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APPENDIX A – Important Bird Areas Status Terms

1. **Potential:** a site that may meet IBA criteria. In addition to site name a potential site would also have geographic coordinates and key species that may meet criteria.

A list of potential sites is one of the first things an IBA Coordinator puts together when beginning the process of identifying sites at the state level.

2. **Nominated:** a site for which a nomination form has been completed (*i.e.*, bird population, landuse, threats, and other site information have been compiled).

Through the first technical committee meeting(s) the committee is expected to establish state level IBA criteria, agree to a nomination form and review a list of potential sites. Suitable potential sites should then be moved on for completion of a nomination form. Committee members are encouraged to work with the IBA Coordinator to see that a nomination form is completed for those sites that are most likely to meet IBA criteria. These nominations could be completed by the IBA Coordinator, members of the technical committee, the land manager(s) or owner(s) of the site or some other interested individual(s).

3. **Identified:** a site that has been reviewed by a state or national technical committee and has been recognized as meeting IBA criteria at either the state, continental or global level(s), depending on the committee's responsibility.

Identified sites have been selected based on the occurrence of birds at a site and therefore their value to birds and bird conservation. Bird population data is evaluated against criteria. Land ownership, threat status, or other potential politically motivating factors should not be the primary consideration at this stage. Sites should be evaluated based on the number of individuals of particular species occurring at the site and whether those numbers trigger the defined IBA criteria. Additionally habitat quality and the stability of that habitat may also be a factor, in conjunction with criteria, for identifying an IBA.

4. **Recognized:** a site that has been formally recognized as having been identified as an IBA.

Recognition of an IBA could occur through a public ceremony, press release, or some other mechanism that makes it widely known that this site is part of a global network of places recognized for their outstanding value to bird conservation. Recognition may in many cases mean that a landowner has been notified that their property has been identified as an IBA; however, recognition does not require landowner approval.

Recognized sites are available to the public for review (*i.e.*, available on the web, in analysis, in books, not hidden by either the state or national office).

5. **Pending:** a site that has been nominated and/or evaluated by a technical committee but is in need of additional information (*i.e.*, primarily in need of more bird population data but may also need additional habitat, threat, landuse data, etc.) before it can be adequately evaluated against IBA criteria.

6. **Rejected:** a site that has been nominated but was ultimately determined through a technical committee review process to not meet IBA criteria. This site could be nominated again if new information is obtained.

7. **Delisted:** a site that was previously an identified or recognized IBA but has been removed from one or both of those lists because of degradation to the site, change in bird populations, or some other reason that becomes clear through new information

8. **Merged:** a site that has been added to another IBA and is no longer considered an individual IBA. A merged site was previously listed as an individual Potential, Nominated, Identified or Recognized IBA, but is no longer a single IBA because the boundaries of the site have been included with those of another IBA. Data associated with IBAs that have been merged should now be included in the IBA the site was merged with.

