N,F,C						F,C	
Falconidae	American Kestrel	<i>Falco sparverius</i>	Protected	Upland		N,F,C	N,F,C					N,F		
Fringillidae	American Goldfinch	<i>Carduelis tristis</i>	Protected	Upland		N,F,C		N,F,C	N,F,C	F,C		N,F,C	N,F,C	
Fringillidae	House Finch	<i>Carpodacus mexicanus</i>	Protected	Upland		N,F,C						N,F,C	N,F,C	
Fringillidae	Purple Finch	<i>Carpodacus purpureus</i>	Protected	Upland			N,F,C							
Hirundinidae	Barn Swallow	<i>Hirundo rustica</i>	Protected	Both		F,C			F,C	F,C	F,C	N,F,C	N,F,C	
Hirundinidae	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	Protected	Upland					F,C	F,C	N,F,C	N,F,C	N,F,C	
Hirundinidae	Purple Martin	<i>Progne subis</i>	Protected	Upland		N,F,C						F,C	N,F,C	

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Hirundinidae	Bank Swallow	<i>Riparia riparia</i>	Protected	Upland					F,C	F,C	N,F,C		N,F,C		
Hirundinidae	Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	Protected	Upland				N	F,C	F,C	N,F,C		N,F,C		
Hirundinidae	Tree Swallow	<i>Tachycineta bicolor</i>	Protected	Both		F,C		N,F,C	F,C	F,C	F,C	F,C	N,F,C		
Icteridae	Bobolink	<i>Dolichonyx oryzivorus</i>	Protected	Upland	X	N,F,C			F,C	N,F,C		N,F,C		N,F	
Icteridae	Baltimore Oriole	<i>Icterus galbula</i>	Protected	Upland		N,F,C	N,F,C	N,F,C					F,C		
Icteridae	Orchard Oriole	<i>Icterus spurius</i>	Protected	Upland		N,F,C		N,F,C	N,F,C	F,C		F,C	N	F,C	
Icteridae	Brown-headed Cowbird	<i>Molothrus ater</i>	Protected	Upland		N,F,C	N,F,C								
Icteridae	Common Grackle	<i>Quiscalus quiscula</i>	Protected	Both		N,F,C	N,F,C					N,F,C	N,F,C		
Icteridae	Eastern Meadowlark	<i>Sturnella magna</i>	Protected	Upland	X	N,F,C						N,F,C		N,F,C	
Laridae	Black Tern	<i>Chlidonias niger</i>	Endangered	Upland				N,F,C	F,C	N,C	F,C	N,F			
Laridae	Herring Gull	<i>Larus argentatus</i>	Protected	Submarine											
Laridae	Ring-billed Gull	<i>Larus delawarensis</i>	Protected	Submarine											
Laridae	Great Black-backed Gull	<i>Larus marinus</i>	Protected	Submarine											
Laridae	Caspian Tern	<i>Sterna caspia</i>	Protected	Submarine											
Mimidae	Gray Catbird	<i>Dumetella carolinensis</i>	Protected	Upland		N,F,C			N,F,C	F,C		N,F,C	N,F,C		
Mimidae	Northern Mockingbird	<i>Mimus polyglottos</i>	Protected	Upland		F			N,F,C			N,F,C	N,F,C		
Mimidae	Brown Thrasher	<i>Toxostoma rufum</i>	Protected	Upland		N,F,C			N,F,C			N,F,C	N,F,C		
Paridae	Tufted Titmouse	<i>Baeolophus bicolor</i>	Protected	Upland		F,C	N,F,C	N,F,C	F,C	F,C		F	N,F,C		
Paridae	Black-capped Chickadee	<i>Poecile atricapillus</i>	Protected	Upland		F,C	N,F,C	N,F,C	F,C			F,C	F,C		
Parulidae	Yellow-rumped Warbler	<i>Dendroica coronata</i>	Protected	Upland		F,C	N,F,C								
Parulidae	Prairie Warbler	<i>Dendroica discolor</i>	Protected	Upland		N,F,C	F,C								
Parulidae	Blackburnian Warbler	<i>Dendroica fusca</i>	Protected	Upland			N,F,C								
Parulidae	Magnolia Warbler	<i>Dendroica magnolia</i>	Protected	Upland			N,F,C								
Parulidae	Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	Protected	Upland		N,F,C		N,F,C							
Parulidae	Yellow Warbler	<i>Dendroica petechia</i>	Protected	Both				N,F,C	N,F,C	F,C			N,F,C		
Parulidae	Pine Warbler	<i>Dendroica pinus</i>	Protected	Upland		N,F,C	F,C								
