

Appendix R

Breeding Bird Survey

Table 4a1: Breeding Bird Survey, Alloa Primary Study Area LSWs (2024)

| FAMILY | SCIENTIFIC NAME | COMMON NAME | Location ^{1,2} | | | | | | | | | | | | | | | | | |
|---------------|----------------------------------|-------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | 1 | | | 2 | | | 3 | | | 4 | | | 5 | | | 6 | | |
| | | | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 |
| Accipitridae | <i>Buteo jamaicensis</i> | Red-tailed Hawk | | | | | | | H | | | | | | H | | | | | |
| Accipitridae | <i>Buteo platypterus</i> | Broad-winged Hawk | | | | | | | | | | | | | | | | | | |
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | S | | | | | | S | | | | | | | | | | | |
| Anatidae | <i>Anas platyrhynchos</i> | Mallard | X | | | | | | | | | | | | | | | | | |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | FO | | | | | | | | | | | | | | | C,FO | | |
| Ardeidae | <i>Egretta caerulea</i> | Little Blue Heron | | | | | | | | | | | | | | | | | | |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | | | | | | | | | | | | | | S,H | | | | |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | | | | S | | | | | | | | | S | S | | | | |
| Cardinalidae | <i>Passerina cyanea</i> | Indigo Bunting | | | | | | | | | | | | | S | | | | | |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | | | | | | | | | | | | | S | | | | | |
| Cathartidae | <i>Cathartes aura</i> | Turkey Vulture | | | | | | | | | | | | | | | | | | |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | | | | | | | H | H | | | | | S | | | H | S,H | |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | | S | | | | | | | | | | S,H | | | | | | |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | | FO | | H | | | FO, C | | | | | | | | | | | |
| Corvidae | <i>Corvus corax</i> | Common Raven | | | | FO | | | | | | | | | | | | | | |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | | | | C | | | | | C | | | | | | | | | |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | FO | | | S | | | FO, S | | | | | | | | | S,FO | | |
| Gruidae | <i>Grus canadensis</i> | Sandhill Crane | | | | | | | | | | | | | | | | | | |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | | | | | S,H,FO | | | | | | | | | | | VIS | | |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | | | | | | | | | | | | | | | | | | |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | S | S,C | | H | | | C | S | | C | X | | S | S,C | | S,H | S,C | |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | | | | | | | | | | | | | | | | S,P | | |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | | | | | | | | | | | | | S | S | | S,VIS | S | |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | | | | | | | | S,H | | | | S,H | | S,H | | S,H | S | |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | | | | | | | FO | | | | | | | | | | | |
| Icteridae | <i>Sturnella magna</i> | Eastern Meadowlark | | | | | | | | | | | | | | | | | | |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | FO | | | | | | | | | | | | | | | | | |
| Mimidae | <i>Dumetella carolinensis</i> | Gray Catbird | | S | | | | | S | | | S | | | S | S | | | S | |
| Mimidae | <i>Toxostoma rufum</i> | Brown Thrasher | | | | | | | | | | | | | | | | | | |
| Paridae | <i>Poecile atricapillus</i> | Black-capped Chickadee | | | | | | | | | | S | | | | | | | | |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | | | | | | | | | | | | | | S | | S | | |
| Parulidae | <i>Mniotilta varia</i> | Black and White Warbler | | | | | | | | | | | | | | | | | | |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | | | | | | | | | | | | | S | | | S | | |
| Parulidae | <i>Setophaga ruticilla</i> | American Redstart | | | | | | | | | | S | | S | S | | | | | |
| Parulidae | <i>Seiurus aurocapilla</i> | Ovenbird | | | | | | | | | | | | | | | | | | |
| Passerellidae | <i>Ammodramus savannarum</i> | Grasshopper Sparrow | | | | | | | | | | | | | | | | | | |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | S | S | | S | S | | S | S | | S | S | | S | S | | S | S | |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | S | S | | S | S | | | | | | | | | | | | S | |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | S | | | S | S | | S | S | | S | | | | | | S | | |
| Passerellidae | <i>Spizella passerina</i> | Chipping Sparrow | | S | | S | | | | | | | | | | | | | | |
| Passerellidae | <i>Spizella pusilla</i> | Field Sparrow | | | | | | | | | | | S | | | | | | | |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | | | | S | S | | | S | | | | | | | | | S | |
| Phasianidae | <i>Gallus domesticus</i> | Chicken | | | | | | | | | | | | | | | | | | |
| Phasianidae | <i>Meleagris gallopavo</i> | Wild Turkey | | | | | | | | | | | | | | | | | | |
| Picidae | <i>Colaptes auratus</i> | Northern Flicker | | | | | | | | | | | | | | | | | | |
| Picidae | <i>Dryobates villosus</i> | Hairy Woodpecker | | | | | | | | | | | | | | | | | | |
| Picidae | <i>Dryocopus pileatus</i> | Pileated Woodpecker | | | | | | | | | | | | | | | | | | |
| Picidae | <i>Melanerpes carolinus</i> | Red-bellied Woodpecker | | | | | | | | | | H | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---------------|---------------------------|--------------------------|----|---|--|---|--------|--|-----|--|------|-----|--|---|-----|--|-----|-----|--|
| Picidae | <i>Picoides pubescens</i> | Downy Woodpecker | | | | | | | | | | | | | C | | | | |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | FO | X | | | | | | | | | | | | | | | |
| Sittidae | <i>Sitta canadensis</i> | Red-breasted Nuthatch | | | | | | | | | | | | | | | | | |
| Sittidae | <i>Sitta carolinensis</i> | White-breasted Nuthatch | | | | | | | | | | | | S | | | | | |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | FO | H | | S | S,H,FO | | S,H | | H, S | | | | S,H | | S,H | S,H | |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | | S | | | S | | | | | | | | S | | | | |
| Turdidae | <i>Turdus migratorius</i> | American Robin | S | | | | S | | S,H | | S | S,H | | S | S | | | | |
| Tyrannidae | <i>Contopus virens</i> | Eastern Wood-pewee | | | | | | | S | | S | | | S | S | | | | |
| Tyrannidae | <i>Empidonax alnorum</i> | Alder Flycatcher | | | | | | | | | | | | | | | | | |
| Tyrannidae | <i>Empidonax traillii</i> | Willow Flycatcher | | | | | | | | | | | | | | | | | |
| Tyrannidae | <i>Myiarchus crinitus</i> | Great Crested Flycatcher | | | | | | | | | S | | | S | | | | | |
| Tyrannidae | <i>Sayornis Phoebe</i> | Eastern Phoebe | | | | | | | | | | | | | | | | | |
| Tyrannidae | <i>Tyrannus tyrannus</i> | Eastern Kingbird | H | | | | | | | | | | | | | | | | |
| Vireonidae | <i>Vireo gilvus</i> | Warbling Vireo | | | | | | | | | | | | | | | | | |
| Vireonidae | <i>Vireo olivaceus</i> | Red-eyed Vireo | | | | | | | | | | | | | | | | | |