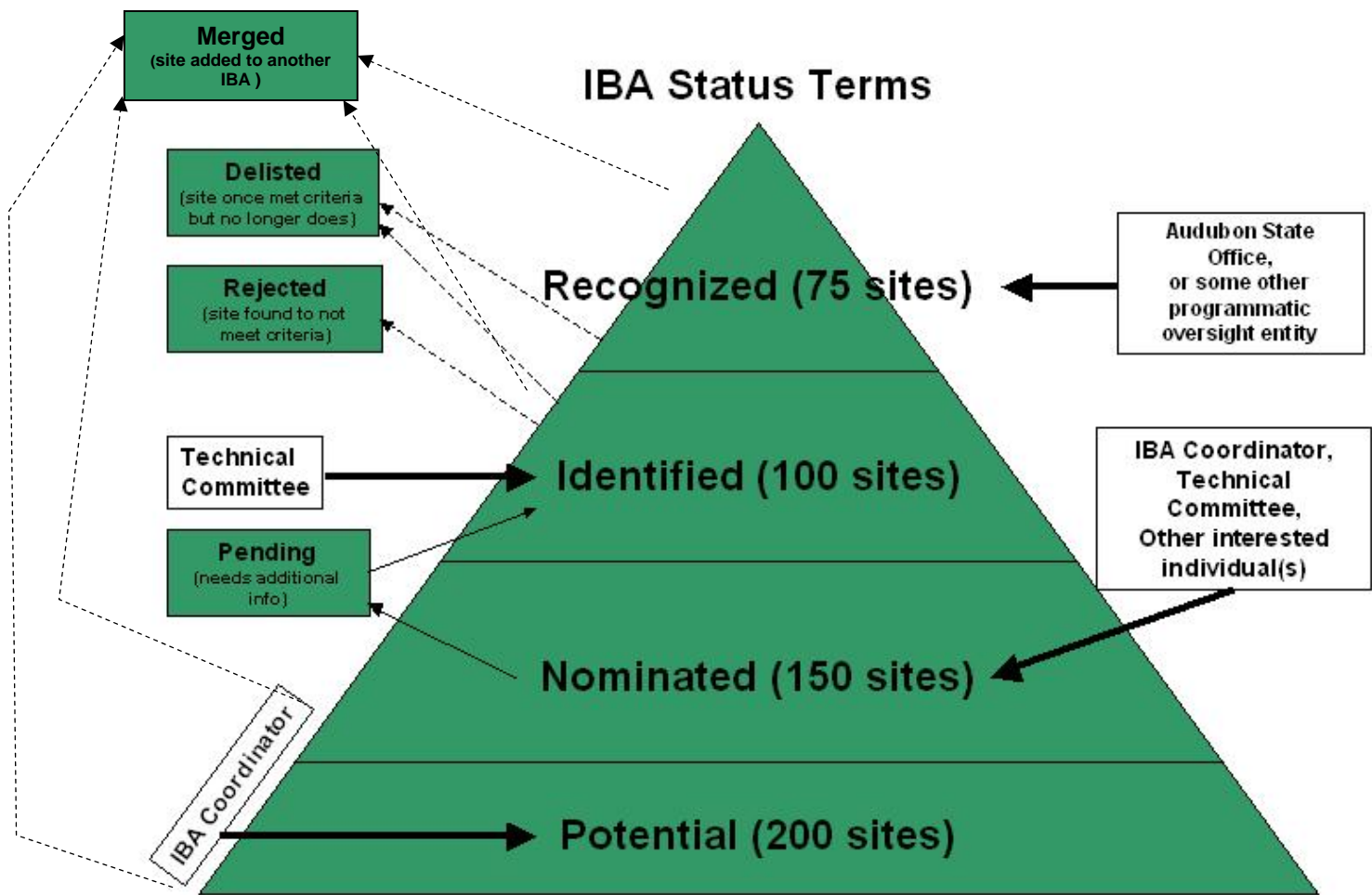


Figure 1. Potential, nominated, identified and recognized will occur in sequential order

APPENDIX B – IBA Database Field Descriptions

Table 1: Site Details Field list

FIELD NAME	DESCRIPTION
Site name	Formal Name of the area to be considered an IBA.
IBA code	For each state to use as internal coding. Identifier used to track IBAs, see glossary for more details.
Status	Selection of the following: Potential, Nominated, Identified, Recognized, Pending, Rejected, Delisted.
Make Site Public	As a default, each site is flagged as private. Coordinator can uncheck this to make details of the site available for query and reporting by the general public.
Central Coordinates*: Degrees/ Minutes/Seconds and Decimal Degrees	Two methods for recording Central Coordinators. Displayed and stored as a default as decimal degrees. When using D/M/S fill in all three boxes and click on calculate to save and store as Decimal Degrees.
Area (hectares)	To convert acres into hectares multiply by .4047
Area accuracy	lookup table: good, medium, poor (definitions of)
Elevation – minimum (meters)	to convert feet to meters multiply by .3048
Elevation – maximum (meters)	to convert feet to meters multiply by .3048
Elevation – average (meters)	Average the min and max values together and enter here.
Country	Will default to the country of the user based on security assignment.
State	Will default to the state of the user based on security assignment.
Zip/Postal code	Zip/Postal code that is associated with the site central coordinates above.
County	Can select one or more counties that apply.
Site Description, brief	Up to 2000-character description of the site, primarily for display on the public website, for the general public.
Site Description, expanded	Up to 5000-character description of the site, primarily for use in profile and technical committee reports.
Bird Conservation Regions (BCRs)	list of Bird Conservation Regions (BCRs) available for this state. For reference see map – http://www.nabci-us.org/map/html
EBAs	list of EBAs (Endemic Bird Areas). This field will only be displayed if any EBAs exist for your state.
Management plan	Check box if yes. Provide reference in Management Plan reference, see glossary for citation format.
Agreed boundary	Check box if yes.
Digitized boundary	Check box if yes.
Management Plan reference	Reference(s) for management plan.
Upload documentation now	In the future, will be able to upload copies of your management plan and digitized boundary. Feature not yet available.
Stewards	Link allows you to go to a separate page to select Stewards active at the site. Feature not completely implemented in version 1.
Nominators information	Standard contact information for up to two nominators of the site.

