

Stantec

AMHERST ISLAND WIND ENERGY PROJECT

NATURAL HERITAGE ASSESSMENT & ENVIRONMENTAL IMPACT STUDY

Appendix F

Field Survey Results

Table A: Overall Wildlife List: Observed by Stantec

COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	COSSARO	COSEWIC	Observed Breeding	Observed During Migration	Observed Winter	Observed Incidentally
BUTTERFLIES								
Tawny-edged Skipper	<i>Polites themistocles</i>	S5						x
Giant Swallowtail	<i>Papilio cresphontes</i>	S3				x		x
Eastern Tailed Blue	<i>Everes comyntas</i>	S5						x
Common Buckeye	<i>Junonia coenia</i>	SNA						x
Monarch	<i>Danaus plexippus</i>	S4B, S2N	SC	SC		x		x
AMPHIBIANS								
American Toad	<i>Anaxyrus americanus</i>	S5			x			
Western Chorus Frog (carolinian)	<i>Pseudacris triseriata</i>	S4	NAR	NAR	x			
Spring Peeper	<i>Pseudacris crucifer</i>	S5			x			
Bullfrog	<i>Lithobates catesbeiana</i>	S4			x			
Northern Green Frog	<i>Lithobates clamitans</i>	S5			x			
Wood Frog	<i>Lithobates sylvatica</i>	S5			x			
Northern Leopard Frog	<i>Lithobates pipiens</i>	S5	NAR	NAR	x			
REPTILES								
Eastern Gartersnake	<i>Thamnophis sirtalis</i>	S5						x
Brown Snake	<i>Storeria dekayi</i>	S5		NAR				x
BIRDS								
Snow Goose	<i>Chen caerulescens</i>	S5B				x		
Canada Goose	<i>Branta canadensis</i>	S5			x	x		
Brant Goose	<i>Branta bernicla</i>	S4N				x		
Mute Swan	<i>Cygnus olor</i>	SNA				x		
Tundra Swan	<i>Cygnus colombianus</i>	S4				x		
Wood Duck	<i>Aix sponsa</i>	S5			x	x		
Gadwall	<i>Anas strepera</i>	S4			x	x		
American Wigeon	<i>Anas americana</i>	S4			x			
Eurasian wigeon	<i>Anas penelope</i>	SNA				x		
American Black Duck	<i>Anas rubripes</i>	S4				x		
Mallard	<i>Anas platyrhynchos</i>	S5			x	x		
Blue-winged Teal	<i>Anas discors</i>	S4				x		
Northern Shoveler	<i>Anas clypeata</i>	S4				x		
Northern Pintail	<i>Anas acuta</i>	S5			x	x		
Green-winged Teal	<i>Anas crecca</i>	S4			x	x		
Ring-necked Duck	<i>Aythya collaris</i>	S5				x		
Greater Scaup	<i>Aythya marila</i>	S4				x		
Lesser Scaup	<i>Aythya affinis</i>	S4				x		
Bufflehead	<i>Bucephala albeola</i>	S4				x		
Common Goldeneye	<i>Bucephala clangula</i>	S5				x		
Harlequin duck	<i>Histrionicus histrionicus</i>	SNA		SC		x		
Long-tailed duck	<i>Clangula hyemalis</i>	S3B				x		
White-winged Scoter	<i>Melanitta deglandi</i>	S4B,S4N				x		
Hooded Merganser	<i>Lophodytes cucullatus</i>	S5B,S5N				x		
Common Merganser	<i>Mergus merganser</i>	S5B,S5N				x		
Red-breasted Merganser	<i>Mergus serrator</i>	S4B,S5N				x		
Ring-necked Pheasant	<i>Phasianus colchicus</i>	SNA			x	x		
Wild Turkey	<i>Meleagris gallopava</i>	S5				x		
Common Loon	<i>Gavia immer</i>	S5B,S5N	NAR	NAR	x	x		
Horned Grebe	<i>Podiceps auritus</i>	S1B, S4N	SC	SC		x		
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	S5B	NAR	NAR	x	x		
American Bittern	<i>Botaurus lentiginosus</i>	S4B			x			
Great Blue Heron	<i>Ardea herodias</i>	S5			x	x		
Great Egret	<i>Ardea alba</i>	S2B			x			
Green Heron	<i>Butorides virescens</i>	S4B			x	x		
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	S3B,S3N				x		
Turkey Vulture	<i>Cathartes aura</i>	S5B			x	x		
Osprey	<i>Pandion haliaetus</i>	S5B			x	x	x	
Bald Eagle	<i>Haliaeetus leucocephalus</i>	S2N,S4B	SC	NAR		x		
Northern Harrier	<i>Circus cyaneus</i>	S4B	NAR	NAR	x	x	x	
Sharp-shinned Hawk	<i>Accipiter striatus</i>	S5	NAR	NAR	x	x		
Cooper's Hawk	<i>Accipiter cooperii</i>	S4	NAR	NAR		x	x	

Red-shouldered Hawk	<i>Buteo lineatus</i>	S4B		NAR			x	
Red-tailed Hawk	<i>Buteo jamaicensis</i>	S5	NAR	NAR	x	x	x	
Rough-legged Hawk	<i>Buteo lagopus</i>	S1B, S4N	NAR	NAR		x	x	
American Kestrel	<i>Falco sparverius</i>	S5B			x	x	x	
Merlin	<i>Falco columbarius</i>	S5B	NAR	NAR	x	x	x	
Virginia Rail	<i>Rallus limicola</i>	S5B			x	x		
Ruddy Turnstone	<i>Arenaria interpres</i>	SNA				x		
Short-billed Dowitcher	<i>Limnodromus griseus</i>	S3B,S4n				x		
Black-bellied Plover	<i>Pluvialis squatarola</i>	S4N			x	x		
Semipalmated Plover	<i>Charadrius semipalmatus</i>	S4B,S4N				x		
Killdeer	<i>Charadrius vociferus</i>	S5B, S5N			x	x		
Spotted Sandpiper	<i>Actitis macularia</i>	S5			x	x		
Solitary Sandpiper	<i>Tringa solitaria</i>	S4B				x		
Lesser Yellowlegs	<i>Tringa flavipes</i>	S4B,S4N			x			
Upland Sandpiper	<i>Bartramia longicauda</i>	S4B			x	x		
Dunlin	<i>Calidris alpina</i>	S4B, S5N				x		
White-rumped Sandpiper	<i>Calidris fuscicollis</i>	S5N			x			
Least Sandpiper	<i>Calidris minutilla</i>	S4B,S5N				x		
Semipalmated Sandpiper	<i>Calidris pusilla</i>	S3B,S4N			x	x		
Wilson's Snipe	<i>Gallinago delicata</i>	S5B			x	x		
American Woodcock	<i>Scolopax minor</i>	S4B			x	x		
Wilson's Phalarope	<i>Phalaropus tricolor</i>	S3B			x	x		
Bonaparte's Gull	<i>Larus philadelphia</i>	S4B,S4N				x		
Ring-billed Gull	<i>Larus delawarensis</i>	S5B,S4N			x	x		
Herring Gull	<i>Larus argentatus</i>	S5B,S5N			x	x		
Caspian Tern	<i>Hydroprogne caspia</i>	S3B	NAR	NAR	x			
Black Tern	<i>Chlidonias niger</i>	S3B	SC	NAR	x			
Rock Pigeon	<i>Columba livia</i>	SNA				x		
Mourning Dove	<i>Zenaida macroura</i>	S5			x	x		
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	S4B			x			
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	S5B			x			
Great Horned Owl	<i>Bubo virginianus</i>	S5			x	x		
Snowy Owl	<i>Bubo scandiaca</i>	SNA	NAR	NAR			x	
Short-eared Owl	<i>Asio flammeus</i>	S2N, S4B	SC	SC-3			x	
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	S4				x	x	
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	S5B			x	x		
Belted Kingfisher	<i>Ceryle alcyon</i>	S4B			x	x		
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	S4B	SC	THR		x		
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	S4			x	x		
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	S5B			x	x		
Downy Woodpecker	<i>Picoides pubescens</i>	S5			x	x		
Hairy Woodpecker	<i>Picoides villosus</i>	S5			x	x		
Black-backed Woodpecker	<i>Picoides arcticus</i>	S4				x		
Northern Flicker	<i>Colaptes auratus</i>	S4B			x	x		
Pileated Woodpecker	<i>Dryocopus pileatus</i>	S5				x		
Olive-sided Flycatcher	<i>Contopus borealis</i>	S4B	SC	THR		x		
Eastern Wood-Pewee	<i>Contopus virens</i>	S4B			x	x		
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	S5B				x		
Alder Flycatcher	<i>Empidonax alnorum</i>	S5B			x	x		
Willow Flycatcher	<i>Empidonax traillii</i>	S5B			x	x		
Least Flycatcher	<i>Empidonax minimus</i>	S4B			x	x		
Eastern Phoebe	<i>Sayornis phoebe</i>	S5B			x	x		
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	S4B			x	x		
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S4B			x	x		
Northern Shrike	<i>Lanius excubitor</i>	SNA				x	x	
Blue-headed Vireo	<i>Vireo solitarius</i>	S5B				x		
Warbling Vireo	<i>Vireo gilvus</i>	S5B			x	x		
Philadelphia Vireo	<i>Vireo philadelphicus</i>	S5B				x		
Red-eyed Vireo	<i>Vireo olivaceus</i>	S5B			x	x		
Gray Jay	<i>Perisoreus canadensis</i>	S5				x		
Blue Jay	<i>Cyanocitta cristata</i>	S5			x	x		
American Crow	<i>Corvus brachyrhynchos</i>	S5B			x	x		
Common Raven	<i>Corvus corax</i>	S5			x	x	x	
Horned Lark	<i>Eremophila alpestris</i>	S5B			x			
Purple Martin	<i>Progne subis</i>	S4B			x	x		
Tree Swallow	<i>Tachycineta bicolor</i>	S4B			x	x		
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	S4B			x	x		
Bank Swallow	<i>Riparia riparia</i>	S4B			x	x		
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	S4B			x	x		
Barn Swallow	<i>Hirundo rustica</i>	S4B		THR-NS	x	x		
Black-capped Chickadee	<i>Poecile atricapillus</i>	S5			x	x		

Red-breasted Nuthatch	<i>Sitta canadensis</i>	S5					x		
White-breasted Nuthatch	<i>Sitta carolinensis</i>	S5				x	x		
Brown Creeper	<i>Certhia americana</i>	S5B				x	x		
Carolina Wren	<i>Thryothorus ludovicianus</i>	S4					x		
House Wren	<i>Troglodytes aedon</i>	S5B				x	x		
Winter Wren	<i>Troglodytes hiemalis</i>	S5B				x	x		
Sedge Wren	<i>Cistothorus platensis</i>	S4B	NAR	NAR		x			
Marsh Wren	<i>Cistothorus palustris</i>	S4B				x	x		
Golden-crowned Kinglet	<i>Regulus satrapa</i>	S5B					x		
Ruby-crowned Kinglet	<i>Regulus calendula</i>	S4B					x		
Eastern Bluebird	<i>Sialia sialis</i>	S5B	NAR	NAR			x		
Veery	<i>Catharus fuscescens</i>	S4B				x	x		
Swainson's Thrush	<i>Catharus ustulatus</i>	S4B					x		
Hermit Thrush	<i>Catharus guttatus</i>	S5B				x	x		
Wood Thrush	<i>Hylocichla mustelina</i>	S4B				x	x		
American Robin	<i>Turdus migratorius</i>	S5B				x	x	x	
Gray Catbird	<i>Dumetella carolinensis</i>	S4B				x	x		
Brown Thrasher	<i>Toxostoma rufum</i>	S4B				x	x		
European Starling	<i>Sturnus vulgaris</i>	SNA				x	x		
American Pipit	<i>Anthus rubescens</i>	S4					x		
Cedar Waxwing	<i>Bombycilla cedrorum</i>	S5B				x	x		
Ovenbird	<i>Seiurus aurocapilla</i>	S4B				x	x		
Northern Waterthrush	<i>Parkesia noveboracensis</i>	S5B				x	x		
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	S4B	SC	THR			x		
Black-and-white Warbler	<i>Mniotilta varia</i>	S5B					x		
Tennessee Warbler	<i>Oreothlypis peregrina</i>	S5B					x		
Orange-crowned Warbler	<i>Oreothlypis celata</i>	S4B					x		
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	S5B				x	x		
Mourning Warbler	<i>Geothlypis philadelphia</i>	S4B				x	x		
Common Yellowthroat	<i>Geothlypis trichas</i>	S5B				x	x		
Cerulean Warbler	<i>Dendroica cerulea</i>	S3B	SC	END			x		
Hooded Warbler	<i>Setophaga citrina</i>	S3B	SC	THR			x		
American Redstart	<i>Setophaga ruticilla</i>	S5B				x	x		
Cape May Warbler	<i>Setophaga tigrina</i>	S5B					x		
Northern Parula	<i>Setophaga americana</i>	S4B					x		
Magnolia Warbler	<i>Setophaga magnolia</i>	S5B				x	x		
Bay-breasted Warbler	<i>Setophaga castanea</i>	S5B					x		
Blackburnian Warbler	<i>Setophaga fusca</i>	S5B					x		
Yellow Warbler	<i>Setophaga petechia</i>	S5B				x	x		
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	S5B				x	x		
Blackpoll Warbler	<i>Setophaga striata</i>	S4B					x		
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	S5B					x		
Palm Warbler	<i>Setophaga palmarum</i>	S5B					x		
Pine Warbler	<i>Setophaga pinus</i>	S5B				x			
Yellow-rumped Warbler	<i>Setophaga coronata</i>	S5B					x		
Prairie Warbler	<i>Setophaga discolor</i>	S3B	NAR	NAR			x		
Black-throated Green Warbler	<i>Setophaga virens</i>	S5B				x	x		
Canada Warbler	<i>Cardellina canadensis</i>	S4B	SC	THR			x		
Wilson's Warbler	<i>Cardellina pusilla</i>	S4B				x	x		
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	S4B				x	x		
Chipping Sparrow	<i>Spizella passerina</i>	S5B				x	x		
Clay-colored Sparrow	<i>Spizella pallida</i>	S4B				x	x		
Field Sparrow	<i>Spizella pusilla</i>	S4B				x	x		
Savannah Sparrow	<i>Passerculus sandwichensis</i>	S4B				x	x		
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	S4B				x	x		
Fox Sparrow	<i>Passerella iliaca</i>	S4B					x		
Song Sparrow	<i>Melospiza melodia</i>	S5B				x	x		
Lincoln's Sparrow	<i>Melospiza lincolni</i>	S5B					x		
Swamp Sparrow	<i>Melospiza georgiana</i>	S5B				x	x		
White-throated Sparrow	<i>Zonotrichia albicollis</i>	S5B					x		
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	S4B					x		
Dark-eyed Junco	<i>Junco hyemalis</i>	S5B					x		
Scarlet Tanager	<i>Piranga olivacea</i>	S4B				x	x		
Northern Cardinal	<i>Cardinalis cardinalis</i>	S5				x	x		
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	S4B				x	x		
Indigo Bunting	<i>Passerina cyanea</i>	S4B				x			
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	S5				x	x		
Eastern Meadowlark	<i>Sturnella magna</i>	S4B			THR-NS	x	x	x	
Western Meadowlark	<i>Sturnella neglecta</i>	S3B					x		
Rusty Blackbird	<i>Euphagus carolinus</i>	S4B			SC		x		
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	S4B					x		

Common Grackle	<i>Quiscalus quiscula</i>	S5B			x	x		
Brown-headed Cowbird	<i>Molothrus ater</i>	S4B			x	x		
Orchard Oriole	<i>Icterus spurius</i>	S4B			x	x		
Baltimore Oriole	<i>Icterus galbula</i>	S4B			x	x		
Purple Finch	<i>Carpodacus purpureus</i>	S4B				x		
House Finch	<i>Carpodacus mexicanus</i>	SNA			x	x		
Pine Siskin	<i>Carduelis pinus</i>	S4B				x		
American Goldfinch	<i>Carduelis tristis</i>	S5B			x	x		
House Sparrow	<i>Passer domesticus</i>	SNA			x	x		

Mammals

Least Weasel	<i>Mustela nivalis</i>	SU	G5					x
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Explanation of Status and Acronyms

COSSARO: Committee on the Status of Species at Risk in Ontario

COSEWIC: Committee on the Status of Endangered Wildlife in Canada

REGION: Rare in a Site Region

S1: Critically Imperiled—Critically imperiled in the province (often 5 or fewer occurrences)

S2: Imperiled—Imperiled in the province, very few populations (often 20 or fewer),

S3: Vulnerable—Vulnerable in the province, relatively few populations (often 80 or fewer)

S4: Apparently Secure—Uncommon but not rare

S5: Secure—Common, widespread, and abundant in the province

SX: Presumed extirpated

SH: Possibly Extirpated (Historical)

SNR: Unranked

SU: Unrankable—Currently unrankable due to lack of information

SNA: Not applicable—A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

S#S#: Range Rank—A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species

S#B- Breeding status rank

S#N- Non Breeding status rank

?: Indicates uncertainty in the assigned rank

G1: Extremely rare globally; usually fewer than 5 occurrences in the overall range

G1G2: Extremely rare to very rare globally

G2: Very rare globally; usually between 5-10 occurrences in the overall range

G2G3: Very rare to uncommon globally

G3: Rare to uncommon globally; usually between 20-100 occurrences

G3G4: Rare to common globally

G4: Common globally; usually more than 100 occurrences in the overall range

G4G5: Common to very common globally

G5: Very common globally; demonstrably secure

GU: Status uncertain, often because of low search effort or cryptic nature of the species; more data needed.

T: Denotes that the rank applies to a subspecies or variety

END: Endangered

THR: Threatened

SC: Special Concern

2, 3 or NS after a COSEWIC ranking indicates the species is either on Schedule 2, Schedule 3 or No Schedule of the Species At Risk Act (SARA)

NAR: Not At Risk

IND: Indeterminant, insufficient information to assign status

DD: Data Deficient

6: Rare in Site Region 6

7: Rare in Site Region 7

Area: Minimum patch size for area-sensitive species (ha)

H- highly significant in Hamilton Region (i.e. rare)

m- moderately significant in Hamilton Region (i.e. uncommon)

L1- extremely rare locally (Toronto Region)

L2- very rare locally (Toronto Region)

L3- rare to uncommon locally (Toronto Region)

HR- rare in Halton Region, highly significant

HU- uncommon in Halton Region, moderately significant

* The Pileated Woodpecker will incorporate smaller woodlots into its homerange, therefore it may not be a true area-sensitive species (Naylor et al. 1996)

Table B: Waterfowl Stopover and Staging Habitat

Location (map)	CSWH	Date	Species	# individuals	field type
64	WA1	9-Nov-11	CAGO	12	
100	WA1	7-Dec-11	CAGO	20	
100	WA1	7-Dec-11	BUFF	4	
100	WA1	7-Dec-11	MALL	1	
100	WA1	21-Dec-11	MALL	4	
41	WT1	3-May-11	CAGO	4	Pasture
41	WT1	3-May-11	MALL	1	Pasture
41	WT1	11-May-11	CAGO	2	Agricultural field
41	WT1	17-May-11	CAGO	6	Agricultural field
16	WT1	29-Sep-11	CAGO	12	
51	WT1	27-Oct-11	CAGO	20	
59	WT1	3-Nov-11	CAGO	60	
28	WT2	4-Apr-11	CAGO	12	Hay field
28	WT2	4-Apr-11	CAGO	12	Hay field
28	WT2	14-Apr-11	CAGO	1	Water
28	WT2	14-Apr-11	CAGO	2	Field
28	WT2	14-Apr-11	CAGO	11	Field
28	WT2	26-Apr-11	CAGO	11	Pasture, barnyard
28	WT2	26-Apr-11	CAGO	2	Lawn
28	WT2	3-May-11	CAGO	6	Lake Ontario
28	WT2	11-May-11	CAGO	2	Agricultural field
28	WT2	11-May-11	MALL	4	Agricultural field
28	WT2	25-May-11	CAGO	13	Hay field
28	WT2	25-May-11	CAGO	2	Hay field
111	WT2	21-Dec-11	CAGO	175	
11	WT3	24-Mar-11	CAGO	5	Pasture
11	WT3	14-Apr-11	CAGO	6	Pasture
11	WT3	26-Apr-11	CAGO	2	Barnyard
11	WT3	11-May-11	CAGO	4	Agricultural field
11	WT3	17-May-11	MALL	2	Woodlot
11	WT3	25-May-11	CAGO	6	Pasture
11	WT3	25-May-11	CAGO	7	Fallow field
101	WT3	7-Dec-11	CAGO	10	
31	WT4	14-Apr-11	MALL	2	Pond
31	WT4	3-May-11	CAGO	2	Fallow field
31	WT4	3-May-11	MALL	2	Fallow field
31	WT4	25-May-11	GADW	2	Dug pond
24	WT4	12-Oct-11	CAGO	40	
24	WT4	9-Nov-11	CAGO	5	
24	WT4	17-Nov-11	CAGO	30	
53	WT4	27-Oct-11	CAGO	10	
65	WT4	9-Nov-11	CAGO	14	
81	WT4	24-Nov-11	CAGO	20	
81	WT4	7-Dec-11	CAGO	125	
87	WT4	24-Nov-11	CAGO	22	
1		24-Mar-11	COGO	4	NA
1		3-May-11	MALL	2	Field, puddle
1		1-Sep-11	CAGO	50	agricultural field
1		22-Sep-11	CAGO	25	bay
1		22-Sep-11	MALL	5	bay
1		29-Sep-11	CAGO	25	agricultural field
1		6-Oct-11	RBME	2	on shore
1		6-Oct-11	CAGO	75	on shore
1		12-Oct-11	CAGO	25	near shore
1		12-Oct-11	MALL	4	near shore
1		12-Oct-11	ABDU	4	near shore
1		20-Oct-11	CAGO	25	pasture
1		20-Oct-11	MALL	15	pasture
1		27-Oct-11	CAGO	100	pasture
1		3-Nov-11	BUFF	15	shoreline
1		3-Nov-11	RBME	30	shoreline
1		9-Nov-11	MALL	12	shoreline
1		9-Nov-11	RBME	12	shoreline
1		9-Nov-11	COGO	6	shoreline
1		9-Nov-11	BUFF	35	shoreline
1		17-Nov-11	CAGO	150	in bay
1		17-Nov-11	BUFF	20	in bay
1		17-Nov-11	RBME	10	in bay
1		17-Nov-11	COGO	30	in bay
1		17-Nov-11	MALL	5	in bay
1		24-Nov-11	COGO	6	bay
1		1-Dec-11	MALL	2	in bay
1		1-Dec-11	RBME	10	near shore
1		7-Dec-11	COGO	30	bay