Table 4a2: Breeding Bird Survey, Alloa Primary Study Area LSWs (2024)

AEC24-077b

| FAMILY | SCIENTIFIC NAME | COMMON NAME | 7 | | | 8 | | | 9 | | | 10 | | | Adjacent Lands | Incidental | Breeding Evidence | Conservation Rankings ³ | | | | |
|---------------|----------------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|------------|-------------------|------------------------------------|-------|------|------|-------|
| | | | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | | | | GRANK | SRANK | MECP | SARA | TRACK |
| Accipitridae | <i>Buteo jamaicensis</i> | Red-tailed Hawk | | | | | | | | | | | | | X | Po | G5 | S4B | | | N | |
| Accipitridae | <i>Buteo platypterus</i> | Broad-winged Hawk | | | | | | | | | | | | | X | Po | G5 | S5B | | | N | |
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | | | | | | | | | | | | | X | Po | G5 | S4B | | | N | |
| Anatidae | <i>Anas platyrhynchos</i> | Mallard | | | | | | | | | | | | | X | Po | G5 | S5B | | | N | |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | | | | | | | | | | | | | | Confirmed | G5 | S4B | | | N | |
| Ardeidae | <i>Egretta caerulea</i> | Little Blue Heron | | | | | | | | | | | | | X | - | G5 | SNA | | | N | |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | | | | | | | | | | S | | | X | Po | G5 | S4B | | | N | |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | | | | | S | | S | S | | | | | X | Pr | G5 | S5 | | | N | |
| Cardinalidae | <i>Passerina cyanea</i> | Indigo Bunting | | | | | | | S,H | | | | S | | | Po | G5 | S5 | | | N | |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | | | | | | | | | | | | | | Po | G5 | S5B | | | N | |
| Cathartidae | <i>Cathartes aura</i> | Turkey Vulture | | | | | | | | | | | | | X | - | G5 | S5B, 3N | | | N | |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | S,H | | | | | | | | | | | | X | Pr | G5 | S5 | | | N | |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | | | | | S | | S | | | | | | X | Po | G5 | S4B | | | N | |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | | | | | | | | | | | | | X | Po | G5 | S5B | | | N | |
| Corvidae | <i>Corvus corax</i> | Common Raven | | | | | | | | | | | | | X | Po | G5 | S5B | | | N | |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | | | | C | | | | | S,H | C,H | | H | X | Pr | G5 | S4B | | | N | |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | S,H | | | | S,FO | | | | S,H | | | | X | Po | G5 | S4B | | | N | |
| Gruidae | <i>Grus canadensis</i> | Sandhill Crane | | | | | FO,VIS | | | | | | | | | Po | G5 | S5 | | | N | |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | S,FO | S,FO,H | | | S,H,FO | | S,FO | S,FO | | | | | X | Pr | G5 | S5B | SC | SC | N | |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | | | | | | | FO | | | | | | | Po | G5 | S4B | | | N | |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | S | S,C,H | | S | S,C,H | | S,H | S,C,H | | | | | X | Pr | G5 | S4B | | | N | |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | S | S | | S | S | | S | S,H | | | | | X | Confirmed | G5 | S5B | THR | THR | Y | |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | | | | S | S | | S | S | | | | | X | Pr | G5 | S4B | | | N | |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | S | S,H | | | | | S,H | S,H | | | S,H | | X | Pr | G5 | S4 | | | N | |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | | C,H | | | | | | | | | | | X | Po | G5 | S5B | | | N | |
| Icteridae | <i>Sturnella magna</i> | Eastern Meadowlark | | | | S | S | | S | S,H | | | | | X | Pr | G5 | S4B | THR | THR | Y | |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | | | | | | | | | | | | | | Po | G5 | S5 | | | N | |
| Mimidae | <i>Dumetella carolinensis</i> | Gray Catbird | | | | | | | | | S | | | | X | Pr | G5 | S5B | | | N | |
| Mimidae | <i>Toxostoma rufum</i> | Brown Thrasher | | | | | | | | | | | | | X | - | G5 | S4B | | | N | |
| Paridae | <i>Poecile atricapillus</i> | Black-capped Chickadee | | | | | | | | | S | | | | X | Po | G5 | S5B | | | N | |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | | | | S | | | S | | | | | | X | Po | G5 | SNA | | | N | |
| Parulidae | <i>Mniotilta varia</i> | Black and White Warbler | | | | | | | | | | | | | X | - | G5 | S5B | | | N | |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | S | | | S | S | | S | | | | | | X | Pr | G5 | S5B | | | N | |
| Parulidae | <i>Setophaga ruticilla</i> | American Redstart | | | | | | | | | | | | | X | Pr | G5 | S5B | | | N | |
| Parulidae | <i>Seiurus aurocapilla</i> | Ovenbird | | | | | | | | | | | | | X | - | G5 | S5B | | | N | |
| Passerellidae | <i>Ammodramus savannarum</i> | Grasshopper Sparrow | | | | | | | | | | | | | X | - | G5 | S4B | SC | SC | Y | |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | S | S | | S | S | | S,H | | S | S | | | X | Pr | G5 | S4B | | | N | |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | S | S | | S | S | | S | S | | | | | X | Pr | G5 | S5B | | | N | |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | S | | | | | | | | | | | | X | Pr | G5 | SNA | | | N | |
| Passerellidae | <i>Spizella passerina</i> | Chipping Sparrow | | | | | S | | | | | | | | X | Po | G5 | S5B | | | N | |
| Passerellidae | <i>Spizella pusilla</i> | Field Sparrow | | | | | | | | | | | | | | Po | G5 | S5B,S5N | | | N | |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | | S | | | | | | | | | | | | Pr | G5 | S4B | | | N | |
| Phasianidae | <i>Gallus domesticus</i> | Chicken | | | | | | | | | | | | | X | - | G5 | S5 | | | N | |
| Phasianidae | <i>Meleagris gallopavo</i> | Wild Turkey | | | | | | | | | | | | | X | - | G5 | S5 | | | N | |
| Picidae | <i>Colaptes auratus</i> | Northern Flicker | | | | | C | | | | | | | | X | Po | G5 | S5 | | | N | |
| Picidae | <i>Dryobates villosus</i> | Hairy Woodpecker | | | | | | | | | | | | | X | - | G5 | S5 | | | N | |
| Picidae | <i>Dryocopus pileatus</i> | Pileated Woodpecker | | | | | | | | | | | | | X | - | G5 | S5 | | | N | |
| Picidae | <i>Melanerpes carolinus</i> | Red-bellied Woodpecker | | | | | | | | | | | | | X | Po | G5 | S5B | | | N | |