APPENDIX B – IBA Database Field Descriptions

Table 2: Species Data Field List

FIELD NAME	DESCRIPTION
Species Summary:	
Species Common Name/ # of Data Records	List of species inserted by the “add a species” link. Will display the list in alpha or taxonomic order. Also lists number of data records entered for those species.
Ornithological Significance, brief	Up to 2000-character description of the ornithological significance, primarily for display on the public website, for the general public.
Ornithological Significance, expanded	Up to 5000-character description of the ornithological significance, primarily for display on the public website, for the general public.
Add/Edit Species Record:	
Date	Day, Month and Year of observation; Year is required.
Seasonal/Daily Count Type*	Indicate whether this observation represents a one-time count versus a seasonal representation.
Occurrence status	Extirpated/probable, extirpated/yes, introduced, native, native/reintroduced, vagrant
Season Status	Breeding, non-breeding (during breeding season), non-breeding, passage, resident, unknown, unset. See glossary for details.
Units	Adults only, breeding pair, females only, individuals, males only, mature individuals, nests, unknown, unset.
Data Quality	Good, medium, not applicable, poor, unknown, unset.
Order of Magnitude	Numerical categories.
Relative Abundance	Abundant, common, frequent, present, rare, uncommon, unknown, unset.
Derivation	Estimated (directly), estimated (indirectly), inferred, observed, suspected, unknown, unset.
Number Observed	Numerical value.
Density/km2	Numerical value. Expresses as number per kilometer squared.
Sources	Citation for source of these data. 500-character limit. See section 3.3 of this manual for information to be included in citation.

Table 3: Species Criteria Field List

FIELD NAME	DESCRIPTION
Year of Observation	Link to the Year of the Species Population observation
Full list	Full list of all possible criteria categories
Proposed criteria	list of criteria that have been proposed for this one population record.
Confirmed criteria	list of criteria that have been confirmed for this one population record.

Table 4: Site Criteria Field List

FIELD NAME	DESCRIPTION
Year of assessment	Year in which site was reviewed and respective technical committee confirmed criteria.
Full List	Full list of all possible criteria categories.
Proposed criteria	list of criteria proposed for this IBA site.
Confirmed criteria	list of criteria for this IBA site.

Table 5: Site Ownership Attributes Field Lists

FIELD NAME	DESCRIPTION
Ownership type (level 1)	Lookup table (see excel file: IBA Site Attributes Table)
Ownership category (level 2)	Lookup table (see excel file: IBA Site Attributes Table)
Percent (%)	Percent of total site area under the selected ownership.
Ownership description, short	Up to 2000-character description of the ownership at this site, primarily for display on the public website, for the general public.
Ownership description, long	Up to 5000-character description of the ownership at this site for technical committee reports.

Table 6: Site Habitat Attributes Field Lists

FIELD NAME	DESCRIPTION
Habitat type (level 1)	Lookup table (see excel file: IBA Site Attributes Table)
Habitat category (level 2)	Lookup table (see excel file: IBA Site Attributes Table)
Habitat subcategory (level 3)	Lookup table (see excel table)
Percent (%)	Percent of total site area characterized by the selected habitat.
Habitat description, short	Up to 2000-character description of the Habitat at this site, primarily for display on the public website, for the general public.
Habitat description, long	Up to 5000-character description of the Habitat at this site for technical committee reports.

Table 7: Site Land Use Attributes Field Lists

FIELD NAME	DESCRIPTION
Land Use type (level 1)	Lookup table (see excel file: IBA Site Attributes Table)
Land Use category (level 2)	Lookup table (see excel file: IBA Site Attributes Table)
Percent (%)	Percent of total land usage at this site characterized by the selected land use.
Land Use description, short	Up to 2000-character description of the Land Use at this site, primarily for display on the public website, for the general public.
Land Use description, long	Up to 5000-character description of the Land Use at this site for technical committee reports.