1		7-Dec-11	MALL	10	bay
1		7-Dec-11	BUFF	1	bay
1		7-Dec-11	COGO	15	bay
1		21-Dec-11	COGO	60	shoreline
1		21-Dec-11	MALL	8	shoreline
2		24-Mar-11	COGO	15	Off shore, 20m
2		29-Mar-11	MALL	2	Small pond
2		29-Mar-11	PINT	2	Small pond
2		29-Mar-11	BUFF	6	Small pond
2		29-Mar-11	RBME	1	Small pond
2		26-Apr-11	CAGO	3	Pond
2		26-Apr-11	BUFF	2	Pond
2		26-Apr-11	GWTE	2	Pond
2		26-Apr-11	DCCO	1	Lake Ontario
2		26-Apr-11	CAGO	2	Cut hay
2		22-Sep-11	CAGO	75	pasture
2		29-Sep-11	CAGO	50	lakeshore/bay
2		6-Oct-11	CAGO	60	on shore
2		12-Oct-11	MALL	9	near shore
2		20-Oct-11	RBME	1	near shore
2		27-Oct-11	CAGO	100	shoreline
2		27-Oct-11	RBME	1	shoreline
2		3-Nov-11	HOGR	2	shoreline
2		9-Nov-11	TUSW	40	shoreline
2		9-Nov-11	BUFF	3	shoreline
2		9-Nov-11	RBME	3	shoreline
2		9-Nov-11	BUFF	2	shoreline
2		9-Nov-11	RBME	2	shoreline
2		17-Nov-11	BUFF	4	in bay
2		17-Nov-11	RBME	4	in bay
2		17-Nov-11	COGO	125	in bay
2		17-Nov-11	MALL	2	in bay
2		24-Nov-11	CAGO	20	agricultural field
2		1-Dec-11	COGO	40	near shore
2		7-Dec-11	CAGO	125	pasture
2		7-Dec-11	COGO	140	near shore
2		21-Dec-11	CAGO	250	pasture
3		24-Mar-11	CAGO	6	Pasture
3		14-Apr-11	CAGO	2	Field
3		14-Apr-11	CAGO	2	Edge of pond
3		14-Apr-11	CAGO	1	In nest on pond
3		14-Apr-11	CAGO	2	Lawn
3		26-Apr-11	CAGO	4	Hay field
3		26-Apr-11	CAGO	1	Pond
3		3-May-11	MALL	2	Fallow field
3		11-May-11	CAGO	4	Agricultural field
3		25-May-11	CAGO	16	Pasture
3		25-May-11	MALL	2	Pasture
3		25-May-11	BLDU	1	Pond
3		22-Sep-11	MALL	20	marsh and shoreline
3		22-Sep-11	CAGO	50	marsh and shoreline
3		22-Sep-11	ABDU	4	marsh and shoreline
3		29-Sep-11	MALL	9	lakeshore
3		6-Oct-11	CAGO	100	offshore
3		12-Oct-11	CAGO	10	near shore
3		12-Oct-11	COME	3	near shore
3		20-Oct-11	RBME	2	near shore
3		27-Oct-11	GADW	2	shoreline
3		3-Nov-11	CAGO	30	pasture
3		9-Nov-11	CAGO	4	shoreline
3		9-Nov-11	BUFF	10	shoreline
3		9-Nov-11	RBME	1	shoreline
3		9-Nov-11	CAGO	120	agricultural field
3		17-Nov-11	BUFF	30	near shore
3		24-Nov-11	COGO	30	bay
3		24-Nov-11	MALL	2	bay
3		24-Nov-11	RBME	1	bay
3		1-Dec-11	TUSW	3	near shore
3		7-Dec-11	RBME	12	near shore
3		7-Dec-11	COGO	50	near shore
3		21-Dec-11	BUFF	4	shoreline
4		24-Mar-11	CAGO	68	Pasture
4		19-Apr-11	HOME	4	pond
4		19-Apr-11	CAGO	18	Pasture
4		19-Apr-11	MALL	2	Pasture
4		26-Apr-11	CAGO	2	Hay field
4		26-Apr-11	CAGO	7	Pond, hay field
4		26-Apr-11	MALL	1	Pond, hay field

4		26-Apr-11	MALL	1	Hay
4		3-May-11	CAGO	4	Pasture
4		17-May-11	CAGO	6	Agricultural field
4		17-May-11	CAGO	16	Pasture
4		17-May-11	MALL	4	Water
4		17-May-11	NSHO	2	Lawn
4		25-May-11	CAGO	7	Pasture, fallow field
4		25-May-11	MALL	2	Pasture, fallow field
4		22-Sep-11	Puddle ducks	40	gravel bar
4		22-Sep-11	Bay ducks	15	gravel bar
4		22-Sep-11	MUSW	1	gravel bar
4		22-Sep-11	CAGO	30	gravel bar
4		29-Sep-11	CAGO	12	pasture
4		6-Oct-11	CAGO	35	offshore
4		12-Oct-11	CAGO	175	agricultural field
4		20-Oct-11	CAGO	110	pasture
4		27-Oct-11	RBME	150	shoreline
4		3-Nov-11	CAGO	275	shoreline
4		9-Nov-11	BUFF	35	shoreline
4		9-Nov-11	COME	4	shoreline
4		9-Nov-11	BUFF	75	in bay
4		9-Nov-11	RBME	6	in bay
4		17-Nov-11	COGO	25	near shore
4		24-Nov-11	CAGO	100	agricultural field
4		1-Dec-11	RBME	3	near shore
4		7-Dec-11	CAGO	16	pasture
4		7-Dec-11	MALL	30	near shore
4		7-Dec-11	COME	4	near shore
4		21-Dec-11	BUFF	5	shoreline
4		21-Dec-11	MALL	4	shoreline
5		24-Mar-11	COGO	170	Off shore, 60-100m
5		24-Mar-11	BUFF	40	Off shore, 60-100m
5		24-Mar-11	MALL	4	Off shore, 60-100m
5		19-Apr-11	BUFF	25	Water
5		19-Apr-11	RMBE	20	Water
5		19-Apr-11	GADW	2	Water
5		19-Apr-11	COGO	4	Water
5		19-Apr-11	CAGO	5	pond
5		3-May-11	BUFF	5	Lake Ontario
5		3-May-11	RBME	7	Lake Ontario
5		11-May-11	MALL	6	Off shore
5		11-May-11	GADW	2	Off shore
5		11-May-11	RBME	8	Off shore
5		22-Sep-11	CAGO	200	bay
5		29-Sep-11	CAGO	250	hayfield
5		12-Oct-11	CAGO	85	agricultural field
5		20-Oct-11	MALL	6	near shore
5		20-Oct-11	RBME	3	near shore
5		20-Oct-11	GRSC	1	near shore
5		27-Oct-11	CAGO	40	pasture
5		3-Nov-11	BUFF	20	shoreline
5		9-Nov-11	CAGO	20	shoreline
5		9-Nov-11	CAGO	60	on point
5		17-Nov-11	BUFF	15	in bay
5		17-Nov-11	UNSC	2	in bay
5		17-Nov-11	COGO	2	in bay
5		24-Nov-11	COGO	12	shoreline
5		24-Nov-11	BUFF	15	shoreline
5		24-Nov-11	CAGO	1	shoreline
5		24-Nov-11	TUSW	2	shoreline
5		1-Dec-11	MALL	1	near shore
5		1-Dec-11	COGO	30	near shore
5		1-Dec-11	BUFF	1	near shore
5		1-Dec-11	CAGO	20	near shore
5		7-Dec-11	MALL	12	near shore
5		7-Dec-11	COGO	5	near shore
5		7-Dec-11	COGO	17	near shore
5		21-Dec-11	BUFF	15	field near shoreline
6		24-Mar-11	COGO	20	Off shore, 40-80m
6		24-Mar-11	BUFF	5	Off shore, 40-80m
6		24-Mar-11	MALL	4	Off shore, 40-80m
6		29-Mar-11	COGO	240	Lake Ontario
6		29-Mar-11	BUFF	45	Lake Ontario
6		29-Mar-11	RBME	7	Lake Ontario
6		29-Mar-11	LTDU	100	Lake Ontario
6		29-Mar-11	LESC	10	Lake Ontario
6		29-Mar-11	MALL	7	Lake Ontario
6		29-Mar-11	COGO	10	Lake Ontario

6		4-Apr-11	COGO	35	Off shore, 30-100m
6		4-Apr-11	RBME	60	Off shore, 30-100m
6		14-Apr-11	MALL	1	Water
6		14-Apr-11	BUFF	2	Water
6		25-May-11	CAGO	22	Lake Ontario
6		22-Sep-11	CAGO	100	agricultural field
6		29-Sep-11	COME	10	Lake Ontario
6		12-Oct-11	CAGO	100	agricultural field
6		27-Oct-11	divers & dabblers	250	shoreline
6		3-Nov-11	BUFF	50	shoreline
6		9-Nov-11	CAGO	12	inland island
6		9-Nov-11	CAGO	25	on beach
6		17-Nov-11	COME	3	in bay
6		17-Nov-11	RBME	1	in bay
6		24-Nov-11	RBME	4	shoreline
6		1-Dec-11	CAGO	150	near shore
6		7-Dec-11	CAGO	75	pasture
6		7-Dec-11	MALL	8	near shore
6		7-Dec-11	COME	5	near shore
6		21-Dec-11	UNSC	200	shoreline/bay
7		24-Mar-11	COGO	20	Off shore, 50-100m
7		24-Mar-11	BUFF	5	Off shore, 50-100m
7		4-Apr-11	RBME	30	Off shore, 30-100m
7		4-Apr-11	COGO	16	Off shore, 30-100m
7		4-Apr-11	BUFF	10	Off shore, 30-100m
7		14-Apr-11	RBME	2	Water
7		14-Apr-11	BUFF	2	Water
7		14-Apr-11	COGO	2	Water
7		14-Apr-11	RBME	5	Water
7		14-Apr-11	BUFF	2	Water
7		14-Apr-11	COGO	1	Water
7		3-May-11	RBME	19	Lake Ontario
7		3-May-11	BUFF	11	Lake Ontario
7		3-May-11	COLO	1	Lake Ontario
7		3-May-11	COGO	1	Lake Ontario
7		11-May-11	BUFF	8	Off shore
7		11-May-11	RBME	10	Off shore
7		11-May-11	MALL	2	Off shore
7		17-May-11	RBME	16	Water
7		17-May-11	CAGO	2	Agricultural field
7		17-May-11	LTDU	2	Water
7		25-May-11	GADW	2	Lake Ontario
7		22-Sep-11	CAGO	250	hayfield
7		29-Sep-11	MALL	20	lakeshore
7		12-Oct-11	CAGO	50	agricultural field
7		27-Oct-11	HOGR	3	shoreline
7		3-Nov-11	CAGO	60	pasture
7		9-Nov-11	CAGO	14	pond
7		9-Nov-11	CAGO	20	near shore
7		9-Nov-11	BUFF	2	near shore
7		9-Nov-11	MALL	3	near shore
7		9-Nov-11	COGO	4	near shore
7		17-Nov-11	COGO	100	near shore
7		17-Nov-11	BUFF	25	near shore
7		24-Nov-11	MALL	20	shoreline
7		1-Dec-11	RBME	100	near shore
7		7-Dec-11	CAGO	25	pasture
7		7-Dec-11	COGO	150	near shore
7		7-Dec-11	MALL	40	near shore
7		7-Dec-11	BUFF	2	near shore
7		21-Dec-11	MALL	4	long point marsh
8		24-Mar-11	COGO	80	Off shore, 20m
8		24-Mar-11	BUFF	10	Off shore, 20m
8		26-Apr-11	DCCO	7	Lake Ontario
8		26-Apr-11	BUFF	28	Lake Ontario
8		26-Apr-11	MALL	2	Lake Ontario
8		26-Apr-11	GADW	7	Lake Ontario
8		26-Apr-11	AMWI	2	Lake Ontario
8		26-Apr-11	RBME	37	Lake Ontario
8		26-Apr-11	COGO	2	Lake Ontario
8		3-May-11	MALL	2	Lake Ontario
8		3-May-11	BUFF	3	Lake Ontario
8		3-May-11	RBME	12	Lake Ontario
8		11-May-11	RBME	11	Off shore
8		11-May-11	MALL	2	Off shore
8		11-May-11	RBME	3	Off shore
8		11-May-11	GADW	1	Off shore
8		17-May-11	RBME	3	Water

8		17-May-11	LTDU	13	Water
8		29-Sep-11	CAGO	60	lakeshore/bay
8		12-Oct-11	CAGO	40	pasture
8		27-Oct-11	HOGR	10	shoreline
8		27-Oct-11	RBME	1	shoreline
8		3-Nov-11	CAGO	25	pasture
8		9-Nov-11	CAGO	200	pasture
8		9-Nov-11	RBME	4	near shore
8		17-Nov-11	MALL	20	near shore
8		17-Nov-11	ABDU	10	near shore
8		24-Nov-11	MALL	6	shoreline
8		1-Dec-11	BUFF	20	near shore
8		1-Dec-11	CAGO	80	shoreline
8		1-Dec-11	COGO	25	near shore
8		7-Dec-11	HOGR	3	shoreline
8		7-Dec-11	BUFF	2	shoreline
8		7-Dec-11	RBME	1	shoreline
8		7-Dec-11	COME	3	shoreline
8		7-Dec-11	COGO	70	near shore
8		7-Dec-11	BUFF	25	near shore
8		7-Dec-11	RBME	5	near shore
9		24-Mar-11	COGO	30	Off shore, 20-50m
9		24-Mar-11	USCA	40	Off shore, 60-100m
9		29-Mar-11	REDH	200	Lake Ontario
9		29-Mar-11	LESC	5	Lake Ontario
9		14-Apr-11	MALL	2	Water
9		19-Apr-11	GWTE	15	Bay
9		19-Apr-11	AMWI	20	Bay
9		19-Apr-11	MALL	6	Bay
9		19-Apr-11	WODU	2	Bay
9		19-Apr-11	RBME	2	Bay
9		19-Apr-11	COME	2	Bay
9		19-Apr-11	BUFF	2	Bay
9		26-Apr-11	CAGO	5	Pasture
9		3-May-11	RBME	1	Hay field
9		17-May-11	RBME	8	water
9		29-Sep-11	CAGO	50	pasture
9		12-Oct-11	CAGO	5	near shore
9		12-Oct-11	MALL	15	near shore
9		12-Oct-11	COME	8	near shore
9		27-Oct-11	RBME	75	shoreline
9		3-Nov-11	CAGO	75	shoreline
9		3-Nov-11	ABDU	10	shoreline
9		9-Nov-11	CAGO	5	pasture
9		9-Nov-11	CAGO	4	agricultural field
9		17-Nov-11	ABDU	20	in bay
9		17-Nov-11	BUFF	3	in bay
9		17-Nov-11	RBME	2	in bay
9		24-Nov-11	BUFF	2	shoreline
9		7-Dec-11	HOGR	5	offshore
10		24-Mar-11	COGO	80	Off shore, 30-40m
10		17-May-11	CAGO	4	Agricultural field
10		25-May-11	CAGO	11	Residential, lawn
10		25-May-11	CAGO	12	Cultural meadow
10		27-Oct-11	CAGO	70	pasture
10		3-Nov-11	BUFF	10	shoreline
10		3-Nov-11	ABDU	15	shoreline
10		9-Nov-11	RBME	20	open water
10		17-Nov-11	BUFF	30	near point
10		24-Nov-11	GRSC	15	bay
10		24-Nov-11	BUFF	2	bay
10		24-Nov-11	SNGO	1	bay
10		24-Nov-11	CAGO	250	bay
10		1-Dec-11	CAGO	550	in bay
10		1-Dec-11	GRSC	100	on shore
10		7-Dec-11	COGO	6	near shore
11		24-Mar-11	CAGO	5	Pasture
11		14-Apr-11	CAGO	6	Pasture
11		26-Apr-11	CAGO	2	Barnyard
11		11-May-11	CAGO	4	Agricultural field
11		17-May-11	MALL	2	Woodlot
11		25-May-11	CAGO	6	Pasture
11		25-May-11	CAGO	7	Fallow field
11		27-Oct-11	RBME	18	shoreline
11		3-Nov-11	CAGO	15	pasture
11		9-Nov-11	RBME	34	near shore
11		17-Nov-11	CAGO	20	over pasture
11		24-Nov-11	MALL	6	agricultural field

11		1-Dec-11	COGO	25	in bay
11		7-Dec-11	COGO	14	shoreline
12		24-Mar-11	CAGO	4	Pasture
12		29-Mar-11	CAGO	12	Lawn
12		4-Apr-11	CAGO	20	Hay field
12		14-Apr-11	CAGO	26	Pasture
12		19-Apr-11	CAGO	35	Agricultural field
12		26-Apr-11	CAGO	2	Cut hay
12		26-Apr-11	CAGO	2	Pasture, flooded
12		26-Apr-11	CAGO	35	Cut hay
12		26-Apr-11	CAGO	3	Fallow field
12		3-May-11	CAGO	8	Cut hay
12		3-May-11	CAGO	14	Pasture
12		3-May-11	CAGO	60	Lake Ontario
12		11-May-11	CAGO	14	Agricultural field
12		17-May-11	CAGO	6	Agricultural field
12		17-May-11	CAGO	18	Agricultural field
12		25-May-11	CAGO	12	Fallow field
12		27-Oct-11	RBME	25	shoreline
12		27-Oct-11	CAGO	10	shoreline
12		27-Oct-11	TUSW	8	shoreline
12		3-Nov-11	CAGO	30	pasture
12		9-Nov-11	RBME	16	near shore
12		17-Nov-11	CAGO	20	pasture
12		24-Nov-11	COGO	28	near shore
12		24-Nov-11	RBME	2	near shore
12		24-Nov-11	BUFF	1	near shore
12		1-Dec-11	CAGO	12	in bay
12		1-Dec-11	BUFF	30	in bay
12		7-Dec-11	BUFF	25	bay
13		24-Mar-11	COGO	80	Off shore, 15-20m
13		24-Mar-11	BUFF	10	Off shore, 15-20m
13		24-Mar-11	USCA	30	Off shore, 15-20m
13		24-Mar-11	COGO	25	Off shore, 40m
13		14-Apr-11	BUFF	6	Water
13		19-Apr-11	COGO	40	Water
13		19-Apr-11	RBME	40	Water
13		19-Apr-11	BUFF	24	Water
13		19-Apr-11	MALL	2	Water
13		25-May-11	CAGO	2	Pasture
13		27-Oct-11	BUFF	50	shoreline
13		27-Oct-11	RBME	40	shoreline
13		3-Nov-11	CAGO	125	pasture
13		9-Nov-11	RBME	5	shoreline
13		9-Nov-11	MALL	1	shoreline
13		17-Nov-11	CAGO	30	pasture
13		24-Nov-11	MALL	17	agricultural field
13		1-Dec-11	CAGO	27	agricultural field
13		7-Dec-11	CAGO	20	marsh
13		7-Dec-11	BUFF	4	marsh
13		7-Dec-11	MALL	1	marsh
14		24-Mar-11	CAGO	41	Pasture
14		4-Apr-11	CAGO	41	Hay field
14		14-Apr-11	CAGO	18	Pasture
14		26-Apr-11	CAGO	2	Pond, lawn
14		26-Apr-11	CAGO	1	Road
14		3-May-11	CAGO	15	Pasture
14		11-May-11	CAGO	8	Agricultural field
14		11-May-11	CAGO	10	Pasture, lawn
14		17-May-11	CAGO	53	Pasture, field
14		17-May-11	MALL	2	Pasture, field
14		17-May-11	SNGO	2	Pasture, field
14		25-May-11	CAGO	2	Pasture, fallow field
14		25-May-11	CAGO	1	Pasture
14		27-Oct-11	RBME	20	shoreline
14		27-Oct-11	COGO	10	shoreline
14		3-Nov-11	MALL	20	shoreline
14		9-Nov-11	RBME	125	100m off shore
14		9-Nov-11	WWSC	1	100m off shore
14		9-Nov-11	MALL	3	100m off shore
14		17-Nov-11	CAGO	200	pasture
14		24-Nov-11	BUFF	30	near shore
14		24-Nov-11	RBME	6	near shore
14		1-Dec-11	COGO	40	near shore
14		7-Dec-11	CAGO	25	bay
14		7-Dec-11	UNSC	100	bay
15		24-Mar-11	COGO	180	Off shore, 50-100m
15		24-Mar-11	USCA	130	Off shore, 50-100m