| | | | | | | | | | | | | | | | | | | | | | |
|---------------|---------------------------|--------------------------|-----|-----|--|---|-------|---|-----|-----|--|-----|-----|--|---|----|----|---------|--|--|---|
| Picidae | <i>Picoides pubescens</i> | Downy Woodpecker | | | | | | | | | | | | | X | Po | G5 | S5 | | | N |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | | | | | | | | | | | | | X | Po | G5 | S4B | | | N |
| Sittidae | <i>Sitta canadensis</i> | Red-breasted Nuthatch | | | | | | | | | | | | | X | - | G5 | S5 | | | N |
| Sittidae | <i>Sitta carolinensis</i> | White-breasted Nuthatch | | | | | | | | | | S,H | S,H | | X | Pr | G5 | S5 | | | N |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | S,H | S,H | | | | S | | | | | | | X | Pr | G5 | S4B | | | N |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | | | | | | | | | | S | S,H | | X | Pr | G5 | S4 | | | N |
| Turdidae | <i>Turdus migratorius</i> | American Robin | S | S | | S | S,C,H | | S,H | S,H | | | | | X | Pr | G5 | S5B | | | N |
| Tyrannidae | <i>Contopus virens</i> | Eastern Wood-pewee | | | | | | | | S | | S | S | | X | Pr | G5 | S5B | | | N |
| Tyrannidae | <i>Empidonax alnorum</i> | Alder Flycatcher | | | | | | | | S | | | | | | Po | G5 | S5 | | | N |
| Tyrannidae | <i>Empidonax traillii</i> | Willow Flycatcher | | | | S | | | | | | | | | X | Po | G5 | S5 | | | N |
| Tyrannidae | <i>Myiarchus crinitus</i> | Great Crested Flycatcher | | | | S | | | | | | | S,H | | X | Po | G5 | S5B,S4N | | | N |
| Tyrannidae | <i>Sayornis Phoebe</i> | Eastern Phoebe | | | | | | | | | | | | | X | - | G5 | S5B | | | N |
| Tyrannidae | <i>Tyrannus tyrannus</i> | Eastern Kingbird | | | | | | | | | | | | | | Po | G5 | S5 | | | N |
| Vireonidae | <i>Vireo gilvus</i> | Warbling Vireo | | | | | | S | | | | | | | X | Po | G5 | S4B | | | N |
| Vireonidae | <i>Vireo olivaceus</i> | Red-eyed Vireo | | | | | | | | | | | | | X | - | G5 | S5B | | | N |

Table 4b1: Breeding Bird Survey, Alloa Primary Study Area LSWs (2024)

| FAMILY | SCIENTIFIC NAME | COMMON NAME | Location ^{1,2} | | | | | | | | | | | | | | | | | |
|---------------|----------------------------------|--------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | 11 | | | 12 | | | 13 | | | 14 | | | 15 | | | 16 | | |
| | | | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 |
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | S | | | | | | S | S | | | | | | | | S | | |
| Anatidae | <i>Anas platyrhynchos</i> | Mallard | FO | | | | | | | | | | | | | | | | C | |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | C,FO | | | H,C | | | C,VIS | | | | C | | | | | C,VIS | | |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | | S,H | | | | | | | | | S | | | | | | | |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | | | | | S | | | S | | | | S | | | | S | S | |
| Cardinalidae | <i>Passerina cyanea</i> | Indigo Bunting | | | | S | | | | | | | | | | | | | | |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | | | | | | | | | | | S | | | S | | | | |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | S | | | S | S | | | C | | | S,H | S,C | | | S | | S | S,C,F |
| Columbidae | <i>Columba livia</i> | Rock Pigeon | | | | | | | | | | | | | | | | | | |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | | S,FO | | S | | | S | S | | | S | | | S | | | S | |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | C,H | C,FO | | | | | C,H | C | | | C | | | C | | | | |
| Corvidae | <i>Corvus corax</i> | Common Raven | | | | | | | | | | | | | | | | | C | |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | S,H | | | | C,H | | S | C | | | C | | | C | C | | C | |
| Fringillidae | <i>Haemorhous mexicanus</i> | House Finch | | | | | | | | | | | | | | | | | | |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | S,FO | S,C,H | | S,C | | | | | | | S | | | C | | | | |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | | | | S,FO | S,FO | | | S,FO | | | | | | | | | | |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | | | | | | | | S,FO | | | | | | | | | | |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | S,H | S,C,H | | | | | C,FO | C | | | C | S,C | | | C | | S,C,H | S,C |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | | | | | | | | | | | | | | | | | | |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | | | | | | | | | | | | S | | | S | | | S |
| Icteridae | <i>Icterus spurius</i> | Orchard Oriole | | | | | | | | | | | | | | | | | S | |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | | | | | S | | | S | | | S | S | | | S | | S | S |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | | C,H | | | | | | | | | | | | | | | S | |
| Icteridae | <i>Sturnella magna</i> | Eastern Meadowlark | | | | | | | | | | | | | | | | | | |
| Laridae | <i>Larus argentatus</i> | Herring Gull | FO | | | | | | | | | | | | | | | | | |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | | | | VIS | | | | | | | | | | | | | | |
| Paridae | <i>Poecile atricapillus</i> | Black-capped Chickadee | | S | | | | | C | | | | S,C | C | | C | C | | | |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | | | | | | | | | | | | S | | | | | | S |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | | | | | | | | | | | | | | | | | | S |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | S | S | | S,H | C,H | | S,H | S | | | S,H | S | | S,H | S | | S | S |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | S | S | | S,H | S | | S,H | | | | | | | | | | | |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | | | | S | S,C | | S,H | S | | | | | | | | | | |
| Passerellidae | <i>Spizella passerina</i> | Chipping Sparrow | | S | | | | | | | | | S | | | | | | S | |
| Passerellidae | <i>Spizella pusilla</i> | Field Sparrow | | | | | | | | | | | | | | | | | | |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | S | S | | | S | | | S | | | | | | | | | | |
| Phasianidae | <i>Meleagris gallopavo</i> | Wild Turkey | | | | | C,H | | | | | | | | | | | | | |
| Picidae | <i>Colaptes auratus</i> | Northern Flicker | | | | | | | | C | | | | | | | | | | C |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | | | | | | | | | | | | | | | | | S | |
| Sittidae | <i>Sitta canadensis</i> | Red-breasted Nuthatch | FO | | | | | | | | | | | | | | | | | |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | S,H | S,H | | | | | | | | | | S | | | | | | S,C,F |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | | | | S,H | | | S,H | | | | | | | | S | | | S |
| Turdidae | <i>Turdus migratorius</i> | American Robin | S | S | | S,C | S,C | | S,H | S | | | S,C | S,VIS | | C | | C | | |
| Tyrannidae | <i>Myiarchus crinitus</i> | Great Crested Flycatcher | | | | S,H | | | S,H | | | | S | | | S | | | | |
| Tyrannidae | <i>Sayornis phoebe</i> | Eastern Phoebe | | | | | | | | S | | | | | | | | | | |
| Tyrannidae | <i>Tyrannus tyrannus</i> | Eastern Kingbird | | | | S | | | S | | | | S | | | | | | | |
| Vireonidae | <i>Vireo gilvus</i> | Warbling Vireo | | | | | | | | | | | | | | | | | S | S |
| Vireonidae | <i>Vireo olivaceus</i> | Red-eyed Vireo | | | | | | | | | | | S | | S | S | | | | |