Table 8: Site Threats Attributes Field Lists

FIELD NAME	DESCRIPTION
Threats type (level 1)	Lookup table (see excel file: IBA Site Attributes Table)
Threats category (level 2)	Lookup table (see excel file: IBA Site Attributes Table)
Level/Input level	Threat level 0-10, of associated categories. Refer to glossary for calculation.
Threats description, short	Up to 2000-character description of the Threats at this site, primarily for display on the public website, for the general public.
Threats description, long	Up to 5000-character description of the Threats at this site for technical committee reports.

Table 9: Monitoring Location field list

FIELD NAME	DESCRIPTION
Monitoring Location name	Formal Name of this monitoring location
Central Coordinates*: Degrees/ Minutes/Seconds and Decimal Degrees	Two methods for recording Central Coordinators. Displayed and stored as a default as decimal degrees. When using D/M/S fill in all three boxes and click on calculate to save and store as Decimal Degrees.
Make this monitoring location available to the public	Yes/No. By default, monitoring locations are flagged with "no". Click on "yes" if you wish to make this monitoring location available to view on future reports and monitoring applications.
County	Select the one county associated with the central coordinate above.
State	State of the monitoring location
Country	County of the monitoring location
Postal Code	Zip/Postal code associated with the central coordinate
Habitat at this site/Monitoring location Habitats	List of habitats that exist at this site (culled from work done on the habitats screen) and a box to indicate which of those exist at this specific monitoring location.
Directions	Driving directions to get to this monitoring location.

APPENDIX C – Waterbirds on Working Lands National Waterbird Species List not including Seabirds

	Common Name	Scientific Name
1	Black-bellied Whistling-Duck	<i>Dendrocygna autumnalis</i>
2	Fulvous Whistling-Duck	<i>Dendrocygna bicolor</i>
3	Greater White-fronted Goose	<i>Anser albifrons</i>
4	Emperor Goose	<i>Chen canagica</i>
5	Snow Goose	<i>Chen caerulescens</i>
6	Ross's Goose	<i>Chen rossii</i>
7	Canada Goose	<i>Branta canadensis</i>
8	Brant	<i>Branta bernicla</i>
9	Trumpeter Swan	<i>Cygnus buccinator</i>
10	Tundra Swan	<i>Cygnus columbianus</i>
11	Whooper Swan	<i>Cygnus cygnus</i>
12	Wood Duck	<i>Aix sponsa</i>
13	Gadwall	<i>Anas strepera</i>
14	American Wigeon	<i>Anas americana</i>
15	American Black Duck	<i>Anas rubripes</i>
16	Mallard	<i>Anas platyrhynchos</i>
17	Mottled Duck	<i>Anas fulvigula</i>
18	Blue-winged Teal	<i>Anas discors</i>
19	Cinnamon Teal	<i>Anas cyanoptera</i>
20	Northern Shoveler	<i>Anas clypeata</i>
21	Northern Pintail	<i>Anas acuta</i>
22	Green-winged Teal	<i>Anas crecca</i>
23	Canvasback	<i>Aythya valisineria</i>
24	Redhead	<i>Aythya americana</i>
25	Ring-necked Duck	<i>Aythya collaris</i>
26	Greater Scaup	<i>Aythya marila</i>
27	Lesser Scaup	<i>Aythya affinis</i>
28	Steller's Eider	<i>Polysticta stelleri</i>
29	Spectacled Eider	<i>Somateria fischeri</i>
30	King Eider	<i>Somateria spectabilis</i>
31	Common Eider	<i>Somateria mollissima</i>
32	Harlequin Duck	<i>Histrionicus histrionicus</i>
33	Surf Scoter	<i>Melanitta perspicillata</i>
34	White-winged Scoter	<i>Melanitta fusca</i>
35	Black Scoter	<i>Melanitta nigra</i>
36	Long-tailed Duck	<i>Clangula hyemalis</i>
37	Bufflehead	<i>Bucephala albeola</i>
38	Common Goldeneye	<i>Bucephala clangula</i>
39	Barrow's Goldeneye	<i>Bucephala islandica</i>
40	Hooded Merganser	<i>Lophodytes cucullatus</i>
41	Common Merganser	<i>Mergus merganser</i>
42	Red-breasted Merganser	<i>Mergus serrator</i>
43	Ruddy Duck	<i>Oxyura jamaicensis</i>
44	Red-throated Loon	<i>Gavia stellata</i>
45	Arctic Loon	<i>Gavia arctica</i>
46	Pacific Loon	<i>Gavia pacifica</i>
47	Common Loon	<i>Gavia immer</i>
48	Yellow-billed Loon	<i>Gavia adamsii</i>
49	Least Grebe	<i>Tachybaptus dominicus</i>
50	Pied-billed Grebe	<i>Podilymbus podiceps</i>
51	Horned Grebe	<i>Podiceps auritus</i>