15		29-Mar-11	COGO	230	Lake Ontario
15		29-Mar-11	BUFF	5	Lake Ontario
15		29-Mar-11	RMBE	2	Lake Ontario
15		4-Apr-11	RBME	40	Off shore, 30-100m
15		4-Apr-11	COGO	45	Off shore, 30-100m
15		26-Apr-11	LTDU	4	Lake Ontario
15		26-Apr-11	BUFF	4	Lake Ontario
15		26-Apr-11	GADW	2	Lake Ontario
15		26-Apr-11	RBME	2	Lake Ontario
15		3-May-11	RBME	40	Lake Ontario
15		3-May-11	BUFF	17	Lake Ontario
15		3-May-11	LTDU	2	Lake Ontario
15		11-May-11	COGO	7	Off shore
15		11-May-11	RBME	20	Off shore
15		11-May-11	BUFF	6	Off shore
15		11-May-11	GADW	2	Off shore
15		17-May-11	RBME	3	Water
15		17-May-11	LTDU	3	Water
15		25-May-11	CAGO	10	Pasture
15		27-Oct-11	CAGO	20	pasture
15		3-Nov-11	RBME	7	shoreline
15		9-Nov-11	RBME	14	shoreline
15		9-Nov-11	MALL	2	shoreline
15		17-Nov-11	COGO	10	near shore
15		24-Nov-11	MALL	6	marsh
15		24-Nov-11	HOME	2	marsh
15		1-Dec-11	COGO	15	near shore
15		1-Dec-11	COGO	7	near shore
15		1-Dec-11	RBME	1	near shore
15		7-Dec-11	CAGO	8	shoreline
16		24-Mar-11	COGO	35	Off shore, 20-30m
16		24-Mar-11	CAGO	16	Off shore, 20-30m
16		24-Mar-11	BUFF	3	Off shore, 20-30m
16		24-Mar-11	MALL	2	Off shore, 20-30m
16		24-Mar-11	CAGO	2	Off shore, 30m
16		24-Mar-11	COGO	15	Off shore, 30m
16		11-May-11	CAGO	20	Agricultural field
16		25-May-11	CAGO	25	Fallow field
16		27-Oct-11	BUFF	30	shoreline
16		9-Nov-11	RBME	15	shoreline
16		17-Nov-11	COGO	15	near shore
16		17-Nov-11	WWSC	2	near shore
16		24-Nov-11	BUFF	25	near shore
16		24-Nov-11	COGO	12	near shore
16		1-Dec-11	COGO	7	near shore
16		1-Dec-11	RBME	2	near shore
16		1-Dec-11	MALL	4	near shore
16		7-Dec-11	CAGO	10	agricultural field
17		24-Mar-11	MALL	4	Off shore, 20-50m
17		24-Mar-11	CAGO	25	Off shore, 20-50m
17		24-Mar-11	COGO	40	Off shore, 20-50m
17		29-Mar-11	LESC	30	Lake Ontario
17		29-Mar-11	COGO	80	Lake Ontario
17		29-Mar-11	BUFF	35	Lake Ontario
17		29-Mar-11	RBME	2	Lake Ontario
17		14-Apr-11	MALL	4	Water
17		14-Apr-11	GWTE	4	Water
17		14-Apr-11	BUFF	2	Water
17		14-Apr-11	BUFF	8	Water
17		14-Apr-11	RBME	6	Water
17		26-Apr-11	RBME	7	Lake Ontario
17		26-Apr-11	BUFF	7	Lake Ontario
17		3-May-11	RBME	7	Bay
17		3-May-11	BUFF	4	Bay
17		3-May-11	GADW	1	Bay
17		3-May-11	COGO	7	Bay
17		11-May-11	RBME	15	Off shore
17		17-May-11	RBME	8	Water
17		25-May-11	WODU	4	Marsh
17		25-May-11	CAGO	3	Pasture, wetland
17		27-Oct-11	CAGO	50	pasture
17		17-Nov-11	MALL	17	on shore
17		24-Nov-11	CAGO	22	agricultural field
17		1-Dec-11	BUFF	4	near shore
18		24-Mar-11	COGO	55	Off shore, 50-70m
18		24-Mar-11	BUFF	10	Off shore, 50-70m
18		24-Mar-11	ABDU	4	Off shore, 50-70m
18		24-Mar-11	CAGO	2	Off shore, 50-70m

18		14-Apr-11	BUFF	30	Water
18		14-Apr-11	RBME	12	Water
18		19-Apr-11	CAGO	25	Water
18		19-Apr-11	BUFF	70	Water
18		19-Apr-11	GRSC	20	Water
18		19-Apr-11	RBME	150	Water
18		19-Apr-11	COGO	30	Water
18		19-Apr-11	MALL	4	Water
18		3-May-11	CAGO	140	Pasture
18		3-May-11	MALL	1	Pasture
18		17-May-11	RBME	15	Water
18		17-May-11	MALL	1	Water
18		17-May-11	BUFF	1	Water
18		17-May-11	CAGO	6	Agricultural field
18		27-Oct-11	CAGO	30	pasture
18		17-Nov-11	CAGO	8	shoreline
18		17-Nov-11	ducks	100	near shore
18		24-Nov-11	CAGO	425	bay
18		24-Nov-11	COGO	20	bay
18		24-Nov-11	BUFF	8	bay
18		24-Nov-11	RBME	3	bay
18		24-Nov-11	COME	1	bay
18		24-Nov-11	MALL	1	bay
18		24-Nov-11	SNGO	1	bay
18		1-Dec-11	BUFF	5	near shore
18		1-Dec-11	COGO	25	near shore
18		1-Dec-11	MALL	18	near shore
18		1-Dec-11	RBME	1	near shore
19		24-Mar-11	COGO	45	Off shore, 30-40m
19		24-Mar-11	LTDU	1	Off shore, 30-40m
19		29-Mar-11	COGO	50	Lake Ontario
19		29-Mar-11	RBME	7	Lake Ontario
19		29-Mar-11	LTDU	19	Lake Ontario
19		29-Mar-11	BUFF	13	Lake Ontario
19		4-Apr-11	MALL	2	Off shore, 50-70m
19		4-Apr-11	COGO	12	Off shore, 50-70m
19		4-Apr-11	RBME	6	Off shore, 50-70m
19		4-Apr-11	LTDU	30	Off shore, 50-70m
19		14-Apr-11	MALL	2	Water
19		14-Apr-11	GADW	2	Water
19		14-Apr-11	BUFF	2	Water
19		14-Apr-11	RBME	13	Water
19		19-Apr-11	RBME	25	Water
19		19-Apr-11	LTDU	20	Water
19		19-Apr-11	BUFF	4	Water
19		19-Apr-11	GADW	2	Water
19		19-Apr-11	GADW	2	Water
19		19-Apr-11	MALL	4	Water
19		26-Apr-11	BUFF	9	Lake Ontario
19		26-Apr-11	GADW	2	Lake Ontario
19		26-Apr-11	LTDU	4	Lake Ontario
19		26-Apr-11	MALL	2	Lake Ontario
19		3-May-11	GADW	6	Lake Ontario
19		3-May-11	AMWI	5	Lake Ontario
19		3-May-11	RBME	12	Lake Ontario
19		3-May-11	BUFF	4	Lake Ontario
19		3-May-11	LTDU	35	Lake Ontario
19		3-May-11	MALL	2	Lake Ontario
19		3-May-11	BWTE	2	Lake Ontario
19		3-May-11	COLO	1	Lake Ontario
19		11-May-11	LTDU	10	Off shore
19		11-May-11	GADW	2	Off shore
19		11-May-11	MALL	3	Off shore
19		17-May-11	BUFF	1	Water
19		17-May-11	RBME	2	Water
19		17-May-11	LTDU	1	Water
19		25-May-11	MALL	2	Lake Ontario
19		25-May-11	GADW	2	Lake Ontario
19		27-Oct-11	CAGO	10	pasture
19		24-Nov-11	RBME	12	near shore
19		24-Nov-11	BUFF	3	near shore
19		24-Nov-11	MALL	12	near shore
19		1-Dec-11	CAGO	700	agricultural field
20		29-Mar-11	CAGO	10	Agricultural field
20		29-Mar-11	CAGO	12	Agricultural field
20		29-Mar-11	CAGO	6	Agricultural field
20		14-Apr-11	CAGO	2	Field
20		14-Apr-11	MALL	3	Stream

20		14-Apr-11	MALL	2	Stream
20		26-Apr-11	MALL	5	Creek, hay
20		26-Apr-11	CAGO	4	Creek, hay
20		11-May-11	CAGO	4	Agricultural field
20		17-May-11	MALL	2	Pasture
20		27-Oct-11	CAGO	150	pasture
21		29-Mar-11	COGO	80	Lake Ontario
21		29-Mar-11	BUFF	5	Lake Ontario
21		29-Mar-11	CAGO	8	Lake Ontario
21		19-Apr-11	CAGO	14	Pasture
21		3-May-11	CAGO	4	Pasture
21		3-May-11	NOSH	1	Pasture
21		3-May-11	MALL	1	Pasture
21		3-May-11	BWTE	2	Pasture
21		3-May-11	CAGO	2	Residential
21		3-May-11	MALL	1	Residential
21		17-May-11	RBME	8	Water
21		27-Oct-11	CAGO	150	pasture
22		29-Mar-11	RBME	2	Lake Ontario
22		29-Mar-11	BUFF	20	Lake Ontario
22		29-Mar-11	MUSW	2	Lake Ontario
22		29-Mar-11	CAGO	8	Lake Ontario
22		29-Mar-11	COME	40	Lake Ontario
22		29-Mar-11	COGO	160	Lake Ontario
22		29-Mar-11	MALL	6	Lake Ontario
22		26-Apr-11	BUFF	9	Lake Ontario
22		26-Apr-11	CAGO	2	Lake Ontario
22		3-May-11	BUFF	39	Lake Ontario
22		3-May-11	RBME	1	Lake Ontario
22		3-May-11	COGO	8	Lake Ontario
23		29-Mar-11	BUFF	6	Lake Ontario
23		26-Apr-11	MALL	2	Cut hay
24		29-Mar-11	CAGO	20	Shallow marsh
24		29-Mar-11	AMWI	5	Shallow marsh
24		29-Mar-11	GADW	5	Shallow marsh
24		26-Apr-11	CAGO	1	Cut hay
24		26-Apr-11	CAGO	4	River channel
24		26-Apr-11	MALL	1	River channel
24		11-May-11	CAGO	18	Stream side
24		25-May-11	MALL	1	Fallow field
25		29-Mar-11	BUFF	80	Lake Ontario
25		29-Mar-11	COGO	30	Lake Ontario
25		29-Mar-11	RBME	20	Lake Ontario
25		29-Mar-11	LTDU	70	Lake Ontario
25		29-Mar-11	LESC	30	Lake Ontario
25		26-Apr-11	DCCO	19	Lake Ontario
25		26-Apr-11	RBME	56	Lake Ontario
25		26-Apr-11	COME	9	Lake Ontario
25		26-Apr-11	BUFF	31	Lake Ontario
25		26-Apr-11	MALL	12	Lake Ontario
25		26-Apr-11	CAGO	3	Pasture
25		26-Apr-11	MALL	1	Pasture
25		11-May-11	LTDU	7	Off shore
25		11-May-11	RBME	14	Off shore
25		11-May-11	COLO	1	Off shore
25		11-May-11	MALL	2	Off shore
26		4-Apr-11	RBME	70	Off shore
26		4-Apr-11	LTDU	10	Off shore
26		4-Apr-11	COGO	45	Off shore
26		14-Apr-11	LTDU	4	Over water
26		14-Apr-11	COLO	2	In water
26		3-May-11	RBME	2	Dock, main land
26		3-May-11	LTDU	3	Dock, main land
26		3-May-11	LTDU	2	Bay
27		4-Apr-11	COGO	10	Off shore, 10-15m
27		14-Apr-11	BUFF	2	Water
27		26-Apr-11	MALL	1	Edge of bay
27		26-Apr-11	COLO	1	Lake Ontario
27		26-Apr-11	DCCO	1	Lake Ontario
27		26-Apr-11	RBME	6	Lake Ontario
27		26-Apr-11	DCCO	2	Lake Ontario
27		17-May-11	RBME	7	Water
27		25-May-11	CAGO	27	Pasture
27		25-May-11	MALL	3	Lakeshore
27		25-May-11	GADW	2	Lakeshore
28		4-Apr-11	CAGO	12	Hay field
28		4-Apr-11	CAGO	12	Hay field
28		14-Apr-11	CAGO	1	Water

28		14-Apr-11	CAGO	2	Field
28		14-Apr-11	CAGO	11	Field
28		26-Apr-11	CAGO	11	Pasture, barnyard
28		26-Apr-11	CAGO	2	Lawn
28		3-May-11	CAGO	6	Lake Ontario
28		11-May-11	CAGO	2	Agricultural field
28		11-May-11	MALL	4	Agricultural field
28		25-May-11	CAGO	13	Hay field
28		25-May-11	CAGO	2	Hay field
29		4-Apr-11	BUFF	5	Off shore, 10-50m
29		4-Apr-11	COME	18	Off shore, 10-50m
29		4-Apr-11	RBME	65	Off shore, 10-50m
29		4-Apr-11	COGO	19	Off shore, 10-50m
29		4-Apr-11	COGO	35	Off shore, 10-100m
29		4-Apr-11	RBME	20	Off shore, 10-100m
29		14-Apr-11	RBME	24	Water
29		14-Apr-11	COGO	12	Water
29		3-May-11	BUFF	28	Bay
29		3-May-11	RBME	29	Bay
29		11-May-11	RBME	22	Off shore
30		4-Apr-11	COGO	245	Off shore, 10-30m
30		4-Apr-11	MALL	15	Off shore, 10-30m
30		4-Apr-11	BUFF	15	Off shore, 10-30m
30		4-Apr-11	COME	20	Off shore, 10-30m
30		4-Apr-11	RBME	40	Off shore, 10-30m
30		14-Apr-11	BUFF	2	Water
30		14-Apr-11	RBME	2	Water
30		3-May-11	BUFF	2	Bay
30		3-May-11	RBME	8	Bay
30		11-May-11	RBME	14	Off shore
30		17-May-11	COGO	9	Water
31		14-Apr-11	MALL	2	Pond
31		3-May-11	CAGO	2	Fallow field
31		3-May-11	MALL	2	Fallow field
31		25-May-11	GADW	2	Dug pond
32		14-Apr-11	CAGO	2	Field
32		14-Apr-11	CAGO	4	Field
32		14-Apr-11	MALL	2	pond
32		14-Apr-11	CAGO	18	Pasture
32		26-Apr-11	CAGO	2	Hay field
32		26-Apr-11	CAGO	3	Pasture
32		11-May-11	CAGO	4	Agricultural field
32		25-May-11	CAGO	24	Pasture
33		14-Apr-11	CAGO	14	Pasture
33		14-Apr-11	CAGO	18	Pasture
33		14-Apr-11	CAGO	2	Pasture
33		14-Apr-11	MALL	2	Pasture
33		14-Apr-11	CAGO	2	Pasture
33		19-Apr-11	CAGO	15	Pasture
33		26-Apr-11	NSHO	3	Pasture
33		26-Apr-11	CAGO	25	Pasture
33		26-Apr-11	CAGO	3	Pasture
33		26-Apr-11	CAGO	34	Pasture
33		3-May-11	CAGO	33	Pasture
33		3-May-11	CAGO	45	Pasture
33		3-May-11	CAGO	6	Pasture
33		11-May-11	CAGO	20	Agricultural field
33		11-May-11	CAGO	20	Agricultural field
33		11-May-11	MALL	4	Agricultural field
33		17-May-11	CAGO	6	Pasture, field
33		25-May-11	CAGO	5	Pasture, fallow field
33		25-May-11	MALL	2	Pasture
34		14-Apr-11	CAGO	12	Water
35		14-Apr-11	RBME	7	Water
35		14-Apr-11	RBME	12	Water
35		14-Apr-11	COME	2	Water
35		14-Apr-11	BUFF	1	Water
35		14-Apr-11	CAGO	2	Water
35		14-Apr-11	CAGO	2	Lawn
35		19-Apr-11	RBME	3	Water
35		19-Apr-11	BUFF	4	Water
35		19-Apr-11	COGO	12	Water
35		26-Apr-11	RBME	1	Lake Ontario
35		3-May-11	RBME	8	Bay
36		19-Apr-11	CAGO	14	Agricultural field
36		26-Apr-11	CAGO	3	Cut hay
36		26-Apr-11	CAGO	10	Cut hay
36		3-May-11	CAGO	6	Fallow field

36		3-May-11	CAGO	28	Agricultural field
36		17-May-11	CAGO	50	Agricultural field
36		25-May-11	CAGO	120	Clover field
36		25-May-11	MALL	1	Clover field
37		14-Apr-11	CAGO	2	Lawn
37		14-Apr-11	BUFF	2	Water
37		14-Apr-11	COGO	1	Water
37		19-Apr-11	EUWI	1	Beach
37		19-Apr-11	AMWI	8	Beach
37		19-Apr-11	ABDU	8	Beach
37		19-Apr-11	MALL	4	Beach
37		19-Apr-11	GWTE	10	Beach
37		3-May-11	RBME	1	Lake Ontario
37		3-May-11	BUFF	6	Lake Ontario
37		11-May-11	RBME	3	Off shore
37		17-May-11	CAGO	28	Agricultural field
37		17-May-11	RBME	51	Agricultural field
38		19-Apr-11	COGO	100	Water
38		19-Apr-11	BUFF	50	Water
38		19-Apr-11	LTDU	2	Water
38		19-Apr-11	RBME	4	Water
39		19-Apr-11	RNDU	4	Marsh
39		19-Apr-11	CAGO	6	Marsh
39		19-Apr-11	GWTE	4	Marsh
39		19-Apr-11	BUFF	2	Marsh
39		19-Apr-11	MALL	4	Marsh
40		19-Apr-11	COGO	25	Water
40		19-Apr-11	LTDU	3	Water
40		19-Apr-11	RBME	2	Water
40		19-Apr-11	BUFF	2	Water
40		19-Apr-11	COGO	10	Water
40		19-Apr-11	BUFF	10	Water
40		19-Apr-11	BUFF	5	Water
40		19-Apr-11	COGO	30	Water
40		19-Apr-11	RBME	10	Water
40		11-May-11	COME	2	Off shore
40		11-May-11	RBME	11	Off shore
40		11-May-11	MALL	1	Off shore
41		3-May-11	CAGO	4	Pasture
41		3-May-11	MALL	1	Pasture
41		11-May-11	CAGO	2	Agricultural field
41		17-May-11	CAGO	6	Agricultural field
42		3-May-11	CAGO	6	Pasture
42		17-May-11	CAGO	2	Agricultural field
42		25-May-11	CAGO	10	Pasture
42		25-May-11	CAGO	10	Pasture
93		1-Dec-11	COGO	40	
93		7-Dec-11	COGO	140	
A		8-Sep-11	CAGO	25	pasture
A		15-Sep-11	CAGO	80	Lake Ontario
a		16-Dec-11	COGO	70	near shore
a		16-Dec-11	MALL	20	near shore
a		16-Dec-11	CAGO	50	near shore
a		21-Dec-11	TUSW	15	on shore
B		8-Sep-11	CAGO	30	pasture
B		15-Sep-11	CAGO	110	hayfield
b		16-Dec-11	CAGO	150	in bay
b		16-Dec-11	MALL	10	in bay
b		16-Dec-11	COGO	30	in bay
b		16-Dec-11	LTDU	5	in bay
b		16-Dec-11	RBME	10	in bay
b		16-Dec-11	BUFF	1	in bay
b		21-Dec-11	TUSW	6	near shore
b		21-Dec-11	RBME	4	near shore
b		21-Dec-11	BUFF	10	near shore
b		21-Dec-11	COGO	150	near shore
b		21-Dec-11	HOME	2	near shore
b		21-Dec-11	MALL	10	near shore
C		8-Sep-11	CAGO	175	pasture
C		15-Sep-11	CAGO	90	hayfield
c		16-Dec-11	MALL	10	in bay
c		21-Dec-11	COGO	100	offshore
c		21-Dec-11	HADU	1	offshore
d		16-Dec-11	CAGO	50	in bay
d		16-Dec-11	MALL	20	in bay
d		16-Dec-11	GADW	5	in bay
d		16-Dec-11	COGO	50	in bay
d		16-Dec-11	BUFF	10	in bay

d		21-Dec-11	CAGO	250	agricultural field
e		16-Dec-11	CAGO	250	pasture
e		21-Dec-11	CAGO	175	agricultural field
f		16-Dec-11	TUSW	15	in bay
f		16-Dec-11	CAGO	15	in bay
f		16-Dec-11	MALL	10	in bay
f		21-Dec-11	COGO	100	near shore
f		21-Dec-11	BUFF	10	near shore
g		16-Dec-11	BUFF	15	on shore
g		21-Dec-11	BUFF	30	offshore
g		21-Dec-11	ABDU	10	offshore
h		16-Dec-11	MALL	7	pasture
i		16-Dec-11	GRSC	600	shoreline
i		16-Dec-11	CAGO	500	shoreline
i		16-Dec-11	MALL	30	shoreline
i		16-Dec-11	ABDU	50	shoreline
j		16-Dec-11	BUFF	20	offshore
k		16-Dec-11	COGO	100	offshore
k		16-Dec-11	BUFF	40	offshore
l		16-Dec-11	BUFF	20	offshore
l		16-Dec-11	COGO	20	offshore
m		16-Dec-11	BUFF	15	offshore
m		16-Dec-11	COGO	35	offshore
m		16-Dec-11	RBME	2	offshore
n		16-Dec-11	COGO	30	offshore
n		16-Dec-11	RBME	35	offshore
NA		4-Apr-11	RBME	6	Off shore, 30-50m
NA		14-Apr-11	GADW	2	Water
NA		14-Apr-11	COLO	1	Water
NA		14-Apr-11	RBME	6	Water
NA		14-Apr-11	COME	4	Water
NA		14-Apr-11	MALL	1	Water
NA		11-May-11	RBME	3	Off shore
NA		11-May-11	MALL	3	Off shore
o		16-Dec-11	CAGO	80	pasture
p		16-Dec-11	CAGO	110	near shore
p		16-Dec-11	MALL	35	near shore
p		16-Dec-11	ABDU	25	near shore

Summary

CSWH	Species				Grand Total
	Bufflehead (BUFF)	Canada Goose (CAGO)	Gadwall (GADW)	Mallard (MALL)	
WA1	4	32		5	41
WT1		104		1	105
WT2		249		4	253
WT3		40		2	42
WT4		268	2	4	274