Parulidae	Black-throated Green Warbler	<i>Dendroica virens</i>	Protected	Upland			N,F,C		N,F,C						
Parulidae	Common Yellowthroat	<i>Geothlypis trichas</i>	Protected	Upland		N,F,C			N,F,C	N,F,C					
Parulidae	Black-and-white Warbler	<i>Mniotilta varia</i>	Protected	Upland			N,F,C								
Parulidae	Mourning Warbler	<i>Oporornis philadelphia</i>	Protected	Upland			N,F,C		N,F,C						
Parulidae	Ovenbird	<i>Seiurus aurocapilla</i>	Protected	Upland			N,F,C		N,F,C						
Parulidae	Louisiana Waterthrush	<i>Seiurus motacilla</i>	Protected	Upland				N,F,C	N,F,C	F,C	F				
Parulidae	Northern Waterthrush	<i>Seiurus noveboracensis</i>	Protected	Upland				N,F,C	F,C	N,F,C	F				
Parulidae	American Redstart	<i>Setophaga ruticilla</i>	Protected	Upland		N,F,C	N,F,C	N,F,C	N,F,C						
Parulidae	Golden-winged Warbler	<i>Vermivora chrysoptera</i>	Protected-Special Concern	Upland		N,F,C		N,F,C	N,F,C	F,C		N,F,C			
Parulidae	Blue-winged Warbler	<i>Vermivora pinus</i>	Protected	Upland		N,F,C			N,F,C	F,C					
Parulidae	Brewster's Warbler	<i>Vermivora pinus</i> x <i>V. chrysoptera</i>	Protected	Upland		N,F,C			N,F,C						
Parulidae	Nashville Warbler	<i>Vermivora ruficapilla</i>	Protected	Upland		N,F,C		N,F,C	N,F,C						
Parulidae	Canada Warbler	<i>Wilsonia canadensis</i>	Protected	Upland			N,F,C	N,F,C							
Parulidae	Hooded Warbler	<i>Wilsonia citrina</i>	Protected	Upland			N,F,C	N,F,C							
Passeridae	House Sparrow	<i>Passer domesticus</i>	Unprotected	Upland								N,F,C	N,F,C		
Phalacrocoracidae	Double-crested Cormorant	<i>Phalacrocorax auritus</i>	Protected	Submarine											
Phasianidae	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	Protected	Both					N,F,C	N,F,C	F	N,F,C	N,F,C		
Phasianidae	Ruffed Grouse	<i>Bonasa umbellus</i>	Game Species	Upland		F,C	N,F,C					F,C			
Phasianidae	Wild Turkey	<i>Meleagris gallopavo</i>	Game Species	Upland		F,C	N,F,C					F,C			
Phasianidae	Ring-necked Pheasant	<i>Phasianus colchicus</i>	Game Species	Upland	X	N,F,C						N,F,C		N,F,C	
Picidae	Northern Flicker	<i>Colaptes auratus</i>	Protected	Upland			N,F,C	N,F,C				N,F,C	F,C		
Picidae	Pileated Woodpecker	<i>Dryocopus pileatus</i>	Protected	Upland			N,F,C	N,F,C							
Picidae	Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	Protected	Upland			N,F,C	N,F,C					N,F,C		
Picidae	Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	Protected-Special Concern	Upland		F,C	N,F,C		F,C			F,C	F,C		
Picidae	Downy Woodpecker	<i>Picoides pubescens</i>	Protected	Upland		N,F,C	N,F,C	N,F,C	N,F,C			N,F,C	N,F,C		
Picidae	Hairy Woodpecker	<i>Picoides villosus</i>	Protected	Upland		N,F,C	N,F,C	N,F,C	N,F,C			N,F,C	F,C		
Picidae	Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	Protected	Upland			N,F,C	N,F,C							
Rallidae	Common Moorhen	<i>Gallinula chloropus</i>	Game Species	Upland						N,F,C	N,F,C	N,F,C			
Rallidae	Sora	<i>Porzana carolina</i>	Game Species	Upland						N,F,C	F,C				
Rallidae	Virginia Rail	<i>Rallus limicola</i>	Game Species	Upland						N,F,C	F,C				
Regulidae	Golden-crowned Kinglet	<i>Regulus satrapa</i>	Protected	Upland			N,F,C	N,F,C							
Scolopacidae	Spotted Sandpiper	<i>Actitis macularia</i>	Protected	Submarine											