Table 4b2: Breeding Bird Survey, Alloa Primary Study Area LSWs (2024)

AEC24-077b

| FAMILY | SCIENTIFIC NAME | COMMON NAME | 17 | | | 18 | | | 19 | | | 20 | | | Adjacent Lands | Breeding Evidence | Conservation Rankings ³ | | | | |
|---------------|----------------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------------------|------------------------------------|-------|------|------|-------|
| | | | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | | | GRANK | SRANK | MECP | SARA | TRACK |
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | S | S | | S | S | | S | | | | | | Pr | G5 | S5B | | | N | |
| Anatidae | <i>Anas platyrhynchos</i> | Mallard | | | | | | | FO | | | | | | Po | G5 | S5 | | | N | |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | C | | | | | | C,FO | | | | C,FO,H | | Confirmed | G5 | S5 | | | N | |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | | | | | | | | | | | | | Po | G5 | S5B | | | N | |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | S | | | | S | | | S | | | | | Pr | G5 | S5 | | | N | |
| Cardinalidae | <i>Passerina cyanea</i> | Indigo Bunting | | | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | | | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | S | S,C | | S,H | S | | S,H | S | | S | S,H | | Pr | G5 | S5B,S5N | | | N | |
| Columbidae | <i>Columba livia</i> | Rock Pigeon | | | | | | | | | | | | H | - | G5 | SNA | | | N | |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | S | S | | | S | | | S | | | S | | Pr | G5 | S5 | | | N | |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | | | | | | | | | | | C,FO | | Pr | G5 | S5B | | | N | |
| Corvidae | <i>Corvus corax</i> | Common Raven | | | | | S | | H | C,VIS | | H | C,H | | Pr | G5 | S5 | | | N | |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | | | | C | | | | | | | | | Pr | G5 | S5 | | | N | |
| Fringillidae | <i>Haemorhous mexicanus</i> | House Finch | S | | | | | | | | | | | | Po | G5 | SNA | | | N | |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | | S,C | | | S,C | | S,H | | | S | | | Pr | G5 | S5B | | | N | |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | | | | S,FO | S | | | S | | | | | Pr | G5 | S4B | SC | SC | Y | |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | | | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | S,C | S,C | | C | S,C | | | C | | S,H | S | | Pr | G5 | S4 | | | N | |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | | | | | | | | | | | | S | - | G5 | S4B | THR | THR | Y | |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | | | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Icteridae | <i>Icterus spurius</i> | Orchard Oriole | | S | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | | | | | | | S | | | | S | | Pr | G5 | S4B | | | N | |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | | | | | C | | | S | | | | | Po | G5 | S5B | | | N | |
| Icteridae | <i>Sturnella magna</i> | Eastern Meadowlark | | | | | | | | | | | | S | - | G5 | S4B | THR | THR | Y | |
| Laridae | <i>Larus argentatus</i> | Herring Gull | | | | | | | | | | | | | - | G5 | S5B,S5N | | | N | |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | FO | | | | | | FO | | | FO | | | - | G5 | S5B,S4N | | | N | |
| Paridae | <i>Poecile atricapillus</i> | Black-capped Chickadee | | | | | | | | | | | | | Pr | G5 | S5 | | | N | |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | | | | | | | | | | | | S | Po | G5 | S5B | | | N | |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | | S | | | | | | | | | | S | Po | G5 | S5B | | | N | |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | S | S | | S,H | S | | S | S | | S | S | | Pr | G5 | S5B | | | N | |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | S | S | | S,H | S | | | S | | S,H | S | | Pr | G5 | S4B | | | N | |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | | | | | | | S,H | | | | | | Pr | G5 | S4B | | | N | |
| Passerellidae | <i>Spizella passerina</i> | Chipping Sparrow | S | | | | S | | | S | | S | | | Po | G5 | S5B | | | N | |
| Passerellidae | <i>Spizella pusilla</i> | Field Sparrow | | S | | | | | | S | | | | | Po | G5 | S4B | | | N | |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | | | | | | | | S | | | | | Pr | G5 | SNA | | | N | |
| Phasianidae | <i>Meleagris gallopavo</i> | Wild Turkey | | | | S | | | | | | | | | Po | G5 | S5 | | | N | |
| Picidae | <i>Colaptes auratus</i> | Northern Flicker | | | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | | | | | | | | | | | | | Po | G5 | S5 | | | N | |
| Sittidae | <i>Sitta canadensis</i> | Red-breasted Nuthatch | | | | | | | | | | | | | Po | G5 | S5 | | | N | |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | | S,H | | | S | | S | S | | | | | Pr | G5 | SNA | | | N | |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | | | | | | | | S | | | | | Po | G5 | S5B | | | N | |
| Turdidae | <i>Turdus migratorius</i> | American Robin | S | S,C | | S,H | S | | S | S | | S | S | | Pr | G5 | S5B | | | N | |
| Tyrannidae | <i>Myiarchus crinitus</i> | Great Crested Flycatcher | | | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Tyrannidae | <i>Sayornis phoebe</i> | Eastern Phoebe | | | | | | | | | | | | | Po | G5 | S5B | | | N | |
| Tyrannidae | <i>Tyrannus tyrannus</i> | Eastern Kingbird | | | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Vireonidae | <i>Vireo gilvus</i> | Warbling Vireo | S | S | | | S | | | | | | | | Pr | G5 | S5B | | | N | |
| Vireonidae | <i>Vireo olivaceus</i> | Red-eyed Vireo | | | | | | | | | | | | | Pr | G5 | S5B | | | N | |