Table C: Shorebird Migratory Stopover Area

Date	Species	Number	Location	Behaviour	Height (m)
11-May	WISN	1	Pasture	Feeding	
11-May	SPSA	3	Shore	Flying	0
11-May	UPSA	2	Agricultural Field	On alert on ground	
11-May	SPSA	2	Shore	On rock	
17-May	SOSA	1	Puddle on lawn	Feeding	
17-May	SPSA	2	Shoreline rocks	Feeding	
20-May	KILL	1	Shoreline	on ground, possible breeder	
20-May	WIPH	1	flushed, puddle in field	possible breeder flew up	2
20-May	SPSA	2	Shoreline	on ground, possible breeder	
20-May	SPSA	3	edge of pond	on ground	
20-May	SPSA	2	edge of pond	flying	10
20-May	SPSA	3	shoreline	on ground	
20-May	KILL	1	shoreline	on ground	
20-May	SPSA	6	mudflat	feeding, on ground	
20-May	DUNL	1	mudflat	feeding, on ground	
20-May	WIPH	1	flooded field	flushed, flying, possible breeder	10
20-May	WISN	1	flooded field	flushed, flying, possible breeder	10
20-May	WISN	1	over pasture	displaying, possible breeder	40
25-May	COSN	1	Fallow field on fence	2m perch	
26-May	WIPH	2	irrigation pond on S. shore		
26-May	LESA	2	irrigation pond on S. shore		
26-May	DUNL	2	irrigation pond on S. shore		
26-May	SESA	1	irrigation pond on S. shore		
26-May	SPSA	2	irrigation pond on S. shore		
26-May	DUNL	40	inland pond		
26-May	DUNL	20	shingle shoreline		
26-May	BRANT	5	edge of inland pond		
26-May	DUNL	300	inland pond		
26-May	SESA	20	inland pond		
26-May	BBPL	2	Shingle beach		
26-May	SEPL	1	Shingle beach		
26-May	DUNL	1	Shingle beach		
26-May	SESA	10	Shingle beach		
26-May	SPPA	1	shingle beach	spread out into pairs	
26-May	LESA	2	north shore shingle beach		
26-May	SESA	3	shingle bar north side		
26-May	LESA	6	shingle bar north side		
26-May	SESA	2	shingle bar north side		
26-May	DUNL	2	shingle bar north side		
26-May	RUTU	1	shingle bar north side		

Total

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Table D: Raptor Wintering Area and SEOW Surveys - Driving and Walking Transects

Location (map)	CSWH	Date	Time	Species	#	Age/sex	Height	Direction	Habitat	Behaviour
2	2	9-Nov-11	15:01	SEOW	7				pasture	hunting
3	2	9-Nov-11	15:15	SEOW	4				pasture	hunting
1	4	9-Nov-11	15:01	SEOW	2		n/a	W	pasture	hunting, flew over pasture and crossed road
4	1	24-Nov-11	16:53	SEOW	6			E	pasture	crossed rd and started hunting on E side, all came up at once, seemed to be roosting on west side of rd.
5	6	24-Nov-11	16:13	SEOW	2		30	E	pasture	flying
6	6	24-Nov-11	16:20	SEOW	4		30 to 50		pasture	randomly flying and interacting
7	6	24-Nov-11	16:21	SEOW	3		5 to 10		tall pasture	hunting low
8	6	24-Nov-11	16:30	SEOW	1		5		low pasture	hunting
9	7	24-Nov-11	17:02	SEOW	1		15	E	tall pasture	flying
32	1	1-Dec-11	14:43	AMKE	1		10			on wire
35	1	1-Dec-11	15:08	NSHR	1		20			perched in tree
22	2	1-Dec-11	13:57	RLHA	1		15			perched in tree
22	2	1-Dec-11	13:57	NOHA	1		2			perched on snag
23	2	1-Dec-11	14:01	NOHA	1		2		pasture	hunting
26	2	1-Dec-11	14:07	RTHA	1		20			chasing NOHA
26	2	1-Dec-11	14:07	NOHA	1		20			chasing RTHA
27	2	1-Dec-11	14:09	NOHA	1		5		pasture	hunting
28	2	1-Dec-11	14:13	NOHA	1		0		pasture	hunting
28	2	1-Dec-11	14:15	NOHA	1		2			on post
29	2	1-Dec-11	14:19	RLHA	1		25			perched in tree
31	2	1-Dec-11	14:31	RLHA	1		50			circling
31	2	1-Dec-11	14:34	NOHA	1		0			perched on ground
31	2	1-Dec-11	14:35	AMKE	1		2			perched on post
31	2	1-Dec-11	14:37	NOHA	1		40	NW		flying
36	2	1-Dec-11	15:20	NOHA	1		5		pasture	hunting
37	2	1-Dec-11	15:23	NOHA	2		5		pasture	hunting
38	2	1-Dec-11	15:23	RLHA	1		10			perched on snag
38	2	1-Dec-11	15:28	RTHA	1		15			perched in tree
39	2	1-Dec-11	15:31	NOHA	6		2			on posts
39	2	1-Dec-11	15:31	RLHA	1		2			on posts
39	2	1-Dec-11	15:31	RTHA	2		2			on posts
40	2	1-Dec-11	15:33	NOHA	1		10	S		crossed road
40	2	1-Dec-11	15:33	RTHA	1		10	S		crossed road
41	2	1-Dec-11	15:35	RLHA	4		2			on posts
42	2	1-Dec-11	15:37	RLHA	1		20			perched in tree
42	2	1-Dec-11	15:37	NOHA	2		5		pasture	hunting
44	2	1-Dec-11	15:44	RLHA	1		30	NW		flying
44	2	1-Dec-11	15:46	RTHA	1		20			perched in tree
45	2	1-Dec-11	15:49	RLHA	1		20			perched in tree
45	2	1-Dec-11	15:49	NOHA	1		5			being attacked by CORA
46	2	1-Dec-11	15:51	RTHA	1		20			perched in trees
47	2	1-Dec-11	15:54	RTHA	1		15			perched in tree
43	3	1-Dec-11	15:37	RLHA	3		10,30	NW		one perched, 2 flying
49	3	1-Dec-11	16:13	RTHA	1		20			perched in tree
16	5	1-Dec-11	13:22	AMKE	1		10			on wire
17	5	1-Dec-11	13:23	NOHA	1		5		pasture	hunting
18	5	1-Dec-11	13:26	NOHA	1		50			circling
20	5	1-Dec-11	13:51	RTHA	1		20			perched in tree
21	5	1-Dec-11	13:54	NOHA	1		5		pasture	hunting
1	6	1-Dec-11	12:02	RLHA	1		40			perched in tree
1	6	1-Dec-11	12:03	RTHA	1		40			circling
2	6	1-Dec-11	12:07	RLHA	1		50			circling
3	6	1-Dec-11	12:09	RLHA	1		70			circling
4	6	1-Dec-11	12:10	AMKE	1		10			on wire
12	6	1-Dec-11	12:52	RTHA	1		25			perched in tree
15	6	1-Dec-11	13:20	NOHA	1		5		pasture	hunting
48	6	1-Dec-11	15:57	RTHA	1		20			perched in tree
48	6	1-Dec-11	15:57	RLHA	3		15,40,10	SW		perched, hovering, flying
5	7	1-Dec-11	12:17	RLHA	1		30			hovering
6	7	1-Dec-11	12:20	RLHA	1		30	SE		flying, then perched
7	7	1-Dec-11	12:22	RTHA	1		25	SE		crossed road
8	7	1-Dec-11	12:24	RTHA	1		10			on wire
9	7	1-Dec-11	12:25	RTHA	1		40			circling and being harassed by AMCR
9	7	1-Dec-11	12:28	RLHA	1		40			circling
14	7	1-Dec-11	13:17	RLHA	1		25			perched in tree
10	8	1-Dec-11	12:38	SNOW	1		20			perched in tree
11	8	1-Dec-11	12:40	SNOW	1		0			on shore
13	8	1-Dec-11	13:03	NOHA	1		0			perched on ground
4	1	7-Dec-11	16:47	SEOW	2				pasture	flying/hunting
35	1	7-Dec-11	n/a	RLHA	1		10			in tree
100	1	7-Dec-11	n/a	RLHA	1		15			flew over rd and into pasture
101	1	7-Dec-11	n/a	NOHA	1		3		pasture	hunting
102	1	7-Dec-11	n/a	AMKE	1		10			in tree
102	1	7-Dec-11	n/a	NOHA	1		2	N		flying, hunting
104	1	7-Dec-11	n/a	RLHA	1		20		pasture	flying
105	1	7-Dec-11	n/a	NOHA	1		5		pasture	flying
12	2	7-Dec-11	16:40	SEOW	2				pasture	flying/hunting
13	2	7-Dec-11	16:41	SEOW	1				pasture	flying/hunting
14	2	7-Dec-11	16:42	SEOW	2				pasture	flying/hunting
15	2	7-Dec-11	16:45	SEOW	3				pasture	flying/hunting
16	2	7-Dec-11	16:46	SEOW	1				pasture	flying/hunting
22	2	7-Dec-11	n/a	NOHA	1		2		field	hunting
42	2	7-Dec-11	n/a	RTHA	1		1			on post
44	2	7-Dec-11	n/a	RLHA	1		15			in tree
47	2	7-Dec-11	12:14	NSHR	1		5		hedgerow	perched on bush
47	2	7-Dec-11	12:14	RLHA	1		10		field	perched in tree
65	2	7-Dec-11	n/a	RTHA	1		50	SW	pasture	hunting
66	2	7-Dec-11	n/a	RTHA	1		15			in tree
67	2	7-Dec-11	n/a	RTHA	1		10			on hydroline
68	2	7-Dec-11	n/a	RLHA	12		1			on posts
69	2	7-Dec-11	n/a	RTHA	2		1			on posts
70	2	7-Dec-11	n/a	NOHA	2		1			on posts
70	2	7-Dec-11	n/a	NOHA	1		1			on posts
72	2	7-Dec-11	n/a	AMKE	1		10		pasture	hunting, flying
73	2	7-Dec-11	n/a	NOHA	1		1			on post
78	2	7-Dec-11	n/a	RLHA	1		15		pasture	in tree
79	2	7-Dec-11	n/a	RLHA	1		20		pasture	in tree
82	2	7-Dec-11	n/a	RLHA	1		5			flying, hunting
83	2	7-Dec-11	n/a	RLHA	1		15		pasture	in tree
87	2	7-Dec-11	n/a	NOHA	1		1			eating on fence post
88	2	7-Dec-11	n/a	RLHA	1		15		pasture	in tree
91	2	7-Dec-11	n/a	RTHA	1		10			flying, then perched in tree
93	2	7-Dec-11	n/a	NOHA	3		5 to 10		over marsh	hunting
94	2	7-Dec-11	n/a	RLHA	1		1			on post
95	2	7-Dec-11	n/a	NSHR	1		15			in bush
96	2	7-Dec-11	n/a	NOHA	1		1			on post
50	3	7-Dec-11	9:52	NOHA	1		1			on post
51	3	7-Dec-11	n/a	RTHA	1		10			in tree
52	3	7-Dec-11	n/a	NOHA	1		20			being mobbed, flying
53	3	7-Dec-11	n/a	RLHA	1		15			in tree
54	3	7-Dec-11	n/a	RLHA	1		15			in tree
55	3	7-Dec-11	n/a	RTHA	1		10			in tree
56	3	7-Dec-11	n/a	RTHA	1		15			in tree
71	3	7-Dec-11	n/a	RLHA	7		1			on posts
71	3	7-Dec-11	n/a	RTHA	1		1			on posts
74	3	7-Dec-11	n/a	NOHA	1		5		pasture	hunting
75	3	7-Dec-11	n/a	NOHA	1		10		pasture	hunting
76	3	7-Dec-11	n/a	RLHA	1		10		pasture	hunting
77	3	7-Dec-11	n/a	RTHA	1		10		near FOD	in tree
80	3	7-Dec-11	n/a	NOHA	1		10			hunting
81	3	7-Dec-11	n/a	RTHA	1		15			in tree
11	5	7-Dec-11	16:50	SEOW	1		25		pasture	hunting
89	5	7-Dec-11	n/a	NOHA	1		5			in tree
118	5	7-Dec-11	12:06	RTHA	2		15		roadside	perched in tree
7	6	7-Dec-11	16:30	SEOW	6		5 to 40		pasture	hunting
10	6	7-Dec-11	16:35	SEOW	4		25		pasture	hunting
111	6	7-Dec-11	9:54	RLHA	1		8		pasture	perched on snag
112	6	7-Dec-11	9:59	NOHA	1		2		pasture	perched on post
112	6	7-Dec-11	10:35	SNOW	1		0		pasture	on ground
113	6	7-Dec-11	10:14	RTHA	1		15		pasture	perched in tree
113	6	7-Dec-11	10:58	RLHA	1		15		pasture	perched in tree
114	6	7-Dec-11	10:17	RTHA	1		20		pasture	perched in tree
114	6	7-Dec-11	11:07	NSHR	1		15		pasture	perched in tree
115	6	7-Dec-11	10:18	RTHA	1		15		pasture	perched in tree
115	6	7-Dec-11	11:10	RTHA	1		2		roadside/pasture	perched in tree
119	6	7-Dec-11	12:18	RLHA	1		15		pasture	on post
120	6	7-Dec-11	12:18	RTHA	1		15		road/pasture	circling
14	7	7-Dec-11	10:48	SNOW	1		2		pasture	on post
108	10	7-Dec-11	8:55	RTHA	1		15		forest/shrubland	perched in tree
109	9	7-Dec-11	9:03	RTHA	1		15		roadside/shore	perched in tree
20	1	20-Dec-11	16:25	SEOW	3		20		pasture	feeding
12	2	20-Dec-11	16:00	SEOW	4		10		pasture	hunting
17	2	20-Dec-11	16:05	SEOW	3		15		pasture	hunting
18	2	20-Dec-11	16:07	SEOW	6		10		pasture	hunting
19	2	20-Dec-11	16:19	SEOW	1		5		hay	hunting
21	6	20-Dec-11	15:58	SEOW	11		2 to 5		reed canary meadow/fallow/pasture	hunting, flying
22	6	20-Dec-11	16:49	SEOW	1		10		pasture	hunting, flying
105	1	21-Dec-11	13:17	NOHA	1		5		hay field	on post
37	2	21-Dec-11	11:36	NOHA	1		5		pasture	on post
42	2	21-Dec-11	11:53	RTHA	1		5		pasture	on post
44	2	21-Dec-11	11:56	RLHA	1		5		pasture	on post
47	2	21-Dec-11	12:33	NOHA	1		10			in tree

65	2	21-Dec-11	11:31	RLHA	1		5		pasture	on post
70	2	21-Dec-11	11:47	RTHA	1		5		pasture	flying
73	2	21-Dec-11	11:53	NOHA	1		5		pasture	on post
78	2	21-Dec-11	12:09	RLHA	1		15		pasture	in tree
78	2	21-Dec-11	12:32	RLHA	1		15		pasture	in tree
95	2	21-Dec-11	12:40	RLHA	1		5		over swamp	flying
123	2	21-Dec-11	11:35	NOHA	1		5		pasture	flying
123	2	21-Dec-11	13:00	RLHA	1		20		pasture	flying
125	2	21-Dec-11	11:40	RTHA	1		5		pasture	on post
126	2	21-Dec-11	11:40	SNOW	1		5		pasture	on post
127	2	21-Dec-11	11:42	RTHA	3		5		pasture	on post
128	2	21-Dec-11	11:42	RLHA	5		5		pasture	on post
130	2	21-Dec-11	11:45	RLHA	4		5		pasture	on post
131	2	21-Dec-11	11:45	NOHA	1		5		pasture	on post
132	2	21-Dec-11	11:53	RLHA	1		5		pasture	on post
134	2	21-Dec-11	11:59	NOHA	1		5		pasture	on post
135	2	21-Dec-11	12:00	RLHA	1		5		pasture	on post
136	2	21-Dec-11	12:07	NOHA	1		5		pasture	on post
137	2	21-Dec-11	12:13	NOHA	1		5		hay field	flying
139	2	21-Dec-11	12:24	NOHA	1		10		corn field	flying
142	2	21-Dec-11	12:57	NOHA	2		5		pasture	flying
51	3	21-Dec-11	10:04	RLHA	1		10		pasture	in tree
71	3	21-Dec-11	11:47	NOHA	2		5		pasture	flying
121	3	21-Dec-11	10:05	NOHA	1		5		pasture	on post
122	3	21-Dec-11	10:16	RTHA	1		5		pasture	on post
124	3	21-Dec-11	11:37	RTHA	1		5		hay field	on post
129	3	21-Dec-11	11:43	RTHA	1		5		pasture	on post
133	3	21-Dec-11	11:58	NOHA	1		5		pasture	in tree
20	5	21-Dec-11	12:24	RTHA	1		5		pasture	in tree
118	5	21-Dec-11	12:19	NOHA	2		3	W		in tree
138	5	21-Dec-11	12:21	AMKE	1		5		till field	flying
155	5	21-Dec-11	12:13	NOHA	1		0			on ground
156	5	21-Dec-11	12:17	RTHA	1		10			in tree
3	6	21-Dec-11	11:01	RTHA	1		10			in tree
48	6	21-Dec-11	12:38	RLHA	1		1			on post
146	6	21-Dec-11	10:07	AMKE	1		1			on post
147	6	21-Dec-11	10:22	NOHA	1		10			hunting
151	6	21-Dec-11	11:37	AMKE	1		2			in tree
157	6	21-Dec-11	12:31	RTHA	1		10			in tree
158	6	21-Dec-11	12:37	NOHA	1		2			hunting
159	6	21-Dec-11	12:45	RTHA	1		10			in tree
7	7	21-Dec-11	10:27	NOHA	1		10			hunting
148	7	21-Dec-11	10:28	RTHA	1		1			on post
149	8	21-Dec-11	10:39	RLHA	1		5			in tree
150	8	21-Dec-11	11:00	SNOW	1		0			on ground
24	1	10-Jan-12	16:54	SEOW	1		n/a		old field	hunting
25	1	10-Jan-12	17:09	SEOW	1		n/a		old field	hunting
100	1	10-Jan-12	11:00	RLHA	2		5 to 15			foraging
22	2	10-Jan-12	11:36	RTHA	1		8			perched
31	2	10-Jan-12	11:08	NOHA	2		2 to 5			foraging
38	2	10-Jan-12	11:15	RTHA	1		5			perched
44	2	10-Jan-12	11:25	RLHA	4		1 to 4			perched
67	2	10-Jan-12	11:08	RTHA	1		25			foraging
83	2	10-Jan-12	11:25	RTHA	1		1			perched
94	2	10-Jan-12	11:44	RTHA	1		5			perched
96	2	10-Jan-12	11:44	NOHA	1		3			foraging
171	2	10-Jan-12	11:08	RTHA	1		25			foraging
176	2	10-Jan-12	n/a	RLHA	2		5 to 8			1 perched, 1 foraging
177	2	10-Jan-12	11:36	NOHA	1		3			foraging
169	3	10-Jan-12	10:29	RLHA	1		3 to 8			foraging
173	3	10-Jan-12	11:15	NOHA	1		3			foraging
174	3	10-Jan-12	11:25	NOHA	2		3			foraging
155	5	10-Jan-12	11:04	NOHA	1		20		road	circling overhead
3	6	10-Jan-12	10:51	NOHA	1	female	5		pasture	hunting
8	6	10-Jan-12	17:17	SEOW	1		10		pasture	flying/hunting
15	6	10-Jan-12	11:01	AMKE	1	female	3			in shrub
21	6	10-Jan-12	16:32	SEOW	1		10		pasture adjacent to roost	hunting
23	6	10-Jan-12	17:15	SEOW	2		20		pasture	flying
160	6	10-Jan-12	10:09	RLHA	1		2		pasture	on post
161	6	10-Jan-12	10:10	RLHA	1		3		pasture	in shrub
161	6	10-Jan-12	11:53	RTHA	1		4			perched
162	6	10-Jan-12	10:11	RLHA	1		20		pasture	flying
164	6	10-Jan-12	10:46	RLHA	1		10		roadside near pasture	in tree
165	6	10-Jan-12	11:33	RTHA	1	adult	8		near hayfield	in tree
166	6	10-Jan-12	11:36	RLHA	1		40		pasture	circling overhead
168	6	10-Jan-12	11:38	AMKE	1	male	5		pasture	in shrub
179	6	10-Jan-12	11:58	NOHA	1		3			foraging
111	7	10-Jan-12	11:52	NOHA	1		2			foraging
114	7	10-Jan-12	11:57	RLHA	1		5			perched
114	7	10-Jan-12	12:02	CORA	1		8			flying
163	7	10-Jan-12	10:15	RTHA	1		5		fallow field	in tree
180	7	10-Jan-12	12:04	RLHA	1		15 to 20			foraging
167	8	10-Jan-12	11:37	NOHA	1	male	5		hay field	hunting
190	1	24-Jan-12	14:43	RTHA	1	juvenile	15		roadside	perched in tree
17	2	24-Jan-12	17:35	SEOW	1		10		pasture	hunting
27	2	24-Jan-12	17:27	SEOW	3		25		pasture	hunting
27	2	24-Jan-12	17:32	SEOW	2		10		pasture	hunting
28	2	24-Jan-12	17:37	SEOW	1		30		pasture	harrasing SNOW
36	2	24-Jan-12	14:46	RLHA	1		10		pasture	hunting
38	2	24-Jan-12	13:55	RLHA	2		5		pasture	hunting
70	2	24-Jan-12	14:05	RLHA	1		8		pasture	hunting
73	2	24-Jan-12	14:07	RLHA	1		10		pasture	hunting
88	2	24-Jan-12	14:20	RLHA	1		10			perched in tree
90	2	24-Jan-12	14:23	NOHA	1	adult female	5		fallow field	hunting
95	2	24-Jan-12	14:34	RTHA	1	adult	5			perched on wire
125	2	24-Jan-12	13:55	RLHA	1		10		pasture	hunting
132	2	24-Jan-12	14:10	NOHA	1	male	5		hay field	hunting
171	2	24-Jan-12	14:44	NOHA	1	juvenile	0		pasture	perched on ground
185	2	24-Jan-12	13:57	RTHA	1	adult	5		pasture	on post
185	2	24-Jan-12	13:58	RLHA	2		15		pasture	hunting
186	2	24-Jan-12	14:11	RLHA	1		30	sw		flying
187	2	24-Jan-12	14:14	AMKE	1		5		roadside	perched on post
188	2	24-Jan-12	14:29	NOHA	1	adult female	5		hay field	hunting
189	2	24-Jan-12	14:40	NOHA	1		5			on hay ball
183	3	24-Jan-12	13:22	RLHA	1		20		pasture	hunting
184	3	24-Jan-12	13:24	RLHA	1		2			perched on fence post
21	5	24-Jan-12	14:17	SNOW	1		2			roosting on fencepost
151	6	24-Jan-12	14:17	AMKE	1		5			perched on wire
158	6	24-Jan-12	14:10	RLHA	1		1.5			perched on post
158	6	24-Jan-12	14:11	AMKE	1		5	w		flying/foraging
161	6	24-Jan-12	13:21	RLHA	1		8			foraging
161	6	24-Jan-12	13:21	NOHA	1		1.5			perched on post
161	6	24-Jan-12	13:21	SNOW	1		1.5			perched on post
179	6	24-Jan-12	13:32	NOHA	1		2			foraging
181	6	24-Jan-12	14:42	SNOW	1		0			perched on ground
182	6	24-Jan-12	14:42	NOHA	1		10	w		flying/foraging
111	7	24-Jan-12	13:17	RLHA	1		3			foraging
114	7	24-Jan-12	13:28	NSHR	1		6			perched in tree
114	7	24-Jan-12	13:29	SNOW	1		0		field	on ground
114	7	24-Jan-12	13:55	RTHA	3		15		over woods	soaring
180	7	24-Jan-12	13:59	RLHA	1		15			perched in tree
31	1	7-Feb-12	17:05	SEOW	12		n/a		pasture/fallow	flew up from roost, flying/perched
32	1	7-Feb-12	13:19	RTHA	2	adult	150			Kettling
32	1	7-Feb-12	13:20	RLHA	2		100			Kettling
40	2	7-Feb-12	12:00	RLHA	2		5		pasture	hunting
42	2	7-Feb-12	12:04	RTHA	2		20		pasture	hunting
42	2	7-Feb-12	12:04	RLHA	2		20		pasture	hunting
45	2	7-Feb-12	12:09	RLHA	1		0			perched on ground
68	2	7-Feb-12	11:58	NOHA	2	female	10		pasture	hunting
69	2	7-Feb-12	12:01	AMKE	1		10		over pasture	perched on wire
72	2	7-Feb-12	12:02	RTHA	2	adult	50	S	pasture	flying
83	2	7-Feb-12	12:11	RTHA	1	adult	8		edge of woodlot	
171	2	7-Feb-12	13:02	NOHA	3		0		pasture	perched on ground
171	2	7-Feb-12	13:05	RLHA	1		15		pasture	hunting
204	2	7-Feb-12	11:56	RLHA	2		5		pasture	perched on fence post
208	2	7-Feb-12	12:40	RLHA	9		80		pasture	flying
208	2	7-Feb-12	12:40	RTHA	3		80		pasture	flying
209	2	7-Feb-12	12:43	NOHA	3		10		pasture	hunting
210	2	7-Feb-12	12:45	PEFA	1		100	N		
211	2	7-Feb-12	12:52	BAEA	1		600			Kettling
211	2	7-Feb-12	12:52	RTHA	1		600			Kettling
211	2	7-Feb-12	12:52	RLHA	3		600			Kettling
198	3	7-Feb-12	10:55	NOHA	1	male	10		fallow field	hunting
199	3	7-Feb-12	11:02	NOHA	1	female	10		pasture	hunting
200	3	7-Feb-12	11:03	RLHA	1		10		pasture	hunting
201	3	7-Feb-12	11:08	NOHA	1	male	10		pasture	hunting
205	3	7-Feb-12	12:12	RLHA	1		35		hay field	hunting
206	3	7-Feb-12	12:15	SNOW	1		0		hay field	roosting
196	5	7-Feb-12	12:15	RTHA	1		10			perched in tree
196	5	7-Feb-12	12:30	RTHA	1		40		over woods	flying
207	5	7-Feb-12	12:35	RTHA	1		50		over woods	flying
115	6	7-Feb-12	12:40	RLHA	1		15			foraging
159	6	7-Feb-12	12:30	RLHA	1		15			foraging
195	6	7-Feb-12	11:35	SNOW						