52	Red-necked Grebe	<i>Podiceps grisegena</i>
53	Eared Grebe	<i>Podiceps nigricollis</i>
54	Western Grebe	<i>Aechmophorus occidentalis</i>
55	Clark's Grebe	<i>Aechmophorus clarkii</i>
56	American White Pelican	<i>Pelecanus erythrorhynchos</i>
57	Brown Pelican	<i>Pelecanus occidentalis</i>
58	Brandt's Cormorant	<i>Phalacrocorax penicillatus</i>
59	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>
60	Double-crested Cormorant	<i>Phalacrocorax auritus</i>
61	Great Cormorant	<i>Phalacrocorax carbo</i>
62	Red-faced Cormorant	<i>Phalacrocorax urile</i>
63	Pelagic Cormorant	<i>Phalacrocorax pelagicus</i>
64	Anhinga	<i>Anhinga anhinga</i>
65	American Bittern	<i>Botaurus lentiginosus</i>
66	Least Bittern	<i>Ixobrychus exilis</i>
67	Great Blue Heron	<i>Ardea herodias</i>
68	Great Egret	<i>Ardea alba</i>
69	Snowy Egret	<i>Egretta thula</i>
70	Little Blue Heron	<i>Egretta caerulea</i>
71	Tricolored Heron	<i>Egretta tricolor</i>
72	Reddish Egret	<i>Egretta rufescens</i>
73	Cattle Egret	<i>Bubulcus ibis</i>
74	Green Heron	<i>Butorides virescens</i>
75	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>
76	Yellow-crowned Night-Heron	<i>Nyctanassa violacea</i>
77	White Ibis	<i>Eudocimus albus</i>
78	Glossy Ibis	<i>Plegadis falcinellus</i>
79	White-faced Ibis	<i>Plegadis chihi</i>
80	Roseate Spoonbill	<i>Platalea ajaja</i>
81	Wood Stork	<i>Mycteria americana</i>
82	Osprey	<i>Pandion haliaetus</i>
83	Snail Kite	<i>Rostrhamus sociabilis</i>
84	Bald Eagle	<i>Haliaeetus leucocephalus</i>
85	Yellow Rail	<i>Coturnicops noveboracensis</i>
86	Black Rail	<i>Laterallus jamaicensis</i>
87	Clapper Rail	<i>Rallus longirostris</i>
88	King Rail	<i>Rallus elegans</i>
89	Virginia Rail	<i>Rallus limicola</i>
90	Sora	<i>Porzana carolina</i>
91	Purple Gallinule	<i>Porphyrio martinica</i>
92	Common Moorhen	<i>Gallinula chloropus</i>
93	American Coot	<i>Fulica americana</i>
94	Limpkin	<i>Aramus guarauna</i>
95	Sandhill Crane	<i>Grus canadensis</i>
96	Whooping Crane	<i>Grus americana</i>
97	Black-bellied Plover	<i>Pluvialis squatarola</i>
98	American Golden-Plover	<i>Pluvialis dominica</i>
99	Pacific Golden-Plover	<i>Pluvialis fulva</i>
100	Snowy Plover	<i>Charadrius alexandrinus</i>
101	Wilson's Plover	<i>Charadrius wilsonia</i>
102	Common Ringed Plover	<i>Charadrius hiaticula</i>
103	Semipalmated Plover	<i>Charadrius semipalmatus</i>
104	Piping Plover	<i>Charadrius melodus</i>
105	Killdeer	<i>Charadrius vociferus</i>