Table 4c1: Breeding Bird Survey, Alloa Primary Study Area LSWs (2024)

| FAMILY | SCIENTIFIC NAME | COMMON NAME | Location ^{1,2} | | | | | | | | | | | | | | | | | |
|---------------|-----------------------------------|-------------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | 21 | | | 22 | | | 23 | | | 24 | | | 25 | | | 26 | | |
| | | | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 |
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | S | S | | S | | | S,H | | | S | S | | | | | | | |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | H | | | | | | | | | FO | | | FO | | | | | |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | | | | | | | | | | | | | | | | | | |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | | | | | | | | | | | | | | | | | S | |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | | | | | | | | | | | | | | | | | S | |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | | | | H | | | H,FY | S,H | | H | | | | | | | C | |
| Columbidae | <i>Columba livia</i> | Rock Pigeon | | | | | | | | H | | | | | | | | | | |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | | S | | S,H | S | | | S | | S,H | S | | | | | | | |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | | | | | | | | | | | | | | | | | C | |
| Corvidae | <i>Corvus corax</i> | Common Raven | | | | H | C,H | | | | | | | | | | | | | |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | H | | | | | | | | | | | | | C | | | A | |
| Cuculidae | <i>Coccyzus erythrophthalmus</i> | Black-billed Cuckoo | | | | | | | | | | | | | | | | | | |
| Fringillidae | <i>Haemorhous mexicanus</i> | House Finch | | | | | | | | | | | | | | | | | | |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | S,P | C,H | | | C,H | | | | | | S,C,H | | | | | S,FO | C,FO | |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | | | | | | | H | S,H | | | | | P,H | S,FO | | | | |
| Hirundinidae | <i>Petrochelidon pyrrhonota</i> | Cliff Swallow | | | | | | | | S,H | | | | | | | | | | |
| Hirundinidae | <i>Stelgidopteryx serripennis</i> | Northern Rough-winged Swallow | | | | | | | | H | | | | | | | | | | |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | | | | | | | | | | | | | | | | | | |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | S,H | S,H | | | C,H | | S | S | | C,H | S,C | | S | S,C | | | C | |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | | | | | | | | | | | | | | | | | | |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | | | | | | | | | | | | | | S | | | | |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | | | | | S | | | | | | | | | | | | | |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | FO | | | | | | | | | S,H | | | | | | | | |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | FO | | | | | | | | | | | | | | | | C | |
| Paridae | <i>Poecile atricapillus</i> | Black-capped Chickadee | | | | | | | | | | | | | | | | | | |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | | | | | | | | | | | | | | | | | | |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | | | | | | | | | | | | | | S | | | | |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | S | S | | S | S | | S | S | | S | S | | S | S,C | | S | S | |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | S | S | | S | S | | S | | | S | S | | S | S | | | | |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | | | | | | | | | | | | | | | | | | |
| Passerellidae | <i>Spizella passerina</i> | Chipping Sparrow | | | | | | | | | | | | | | S | | | | |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | | | | | | | | S | | | | | | C | | | | |
| Phasianidae | <i>Meleagris gallopavo</i> | Wild Turkey | | | | | | | | | | | | | | | | | | |
| Picidae | <i>Colaptes auratus</i> | Northern Flicker | | | | | | | | | | | | | | | | | | |
| Picidae | <i>Picoides pubescens</i> | Downy Woodpecker | | | | | | | | | | | | | | | | C | C,H | |
| Picidae | <i>Picoides villosus</i> | Hairy Woodpecker | | | | | | | | | | | | | | | | | | |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | | S | | | | | | H | | | | | | | | | | |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | | | | | H | | S,H | S,H | | | S,H | | | C | | | | |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | | | | | S | | | S | | | | | | S | | | | |
| Turdidae | <i>Turdus migratorius</i> | American Robin | C,H | S | | H | S | | S | S,H | | S | S | | S | S,H | | C | S | |
| Tyrannidae | <i>Contopus virens</i> | Eastern Wood-pewee | | | | | | | | | | | | | | | | S | S | |
| Vireonidae | <i>Vireo olivaceus</i> | Red-eyed Vireo | | | | | | | | | | | | | | | | | | |

Table 4c2: Breeding Bird Survey, Alloa Primary Study Area LSWS (2024)

AEC24-077b

| FAMILY | SCIENTIFIC NAME | COMMON NAME | | | | | | | | | | | | | Adjacent Lands | Breeding Evidence | Conservation Rankings ³ | | | | |
|---------------|-----------------------------------|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------------------|------------------------------------|---------|------|------|-------|
| | | | 27 | | | 28 | | | 29 | | | 30 | | | | | GRANK | SRANK | MECP | SARA | TRACK |
| | | | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | | | | | | | |
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | S | S | | | | | | S | | | | | | Pr | G5 | S5B | | | N |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | | | | | | | | | | | | | | Po | G5 | S5 | | | N |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | | | | | | | | C,FO | | | | | | Po | G5 | S5B | | | N |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | | | | | S | | | | | | S | | | Po | G5 | S5 | | | N |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | | | | | S | | | | | | | | | Po | G5 | S4B | | | N |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | S | S | | | A | | | | | | A | | | Confirmed | G5 | S5B,S5N | | | N |
| Columbidae | <i>Columba livia</i> | Rock Pigeon | | | | | | | | | | | | | | Po | G5 | SNA | | | N |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | | S | | | | | | | | | | | | Pr | G5 | S5 | | | N |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | | | | C | | | | | | | C,FO | | | Po | G5 | S5B | | | N |
| Corvidae | <i>Corvus corax</i> | Common Raven | | | | | | | | | | | | | | Pr | G5 | S5 | | | N |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | C | C | | C | | | | | | | | | | Pr | G5 | S5 | | | N |
| Cuculidae | <i>Coccyzus erythrophthalmus</i> | Black-billed Cuckoo | | | | | S | | | | | | | | | Po | G5 | S5B | | | N |
| Fringillidae | <i>Haemorhous mexicanus</i> | House Finch | S | | | | | | | | | | | | | Po | G5 | SNA | | | N |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | | | | S,H | C | | | C | | | | | | Pr | G5 | S5B | | | N |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | S,H | S,FO | | | | | S,H | | | S | C,FO | | | Pr | G5 | S4B | THR | THR | Y |
| Hirundinidae | <i>Petrochelidon pyrrhonota</i> | Cliff Swallow | | | | | | | | | | | | | | Po | G5 | S4B | | | N |
| Hirundinidae | <i>Stelgidopteryx serripennis</i> | Northern Rough-winged Swallow | | | | | | | | | | | | | | Po | G5 | S4B | | | N |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | | C,FO | | | | | | C,FO | | | | | | Po | G5 | S4B | | | N |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | S,C | C | | | | | S | | | S,H,P | S,C,T | | | Pr | G5 | S4 | | | N |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | | | | | | | | | | S | | | | Po | G5 | S4B | THR | THR | Y |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | | | | | | | | | | | | | | Po | G5 | S4B | | | N |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | | | | | | | | | | | | | | Po | G5 | S4B | | | N |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | | | | S,FO | | | | | | | | | | Po | G5 | S5B | | | N |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | | C,FO | | | | | | | | | | | | Po | G5 | S5B,S4N | | | N |
| Paridae | <i>Poecile atricapillus</i> | Black-capped Chickadee | | | | | C | | | | | | | | | Po | G5 | S5 | | | N |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | | S | | | | | | | | | | | | Po | G5 | S5B | | | N |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | | | | | | | | | | | | | | Po | G5 | S5B | | | N |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | | S | | S | S,T | | S,H | S,H | | | | | | Pr | G5 | S5B | | | N |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | S | S | | S | S | | S | S | | S | S | | | Pr | G5 | S4B | | | N |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | | | | | | | | S | | | | | | Po | G5 | S4B | | | N |
| Passerellidae | <i>Spizella passerina</i> | Chipping Sparrow | | | | | | | | | | | | | | Po | G5 | S5B | | | N |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | | T,C | | | | | S | C,T | | | | | | Pr | G5 | SNA | | | N |
| Phasianidae | <i>Meleagris gallopavo</i> | Wild Turkey | H | | | | | | | | | | | | | Confirmed | G5 | S5 | | | N |
| Picidae | <i>Colaptes auratus</i> | Northern Flicker | | | | C,D | | | | | | | | | | Po | G5 | S4B | | | N |
| Picidae | <i>Picoides pubescens</i> | Downy Woodpecker | | | | | C,H | | | | | | | | | Pr | G5 | S5 | | | N |
| Picidae | <i>Picoides villosus</i> | Hairy Woodpecker | | C | | | | | | | | | | | | Po | G5 | S5 | | | N |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | | | | | | | | | | | | | | Po | G5 | S5 | | | N |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | | C | | | C,FO | | | C,T | | | C,T | | | Pr | G5 | SNA | | | N |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | | S | | S | S | | | S | | | S | | | Pr | G5 | S5B | | | N |
| Turdidae | <i>Turdus migratorius</i> | American Robin | | S | | | S | | H | S,C | | | | | | Pr | G5 | S5B | | | N |
| Tyrannidae | <i>Contopus virens</i> | Eastern Wood-pewee | | | | | S | | | | | | | | | Pr | G5 | S4B | SC | SC | Y |
| Vireonidae | <i>Vireo olivaceus</i> | Red-eyed Vireo | | | | | | | | | | | S | | | Po | G5 | S5B | | | N |