192	7	7-Feb-12	11:21	SNOW	1		0			perched on ground
192	7	7-Feb-12	11:21	SNOW	1		2			perched on post
193	7	7-Feb-12	11:22	BAEA	1	juvenile	25			flying south of island by 0.5km
194	7	7-Feb-12	11:25	NOHA	3		10 to 15			foraging
194	7	7-Feb-12	11:25	RTHA	1		15			foraging
11	8	7-Feb-12	11:12	SNOW	1		n/a (below sweep)			perched on shed
29	8	7-Feb-12	17:20	SEOW	4		n/a		pasture	hunting
4	1	22-Feb-12	17:08	SEOW	13		to 50m		field	flew up from roost then dispersed
101	1	22-Feb-12	12:46	RLHA	1		20		pasture	hover hunting
190	1	22-Feb-12	12:43	RSHA	1	juvenile	15		woods	flew through
225	1	22-Feb-12	13:02	RTHA	2	adult	50		over woods	circling
22	2	22-Feb-12	12:16	RTHA	1		5		hay field	perched on post
27	2	22-Feb-12	12:21	NOHA	1	juvenile	5		hay field	hunting
28	2	22-Feb-12	12:23	RLHA	4		40		fallow field	hunting
28	2	22-Feb-12	12:23	NOHA	2		40		fallow field	hunting
39	2	22-Feb-12	11:53	RLHA	8		5 to 25		pasture	hunting
39	2	22-Feb-12	11:53	RTHA	3		5 to 25		pasture	hunting
70	2	22-Feb-12	11:55	RTHA	1		40		pasture	hunting
70	2	22-Feb-12	11:55	RLHA	2		40		pasture	hunting
73	2	22-Feb-12	11:58	RLHA	3		40		pasture	hunting
87	2	22-Feb-12	12:18	RLHA	1		40		hay field	hover hunting
134	2	22-Feb-12	12:01	RTHA	1		20		pasture	hunting
134	2	22-Feb-12	12:01	RLHA	1		20		pasture	hunting
208	2	22-Feb-12	12:29	RTHA	1		40		over woods	flying
209	2	22-Feb-12	12:28	SNOW	1		2		farm equipment	roosting
218	2	22-Feb-12	12:10	SNOW	1		0		pasture	perched on ground
221	2	22-Feb-12	11:49	RLHA	1		20		pasture	hover hunting
75	3	22-Feb-12	12:02	RTHA	1		15		woodlot	flew into woodlot
206	3	22-Feb-12	12:06	SNOW	1		0		hay field	roosting
219	3	22-Feb-12	10:55	RLHA	1		25		pasture	hover hunting
220	3	22-Feb-12	11:44	RLHA	1		40	S	over woods	flying
222	3	22-Feb-12	11:59	RLHA	1		10		hay field	perched in tree
155	5	22-Feb-12	12:00	NOHA	2		2	W	pasture	foraging
111	6	22-Feb-12	10:55	RLHA	2		3 to 8		field	foraging
111	6	22-Feb-12	11:05	RTHA	1		1			perched on fence post
195	6	22-Feb-12	11:25	SNOW	1		8			perched on telephone pole
195	6	22-Feb-12	11:25	AMKE	1		6			perched on telephone pole
195	6	22-Feb-12	11:25	RTHA	1		8			perched in tree
215	6	22-Feb-12	11:30	SNOW	1		1			perched on fence post
216	6	22-Feb-12	11:40	RTHA	1		6			perched in tree
217	6	22-Feb-12	12:05	AMKE	1		1		pasture	perched on post
213	7	22-Feb-12	11:08	AMKE	1		2			foraging
214	7	22-Feb-12	11:15	NSHR	1		3		hedgerow	perched
22	2	7-Mar-12	17:18	NOHA	1		5		hayfield	flying
23	2	7-Mar-12	17:16	RTHA	1		10		hayfield	perched in tree
31	2	7-Mar-12	16:21	RLHA	1		0		pasture	perched on ground
31	2	7-Mar-12	16:21	RLHA	1		1		pasture	perched on fence post
33	2	7-Mar-12	17:50	SEOW	2		>5			flying/hunting
34	2	7-Mar-12	17:56	SEOW	2		40			perched on fence post

37	2	7-Mar-12	18:12	SEOW	3		n/a			pasture	flying/hunting
37	2	7-Mar-12	16:34	NOHA	1	female	0			pasture	perched on ground
38	2	7-Mar-12	18:20	SNOW	1		15				flying, perched in tree
41	2	7-Mar-12	16:20	NOHA	1	female	1			pasture	flying
65	2	7-Mar-12	14:40	RTHA	1		1			pasture	perched on fence post
68	2	7-Mar-12	16:28	AMKE	1		30			pasture	flying
88	2	7-Mar-12	17:22	SEOW	7		5			fallowhay	flying
96	2	7-Mar-12	16:59	RLHA	2		10			hayfield	perched in hedgerow
137	2	7-Mar-12	17:31	AMKE	1		7			hayfield	flew to hydropole
177	2	7-Mar-12	14:35	RLHA	1		5			pasture	hunting
187	2	7-Mar-12	17:28	AMKE	1		7			hayfield	perched on hydropole
189	2	7-Mar-12	16:57	NOHA	3	2xmale, 1 female	15			hayfield	flying
210	2	7-Mar-12	17:08	SNOW	1		1			hayfield	perched on fence post
210	2	7-Mar-12	17:08	NOHA	1		2			hayfield	flying
211	2	7-Mar-12	17:06	unidentified	1		5			woodland	perched in tree
231	2	7-Mar-12	14:42	RLHA	1		50			pasture	flying
235	2	7-Mar-12	16:45	SEOW	8		up to 10			pasture	perched/flying
35	3	7-Mar-12	18:01	SEOW	3		n/a				perched in tree
71	3	7-Mar-12	15:29	NOHA	2	male and female	1 to 2			hay field	flying/hunting
71	3	7-Mar-12	16:18	RTHA	2		2 to 10			pasture	perched in tree/shrub
75	3	7-Mar-12	15:18	COHA	1		10			woodlot	flying
76	3	7-Mar-12	15:52	RLHA	1		2			hayfield	perched in shrub
77	3	7-Mar-12	16:08	RTHA	1		30			hayfield	flying
80	3	7-Mar-12	15:42	RTHA	1		10			hayfield	perched in tree
80	3	7-Mar-12	15:42	RLHA	1		30			hayfield	flying
129	3	7-Mar-12	16:26	RLHA	1		30			hayfield	flying
183	3	7-Mar-12	15:03	RLHA	2		60			hay field	flying
198	3	7-Mar-12	15:21	RTHA	2		n/a			woodlot	pair mating
199	3	7-Mar-12	15:05	RLHA	1		5			hay field/woodlot	perched in tree
200	3	7-Mar-12	15:04	SNOW	1		0			hay field	perched on ground
222	3	7-Mar-12	16:15	RLHA	2		2			hayfield	perched in shrub
233	3	7-Mar-12	16:01	RTHA	1		5			edge of woodlot/hayfield	perched in tree
234	3	7-Mar-12	16:30	RLHA	1		5			hayfield	perched in hedgerow
21	5	7-Mar-12	17:20	SEOW	1		5			hayfield	perched in tree
89	5	7-Mar-12	17:18	RTHA	2		5			hayfield	perched in tree
138	5	7-Mar-12	17:17	AMKE	2		7			lawn/woodlot	perched on wire
156	5	7-Mar-12	11:58	AMKE	1		10			pasture	hover hunting
2	6	7-Mar-12	11:02	RLHA	1		40			pasture	hover hunting
21	6	7-Mar-12	18:18	SEOW	1		20			pasture	hunting
36	6	7-Mar-12	18:07	SEOW	3		10			pasture	flying/hunting
112	6	7-Mar-12	11:14	RTHA	1		7			pasture	perched in tree
195	6	7-Mar-12	11:49	AMKE	1	female	10			over hayfield	perched on wire
226	6	7-Mar-12	10:57	RLHA	2		15			pasture	hunting
228	6	7-Mar-12	11:50	SNOW	1	male	10			over hayfield	perched on telephone pole
229	6	7-Mar-12	11:54	SNOW	1	female	2			pasture	perched on fence post
230	6	7-Mar-12	12:25	RTHA	1	adult	10			over road	flying
227	7	7-Mar-12	11:30	RTHA	1	adult	15			E fallow field	flying
11	8	7-Mar-12	11:16	SNOW	2		0			pasture	roosting
32	8	7-Mar-12	17:50	SEOW	6		20			KFN property	hunting
150	8	7-Mar-12	11:12	RLHA	1		20			pasture	hunting
167	8	7-Mar-12	15:42	MERL	1		1			hay field	perched on post
167	8	7-Mar-12	15:48	AMKE	1		5			hayfield	perched in tree
	3	9-Nov-11	9:15	NOHA	1					pasture/red cedar	perched and hunting
	2	24-Nov-11	13:20	NOHA	2					pasture	hunting and resting
	2	24-Nov-11	13:20	AMKE	1					pasture	perched
	2	24-Nov-11	14:25	AMKE	1					pasture	hunting
	2	24-Nov-11	14:25	RLHA	1					pasture	hunting
	3	24-Nov-11	12:00	SEOW	28					pasture	flushed
	6	24-Nov-11	14:16	NSHR	1						
	2	7-Dec-11		SEOW	1					reed canary grass	roosting
	2	7-Dec-11		RLHA	1					woodland	flushed
	4	20-Dec-11		SEOW	1						predated
	2	20-Dec-11	9:15	SEOW	5					cultural meadow	roosting
	2	20-Dec-11	9:15	SEOW	10					cultural meadow	roosting
	2	20-Dec-11	9:15	NOHA	1					fallow thicket	flushed
	6	20-Dec-11	14:00	SEOW	3					fallow field	roosting
	5	10-Jan-12	14:00	RTHA	1					pasture	perched
	5	10-Jan-12	14:00	NOHA	2					pasture	foraging
	5	10-Jan-12	14:00	NSHR	1					pasture	perched
	7	10-Jan-12	13:17	SNOW	1					pasture	roosting
	7	10-Jan-12	13:35	SNOW	1					pasture	roosting
	7	10-Jan-12	14:43	SEOW	1					pasture	roosting
	1	24-Jan-12	13:10	NOHA	1					hayfield	flying
	1	24-Jan-12	13:10	RTHA	2					deciduous forest	perched
	5	25-Jan-12	12:30	SEOW	16					fallow pasture	roosting
	5	25-Jan-12	12:30	SEOW	1					grass between hayfields	roosting
	2	7-Feb-12	13:45	RTHA	1					woodland	perched
	2	7-Feb-12	14:10	NOHA	1					pasture	foraging
	2	7-Feb-12	14:25	NOHA	1					pasture	foraging
	2	7-Feb-12	14:45	RTHA	1					pasture	perched
	6	7-Feb-12	13:30	SEOW	1					reed canary grass	roosting
	6	7-Feb-12	13:30	SEOW	2					reed canary grass	roosting
	6	7-Feb-12	13:30	SEOW	1					reed canary grass	roosting
	6	7-Feb-12	13:30	SEOW	1					ice	roosting
	2	22-Feb-12	12:40	SEOW	1					reed canary grass	roosting
	2	22-Feb-12	12:40	RTHA	3					agricultural field	roosting
	2	22-Feb-12	12:40	NOHA	1					agricultural field	foraging
	2	22-Feb-12	12:40	SEOW	9					sedge wetland	roosting
	4	22-Feb-12	14:08	SNOW	1					agricultural field	roosting
	5	20-Mar-12	15:20	SEOW	1					tall grass	roosting

Summary

RWA and Date	Species														Grand Total
	American Kestrel	Bald Eagle	Cooper's Hawk	Common Raven	Merlin	Northern Harrier	Northern Shrike	Peregrine Falcon	Rough-legged Hawk	Red-shouldered Hawk	Red-tailed Hawk	Short-eared Owl	Snowy Owl	Unk	
1	2					5	1		8	1	7	38			62
11/24/2011												6			6
12/1/2011	1						1								2
12/7/2011	1					3			3			2			9
12/20/2011												3			3
12/21/2011						1									1
1/10/2012									2			2			4
1/24/2012						1					3				4
2/7/2012									2		2	12			16
2/22/2012									1	1	2	13			17
2	9	1				75	2	1	123		52	89	5	1	358
11/9/2011												11			11
11/24/2011	2					2			1						5
12/1/2011	1					21			22		8				52
12/7/2011	1					10	2		21		7	10			51
12/20/2011						1						29			30
12/21/2011						11			17		6		1		35
1/10/2012						4			6		6				16
1/24/2012	1					5			10		2	7			25
2/7/2012	1	1				10		1	20		11				44
2/22/2012						4			20		10	10	2		46
3/7/2012	3					7			6		2	22	2	1	43
3			1			18			31		18	31	3		102
11/9/2011						1									1
11/24/2011												28			28
12/1/2011									3		1				4
12/7/2011						5			10		6				21
12/21/2011						4			1		3				8
1/10/2012						3			1						4
1/24/2012									2						2
2/7/2012						3			2				1		6
2/22/2012									3		1		1		5
3/7/2012			1			2			9		7	3	1		23
4												3	1		4
11/9/2011												2			2
12/20/2011												1			1
2/22/2012													1		1
5	5					12	1				11	20	1		50
12/1/2011	1					3					1				5
12/21/2011	1					3					2				6
1/10/2012						3	1				1				5
1/24/2012													1		1
1/25/2012												17			17
2/7/2012											3				3
2/22/2012						2									2
3/7/2012	3										2	1			6
3/20/2012												1			1
6	11					10	2		27		18	47	9		124
11/24/2011							1					10			11
12/1/2011	1					1			6		3				11

12/7/2011					1	1		3		5	10	1		21	
12/20/2011											15			15	
12/21/2011	2				2			1		3				8	
1/10/2012	2				2			5		2	4			15	
1/24/2012	2				3			2				2		9	
2/7/2012	1				1			5			4	2		13	
2/22/2012	2							2		3		2		9	
3/7/2012	1							3		2	4	2		12	
7	1	1	1		6	2		8		11	4	6		40	
11/24/2011											1			1	
12/1/2011								4		3				7	
12/7/2011												1		1	
12/21/2011					1					1				2	
1/10/2012				1	1			2		1	1	2		8	
1/24/2012						1		2		3		1		7	
2/7/2012		1			4					2	2	2		11	
2/22/2012	1					1								2	
3/7/2012										1				1	
8	1				1	2		2		10	6			22	
12/1/2011					1							2		3	
12/21/2011								1				1		2	
1/10/2012					1									1	
2/7/2012											4	1		5	
3/7/2012	1				1			1			6	2		11	
9										1				1	
12/7/2011										1				1	
10										1				1	
12/7/2011										1				1	
Grand Total	29	2	1	1	1	128	8	1	199	1	119	242	31	1	764

Table E: Migratory Landbird Survey
ML1 - Spring

Start UTM: 18T 0359714 4887186

End UTM: 18T 0360085 4887526

Habitat: Ash lowland

Obs: Matthew Ross

Don Graham

Jim Heslop

Date:	27-Apr-11	4-May-11	12-May-11	18-May-11	19-May-11	26-May-11	Total
Start time:	9:44	9:37	7:39	9:00	9:11	8:03	
End time:	10:19	10:29	9:19	9:55	9:46	8:21	

COMMON NAME	SCIENTIFIC NAME	27-Apr-11	4-May-11	12-May-11	18-May-11	19-May-11	26-May-11	Total
American Crow	<i>Corvus brachyrhynchos</i>	2	1		2	1	6	12
American Goldfinch	<i>Carduelis tristis</i>	1		2	1	1		5
American Redstart	<i>Setophaga ruticilla</i>			1	1	2	1	5
American Robin	<i>Turdus migratorius</i>	10	8	12	5	8	6	49
American Woodcock	<i>Scolopax minor</i>	1						1
Baltimore Oriole	<i>Icterus galbula</i>			2	2	4		8
Barn Swallow	<i>Hirundo rustica</i>		3					3
Black-and-white Warbler	<i>Mniotilta varia</i>	1		1				2
Black-capped Chickadee	<i>Poecile atricapillus</i>	5	1	6	2		1	15
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>				1	1		2
Black-throated Green Warbler	<i>Dendroica virens</i>			1	2	2	1	6
Blue Jay	<i>Cyanocitta cristata</i>	1	1	4		4	1	11
Brown Creeper	<i>Certhia americana</i>	2	4	1				7
Brown-headed Cowbird	<i>Molothrus ater</i>			4				4
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>				1			1
Common Grackle	<i>Quiscalus quiscula</i>			1		7		8
Common Raven	<i>Corvus corax</i>			1				1
Common Yellowthroat	<i>Geothlypis trichas</i>		1		1	2	2	6
Downy Woodpecker	<i>Picoides pubescens</i>	2	1	3	2	2		10
Eastern Wood-Pewee	<i>Contopus virens</i>				1		1	2
European Starling	<i>Sturnus vulgaris</i>	12	4	9	4	4	3	36
Evening Grosbeak	<i>Coccothraustes vespertinus</i>							0
Great Crested Flycatcher	<i>Myiarchus crinitus</i>				1	2	1	4
Great Horned Owl	<i>Bubo virginianus</i>	1	1	1				3
Hermit Thrush	<i>Catharus guttatus</i>			2				2
House Sparrow	<i>Passer domesticus</i>							0
House Wren	<i>Troglodytes aedon</i>		1	3	5	6	2	17
Least Flycatcher	<i>Empidonax minimus</i>			1				1
Magnolia Warbler	<i>Dendroica magnolia</i>					1		1
Mourning Dove	<i>Zenaidura macroura</i>				1			1
Nashville Warbler	<i>Vermivora ruficapilla</i>			4				4
Northern Cardinal	<i>Cardinalis cardinalis</i>			2				2
Northern Flicker	<i>Colaptes auratus</i>	2	3	1		1		7
Ovenbird	<i>Seiurus aurocapilla</i>			1		1		2
Palm Warbler	<i>Dendroica palmarum</i>			5				5
Pileated Woodpecker	<i>Dryocopus pileatus</i>	2		1				3
Pine Siskin	<i>Carduelis pinus</i>							0
Purple Martin	<i>Progne subis</i>		1					1
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>			1		2		3
Red-eyed Vireo	<i>Vireo olivaceus</i>					1	1	2
Red-tailed Hawk	<i>Buteo jamaicensis</i>	1		2		1		4
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	3			2	4	4	13
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>		2	5	5	10	1	23
Ruby-crowned Kinglet	<i>Regulus calendula</i>	1		2				3
Rusty Blackbird	<i>Euphagus carolinus</i>			4				4
Song Sparrow	<i>Melospiza melodia</i>	4	2	3		1	1	11
Swainson's Thrush	<i>Catharus ustulatus</i>			1	2			3
Tree Swallow	<i>Tachycineta bicolor</i>	1	7	6				14
Veery	<i>Catharus fuscescens</i>				2			2
White-breasted Nuthatch	<i>Sitta carolinensis</i>	3	4	2	1	2		12
White-throated Sparrow	<i>Zonotrichia albicollis</i>			3		1		4
Wilson's Snipe	<i>Gallinago delicata</i>	3						3
Wood Duck	<i>Aix sponsa</i>	4	1		3	3		11
Wood Thrush	<i>Hylocichla mustelina</i>			6	2	2	1	11
Yellow Warbler	<i>Dendroica petechia</i>						3	3
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	3	1					4
Yellow-rumped Warbler	<i>Dendroica coronata</i>	1		20				21

total individuals	66	48	126	49	76	36	401
total species	23	20	38	23	27	17	57
Total Species #:	57						
Total Individuals:	401						