106	Mountain Plover	<i>Charadrius montanus</i>
107	American Oystercatcher	<i>Haematopus palliatus</i>
108	Black Oystercatcher	<i>Haematopus bachmani</i>
109	Black-necked Stilt	<i>Himantopus mexicanus</i>
110	American Avocet	<i>Recurvirostra americana</i>
111	Greater Yellowlegs	<i>Tringa melanoleuca</i>
112	Lesser Yellowlegs	<i>Tringa flavipes</i>
113	Wood Sandpiper	<i>Tringa glareola</i>
114	Solitary Sandpiper	<i>Tringa solitaria</i>
115	Willet	<i>Catoptrophorus semipalmatus</i>
116	Wandering Tattler	<i>Heteroscelus incanus</i>
117	Spotted Sandpiper	<i>Actitis macularia</i>
118	Upland Sandpiper	<i>Bartramia longicauda</i>
119	Eskimo Curlew	<i>Numenius borealis</i>
120	Whimbrel	<i>Numenius phaeopus</i>
121	Bristle-thighed Curlew	<i>Numenius tahitiensis</i>
122	Long-billed Curlew	<i>Numenius americanus</i>
123	Hudsonian Godwit	<i>Limosa haemastica</i>
124	Bar-tailed Godwit	<i>Limosa lapponica</i>
125	Marbled Godwit	<i>Limosa fedoa</i>
126	Ruddy Turnstone	<i>Arenaria interpres</i>
127	Black Turnstone	<i>Arenaria melanocephala</i>
128	Surfbird	<i>Aphriza virgata</i>
129	Red Knot	<i>Calidris canutus</i>
130	Sanderling	<i>Calidris alba</i>
131	Semipalmated Sandpiper	<i>Calidris pusilla</i>
132	Western Sandpiper	<i>Calidris mauri</i>
133	Least Sandpiper	<i>Calidris minutilla</i>
134	White-rumped Sandpiper	<i>Calidris fuscicollis</i>
135	Baird's Sandpiper	<i>Calidris bairdii</i>
136	Pectoral Sandpiper	<i>Calidris melanotos</i>
137	Purple Sandpiper	<i>Calidris maritima</i>
138	Rock Sandpiper	<i>Calidris ptilocnemis</i>
139	Dunlin	<i>Calidris alpina</i>
140	Stilt Sandpiper	<i>Calidris himantopus</i>
141	Buff-breasted Sandpiper	<i>Tryngites subruficollis</i>
142	Short-billed Dowitcher	<i>Limnodromus griseus</i>
143	Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>
144	Wilson's Snipe	<i>Gallinago delicata</i>
145	American Woodcock	<i>Scolopax minor</i>
146	Wilson's Phalarope	<i>Phalaropus tricolor</i>
147	Red-necked Phalarope	<i>Phalaropus lobatus</i>
148	Red Phalarope	<i>Phalaropus fulicarius</i>
149	Laughing Gull	<i>Larus atricilla</i>
150	Franklin's Gull	<i>Larus pipixcan</i>
151	Bonaparte's Gull	<i>Larus philadelphia</i>
152	Heermann's Gull	<i>Larus heermanni</i>
153	Mew Gull	<i>Larus canus</i>
154	Ring-billed Gull	<i>Larus delawarensis</i>
155	California Gull	<i>Larus californicus</i>
156	Herring Gull	<i>Larus argentatus</i>
157	Thayer's Gull	<i>Larus thayeri</i>
158	Iceland Gull	<i>Larus glaucoides</i>
159	Yellow-footed Gull	<i>Larus livens</i>