Table 4d1: Breeding Bird Survey, Alloa Primary Study Area LSWs (2024)

| FAMILY | SCIENTIFIC NAME | COMMON NAME | Location ^{1,2} | | | | | | | | | | | | | | | | | |
|---------------|-----------------------------------|-------------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | 31 | | | 32 | | | 33 | | | 34 | | | 35 | | | 36 | | |
| | | | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 |
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | | S | | S | | | | S,H,P | S | | S,H,P | S | | | | | | |
| Anatidae | <i>Anas platyrhynchos</i> | Mallard | | | | | | | | | | | | | | | | | | |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | | | | | | | | | | | FO | | | | | | | |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | | | | | | | | | | | | | | | | | | |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | | | | | S | | | | | | S | | | S,H | | S | | |
| Cardinalidae | <i>Passerina cyanea</i> | Indigo Bunting | | | | | | | | | | | | S | S | | | | | |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | | | | | | | | | | | | S | S | | | | | |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | S,H | A | | S,H | | | | S | | S,H | S | | | | | | | |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | | S | | | | | | | | | | | | | | | | |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | | | | | | | | | | | | | | | | | C,H | |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | | C | | | | | C,H | | | | C,H | | | | | C,H | | |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | | | | S,H | C,H | | H | C,H | | S,H | | | | | | S,C,H | | |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | | | | | | | | | | | | S,H | | | | | | |
| Hirundinidae | <i>Stelgidopteryx serripennis</i> | Northern Rough-winged Swallow | | | | | | | | | | | | | | | | | | |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | | S,FO | | | | | | | | | | | | | | | | |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | S,C | S | | | | | C,H | S,C,H | | S,C,H | S,C | | C,H | S,C | | S,H | S,C | |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | | | | | | | | | | | | | | | | | | |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | | | | | | | S | | | | | | | | | | S | |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | | | | | | | | | | | | S,H | S | | | | | |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | | | | | | | | | | H | | | | | | | C,H,P | |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | | | | FO | | | | | | | | | | | | | | |
| Mimidae | <i>Dumetella carolinensis</i> | Gray Catbird | | | | | | | | | | | | | | | | | S | |
| Mimidae | <i>Toxostoma rufum</i> | Brown Thrasher | | | | | | | S | S | | | | | | | | | | |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | | | | | | | S | | | | S | | S | | | S | S | |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | | | | | | | S | | | | | | | | | S | S | |
| Parulidae | <i>Setophaga ruticilla</i> | American Redstart | | | | | | | | | | | | S | | | | | | |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | | S | | S | S | | S | S | | S | S | | S | S | | S | S | |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | S | S | | S | S | | S | S | | S | S | | S | S | | S | | |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | | | | | S | | | S | | | S | | S | | | | | |
| Passerellidae | <i>Spizella pusilla</i> | Field Sparrow | | | | | | | | | | | | | | | | | | |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | | C | | | | | | | | | | | | | | | | |
| Picidae | <i>Picoides villosus</i> | Hairy Woodpecker | | | | | | | | | | | | | | C,H | | | | |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | | | | | | | | | | | | | | | | | | |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | | C | | | S,C | | | | | | | | | | | | | |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | | | | | S | | | | | | | | S | | | | | |
| Turdidae | <i>Hylocichla mustelina</i> | Wood Thrush | | | | | | | | | | | S | | | | | | S | |
| Turdidae | <i>Turdus migratorius</i> | American Robin | | | | S | S | | S | | | S,H | S | | S | S | | C,H | S | |
| Tyrannidae | <i>Contopus virens</i> | Eastern Wood-pewee | | | | | | | | | | | | S | S | | | S | | |
| Tyrannidae | <i>Empidonax alnorum</i> | Alder Flycatcher | | | | | | | | | | | | | | | | S | | |
| Tyrannidae | <i>Empidonax traillii</i> | Willow Flycatcher | | | | | | | | | | | | | | | | | | |
| Tyrannidae | <i>Myiarchus crinitus</i> | Great Crested Flycatcher | | | | | S | | S | | | | | | S | | | | S | |
| Tyrannidae | <i>Sayornis phoebe</i> | Eastern Phoebe | | | | | | | S | | | | | | | | | | | |
| Vireonidae | <i>Vireo gilvus</i> | Warbling Vireo | | | | | | | | | | | | | | | | S,H | S | |

Table 4d2: Breeding Bird Survey, Alloa Primary Study Area LSWs (2024)