Migratory Landbird Survey
ML2 - Spring

Start UTM: 18T 0363296 4888955

End UTM: 18T 0363041 4888494

Habitat: SWD Bur Oak and Shagbark Hickory

Obs: Don Graham

Matthew Ross

Bob Stamp

Date:	27-Apr-11	4-May-11	11-May-11	18-May-11	19-May-11	26-May-11	
Start time:	8:58	8:36	10:25	10:52	9:20	11:59	
End time:	9:23	9:00	10:45	11:16	10:06	12:37	Total

COMMON NAME	SCIENTIFIC NAME						
American Crow	<i>Corvus brachyrhynchos</i>			1			1
American Goldfinch	<i>Carduelis tristis</i>		1	1	1	2	7
American Redstart	<i>Setophaga ruticilla</i>						1
American Robin	<i>Turdus migratorius</i>	6	4	2	1	3	23
American Woodcock	<i>Scolopax minor</i>					1	1
Baltimore Oriole	<i>Icterus galbula</i>			2	1		3
Bay-breasted Warbler	<i>Dendroica castanea</i>					2	2
Belted Kingfisher	<i>Ceryle alcyon</i>				1		1
Black-and-white Warbler	<i>Mniotilta varia</i>	1				1	2
Blackburnian Warbler	<i>Dendroica fusca</i>					2	2
Black-capped Chickadee	<i>Poecile atricapillus</i>	3	5		1		9
Blackpoll Warbler	<i>Dendroica striata</i>					1	1
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>				2	2	5
Black-throated Green Warbler	<i>Dendroica virens</i>		1			1	2
Blue-headed Vireo	<i>Vireo solitarius</i>					1	1
Brown Creeper	<i>Certhia americana</i>	1					1
Brown Thrasher	<i>Toxostoma rufum</i>	2				1	3
Brown-headed Cowbird	<i>Molothrus ater</i>	2				2	6
Canada Warbler	<i>Wilsonia canadensis</i>					2	2
Cedar Waxwing	<i>Bombycilla cedrorum</i>						1
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>				1	3	4
Common Grackle	<i>Quiscalus quiscula</i>				1	2	3
Common Yellowthroat	<i>Geothlypis trichas</i>			1		1	5
Downy Woodpecker	<i>Picoides pubescens</i>	1					1
European Starling	<i>Sturnus vulgaris</i>	5	8		1	2	20
Evening Grosbeak	<i>Coccothraustes vespertinus</i>						0
Golden-crowned Kinglet	<i>Regulus satrapa</i>		1				1
Gray Catbird	<i>Dumetella carolinensis</i>			3	1	3	12
Great Crested Flycatcher	<i>Myiarchus crinitus</i>					1	1
House Sparrow	<i>Passer domesticus</i>						0
House Wren	<i>Troglodytes aedon</i>		1			1	3
Least Flycatcher	<i>Empidonax minimus</i>					3	4
Lincoln's Sparrow	<i>Melospiza lincolni</i>					2	2
Magnolia Warbler	<i>Dendroica magnolia</i>				2	15	17
Mourning Dove	<i>Zenaidura macroura</i>		1				1
Nashville Warbler	<i>Vermivora ruficapilla</i>	1	1	2		3	7
Northern Cardinal	<i>Cardinalis cardinalis</i>	1	1				2
Northern Flicker	<i>Colaptes auratus</i>	2	2				5
Northern Parula	<i>Parula americana</i>	1		2			3
Northern Waterthrush	<i>Seiurus noveboracensis</i>				1	1	3
Pine Siskin	<i>Carduelis pinus</i>						0
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	1					1
Red-breasted Nuthatch	<i>Sitta canadensis</i>					1	1
Red-eyed Vireo	<i>Vireo olivaceus</i>					2	3
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	5	5		3	2	16
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>			4		2	10
Ruby-crowned Kinglet	<i>Regulus calendula</i>	2		1	1	1	5
Scarlet Tanager	<i>Piranga olivacea</i>			1			1
Song Sparrow	<i>Melospiza melodia</i>	4	3	4	2	3	20
Tennessee Warbler	<i>Vermivora peregrina</i>					3	3
Tree Swallow	<i>Tachycineta bicolor</i>	6	6	1			14
Warbling Vireo	<i>Vireo gilvus</i>					1	1
White-breasted Nuthatch	<i>Sitta carolinensis</i>	1	1				3
White-throated Sparrow	<i>Zonotrichia albicollis</i>	1	3	1	2		7
Wood Thrush	<i>Hylocichla mustelina</i>	2	2		3	1	13
Yellow Warbler	<i>Dendroica petechia</i>			8	2	2	21
Yellow-rumped Warbler	<i>Dendroica coronata</i>	12				12	24

total individuals	62	46	33	29	88	63	321
total species	23	17	14	20	36	23	57
Total Species #:	57						
Total Individuals:	321						

Migratory Landbird Survey
ML3 - Spring

Start UTM: 18T 0365038 4887960

Obs: Matthew Ross

End UTM: 18T 0365002 4888463

Bob Stamp

Habitat: Ash Swamp

Date:	27-Apr-11	4-May-11	11-May-11	18-May-11	19-May-11	26-May-11	
Start time:	8:04	9:44	9:23	10:05	10:35	11:52	
End time:	8:25	10:08	9:52	10:29	10:58	12:27	Total

COMMON NAME	SCIENTIFIC NAME							
American Crow	<i>Corvus brachyrhynchos</i>						1	1
American Goldfinch	<i>Carduelis tristis</i>	2	1	1	2		2	8
American Redstart	<i>Setophaga ruticilla</i>					1		1
American Robin	<i>Turdus migratorius</i>	4	3	3	4	6	4	24
American Woodcock	<i>Scolopax minor</i>			1				1
Baltimore Oriole	<i>Icterus galbula</i>			2	1	2	2	7
Black-and-white Warbler	<i>Mniotilta varia</i>	1						1
Black-capped Chickadee	<i>Poecile atricapillus</i>				1	1		2
Blackpoll Warbler	<i>Dendroica striata</i>						1	1
Black-throated Green Warbler	<i>Dendroica virens</i>				1	2	1	4
Blue-headed Vireo	<i>Vireo solitarius</i>					1		1
Brown Creeper	<i>Certhia americana</i>	1						1
Brown-headed Cowbird	<i>Molothrus ater</i>		2	1		2		5
Canada Goose	<i>Branta canadensis</i>			4				4
Canada Warbler	<i>Wilsonia canadensis</i>						1	1
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>					2		2
Common Grackle	<i>Quiscalus quiscula</i>		1			2	2	5
Common Yellowthroat	<i>Geothlypis trichas</i>			2	2	2	1	7
Dark-eyed Junco	<i>Junco hyemalis</i>	2						2
Eastern Wood-Pewee	<i>Contopus virens</i>					1	1	2
European Starling	<i>Sturnus vulgaris</i>	2	1	7	2	1	2	15
Hairy Woodpecker	<i>Picoides villosus</i>	1						1
House Wren	<i>Troglodytes aedon</i>			3	4	2	1	10
Least Flycatcher	<i>Empidonax minimus</i>			1	2	2	2	7
Lincoln's Sparrow	<i>Melospiza lincolni</i>					1		1
Magnolia Warbler	<i>Dendroica magnolia</i>					3	1	4
Nashville Warbler	<i>Vermivora ruficapilla</i>	1		1		1		3
Northern Flicker	<i>Colaptes auratus</i>			1	1			2
Red-eyed Vireo	<i>Vireo olivaceus</i>						1	1
Red-tailed Hawk	<i>Buteo jamaicensis</i>				1			1
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	70	30	6	3	6	5	120
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>			3	2	1		6
Ruby-crowned Kinglet	<i>Regulus calendula</i>	2		1				3
Rusty Blackbird	<i>Euphagus carolinus</i>	2	12					14
Savannah Sparrow	<i>Passerculus sandwichensis</i>	1						1
Scarlet Tanager	<i>Piranga olivacea</i>			2		1		3
Song Sparrow	<i>Melospiza melodia</i>	2	2	4		6	4	18
Swamp Sparrow	<i>Melospiza georgiana</i>	3	1	4	3	1	2	14
Tree Swallow	<i>Tachycineta bicolor</i>	10	13	6	15	5	7	56
Veery	<i>Catharus fuscescens</i>				2			2
Warbling Vireo	<i>Vireo gilvus</i>			1		2	2	5
White-breasted Nuthatch	<i>Sitta carolinensis</i>			2	1	2	1	6
White-throated Sparrow	<i>Zonotrichia albicollis</i>	5			1			6
Wilson's Snipe	<i>Gallinago delicata</i>				1	1		2
Yellow Warbler	<i>Dendroica petechia</i>		1		6	4	15	26
Yellow-rumped Warbler	<i>Dendroica coronata</i>	2		7		1		10

total individuals	111	67	63	55	62	59	417
total species	17	11	22	20	28	22	46
Total Species #:	46						
Total Individuals:	417						

**Migratory Landbird Survey
ML4 - Spring**

Start UTM: 18T 0365066 4890713
End UTM: 18T 0365567 4890662
Habitat: FOD lowland ash, SWT

Obs: Don Graham
Matthew Ross
Bob Stamp

Date:	27-Apr-11	4-May-11	11-May-11	18-May-11	19-May-11	26-May-11	
Start time:	10:01	7:10	6:50	7:11	7:12	7:13	
End time:	10:25	7:35	7:14	7:26	7:35	7:58	Total

COMMON NAME	SCIENTIFIC NAME							
American Crow	<i>Corvus brachyrhynchos</i>						1	1
American Redstart	<i>Setophaga ruticilla</i>						3	3
American Robin	<i>Turdus migratorius</i>	4	3	4	6	4	5	26
American Woodcock	<i>Scolopax minor</i>				1		1	2
Baltimore Oriole	<i>Icterus galbula</i>			1	1			2
Blackburnian Warbler	<i>Dendroica fusca</i>					1	2	3
Black-capped Chickadee	<i>Poecile atricapillus</i>	3		2				5
Blue Jay	<i>Cyanocitta cristata</i>		1	2		2		5
Brown-headed Cowbird	<i>Molothrus ater</i>	2	1		1	2	5	11
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>				1	2	1	4
Common Grackle	<i>Quiscalus quiscula</i>					4		4
Common Raven	<i>Corvus corax</i>					1		1
Common Yellowthroat	<i>Geothlypis trichas</i>	1	2	3	3	3	4	16
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	1	1	4	2	2	2	12
Eastern Wood-Pewee	<i>Contopus virens</i>						2	2
European Starling	<i>Sturnus vulgaris</i>				1	2	3	6
Evening Grosbeak	<i>Coccothraustes vespertinus</i>							0
Golden-crowned Kinglet	<i>Regulus satrapa</i>	2						2
Gray Catbird	<i>Dumetella carolinensis</i>			2	2	2	2	8
Great Crested Flycatcher	<i>Myiarchus crinitus</i>						1	1
Hairy Woodpecker	<i>Picoides villosus</i>		1					1
House Sparrow	<i>Passer domesticus</i>							0
House Wren	<i>Troglodytes aedon</i>		2	2	2	1	3	10
Least Flycatcher	<i>Empidonax minimus</i>			1		2		3
Magnolia Warbler	<i>Dendroica magnolia</i>				1			1
Mourning Dove	<i>Zenaida macroura</i>					4	4	8
Northern Flicker	<i>Colaptes auratus</i>		1				1	2
Ovenbird	<i>Seiurus aurocapilla</i>			1				1
Palm Warbler	<i>Dendroica palmarum</i>			1				1
Pine Siskin	<i>Carduelis pinus</i>							0
Red-eyed Vireo	<i>Vireo olivaceus</i>						4	4
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	5	10	1			1	17
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>		1		3	3	5	12
Ruby-crowned Kinglet	<i>Regulus calendula</i>	1						1
Song Sparrow	<i>Melospiza melodia</i>	1	3	3	4	2	1	14
Swamp Sparrow	<i>Melospiza georgiana</i>	3	1				1	5
Tennessee Warbler	<i>Vermivora peregrina</i>				1			1
Tree Swallow	<i>Tachycineta bicolor</i>		2					2
White-breasted Nuthatch	<i>Sitta carolinensis</i>						1	1
White-throated Sparrow	<i>Zonotrichia albicollis</i>			3				3
Wilson's Snipe	<i>Gallinago delicata</i>			1	1			2
Wilson's Warbler	<i>Wilsonia pusilla</i>					1		1
Wood Thrush	<i>Hylocichla mustelina</i>		1	3	2	2	4	12
Yellow Warbler	<i>Dendroica petechia</i>			1	2	4	4	11
Yellow-rumped Warbler	<i>Dendroica coronata</i>	3						3

total	26	32	36	34	44	61	233
species	11	16	18	17	19	24	45
Total Species #:	45						
Total Individuals:	233						

**Migratory Landbird Survey
ML5 - Spring**

Start UTM: 18T 0368127 4891747
End UTM: 18T 0367858 4892170
Habitat: SWT, Grey Dogwood

Obs: Don Graham
 Matthew Ross
 Bob Stamp

Date: 27-Apr-11 4-May-11 11-May-11 14-May-11 19-May-11 26-May-11
Start time: 7:14 10:45 8:26 8:36 8:35 8:40
End time: 7:35 11:00 8:50 8:55 8:51 9:15 **Total**

COMMON NAME	SCIENTIFIC NAME								
Alder Flycatcher	<i>Empidonax alnorum</i>						1	1	2
American Crow	<i>Corvus brachyrhynchos</i>	1	1	3			1	2	8
American Goldfinch	<i>Carduelis tristis</i>		1	1	8				10
American Robin	<i>Turdus migratorius</i>	6	4	3			2		15
Blackburnian Warbler	<i>Dendroica fusca</i>			1					1
Black-capped Chickadee	<i>Poecile atricapillus</i>						1		1
Blue Jay	<i>Cyanocitta cristata</i>							1	1
Bobolink*	<i>Dolichonyx oryzivorus</i>			2	1	6			9
Brown Creeper	<i>Certhia americana</i>	1							1
Brown Thrasher	<i>Toxostoma rufum</i>		1		1				2
Brown-headed Cowbird	<i>Molothrus ater</i>	1	2	4					7
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>				2				2
Common Grackle	<i>Quiscalus quiscula</i>				2	4		1	7
Common Yellowthroat	<i>Geothlypis trichas</i>			4	5	3			12
Dark-eyed Junco	<i>Junco hyemalis</i>	5							5
Double-crested Cormorant	<i>Phalacrocorax auritus</i>			1					1
Eastern Kingbird	<i>Tyrannus tyrannus</i>			2				3	5
Eastern Meadowlark	<i>Sturnella magna</i>			1	1	1			3
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	1	1					2	4
European Starling	<i>Sturnus vulgaris</i>	1		3			1		5
Field Sparrow	<i>Spizella pusilla</i>	1							1
Gray Catbird	<i>Dumetella carolinensis</i>		1	1	2	3		1	8
House Wren	<i>Troglodytes aedon</i>			2	1				3
Least Flycatcher	<i>Empidonax minimus</i>				2	2			4
Magnolia Warbler	<i>Dendroica magnolia</i>					2			2
Mourning Dove	<i>Zenaidura macroura</i>	1	1						2
Mourning Warbler	<i>Oporornis philadelphia</i>							1	1
Northern Flicker	<i>Colaptes auratus</i>	1						1	2
Northern Harrier	<i>Circus cyaneus</i>			1	1				2
Northern Waterthrush	<i>Seiurus noveboracensis</i>	1							1
Purple Finch	<i>Carpodacus purpureus</i>	1							1
Red-eyed Vireo	<i>Vireo olivaceus</i>							1	1
Red-necked Phalarope	<i>Phalaropus lobatus</i>			2	1				3
Red-tailed Hawk	<i>Buteo jamaicensis</i>			2					2
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	15		6	5	6		1	33
Ruby-crowned Kinglet	<i>Regulus calendula</i>	1	1	1					3
Rusty Blackbird	<i>Euphagus carolinus</i>		10						10
Savannah Sparrow	<i>Passerculus sandwichensis</i>	1	1	2	2	2			8
Song Sparrow	<i>Melospiza melodia</i>	5	5	6	5	5	8		34
Swamp Sparrow	<i>Melospiza georgiana</i>	1							1
Tree Swallow	<i>Tachycineta bicolor</i>	5	7	4		4		1	21
Turkey Vulture	<i>Cathartes aura</i>			4					4
White-throated Sparrow	<i>Zonotrichia albicollis</i>	3		2	2				7
Willow Flycatcher	<i>Empidonax traillii</i>							4	4
Wilson's Snipe	<i>Gallinago delicata</i>					1			1
Yellow Warbler	<i>Dendroica petechia</i>	1	1	5		8		8	23
Yellow-rumped Warbler	<i>Dendroica coronata</i>	7	3	1	4				15

Total Species #:	21	15	25	17	18	15	47
Total Individuals:	60	40	64	45	53	36	298
Total Species #:	47						
Total Individuals:	298						

Migratory Landbird Surveys
ML1 - Fall

Start UTM: 18T 0359714 4887186
End UTM: 18T 0360085 4887526
Habitat: Ash lowland

Obs: Alan Wormington
Josh Mansell
Brandon Holden

Date:	1-Sep-11	8-Sep-11	22-Sep-11	29-Sep-11	6-Oct-11	13-Oct-11	21-Oct-11	
Start time:	9:50	7:14	9:00	9:25	9:30	7:10	9:04	
End time:	10:15	7:31	9:40	10:00	10:15	7:33	9:37	Total

COMMON NAME	SCIENTIFIC NAME								
American Crow	<i>Corvus brachyrhynchos</i>						2	2	4
American Redstart	<i>Setophaga ruticilla</i>			3					3
American Robin	<i>Turdus migratorius</i>		7		2		2	2	13
Black-capped Chickadee	<i>Poecile atricapillus</i>			6		4			10
Blackpoll Warbler	<i>Dendroica striata</i>				1				1
Blue Jay	<i>Cyanocitta cristata</i>	1	1	5	2	1	6		16
Canada Goose	<i>Branta canadensis</i>							25	25
Common Grackle	<i>Quiscalus quiscula</i>				18				18
Downy Woodpecker	<i>Picoides pubescens</i>					2			2
Eastern Phoebe	<i>Sayornis phoebe</i>						1		1
Eastern Wood-Pewee	<i>Contopus virens</i>	2	2	2					6
European Starling	<i>Sturnus vulgaris</i>			12	7			20	39
Golden-crowned Kinglet	<i>Regulus satrapa</i>					4	3		7
Magnolia Warbler	<i>Dendroica magnolia</i>			2					2
Red-eyed Vireo	<i>Vireo olivaceus</i>			2					2
Ruby-crowned Kinglet	<i>Regulus calendula</i>						3		3
Rusty Blackbird	<i>Euphagus carolinus</i>						2		2
Song Sparrow	<i>Melospiza melodia</i>						1	1	2
Thrush Sp.				4		1			5
Warbler Sp.					4				4
White-breasted Nuthatch	<i>Sitta carolinensis</i>			1		6			7
White-throated Sparrow	<i>Zonotrichia albicollis</i>					2	4		6
Woodpecker Sp.				1					1

Total Species	2	3	10	6	7	9	5	23
Total Individuals	3	10	38	34	20	24	50	179
Total Species	23							
Total Individuals	179							

Migratory Landbird Surveys
ML2 - Fall

Start UTM: 18T 0363296 4888955
End UTM: 18T 0363041 4888494
Habitat: SWD Bur Oak and Shagbark Hickory

Obs: Brandon Holden

Date:	2-Sep-11	8-Sep-11	16-Sep-11	23-Sep-11	30-Sep-11	7-Oct-11	12-Oct-11	20-Oct-11	
Start time:	7:55	7:39	8:55	8:23	8:54	8:29	9:34	unk	
End time:	8:19	8:09	9:19	8:47	9:20	8:58	10:02	unk	Total