160	Western Gull	<i>Larus occidentalis</i>
161	Glaucous-winged Gull	<i>Larus glaucescens</i>
162	Glaucous Gull	<i>Larus hyperboreus</i>
163	Great Black-backed Gull	<i>Larus marinus</i>
164	Sabine's Gull	<i>Xema sabini</i>
165	Black-legged Kittiwake	<i>Rissa tridactyla</i>
166	Red-legged Kittiwake	<i>Rissa brevirostris</i>
167	Gull-billed Tern	<i>Sterna nilotica</i>
168	Caspian Tern	<i>Sterna caspia</i>
169	Royal Tern	<i>Sterna maxima</i>
170	Elegant Tern	<i>Sterna elegans</i>
171	Sandwich Tern	<i>Sterna sandvicensis</i>
172	Roseate Tern	<i>Sterna dougallii</i>
173	Common Tern	<i>Sterna hirundo</i>
174	Arctic Tern	<i>Sterna paradisaea</i>
175	Forster's Tern	<i>Sterna forsteri</i>
176	Least Tern	<i>Sterna antillarum</i>
177	Aleutian Tern	<i>Sterna aleutica</i>
178	Sooty Tern	<i>Sterna fuscata</i>
179	Black Tern	<i>Chlidonias niger</i>
180	Brown Noddy	<i>Anous stolidus</i>
181	Black Skimmer	<i>Rynchops niger</i>
182	White-crowned Pigeon	<i>Patagioenas leucocephala</i>
183	Mangrove Cuckoo	<i>Coccyzus minor</i>
184	Black Swift	<i>Cypseloides niger</i>
185	Ringed Kingfisher	<i>Ceryle torquata</i>
186	Belted Kingfisher	<i>Ceryle alcyon</i>
187	Green Kingfisher	<i>Chloroceryle americana</i>
188	Alder Flycatcher	<i>Empidonax alnorum</i>
189	Black Phoebe	<i>Sayornis nigricans</i>
190	Eastern Phoebe	<i>Sayornis phoebe</i>
191	Northwestern Crow	<i>Corvus caurinus</i>
192	Fish Crow	<i>Corvus ossifragus</i>
193	Purple Martin	<i>Progne subis</i>
194	Tree Swallow	<i>Tachycineta bicolor</i>
195	Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>
196	Bank Swallow	<i>Riparia riparia</i>
197	Sedge Wren	<i>Cistothorus platensis</i>
198	Marsh Wren	<i>Cistothorus palustris</i>
199	American Dipper	<i>Cinclus mexicanus</i>
200	White Wagtail	<i>Motacilla alba</i>
201	Palm Warbler	<i>Dendroica palmarum</i>
202	Prothonotary Warbler	<i>Protonotaria citrea</i>
203	Northern Waterthrush	<i>Seiurus noveboracensis</i>
204	Louisiana Waterthrush	<i>Seiurus motacilla</i>
205	Common Yellowthroat	<i>Geothlypis trichas</i>
206	Le Conte's Sparrow	<i>Ammodramus leconteii</i>
207	Nelson's Sharp-tailed Sparrow	<i>Ammodramus nelsoni</i>
208	Saltmarsh Sharp-tailed Sparrow	<i>Ammodramus caudacutus</i>
209	Seaside Sparrow	<i>Ammodramus maritimus</i>
210	Lincoln's Sparrow	<i>Melospiza lincolni</i>
211	Swamp Sparrow	<i>Melospiza georgiana</i>
212	Red-winged Blackbird	<i>Agelaius phoeniceus</i>
213	Tricolored Blackbird	<i>Agelaius tricolor</i>

214	Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>
215	Rusty Blackbird	<i>Euphagus carolinus</i>
216	Boat-tailed Grackle	<i>Quiscalus major</i>

APPENDIX D – Focal waterbird species list for Waterbirds on Working Lands Project.