AEC24-077b

| FAMILY | SCIENTIFIC NAME | COMMON NAME | 37 | | | 38 | | | 39 | | | 40 | | | Adjacent Lands | Breeding Evidence | Conservation Rankings ³ | | | | |
|---------------|-----------------------------------|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|-------------------|------------------------------------|-------|------|------|-------|
| | | | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | Visit 1 | Visit 2 | Visit 3 | | | GRANK | SRANK | MECP | SARA | TRACK |
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | | S | | S,H | S | | | S | | S | | | Pr | G5 | S5B | | | N | |
| Anatidae | <i>Anas platyrhynchos</i> | Mallard | | | | P | | | X | P,FO | | | VIS,N? | | Pr | G5 | S5 | | | N | |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | FO | | | | | | | | | | | | Po | G5 | S5 | | | N | |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | | | | | | | | | | | S,FO | | Po | G5 | S5B | | | N | |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | | S | | S | C | | | | | | | | Pr | G5 | S5 | | | N | |
| Cardinalidae | <i>Passerina cyanea</i> | Indigo Bunting | | S | | | | | | | | | | | Pr | G5 | S4B | | | N | |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | S | | | | | | | | | | | | Pr | G5 | S4B | | | N | |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | | C | | | C | | FO | C,A | | S,H | C | | Pr | G5 | S5B,S5N | | | N | |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | | S | | | | | S,H | | | | S | | Po | G5 | S5 | | | N | |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | | | | | | | C,FO | | | | | | Po | G5 | S5B | | | N | |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | | | | | | | | | | | | | Po | G5 | S5 | | | N | |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | S,FO | C | | | | | S | C | | | S,C,FO | | Pr | G5 | S5B | | | N | |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | | | | S,H | X | | S,H | | | | | | Pr | G5 | S4B | THR | THR | Y | |
| Hirundinidae | <i>Stelgidopteryx serripennis</i> | Northern Rough-winged Swallow | | | | | | | S,H | | | | | | Po | G5 | S4B | | | N | |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | | C,FO | | | C,X | | | | | | | | Po | G5 | S4B | | | N | |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | C,H,P | S | | S | C | | S | S,C | | S,C | S,C | S | Pr | G5 | S4 | | | N | |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | | | | S | | | | | | | | | Po | G5 | S4B | THR | THR | Y | |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | | | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | | | | | | | | | | S | | | Pr | G5 | S4B | | | N | |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | | | | S,H | | | | C,FO | | FO | | | Pr | G5 | S5B | | | N | |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | | | | FO | | | FO | FO | | FO | | | - | G5 | S5B,S4N | | | N | |
| Mimidae | <i>Dumetella carolinensis</i> | Gray Catbird | | | | S | | | | S | | | S | | Po | G5 | S4B | | | N | |
| Mimidae | <i>Toxostoma rufum</i> | Brown Thrasher | S | | | S | | | | | | | S | S | Pr | G5 | S4B | | | N | |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | | | | | | | | | | | | | Pr | G5 | S5B | | | N | |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | | | | | | | | | | | | | Pr | G5 | S5B | | | N | |
| Parulidae | <i>Setophaga ruticilla</i> | American Redstart | | | | | | | | | | | | | Po | G5 | S5B | | | N | |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | S,H | S | | | S | | S | S | | S | S | S | Pr | G5 | S5B | | | N | |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | S,H | S | | S | S | | | | | S | | | Pr | G5 | S4B | | | N | |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | | S | | S | S | | | S | | | S | | Pr | G5 | S4B | | | N | |
| Passerellidae | <i>Spizella pusilla</i> | Field Sparrow | | | | | S | | | | | | | | Po | G5 | S4B | | | N | |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | S | C | | | | | S | | | | | | Pr | G5 | SNA | | | N | |
| Picidae | <i>Picoides villosus</i> | Hairy Woodpecker | | | | | | | | | | | | | Po | G5 | S5 | | | N | |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | | | | | | | | | | | S | | Po | G5 | S5 | | | N | |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | S,H | C | | | C | | | S,C | | | C | S | Pr | G5 | SNA | | | N | |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | S | S | | | | | | | | | | | Pr | G5 | S5B | | | N | |
| Turdidae | <i>Hylocichla mustelina</i> | Wood Thrush | S | | | | | | | | | | | | Po | G4 | S4B | SC | THR | Y | |
| Turdidae | <i>Turdus migratorius</i> | American Robin | S,H | S | | S | | | S | | | | C | | Confirmed | G5 | S5B | | | N | |
| Tyrannidae | <i>Contopus virens</i> | Eastern Wood-pewee | | | | | | | | | | | | | Pr | G5 | S4B | SC | SC | Y | |
| Tyrannidae | <i>Empidonax alnorum</i> | Alder Flycatcher | | | | | | | | | | | | | Po | G5 | S5B | | | N | |
| Tyrannidae | <i>Empidonax traillii</i> | Willow Flycatcher | | | | | | | | | | | | | - | G5 | S5B | | | N | |
| Tyrannidae | <i>Myiarchus crinitus</i> | Great Crested Flycatcher | | S | | | | | | | | | | | Po | G5 | S4B | | | N | |
| Tyrannidae | <i>Sayornis phoebe</i> | Eastern Phoebe | S | | | | | | | | | | | | Po | G5 | S5B | | | N | |
| Vireonidae | <i>Vireo gilvus</i> | Warbling Vireo | S | S | | | | | | | | | S | | Pr | G5 | S5B | | | N | |

Table 4e: Breeding Bird Survey, Alloa Primary Study Area LSWS (2024)

AEC24-077b

| FAMILY | SCIENTIFIC NAME | COMMON NAME | Location ^{1,2} | | | Adjacent Lands | Breeding Evidence | Conservation Rankings ³ | | | | |
|---------------|------------------------------|------------------------|-------------------------|---------|---------|----------------|-------------------|------------------------------------|-------|-------|------|-------|
| | | | 41 | | | | | GRANK | SRANK | M NRF | SARA | TRACK |
| | | | Visit 1 | Visit 2 | Visit 3 | | | | | | | |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | | C | | | Po | G5 | S5 | | | N |
| Cardinalidae | <i>Passerina cyanea</i> | Indigo Bunting | | S | | | Po | G5 | S4B | | | N |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | | S,C | | | Po | G5 | S4 | | | N |
| Paridae | <i>Poecile atricapillus</i> | Black-capped Chickadee | | C | | | Po | G5 | S5 | | | N |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | | S | | | Po | G5 | S5B | | | N |
| Picidae | <i>Picoides pubescens</i> | Downy Woodpecker | | C | | | Po | G5 | S5 | | | N |
| Tyrannidae | <i>Contopus virens</i> | Eastern Wood-pewee | | S | | | Po | G5 | S4B | SC | SC | Y |

Table 4f: Breeding Bird Survey, Alloa Primary Study Area LSWS (2024)