COMMON NAME	SCIENTIFIC NAME	2-Sep-11	8-Sep-11	16-Sep-11	23-Sep-11	30-Sep-11	7-Oct-11	12-Oct-11	20-Oct-11	Total
American Crow	<i>Corvus brachyrhynchos</i>	2	3							5
American Goldfinch	<i>Carduelis tristis</i>	2				6		5		13
American Robin	<i>Turdus migratorius</i>					2	4		4	10
Black-capped Chickadee	<i>Poecile atricapillus</i>			3	4			7	7	21
Blackpoll Warbler	<i>Dendroica striata</i>			1		3				4
Black-throated Green Warbler	<i>Dendroica virens</i>			1						1
Blue Jay	<i>Cyanocitta cristata</i>	6	2	5	5	35	7		4	64
Blue-headed Vireo	<i>Vireo solitarius</i>			4			1			5
Cedar Waxwing	<i>Bombycilla cedrorum</i>						10		2	12
Common Grackle	<i>Quiscalus quiscula</i>						2			2
Common Yellowthroat	<i>Geothlypis trichas</i>		2			3				5
Cooper's Hawk	<i>Accipiter cooperii</i>								1	1
Downy Woodpecker	<i>Picoides pubescens</i>						1	1	1	3
Eastern Phoebe	<i>Sayornis phoebe</i>				1		1			2
Eastern Wood-Pewee	<i>Contopus virens</i>			2						2
Golden-crowned Kinglet	<i>Regulus satrapa</i>								4	4
Gray Catbird	<i>Dumetella carolinensis</i>	1								1
Hermit Thrush	<i>Catharus guttatus</i>						1			1
House Wren	<i>Troglodytes aedon</i>		1	1		1				3
Lincoln's Sparrow	<i>Melospiza lincolni</i>					1				1
Magnolia Warbler	<i>Dendroica magnolia</i>			1						1
Mourning Dove	<i>Zenaidura macroura</i>	2								2
Nashville Warbler	<i>Vermivora ruficapilla</i>					1				1
Northern Flicker	<i>Colaptes auratus</i>								1	1
Northern Parula	<i>Parula americana</i>					1				1
Philadelphia Vireo	<i>Vireo philadelphicus</i>			1						1
Pine Siskin	<i>Carduelis pinus</i>							5		5
Red-breasted Nuthatch	<i>Sitta canadensis</i>							1		1
Red-eyed Vireo	<i>Vireo olivaceus</i>			1		1				2
Red-tailed Hawk	<i>Buteo jamaicensis</i>			1						1
Red-winged Blackbird	<i>Agelaius phoeniceus</i>					4				4
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>		1							1
Ruby-crowned Kinglet	<i>Regulus calendula</i>						2		3	5
Ruby-throated Hummingbird	<i>Archilochus colubris</i>		1							1
Rusty Blackbird	<i>Euphagus carolinus</i>								2	2
Sharp-shinned Hawk	<i>Accipiter striatus</i>					1				1
Song Sparrow	<i>Melospiza melodia</i>	3	3	3	2	4		3	8	26
Swamp Sparrow	<i>Melospiza georgiana</i>					1			1	2
Upland Sandpiper	<i>Bartramia longicauda</i>	1								1
White-breasted Nuthatch	<i>Sitta carolinensis</i>								1	1
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>					5			8	13
White-throated Sparrow	<i>Zonotrichia albicollis</i>					13			10	23
Winter Wren	<i>Troglodytes troglodytes</i>								1	1
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>					1				1
Yellow-rumped Warbler	<i>Dendroica coronata</i>					2		1	2	5

Total Species #:	7	7	12	4	18	9	7	17	45
Total Individuals:	17	13	24	12	85	29	23	60	263
Total Species	45								
Total Individuals	263								

Migratory Landbird Surveys
ML4 - Fall

Start UTM: 18T 0365066 4890713
End UTM: 18T 0365567 4890662
Habitat: FOD lowland ash, SWT

Obs: Alan Wormington
Matthew Ross
Josh Mansell
Zoé Lebrun-Southcott

Date:	2-Sep-11	9-Sep-11	16-Sep-11	23-Sep-11	30-Sep-11	7-Oct-11	12-Oct-11	20-Oct-11	
Start time:	7:02	7:20	8:10	7:30	7:15	7:30	8:35	8:33	
End time:	7:30	7:50	8:52	8:30	8:30	8:30	9:32	9:25	Total

COMMON NAME	SCIENTIFIC NAME								
American Crow	<i>Corvus brachyrhynchos</i>		2				2		4
American Goldfinch	<i>Carduelis tristis</i>		5	8	1		1	2	17
American Robin	<i>Turdus migratorius</i>		2	1		50	11	8	80
American Woodcock	<i>Scolopax minor</i>		4				1	4	9
Blackbird Sp.							9		9
Blackburnian Warbler	<i>Dendroica fusca</i>			1					1
Black-capped Chickadee	<i>Poecile atricapillus</i>		2	1	1		1	3	11
Blackpoll Warbler	<i>Dendroica striata</i>					4			4
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>					1			1
Blue Jay	<i>Cyanocitta cristata</i>		5	15	2	6	1	4	34
Blue-headed Vireo	<i>Vireo solitarius</i>				1				1
Canada Goose	<i>Branta canadensis</i>							8	8
Cedar Waxwing	<i>Bombycilla cedrorum</i>					4	3		7
Common Grackle	<i>Quiscalus quiscula</i>				3	1		13	17
Common Raven	<i>Corvus corax</i>			1					1
Common Yellowthroat	<i>Geothlypis trichas</i>			3					3
Downy Woodpecker	<i>Picoides pubescens</i>			1	1				2
Eastern Meadowlark	<i>Sturnella magna</i>						1		1
Eastern Phoebe	<i>Sayornis phoebe</i>					1			1
Eastern Towhee	<i>Pipilo erythrophthalmus</i>						3	1	4
European Starling	<i>Sturnus vulgaris</i>			4	3		40	40	11
Fox Sparrow	<i>Passerella iliaca</i>								1
Golden-crowned Kinglet	<i>Regulus satrapa</i>					6	4	4	14
Gray Catbird	<i>Dumetella carolinensis</i>		2	2	3	2			9
Hairy Woodpecker	<i>Picoides villosus</i>								2
Hermit Thrush	<i>Catharus guttatus</i>						2	2	6
House Wren	<i>Troglodytes aedon</i>		1			2			3
Magnolia Warbler	<i>Dendroica magnolia</i>					1			1
Nashville Warbler	<i>Vermivora ruficapilla</i>					3			3
Northern Flicker	<i>Colaptes auratus</i>			2		40		2	46
Palm Warbler	<i>Dendroica palmarum</i>				1				1
Pileated Woodpecker	<i>Dryocopus pileatus</i>		1						1
Red-winged Blackbird	<i>Agelaius phoeniceus</i>				6	1	14	3	33
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>		1						1
Ruby-crowned Kinglet	<i>Regulus calendula</i>					2	7	6	21
Song Sparrow	<i>Melospiza melodia</i>		1	1	4	1	1	3	14
Swamp Sparrow	<i>Melospiza georgiana</i>				1	2		1	11
Thrush Sp.							1		1
Warbler Sp.				4				1	5
White-breasted Nuthatch	<i>Sitta carolinensis</i>						1		1
White-throated Sparrow	<i>Zonotrichia albicollis</i>			1		28	3	7	55
Wilson's Snipe	<i>Gallinago delicata</i>			1					7
Winter Wren	<i>Troglodytes troglodytes</i>								2
Woodpecker Sp.					1				1
Yellow-rumped Warbler	<i>Dendroica coronata</i>					4	13		17

Total Species #:	0	11	15	13	19	17	16	21	45
Total Individuals:	0	26	46	28	159	107	94	112	572
Total Species:	45								
Total Individuals:	572								

Migratory Landbird Surveys
ML5 - Fall

Start UTM: 18T 0368127 4891747
End UTM: 18T 0367858 4892170
Habitat: SWT, Grey Dogwood

Obs: Brandon Holden

Date: 1-Sep-11 9-Sep-11 15-Sep-11 22-Sep-11 29-Sep-11 6-Oct-11 12-Oct-11 20-Oct-11
Start time: 7:15 unk 7:31 7:06 7:55 7:50 7:58 8:10
End time: 7:36 unk 7:59 7:33 8:20 8:18 8:21 8:38

COMMON NAME	SCIENTIFIC NAME	1-Sep-11	9-Sep-11	15-Sep-11	22-Sep-11	29-Sep-11	6-Oct-11	12-Oct-11	20-Oct-11	Total
American Crow	<i>Corvus brachyrhynchos</i>	1	2			1	2	2	1	9
American Goldfinch	<i>Carduelis tristis</i>	4	1			5	3		2	15
American Kestrel	<i>Falco sparverius</i>	1			1					2
American Pipit	<i>Anthus rubescens</i>								10	10
American Redstart	<i>Setophaga ruticilla</i>	1		3						4
American Robin	<i>Turdus migratorius</i>	1	2	3	1	4	3	1	2	17
Baltimore Oriole	<i>Icterus galbula</i>	1								1
Bay-breasted Warbler	<i>Dendroica castanea</i>				1					1
Blackburnian Warbler	<i>Dendroica fusca</i>	1								1
Black-capped Chickadee	<i>Poecile atricapillus</i>	4	5	6			2	3	13	33
Blackpoll Warbler	<i>Dendroica striata</i>	1					2			3
Blue Jay	<i>Cyanocitta cristata</i>	1			1	3	2		7	14
Blue-headed Vireo	<i>Vireo solitarius</i>								1	1
Bobolink*	<i>Dolichonyx oryzivorus</i>	5	3							8
Brown Thrasher	<i>Toxostoma rufum</i>					1				1
Canada Goose	<i>Branta canadensis</i>	2								2
Cedar Waxwing	<i>Bombycilla cedrorum</i>								5	5
Common Grackle	<i>Quiscalus quiscula</i>							1		1
Common Yellowthroat	<i>Geothlypis trichas</i>	3	3	7	1	7			1	22
Dark-eyed Junco	<i>Junco hyemalis</i>								5	5
Downy Woodpecker	<i>Picoides pubescens</i>					1				1
Eastern Bluebird	<i>Sialia sialis</i>								2	2
Eastern Meadowlark	<i>Sturnella magna</i>				1					1
Eastern Phoebe	<i>Sayornis phoebe</i>						1	1	1	3
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	1	1	1		2	1	1		7
European Starling	<i>Sturnus vulgaris</i>	1	10	1	1		1	2	5	21
Field Sparrow	<i>Spizella pusilla</i>								1	1
Golden-crowned Kinglet	<i>Regulus satrapa</i>						3	1	4	8
Gray Catbird	<i>Dumetella carolinensis</i>	2	1	2		3				8
Hermit Thrush	<i>Catharus guttatus</i>								6	6
House Wren	<i>Troglodytes aedon</i>	1	2	1	1	1				6
Least Flycatcher	<i>Empidonax minimus</i>	1								1
Lincoln's Sparrow	<i>Melospiza lincolni</i>					1			2	3
Magnolia Warbler	<i>Dendroica magnolia</i>	1								1
Merlin	<i>Falco columbarius</i>			1						1
Nashville Warbler	<i>Vermivora ruficapilla</i>						2			2
Northern Cardinal	<i>Cardinalis cardinalis</i>	1								1
Northern Flicker	<i>Colaptes auratus</i>		1	2	3	3	1		3	13
Northern Harrier	<i>Circus cyaneus</i>		1		1	1			1	4
Orange-crowned Warbler	<i>Vermivora celata</i>						1			1
Palm Warbler	<i>Dendroica palmarum</i>				1	4			2	7
Pine Siskin	<i>Carduelis pinus</i>						10			10
Red-breasted Nuthatch	<i>Sitta canadensis</i>						1			1
Red-eyed Vireo	<i>Vireo olivaceus</i>	3								3
Red-winged Blackbird	<i>Agelaius phoeniceus</i>					25	2			27
Ruby-crowned Kinglet	<i>Regulus calendula</i>						1	1	17	19
Rusty Blackbird	<i>Euphagus carolinus</i>						20			20
Savannah Sparrow	<i>Passerculus sandwichensis</i>				1				1	2
Sharp-shinned Hawk	<i>Accipiter striatus</i>			1					1	2
Song Sparrow	<i>Melospiza melodia</i>	4	5	6	1	23	14	2	28	83
Swainson's Thrush	<i>Catharus ustulatus</i>			2						2
Swamp Sparrow	<i>Melospiza georgiana</i>					2	1	1	9	13
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>					4	25	3	21	53
White-throated Sparrow	<i>Zonotrichia albicollis</i>			4		15	2	4	35	60
Wilson's Warbler	<i>Wilsonia pusilla</i>	1								1
Winter Wren	<i>Troglodytes troglodytes</i>								1	1
Yellow Warbler	<i>Dendroica petechia</i>	4								4
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>		1							1
Yellow-rumped Warbler	<i>Dendroica coronata</i>						1	1	8	10

Total Species #:	24	14	14	13	20	22	14	31	59
Total Individuals:	46	38	40	15	108	99	24	197	567
Total Species #:	59								
Total Individuals:	567								

Table G: Marsh Breeding Birds

Legend	
CSWH	Location (map)
MBB1	M3

COMMON NAME	SCIENTIFIC NAME	S-RANK	COSSARO	COSEWIC	M3
American Bittern	<i>Botaurus lentiginosus</i>	S4B			X
American Goldfinch	<i>Carduelis tristis</i>	S5B			X
American Robin	<i>Turdus migratorius</i>	S5B			X
Baltimore Oriole	<i>Icterus galbula</i>	S4B			X
Barn Swallow	<i>Hirundo rustica</i>	S4B		THR-NS	X
Black-capped Chickadee	<i>Poecile atricapillus</i>	S5			X
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B	THR	THR-NS	X
Canada Goose	<i>Branta canadensis</i>	S5			X
Common Grackle	<i>Quiscalus quiscula</i>	S5B			X
Common Loon	<i>Gavia immer</i>	S5B,S5N	NAR	NAR	X
Common Yellowthroat	<i>Geothlypis trichas</i>	S5B			X
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	S5B	NAR	NAR	X
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S4B			X
European Starling	<i>Sturnus vulgaris</i>	SNA			X
Great Blue Heron	<i>Ardea herodias</i>	S5			X
Green Heron	<i>Butorides virescens</i>	S4B			X
Mallard	<i>Anas platyrhynchos</i>	S5			X
Marsh Wren	<i>Cistothorus palustris</i>	S4B			X
Mourning Dove	<i>Zenaidura macroura</i>	S5			X
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	S5			X
Ring-billed Gull	<i>Larus delawarensis</i>	S5B,S4N			X
Song Sparrow	<i>Melospiza melodia</i>	S5B			X
Swamp Sparrow	<i>Melospiza georgiana</i>	S5B			X
Tree Swallow	<i>Tachycineta bicolor</i>	S4B			X
Turkey Vulture	<i>Cathartes aura</i>	S5B			X
Virginia Rail	<i>Rallus limicola</i>	S5B			X
Warbling Vireo	<i>Vireo gilvus</i>	S5B			X
Willow Flycatcher	<i>Empidonax traillii</i>	S5B			X
Wilson's Snipe	<i>Gallinago delicata</i>	S5B			X
Wood Duck	<i>Aix sponsa</i>	S5			X
Yellow Warbler	<i>Dendroica petechia</i>	S5B			X
Total					31

Table G: Woodland Breeding Bird Surveys (includes Area-Sensitive Breeding Birds, Shrub and Early Successional Breeding Birds, Waterfowl Nesting, and Louisiana Waterthrush Habitats)

Legend	
CSWH	Location (map)
BE1	W3
BE2	W15
WR1	W15
WR2	W38
ABB1	W15
ABB2	W38
SSB1	W3
SSB2	W20
SSB3	W43
SSB4	W38
SSB5	W24, W25
WN1	W34
LW1	W15
LW2	W33
LW3	W34

COMMON NAME	SCIENTIFIC NAME	ONTARIO STATUS	GLOBAL STATUS	COSSARO	COSEWIC	W3	W15	W20	W24	W25	W33	W34	W38	W43
Alder Flycatcher	<i>Empidonax alnorum</i>	S5B	G5			X	X				X		X	
American Crow	<i>Corvus brachyrhynchos</i>	S5B	G5			X	X		X	X			X	X
American Goldfinch	<i>Carduelis tristis</i>	S5B	G5			X	X		X	X	X		X	X
American Kestrel	<i>Falco sparverius</i>	S5B	G5			X								
American Redstart	<i>Setophaga ruticilla</i>	S5B	G5				X		X			X	X	
American Robin	<i>Turdus migratorius</i>	S5B	G5			X	X	X	X	X	X	X	X	X
American Woodcock	<i>Scolopax minor</i>	S4B	G5			X	X		X		X	X	X	X
Baltimore Oriole	<i>Icterus galbula</i>	S4B	G5			X	X	X		X	X	X	X	X
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	S5B	G5			X		X			X		X	
Black-capped Chickadee	<i>Poecile atricapillus</i>	S5	G5			X	X	X	X		X	X	X	X
Black-throated Green Warbler	<i>Dendroica virens</i>	S5B	G5				X							
Blue Jay	<i>Cyanocitta cristata</i>	S5	G5			X	X		X	X	X		X	X
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B	G5	THR	THR-NS		X	X					X	
Brown Creeper	<i>Certhia americana</i>	S5B	G5			X	X					X		
Brown Thrasher	<i>Toxostoma rufum</i>	S4B	G5			X			X	X	X		X	X
Brown-headed Cowbird	<i>Molothrus ater</i>	S4B	G5			X	X	X	X		X	X	X	X
Cedar Waxwing	<i>Bornbycilla cedrorum</i>	S5B	G5			X	X	X	X	X	X		X	X
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	S5B	G5											X
Chipping Sparrow	<i>Spizella passerina</i>	S5B	G5						X		X			
Common Grackle	<i>Quiscalus quiscula</i>	S5B	G5			X	X		X	X	X	X	X	X
Common Loon	<i>Gavia immer</i>	S5B,S5N	G5	NAR	NAR			X						
Common Raven	<i>Corvus corax</i>	S5	G5			X	X		X					X
Common Yellowthroat	<i>Geothlypis trichas</i>	S5B	G5			X	X	X	X	X	X	X	X	X
Downy Woodpecker	<i>Picoides pubescens</i>	S5	G5				X		X		X		X	
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S4B	G5			X	X	X	X	X	X	X	X	X
Eastern Phoebe	<i>Sayornis phoebe</i>	S5B	G5			X								
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	S4B	G5			X	X	X	X	X	X		X	X
Eastern Wood-Pewee	<i>Contopus virens</i>	S4B	G5			X	X	X	X	X	X	X	X	X
European Starling	<i>Sturnus vulgaris</i>	SNA	G5			X	X		X		X	X	X	X
Field Sparrow	<i>Spizella pusilla</i>	S4B	G5			X			X	X				
Gray Catbird	<i>Dumetella carolinensis</i>	S4B	G5			X	X	X	X	X	X		X	X
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	S4B	G5			X	X	X	X		X	X	X	
Great Horned Owl	<i>Bubo virginianus</i>	S5	G5						X					X
Green Heron	<i>Butorides virescens</i>	S4B	G5			X								
Hairy Woodpecker	<i>Picoides villosus</i>	S5	G5								X	X	X	
Hermit Thrush	<i>Catharus guttatus</i>	S5B	G5			X								
House Wren	<i>Troglodytes aedon</i>	S5B	G5			X	X	X	X	X	X	X	X	X
Indigo Bunting	<i>Passerina cyanea</i>	S4B	G5			X					X			
Least Flycatcher	<i>Empidonax minimus</i>	S4B	G5				X	X	X		X	X	X	
Mourning Dove	<i>Zenaida macroura</i>	S5	G5			X	X		X		X			
Northern Cardinal	<i>Cardinalis cardinalis</i>	S5	G5			X	X		X		X		X	
Northern Flicker	<i>Colaptes auratus</i>	S4B	G5			X	X	X			X	X	X	X
Northern Harrier	<i>Circus cyaneus</i>	S4B	G5	NAR	NAR		X						X	X
Northern Waterthrush	<i>Seiurus noveboracensis</i>	S5B	G5				X							
Orchard Oriole	<i>Icterus spurius</i>	S4B	G5						X					X
Ovenbird	<i>Seiurus aurocapilla</i>	S4B	G5			X								
Pine Warbler	<i>Dendroica pinus</i>	S5B	G5			X								
Purple Martin	<i>Progne subis</i>	S4B	G5			X			X				X	
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	S4	G5				X	X	X				X	
Red-eyed Vireo	<i>Vireo olivaceus</i>	S5B	G5			X	X	X	X	X	X	X	X	X
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	S4B	G5	SC	THR							X		
Red-tailed Hawk	<i>Buteo jamaicensis</i>	S5	G5	NAR	NAR		X				X	X	X	
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	S5	G5				X	X	X	X	X	X	X	X
Ring-billed Gull	<i>Larus delawarensis</i>	S5B,S4N	G5			X								
Ring-necked Pheasant	<i>Phasianus colchicus</i>	SNA	G5									X		X
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	S4B	G5			X	X	X	X	X	X	X	X	
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	S5B	G5			X						X		
Savannah Sparrow	<i>Passerculus sandwichensis</i>	S4B	G5				X							
Scarlet Tanager	<i>Piranga olivacea</i>	S4B	G5				X							
Sharp-shinned Hawk	<i>Accipiter striatus</i>	S5	G5	NAR	NAR	X								
Song Sparrow	<i>Melospiza melodia</i>	S5B	G5			X	X	X	X	X	X	X	X	X
Swamp Sparrow	<i>Melospiza georgiana</i>	S5B	G5				X			X		X	X	
Tree Swallow	<i>Tachycineta bicolor</i>	S4B	G5			X	X		X	X	X	X	X	
Turkey Vulture	<i>Cathartes aura</i>	S5B	G5									X	X	X
Veery	<i>Catharus fuscescens</i>	S4B	G5				X				X		X	
Warbling Vireo	<i>Vireo gilvus</i>	S5B	G5			X	X		X	X	X	X	X	

White-breasted Nuthatch	<i>Sitta carolinensis</i>	S5	G5				X		X		X	X		
Willow Flycatcher	<i>Empidonax traillii</i>	S5B	G5			X	X	X	X	X	X		X	X
Wilson's Snipe	<i>Gallinago delicata</i>	S5B	G5			X						X		
Wilson's Warbler	<i>Wilsonia pusilla</i>	S4B	G5			X								
Winter Wren	<i>Troglodytes hiemalis</i>	S5B	G5										X	
Wood Duck	<i>Aix sponsa</i>	S5	G5				X				X			
Wood Thrush	<i>Hylocichla mustelina</i>	S4B	G5			X	X		X		X		X	X
Yellow Warbler	<i>Dendroica petechia</i>	S5B	G5			X	X	X	X	X	X	X	X	X
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	S5B	G5				X				X		X	X
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	S4B	G5										X	

