



Steve Maslowski/USFWS

Appendix J

Prairie warbler

Breeding Landbird Survey Data

The data in the table below was compiled by reviewing the landbird survey data for Brave Boat Harbor and Upper Wells (1994-1998) and Spurwink River and Goosefare Brook (2000-2002) and grassland bird data (1999-2002) and cross referencing it with the list of priority birds for BCR 30 and BCR 14.

It is important to note that surveys were conducted for landbirds in forests and grasslands, and are biased towards those habitats and species within those habitats. Waterfowl, marsh and wading birds, and salt marsh bird numbers are not included in this analysis. Saltmarsh sharp-tailed sparrows, Nelson's sharp-tailed sparrows, piping plovers, least terns, black ducks, common eider and willets are common occurrences on the Refuge and are some of the birds of highest conservation concern within BCR 30 and/or 14. Separate survey efforts document their usage of Refuge lands.

Table J.1. Breeding Landbird Frequency (points detected/all points surveyed) by Division and Refuge Relative Abundance (number of individuals of a species/number of all individual birds).

<i>Species</i>	<i>BCR 30</i>	<i>BCR 14</i>	<i>Habitat</i>	<i>Refuge Relative Abundance</i>	<i>BBH Frequency</i>	<i>U. Wells Frequency</i>	<i>GFB Frequency</i>	<i>Spurwink Frequency</i>
American Redstart		High	MD/MF	0.58%	16.36	4.27	0.00	0.00
Baltimore Oriole	High		MD/MF	0.69%	12.93	0.37	0.00	35.29
Black and White Warbler	High		MD/MF	1.62%	17.69	29.30	41.67	47.06
Black-billed Cuckoo		Moderate	MD/MF	0.03%	1.36	0.00	0.00	2.94
Blackburnian Warbler		Moderate	MD/MF	0.02%	0.00	1.10	0.00	0.00
Black-throated Blue Warbler		High	MD/MF	0.04%	0.00	0.73	2.38	0.00
Black-throated Green Warbler		Moderate	MD/MF	3.68%	34.22	64.1	21.43	3.13
Bank Swallow		Moderate	FW, G/A	0.09%	0.00	4.27	0.00	0.00
Barn Swallow		Moderate	FW, G/A	1.03%	10.95	12.82	0.00	0.00
Bobolink		High	G/A	0.27%	2.38	7.25	0.00	5.88
Brown Creeper		Moderate	MD/MF	0.34%	6.84	7.27	4.76	0.0
Canada Warbler	Moderate	Highest	MD/MF	0.64%	7.48	13.55	7.14	11.76
Chestnut-sided Warbler		High	SPP	0.71%	7.55	14.1	3.57	21.88
Chimney Swift	High	High	U/S	0.07%	4.75	1.83	0.00	2.94
Eastern Towhee	High		SPP	0.09%	21.77	11.36	22.62	47.06
Eastern Wood-pewee		High	MD/MF	0.96%	28.57	13.19	2.38	17.65
Eastern Kingbird	High		SPP	0.7%	8.88	8.12	5.95	28.13

Table J.1. Breeding Landbird Frequency (points detected/all points surveyed) by Division and Refuge Relative Abundance (number of individuals of a species/number of all individual birds) (continued).

Gray Catbird	Moderate		SPP	0.06%	31.5	18.38	3.57	37.5
Great crested Flycatcher	High		MD/MF	0.07%	23.88	14.1	23.81	12.5
Northern Flicker		Moderate	MD/MF	0.07%	2.72	4.27	11.9	9.38
Ovenbird		Moderate	MD/MF	0.37%	52.75	64.96	89.29	6.25
Pine Warbler	Moderate		MD/MF	0.15%	15.71	38.03	5.95	0.00
Prairie Warbler	Highest		SPP	0.01%	0.00	0.73	0.00	0.00
Purple Finch		High	MD/MF	0.09%	8.84	8.42	4.76	17.65
Scarlet Tanager	High		MD/MF	0.05%	21.09	11.36	21.43	12.50
Veery		High	MD/MF	0.09%	13.68	29.92	30.95	34.38
Willow Flycatcher	High		SPP	0.03%	0.0	3.85	0.0	6.25
Wood Thrush	Highest	Highest	MD/MF	0.10%	2.04	0.73	16.67	5.88

MM=maritime marshes B/D=beach/dune MD/MF=mature deciduous and mixed forest
SPP=early successional shrub/pitch pine barren G/A=grassland/agricultural U/S=urban/suburban
FW=freshwater wetland/river and lake