24-077b

| FAMILY | SCIENTIFIC_NAME | COMMON_NAME | Highest Breeding Evidence |
|---------------|-----------------------------------|-------------------------------|---------------------------|
| Alaudidae | <i>Eremophila alpestris</i> | Horned Lark | Pr |
| Anatidae | <i>Anas platyrhynchos</i> | Mallard | Pr |
| Anatidae | <i>Branta canadensis</i> | Canada Goose | Confirmed |
| Bombycillidae | <i>Bombycilla cedrorum</i> | Cedar Waxwing | Po |
| Cardinalidae | <i>Cardinalis cardinalis</i> | Northern Cardinal | Pr |
| Cardinalidae | <i>Passerina cyanea</i> | Indigo Bunting | Pr |
| Cardinalidae | <i>Pheucticus ludovicianus</i> | Rose-breasted Grosbeak | Pr |
| Charadriidae | <i>Charadrius vociferus</i> | Killdeer | Confirmed |
| Columbidae | <i>Zenaida macroura</i> | Mourning Dove | Pr |
| Corvidae | <i>Corvus brachyrhynchos</i> | American Crow | Pr |
| Corvidae | <i>Cyanocitta cristata</i> | Blue Jay | Pr |
| Cuculidae | <i>Coccyzus erythrophthalmus</i> | Black-billed Cuckoo | Po |
| Fringillidae | <i>Haemorhous mexicanus</i> | House Finch | Po |
| Fringillidae | <i>Spinus tristis</i> | American Goldfinch | Pr |
| Hirundinidae | <i>Hirundo rustica</i> | Barn Swallow | Pr |
| Hirundinidae | <i>Stelgidopteryx serripennis</i> | Northern Rough-winged Swallow | Po |
| Hirundinidae | <i>Tachycineta bicolor</i> | Tree Swallow | Po |
| Icteridae | <i>Agelaius phoeniceus</i> | Red-winged Blackbird | Pr |
| Icteridae | <i>Dolichonyx oryzivorus</i> | Bobolink | Po |
| Icteridae | <i>Icterus galbula</i> | Baltimore Oriole | Pr |
| Icteridae | <i>Molothrus ater</i> | Brown-headed Cowbird | Pr |
| Icteridae | <i>Quiscalus quiscula</i> | Common Grackle | Pr |
| Laridae | <i>Larus delawarensis</i> | Ring-billed Gull | - |
| Mimidae | <i>Dumetella carolinensis</i> | Gray Catbird | Pr |
| Mimidae | <i>Toxostoma rufum</i> | Brown Thrasher | Pr |
| Paridae | <i>Poecile atricapillus</i> | Black-capped Chickadee | Pr |
| Parulidae | <i>Geothlypis trichas</i> | Common Yellowthroat | Pr |
| Parulidae | <i>Setophaga petechia</i> | Yellow Warbler | Pr |
| Parulidae | <i>Setophaga ruticilla</i> | American Redstart | Pr |
| Passerellidae | <i>Melospiza melodia</i> | Song Sparrow | Pr |
| Passerellidae | <i>Passerculus sandwichensis</i> | Savannah Sparrow | Pr |
| Passerellidae | <i>Pooecetes gramineus</i> | Vesper Sparrow | Pr |
| Passerellidae | <i>Spizella passerina</i> | Chipping Sparrow | Po |
| Passerellidae | <i>Spizella pusilla</i> | Field Sparrow | Po |
| Passeridae | <i>Passer domesticus</i> | House Sparrow | Pr |
| Phasianidae | <i>Meleagris gallopavo</i> | Wild Turkey | Confirmed |
| Picidae | <i>Colaptes auratus</i> | Northern Flicker | Po |
| Picidae | <i>Picoides pubescens</i> | Downy Woodpecker | Pr |
| Picidae | <i>Picoides villosus</i> | Hairy Woodpecker | Po |
| Scolopacidae | <i>Actitis macularius</i> | Spotted Sandpiper | Po |
| Sturnidae | <i>Sturnus vulgaris</i> | European Starling | Pr |
| Troglodytidae | <i>Troglodytes aedon</i> | House Wren | Pr |
| Turdidae | <i>Hylocichla mustelina</i> | Wood Thrush | Po |
| Turdidae | <i>Turdus migratorius</i> | American Robin | Pr |

| | | | |
|------------|---------------------------|--------------------------|----|
| Tyrannidae | <i>Contopus virens</i> | Eastern Wood-pewee | Pr |
| Tyrannidae | <i>Empidonax alnorum</i> | Alder Flycatcher | Po |
| Tyrannidae | <i>Empidonax traillii</i> | Willow Flycatcher | Po |
| Tyrannidae | <i>Myiarchus crinitus</i> | Great Crested Flycatcher | Po |
| Tyrannidae | <i>Sayornis phoebe</i> | Eastern Phoebe | Po |
| Vireonidae | <i>Vireo gilvus</i> | Warbling Vireo | Pr |
| Vireonidae | <i>Vireo olivaceus</i> | Red-eyed Vireo | Pr |

¹Visit 1: May 24, 2024; Observers: David d'Entremont, Scott Tarof, Alexa Pompilio-Grant, Lisa Moran; Temperature 12°C, Cloud Cover 5% , Wind: B2, Precipitation: Nil.

¹Visit 2: June 3, 2024; Observers: David d'Entremont, Scott Tarof, Alexa Pompilio-Grant, Dan Stuart; Temperature 14°C, Cloud Cover 100% , Wind: B1, Precipitation: Nil.

¹Visit 3: June X, 2024; Observers: David d'Entremont, Scott Tarof, Alexa Pompilio-Grant, Lisa Moran; Temperature X°C, Cloud Cover X% , Wind: X, Precipitation: Nil.

²Breeding Bird Evidence Codes: X - Species observed, C - Call heard, FO - Flyover (Species presence); H - Species observed in its breeding season in suitable nesting habitat, S - Singing male (Possible Breeding); P - Pair observed, T - Territorial behaviour, A - Agitated behaviour or anxiety calls of adult, V - Visiting a probably nest site, N - Nest building or excavation of nest hole or P - Pair observed (Probable Breeding); DD - Distraction display or injury feigning, NU - Used Nest or egg shells, FY - Recently fledged young, AE - Adult leaving or entering nest sites, FS - Adult carrying fecal sac, CF - Adult carrying food for young, NE - Nest containing eggs, NY - Nest with young seen or heard (Confirmed Breeding).

³ Conservation Rankings: From Ontario Ministry of Natural Resources and Forestry, Natural Heritage Information Centre (<https://www.ontario.ca/page/natural-heritage-information-centre>).

S-Rank = Sub-national/provincial scale (from 1-5), S1 - Extremely Rare, S2 - Very Rare, S3 - Rare to Uncommon, S4 - Common, S5 - Very Common, E - Exotic.

G-Rank = Global scale (from 1 - "Critically Imperiled" to 5 - "Secure" or common), G1 - Critically Imperiled, G2 - Imperiled, G3 - Vulnerable, G4 - Apparently Secure, G5 - Secure.

B = Breeding Populations, N = Non-breeding Populations; M = Migratory Populations; SARO: EXT - Extirpated, END - Endangered, THR - Threatened, SC - Special Concern.

Track (Is the species tracked provincially?) = Y - Yes, N = No, P = Partial.

NA - Not Applicable (*i.e.* not native to Ontario), Blank - Not at Risk in Ontario.