Table H: Point Count Densities

f=forest, m=marsh, g=grassland

Point Count:		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COMMON NAME	SCIENTIFIC NAME	f	f	m	g	f	g	g	m	g	g	m	f	f	f	g	g	g	g	f	g	g	g	g	g	g	f	g	m	g	f	g	f		
Bobolink	<i>Dolichonyx oryzivorus</i>	0	0	0	4	0	2	4	0	4	0	0	0	0	0	5	12	5	3	0	4	5	4	2	14	8	1	4	0	5	3	4	0		
Savannah Sparrow	<i>Passerculus sandwichensis</i>	0	0	0	2	0	3	0	0	4	2	0	0	0	0	3	6	7	3	0	3	7	7	2	0	0	1	3	0	4	0	10	0		
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	1	0	8	6	0	3	0	5	5	3	5	0	0	0	0	0	0	0	0	0	0	0	2	3	1	1	5	1	5	6	0			
European Starling	<i>Sturnus vulgaris</i>	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	1	0	1	0	2	0	1	1	0	4	0	0	8	2	1		
Song Sparrow	<i>Melospiza melodia</i>	4	2	1	1	1	2	1	0	0	2	0	0	0	0	0	0	0	1	1	1	0	0	2	1	2	2	0	0	1	2	1	0		
Tree Swallow	<i>Tachycineta bicolor</i>	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0		
Yellow Warbler	<i>Dendroica petechia</i>	2	0	1	0	1	0	2	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	1	3	0	3	0	0		
American Robin	<i>Turdus migratorius</i>	2	2	0	0	0	1	1	1	0	3	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	2	1	1	0	0	0	1		
Eastern Kingbird	<i>Tyrannus tyrannus</i>	0	0	0	1	0	1	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	1	2	0	0	0	1	0	0	0	1	0		
Eastern Meadowlark	<i>Sturnella magna</i>	0	0	0	4	0	1	2	0	2	1	0	0	0	0	3	0	2	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0		
Swamp Sparrow	<i>Melospiza georgiana</i>	0	0	5	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
Common Grackle	<i>Quiscalus quiscula</i>	0	0	0	1	0	0	0	0	0	2	2	3	5	1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Ring-billed Gull	<i>Larus delawarensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mallard	<i>Anas platyrhynchos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Common Yellowthroat	<i>Geothlypis trichas</i>	1	2	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	1	0	0	0	
Herring Gull	<i>Larus argentatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rose-breasted Grosbeak	<i>Phainopepla nitens</i>	0	0	0	0	2	0	0	0	0	1	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	1	
Gray Catbird	<i>Dumetella carolinensis</i>	2	0	0	0	1	0	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	
American Goldfinch	<i>Carduelis tristis</i>	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	0	0		
Red-eyed Vireo	<i>Vireo olivaceus</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Blue Jay	<i>Cyanocitta cristata</i>	0	2	0	0	1	0	0	0	0	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Wilson's Snipe	<i>Gallinago delicata</i>	0	0	2	2	0	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eastern Wood-Pewee	<i>Contopus virens</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
House Wren	<i>Troglodytes aedon</i>	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Willow Flycatcher	<i>Empidonax traillii</i>	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	2	0	0		
Mourning Dove	<i>Zenaidura macroura</i>	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Killdeer	<i>Charadrius vociferans</i>	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grasshopper Sparrow	<i>Ammodramus saviannum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0		
Baltimore Oriole	<i>Icterus galbula</i>	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
American Wigeon	<i>Anas americana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Northern Harrier	<i>Circus cyaneus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	1	0	0	
Oscar Waxwing	<i>Bombus cedrorum</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	
Brown-headed Cowbird	<i>Molothrus ater</i>	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Great Crested Flycatcher	<i>Myiarchus cinerascens</i>	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Barn Swallow	<i>Hirundo rustica</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wood Thrush	<i>Hylocichla ustulata</i>	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wilson's Phalarope	<i>Phalaropus tricolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bank Swallow	<i>Riparia riparia</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada Goose	<i>Branta canadensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gadwall	<i>Anas strepera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upland Sandpiper	<i>Bartramia longicauda</i>	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Downy Woodpecker	<i>Picoides pubescens</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Warbling Vireo	<i>Vireo gilvus</i>	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
American Crow	<i>Corvus brachyrhynchos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Black-capped Chickadee	<i>Parus atricapillus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	
Marsh Wren	<i>Cistothorus palustris</i>	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Cardinal	<i>Cardinalis cardinalis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Magnolia Warbler	<i>Dendroica magnolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Virginia Rail	<i>Rallus limicola</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Spotted Sandpiper	<i>Actitis macularia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Least Sandpiper	<i>Calidris minutilla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caspian Tern	<i>Sterna caspia</i>	0	0																																

Table I: Staging Swallow Surveys

If flying...								
Location	Date	Time	Species	# of individuals	Location/Habitat	Height (m)	Direction	Behaviour
1	8-Jul-11	12:30	BANS	5	gravel bar/marsh			flying & feeding
2	8-Jul-11	12:49	BANS	10	KFN marsh cell			flying & feeding
3	8-Jul-11	13:10	BANS	5	pasture/shore; PUMA nesting houses			perched & feeding
7	8-Jul-11	14:11	BANS	1	on wires, hayfield			perched
13	8-Jul-11	15:01	BANS	10	on wires & ground (pasture)			50% perched; 50% flying
14	8-Jul-11	15:20	BANS	150	on wires/road (hayfield)			perched and feeding over fresh cut hayfield
17	8-Jul-11	15:50	BANS	10	on wires above pasture			
1	8-Jul-11	12:30	BARS	15	gravel bar/marsh			flying & feeding
2	8-Jul-11	12:49	BARS	10	KFN marsh cell			flying & feeding
3	8-Jul-11	13:10	BARS	20	pasture/shore; PUMA nesting houses			perched & feeding
4	8-Jul-11	13:35	BARS	15	on wire (fallow pasture)			50% flying/feeding, 50% perched on telephone wire
5	8-Jul-11	13:47	BARS	30	near barns/pasture			feeding; many likely nested locally
6	8-Jul-11	14:05	BARS	7	on wires, hayfield			perched; 1 juv? BARS dead on road
7	8-Jul-11	14:11	BARS	10	on wires, hayfield			perched
8	8-Jul-11	14:20	BARS	25	on wires @ community pasture			perched
9	8-Jul-11	14:23	BARS	15	on wires @ house 4725 (hay/pasture)			50% perched; 50% feeding
10	8-Jul-11	14:42	BARS	20	on wires near metal barn (marsh/hay)			50% perched; 50% feeding
11	8-Jul-11	14:44	BARS	10	on wires @ 8850 (shore/hay)			
12	8-Jul-11	14:46	BARS	5	on wires @ house 9345 (hay/woods)			
13	8-Jul-11	15:01	BARS	30	on wires & ground (pasture)			50% perched; 50% flying
14	8-Jul-11	15:20	BARS	100	on wires/road (hayfield)			perched and feeding over fresh cut hayfield
15	8-Jul-11	15:25	BARS	30	on wire (hay)			
17	8-Jul-11	15:50	BARS	50	on wires above pasture			
3	8-Jul-11	13:10	NRWS	1	pasture/shore; PUMA nesting houses			perched & feeding
10	8-Jul-11	14:42	NRWS	1	on wires near metal barn (marsh/hay)			50% perched; 50% feeding
12	8-Jul-11	14:46	NRWS	6	on wires @ house 9345 (hay/woods)			
14	8-Jul-11	15:20	NRWS	5	on wires/road (hayfield)			perched and feeding over fresh cut hayfield
16	8-Jul-11	15:40	NRWS	1	on wire (pasture)			
17	8-Jul-11	15:50	NRWS	1	on wires above pasture			
1	8-Jul-11	12:30	PUMA	2	gravel bar/marsh			flying & feeding
3	8-Jul-11	13:10	PUMA	30	pasture/shore; PUMA nesting houses			perched & feeding
11	8-Jul-11	14:44	PUMA	1	on wires @ 8850 (shore/hay)			
14	8-Jul-11	15:20	PUMA	2	on wires/road (hayfield)			perched and feeding over fresh cut hayfield
1	8-Jul-11	12:30	TRES	20	gravel bar/marsh			flying & feeding
2	8-Jul-11	12:49	TRES	10	KFN marsh cell			flying & feeding
3	8-Jul-11	13:10	TRES	20	pasture/shore; PUMA nesting houses			perched & feeding
4	8-Jul-11	13:35	TRES	25	on wire (fallow pasture)			50% flying/feeding, 50% perched on telephone wire
6	8-Jul-11	14:05	TRES	5	on wires, hayfield			perched
7	8-Jul-11	14:11	TRES	30	on wires, hayfield			perched
8	8-Jul-11	14:20	TRES	5	on wires @ community pasture			perched
9	8-Jul-11	14:23	TRES	15	on wires @ house 4725 (hay/pasture)			50% perched; 50% feeding
10	8-Jul-11	14:42	TRES	20	on wires near metal barn (marsh/hay)			50% perched; 50% feeding
11	8-Jul-11	14:44	TRES	4	on wires @ 8850 (shore/hay)			
13	8-Jul-11	15:01	TRES	40	on wires & ground (pasture)			50% perched; 50% flying
14	8-Jul-11	15:20	TRES	500	on wires/road (hayfield)			perched and feeding over fresh cut hayfield
16	8-Jul-11	15:40	TRES	30	on wire (pasture)			
17	8-Jul-11	15:50	TRES	75	on wires above pasture			
18	13-Jul-11	11:45	BANS	10	KFN property	50		feeding
19	13-Jul-11	12:30	BANS	50	behind large tree	5		feeding post thunderstorm
21	13-Jul-11	12:57	BANS	20	on wires	5		perched
23	13-Jul-11	13:26	BANS	20	on wires	5		perched - possible evening roost site?
10	13-Jul-11	14:16	BANS	5	on wires, near shore	5		perched
11	13-Jul-11	14:24	BANS	100	on wires	5		perched
25	13-Jul-11	14:32	BANS	10	on wires	5		perched
18	13-Jul-11	11:45	BARS	20	KFN property	50		feeding

19	13-Jul-11	12:30	BARS	50	behind large tree	5	feeding post thunderstorm
21	13-Jul-11	12:57	BARS	20	on wires	5	perched
22	13-Jul-11	13:19	BARS	30	on wires	5	perched
24	13-Jul-11	13:50	BARS	30	on wires	5	perched
10	13-Jul-11	14:16	BARS	40	on wires, near shore	5	perched
11	13-Jul-11	14:24	BARS	10	on wires	5	perched
25	13-Jul-11	14:32	BARS	70	on wires	5	perched
7	13-Jul-11	14:40	BARS	10	on wires/hayfields	5	perched
6	13-Jul-11	14:42	BARS	20	on wires/hayfields	5	perched
19	13-Jul-11	12:30	CLSW	2	behind large tree	5	feeding post thunderstorm
11	13-Jul-11	14:24	NRWS	5	on wires	5	perched
18	13-Jul-11	11:45	TRES	40	KFN property	50	feeding
19	13-Jul-11	12:30	TRES	100	behind large tree	5	feeding post thunderstorm
20	13-Jul-11	12:40	TRES	100	behind large tree	5	feeding
21	13-Jul-11	12:57	TRES	10	on wires	5	perched
22	13-Jul-11	13:19	TRES	15	on wires	5	perched
23	13-Jul-11	13:26	TRES	60	on wires	5	perched - possible evening roost site?
24	13-Jul-11	13:50	TRES	10	on wires	5	perched
10	13-Jul-11	14:16	TRES	20	on wires, near shore	5	perched
11	13-Jul-11	14:24	TRES	20	on wires	5	perched
25	13-Jul-11	14:32	TRES	20	on wires	5	perched
7	13-Jul-11	14:40	TRES	20	on wires/hayfields	5	perched
6	13-Jul-11	14:42	TRES	120	on wires/hayfields	5	perched
26	13-Jul-11	14:44	TRES	40	on wires/hayfields	5	perched
27	23-Jul-11	11:15	BANS	20	far end of KFN		feeding/roosting
4	23-Jul-11	11:49	BANS	100	on wires		feeding/roosting
22	23-Jul-11	12:19	BANS	150	on wires		
27	23-Jul-11	11:15	BARS	30	far end of KFN		feeding/roosting
4	23-Jul-11	11:49	BARS	40	on wires		feeding/roosting
22	23-Jul-11	12:19	BARS	40	on wires		
14	23-Jul-11	13:00	BARS	30	on wires & over lake		
28	23-Jul-11	14:16	BARS	20	on wires near barn		
4	23-Jul-11	11:49	CLSW	1	on wires		feeding/roosting
14	23-Jul-11	13:00	NRWS	10	on wires & over lake		
27	23-Jul-11	11:15	PUMA	20	far end of KFN		feeding/roosting
14	23-Jul-11	13:00	PUMA	10	on wires & over lake		
27	23-Jul-11	11:15	TRES	100	far end of KFN		feeding/roosting
4	23-Jul-11	11:49	TRES	200	on wires		feeding/roosting
22	23-Jul-11	12:19	TRES	150	on wires		
14	23-Jul-11	13:00	TRES	60	on wires & over lake		
28	23-Jul-11	14:16	TRES	40	on wires near barn		
30	27-Jul-11	9:00	BANS	50	on wires		perching/feeding
2	27-Jul-11	10:00	BANS	25	marsh		feeding
4	27-Jul-11	10:35	BANS	150	on wires		
32	27-Jul-11	11:10	BANS	50	on wires		
14	27-Jul-11	11:13	BANS	5	on wires		
5	27-Jul-11	8:40	BARS	30	on wires near barns		feeding
29	27-Jul-11	8:50	BARS	10	on wires		perched/resting
30	27-Jul-11	9:00	BARS	40	on wires		perching/feeding
2	27-Jul-11	10:00	BARS	5	marsh		feeding
4	27-Jul-11	10:35	BARS	50	on wires		
17	27-Jul-11	10:50	BARS	50	on wires & cattails		
31	27-Jul-11	11:00	BARS	25	near barns		feeding
32	27-Jul-11	11:10	BARS	50	on wires		
14	27-Jul-11	11:13	BARS	30	on wires		
14	27-Jul-11	11:13	NRWS	5	on wires		
30	27-Jul-11	9:00	PUMA	10	on wires		perching/feeding
5	27-Jul-11	8:40	TRES	10	on wires near barns		feeding
29	27-Jul-11	8:50	TRES	40	on wires		perched/resting
30	27-Jul-11	9:00	TRES	200	on wires		perching/feeding
2	27-Jul-11	10:00	TRES	70	marsh		feeding
4	27-Jul-11	10:35	TRES	300	on wires		
17	27-Jul-11	10:50	TRES	200	on wires & cattails		
31	27-Jul-11	11:00	TRES	5	near barns		feeding
32	27-Jul-11	11:10	TRES	100	on wires		
14	27-Jul-11	11:13	TRES	20	on wires		
33	3-Aug-11	12:30	BANS	100	over cows in pasture		feeding low
4	3-Aug-11	12:50	BANS	40	tall grass/pasture		feeding low
34	3-Aug-11	12:55	BANS	250	on ground/wires		feeding low/roosting
20	3-Aug-11	13:00	BANS	250	on wires		roosting
35	3-Aug-11	13:06	BANS	50	on wires		roosting
16	3-Aug-11	13:14	BANS	100	on wires/tall grass		perching/feeding low
36	3-Aug-11	13:16	BANS	50	on wires/tall grass		
17	3-Aug-11	13:19	BANS	150	on wires near house/tall grass		
30	3-Aug-11	12:10	BARS	50	on wires		roosting
33	3-Aug-11	12:30	BARS	200	over cows in pasture		feeding low
4	3-Aug-11	12:50	BARS	50	tall grass/pasture		feeding low
34	3-Aug-11	12:55	BARS	100	on ground/wires		feeding low/roosting
20	3-Aug-11	13:00	BARS	20	on wires		roosting
35	3-Aug-11	13:06	BARS	40	on wires		roosting
16	3-Aug-11	13:14	BARS	80	on wires/tall grass		perching/feeding low
36	3-Aug-11	13:16	BARS	25	on wires/tall grass		
17	3-Aug-11	13:19	BARS	20	on wires near house/tall grass		
37	3-Aug-11	13:29	BARS	20	on wire		roosting
25	3-Aug-11	14:10	BARS	40	on wires near barn		roosting
11	3-Aug-11	14:17	BARS	10	on wires		roosting
17	3-Aug-11	13:19	PUMA	10	on wires near house/tall grass		

37	3-Aug-11	13:29	PUMA	10	on wire			roosting
38	3-Aug-11	13:58	PUMA	15	on wires			roosting
11	3-Aug-11	14:17	PUMA	15	on wires			roosting
30	3-Aug-11	12:10	TRES	50	on wires			roosting
33	3-Aug-11	12:30	TRES	300	over cows in pasture			feeding low
4	3-Aug-11	12:50	TRES	150	tall grass/pasture			feeding low
34	3-Aug-11	12:55	TRES	150	on ground/wires			feeding low/roosting
20	3-Aug-11	13:00	TRES	100	on wires			roosting
35	3-Aug-11	13:06	TRES	100	on wires			roosting
16	3-Aug-11	13:14	TRES	90	on wires/tall grass			perching/feeding low
36	3-Aug-11	13:16	TRES	75	on wires/tall grass			
17	3-Aug-11	13:19	TRES	160	on wires near house/tall grass			
37	3-Aug-11	13:29	TRES	30	on wire			roosting
25	3-Aug-11	14:10	TRES	30	on wires near barn			roosting
11	3-Aug-11	14:17	TRES	10	on wires			roosting
30	9-Aug-11	14:16	BANS	200	on wires			roosting (limited feeding)
34	9-Aug-11	14:38	BANS	200	on wires			roosting (limited feeding)
23	9-Aug-11	15:02	BANS	200	on wires & cattails			roosting (limited feeding)
30	9-Aug-11	14:16	BARS	50	on wires			roosting (limited feeding)
34	9-Aug-11	14:38	BARS	40	on wires			roosting (limited feeding)
23	9-Aug-11	15:02	BARS	100	on wires & cattails			roosting (limited feeding)
23	9-Aug-11	15:02	NRWS	5	on wires & cattails			roosting (limited feeding)
30	9-Aug-11	14:16	PUMA	15	on wires			roosting (limited feeding)
34	9-Aug-11	14:38	PUMA	5	on wires			roosting (limited feeding)
30	9-Aug-11	14:16	TRES	500	on wires			roosting (limited feeding)
34	9-Aug-11	14:38	TRES	300	on wires			roosting (limited feeding)
23	9-Aug-11	15:02	TRES	800	on wires & cattails			roosting (limited feeding)
5	16-Aug-11	14:05	BANS	2	on wires; residential/field			resting/foraging
34	16-Aug-11	14:45	BANS	15	on wire; pasure & shoreline @ barn			resting/foraging
39	16-Aug-11	16:19	BANS	3	wire along road near barn			resting
40	16-Aug-11	16:55	BANS	3	wire; fields near road			resting/foraging
26	16-Aug-11	17:25	BANS	10	wire; fields near road			resting/foraging
42	16-Aug-11	17:42	BANS	8	wire along road			resting
43	16-Aug-11	17:48	BANS	10	wire along road/field			resting/foraging
44	16-Aug-11	17:55	BANS	60	wire along road/field			resting/foraging
45	16-Aug-11		BANS	25	wire near road			resting/preening
5	16-Aug-11	14:05	BARS	10	on wires; residential/field			resting/foraging
34	16-Aug-11	14:45	BARS	40	on wire; pasure & shoreline @ barn			resting/foraging
31	16-Aug-11	15:45	BARS	100	on wire; field near residential			resting/foraging; all chased off by MERL
39	16-Aug-11	16:19	BARS	11	wire along road near barn			resting
40	16-Aug-11	16:55	BARS	25	wire; fields near road			resting/foraging
26	16-Aug-11	17:25	BARS	40	wire; fields near road			resting/foraging
41	16-Aug-11	17:38	BARS	19	wire along road			resting
42	16-Aug-11	17:42	BARS	15	wire along road			resting
43	16-Aug-11	17:48	BARS	30	wire along road/field			resting/foraging
44	16-Aug-11	17:55	BARS	40	wire along road/field			resting/foraging
45	16-Aug-11		BARS	15	wire near road			resting/preening
31	16-Aug-11	15:45	NRWS	60	on wire; field near residential			resting/foraging; all chased off by MERL
44	16-Aug-11	17:55	NRWS	10	wire along road/field			resting/foraging
5	16-Aug-11	14:05	PUMA	12	on wires; residential/field			resting/foraging
40	16-Aug-11	16:55	PUMA	3	wire; fields near road			resting/foraging
5	16-Aug-11	14:05	TRES	4	on wires; residential/field			resting/foraging
31	16-Aug-11	15:45	TRES	40	on wire; field near residential			resting/foraging; all chased off by MERL
40	16-Aug-11	16:55	TRES	12	wire; fields near road			resting/foraging
26	16-Aug-11	17:25	TRES	100	wire; fields near road			resting/foraging
43	16-Aug-11	17:48	TRES	3	wire along road			resting
43	16-Aug-11	17:48	TRES	20	wire along road/field			resting/foraging
44	16-Aug-11	17:55	TRES	90	wire along road/field			resting/foraging
45	16-Aug-11		TRES	30	wire near road			resting/preening
46	26-Aug-11	9:25	BARS	15	pasture			foraging
47	26-Aug-11	9:50	BARS	10	hayfield/wire			perching/foraging
48	26-Aug-11	9:55	BARS	1	wire/hayfield			perching
48	26-Aug-11	9:55	TRES	14	wire/hayfield			perching
49	2-Sep-11	11:27	BARS	20	on wires	3		
49	2-Sep-11	11:27	TRES	10	on wires	3		
16	2-Sep-11	12:01	TRES	50	on wires/marsh	5		

Summary							
Date	Bank Swallow	Barn Swallow	Cliff Swallow	Northern Rough-winged Swallow	Purple Martin	Tree Swallow	Total
7/8/2011	191	392		15	35	799	1432
7/13/2011	215	300	2	5		575	1097
7/23/2011	270	160	1	10	30	550	1021
7/27/2011	280	290		5	10	945	1530
8/3/2011	990	655			50	1245	2940
8/9/2011	600	190		5	20	1600	2415
8/16/2011	136	345		70	15	299	865
8/26/2011		26				14	40
9/2/2011		20				60	80
Total	2682	2378	3	110	160	6087	11420