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Scolopacidae	Upland Sandpiper	<i>Bartramia longicauda</i>	Threatened	Both	X	N,F,C						F	N,F,C	N,F,C
Scolopacidae	Wilson's Snipe	<i>Gallinago delicata</i>	Game Species	Upland				N,F,C	N,F,C	N,F,C				
Scolopacidae	American Woodcock	<i>Scolopax minor</i>	Game Species	Upland		N,F,C		F,C	N,F,C	F,C		N,F,C		
Sittidae	Red-breasted Nuthatch	<i>Sitta canadensis</i>	Protected	Upland			N,F,C	N,F,C						
Sittidae	White-breasted Nuthatch	<i>Sitta carolinensis</i>	Protected	Upland			N,F,C	N,F,C						
Strigidae	Great Horned Owl	<i>Bubo virginianus</i>	Protected	Upland		F,C	N,F,C	N,F,C	F,C	F,C				
Strigidae	Eastern Screech-Owl	<i>Megascops asio</i>	Protected	Upland		N,F,C	N,F,C	N,F,C				N,F,C	N,F,C	
Strigidae	Barred Owl	<i>Strix varia</i>	Protected	Upland			N,F,C	N,F,C						
Sturnidae	European Starling	<i>Sturnus vulgaris</i>	Unprotected	Both		N,F,C			N,F,C	F,C		N,F,C	N,F,C	
Sylviidae	Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>	Protected	Upland		N,F,C	N,F,C	N,F,C	N,F,C	F,C		N,F,C	N,F,C	
Thraupidae	Scarlet Tanager	<i>Piranga olivacea</i>	Protected	Upland			N,F,C							
Trochilidae	Ruby-throated Hummingbird	<i>Archilochus colubris</i>	Protected	Upland		F,C	N,F,C	N,F,C				N,F,C	N,F,C	
Troglodytidae	Marsh Wren	<i>Cistothorus palustris</i>	Protected	Upland						N,F,C	F,C			
Troglodytidae	Sedge Wren	<i>Cistothorus platensis</i>	Threatened	Upland		N,F			N	N		N,F		N,F
Troglodytidae	Carolina Wren	<i>Thryothorus ludovicianus</i>		Upland		N,F,C	N,C	N,C	F,C	F,C				
Troglodytidae	House Wren	<i>Troglodytes aedon</i>	Protected	Upland		N,F,C	N,C	N,C	N,F,C			N,F,C	N,F,C	
Troglodytidae	Winter Wren	<i>Troglodytes troglodytes</i>	Protected	Upland		N,F,C	N,F,C	N,F,C						
Turdidae	Veery	<i>Catharus fuscescens</i>	Protected	Upland			N,F,C	N,F,C						
Turdidae	Hermit Thrush	<i>Catharus guttatus</i>	Protected	Upland		N,F,C	N,F,C	N,F,C						
Turdidae	Wood Thrush	<i>Hylocichla mustelina</i>	Protected	Upland			N,F,C	N,F,C						
Turdidae	Eastern Bluebird	<i>Sialia sialis</i>	Protected	Upland		F,C	N,C	N,C	F,C			N,F,C	N,F,C	
Turdidae	American Robin	<i>Turdus migratorius</i>	Protected	Upland		N,F,C	N,F,C	N,F,C	N,F,C			N,F,C	N,F,C	
Tyrannidae	Eastern Wood-Pewee	<i>Contopus virens</i>	Protected	Upland		F,C	N,F,C	N,F,C						
Tyrannidae	Alder Flycatcher	<i>Empidonax alnorum</i>	Protected	Both					N,F,C	F,C	F,C			
Tyrannidae	Least Flycatcher	<i>Empidonax minimus</i>	Protected	Upland		N,F,C	F,C	F,C	N,F,C	F,C	F,C		N,F,C	
Tyrannidae	Willow Flycatcher	<i>Empidonax traillii</i>	Protected	Upland					N,F,C	F,C	F,C			
Tyrannidae	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	Protected	Upland		N,F,C	N,F,C	N,F,C				N,F,C	N,F,C	
Tyrannidae	Eastern Phoebe	<i>Sayornis phoebe</i>	Protected	Upland		N,F,C	N,F,C	N,F,C	F,C	F,C	F,C	N,F,C	N,F,C	
Tyrannidae	Eastern Kingbird	<i>Tyrannus tyrannus</i>	Protected	Both		F,C	N,F,C	N,F,C	F,C	F,C	F,C	F,C	N,F,C	
Vireonidae	Yellow-throated Vireo	<i>Vireo flavifrons</i>	Protected	Upland		F,C	N,F,C						N,F,C	
Vireonidae	Warbling Vireo	<i>Vireo gilvus</i>	Protected	Upland		F,C	N,F,C	N,F,C	F,C	F,C				
Vireonidae	Red-eyed Vireo	<i>Vireo olivaceus</i>	Protected	Upland			N,F,C	N,F,C					N,F,C	
Vireonidae	Blue-headed Vireo	<i>Vireo solitarius</i>	Protected	Upland			N,F,C							

Source: New York State Breeding Bird Atlas 2000 [Internet]. 2000 - 2005. Release 1.0. Albany (New York): New York State Department of Environmental Conservation. [updated 2007 Jun 11; cited 2008 Jun 17]. Available from: <http://www.dec.ny.gov/animals/7312.html>.

¹ Grassland species list based on Sauer, J. R., B. G. Peterjohn, S. Schwartz, and J. E. Hines. 1995. The Grassland Bird Home Page. Version 95.0. Patuxent Wildlife Research Center, Laurel, MD. Available from <http://www.mbr-pwrc.usgs.gov/bbs/grass/grass.htm>.

² For each species listed, habitat types marked with an "N" indicate that species may utilize that habitat type for nesting, an "F" indicates the species may forage in that habitat, and a "C" indicates the species may utilize that habitat for cover, resting, or roosting. Blank boxes indicate the species is not typically found in that habitat type, except as occasional transients.

OF = Old Field/Shrubland
 MF = Mature Mixed Forest
 WW = Wooded Wetland
 SS = Shrub Swamp
 EM = Emergent Marsh
 OW = Open Water
 AG = Agricultural
 RES = Residential
 UR = Urban
 GL = Grassland
 Source: *The New York State Breeding Bird Atlas, 2000*.