Species	Group	BCRs:	11	18	19	22	23	24	26
Black-bellied Whistling-Duck	waterfowl				x				
Greater White-fronted Goose	waterfowl				x				x
Snow Goose	waterfowl			x	x	x		x	x
Ross's Goose	waterfowl			x	x				
Canada Goose	waterfowl		x	x	x	x	x	x	x
Trumpeter Swan	waterfowl		x		x		x		
Tundra Swan	waterfowl					x	x		
Wood Duck	waterfowl		x	x	x	x	x	x	x
Gadwall	waterfowl		x	x	x	x	x	x	x
American Wigeon	waterfowl		x	x	x	x	x	x	x
American Black Duck	waterfowl					x	x	x	x
Mallard	waterfowl		x	x	x	x	x	x	x
Mottled Duck	waterfowl							x	x
Blue-winged Teal	waterfowl		x	x	x	x	x	x	x
Cinnamon Teal	waterfowl		x	x	x				
Northern Shoveler	waterfowl		x	x	x	x	x	x	x
Northern Pintail	waterfowl		x	x	x			x	x
Green-winged Teal	waterfowl		x	x	x	x		x	x
Canvasback	waterfowl		x	x	x	x	x	x	x
Redhead	waterfowl		x	x	x	x	x		x
Ring-necked Duck	waterfowl		x	x	x	x	x	x	x
Greater Scaup	waterfowl				x	x	x	x	x
Lesser Scaup	waterfowl		x	x	x	x	x	x	x
White-winged Scoter	waterfowl		x						
Long-tailed Duck	waterfowl						x		
Bufflehead	waterfowl		x	x	x	x	x	x	x
Common Goldeneye	waterfowl		x	x	x	x	x	x	x
Hooded Merganser	waterfowl		x	x	x	x	x	x	x
Common Merganser	waterfowl		x	x	x	x	x		
Red-breasted Merganser	waterfowl					x	x		
Ruddy Duck	waterfowl		x	x	x	x		x	x
Common Loon	waterbird		x		x		x	x	x
Yellow-billed Loon	waterbird		x					x	
Pied-billed Grebe	waterbird		x	x	x	x	x	x	x
Horned Grebe	waterbird		x		x	x		x	x
Red-necked Grebe	waterbird		x						
Eared Grebe	waterbird		x	x	x				
Western Grebe	waterbird		x	x	x				
Clark's Grebe	waterbird		x	x					
American White Pelican	waterbird		x	x	x		x		x
Double-crested Cormorant	waterbird		x	x	x	x	x		x
Anhinga	waterbird								x
American Bittern	waterbird		x	x	x	x	x		x
Least Bittern	waterbird		x	x	x	x	x	x	x
Great Blue Heron	waterbird		x	x	x	x	x	x	x
Great Egret	waterbird				x	x	x	x	x
Snowy Egret	waterbird			x	x	x			x
Little Blue Heron	waterbird				x			x	x
Tricolored Heron	waterbird								x
Reddish Egret	waterbird								x
Cattle Egret	waterbird			x	x		x	x	x
Green Heron	waterbird			x	x	x	x	x	x
Black-crowned Night-Heron	waterbird		x	x	x	x	x	x	x
Yellow-crowned Night-Heron	waterbird		x		x		x	x	x
White Ibis	waterbird								x

Glossy Ibis	waterbird							X
White-faced Ibis	waterbird		X	X				
Roseate Spoonbill	waterbird							X
Wood Stork	waterbird							X
Yellow Rail	waterbird	X						X
Black Rail	waterbird			X	X	X		
King Rail	waterbird	X				X	X	X
Virginia Rail	waterbird	X	X	X	X	X	X	X
Sora	waterbird	X	X	X	X	X		X
Common Moorhen	waterbird	X		X	X		X	X
American Coot	waterbird	X	X	X	X	X	X	X
Sandhill Crane	waterbird	X	X	X		X		
Laughing Gull	waterbird							X
Franklin's Gull	waterbird	X		X				
Bonaparte's Gull	waterbird			X	X		X	X
Ring-billed Gull	waterbird	X	X	X	X	X	X	X
California Gull	waterbird	X	X	X				
Herring Gull	waterbird			X	X	X		X
Thayer's Gull	waterbird			X				
Caspian Tern	waterbird					X		X
Royal Tern	waterbird							X
Common Tern	waterbird	X				X		X
Forster's Tern	waterbird	X	X	X		X		X
Least Tern	waterbird	X	X	X	X		X	X
Black Tern	waterbird	X	X	X		X		
Black-bellied Plover	shorebird	X	X	X	X	X		X
American Golden Plover	shorebird	X	X	X	X	X		X
Snowy Plover	shorebird		X	X				X
Wilson's Plover	shorebird							X
Semipalmated Plover	shorebird	X	X	X	X	X		X
Piping Plover	shorebird	X	X	X	X	X		X
Killdeer	shorebird	X	X	X	X	X	X	X
Mountain Plover	shorebird	X	X	X				
American Oystercatcher	shorebird							X
Black-necked Stilt	shorebird		X	X				X
American Avocet	shorebird	X	X	X				X
Greater Yellowlegs	shorebird	X	X	X	X	X	X	X
Lesser Yellowlegs	shorebird	X	X	X	X	X	X	X
Solitary Sandpiper	shorebird	X	X	X	X	X		X
Willet	shorebird	X	X	X				X
Spotted Sandpiper	shorebird	X	X	X	X	X	X	X
Upland Sandpiper	shorebird	X	X	X	X	X	X	X
Eskimo Curlew	shorebird							X
Whimbrel	shorebird							X
Long-billed Curlew	shorebird	X	X	X				X
Hudsonian Godwit	shorebird	X	X	X	X	X		X
Marbled Godwit	shorebird	X			X			X
Ruddy Turnstone	shorebird	X			X	X		X
Sanderling	shorebird				X	X		X
Semipalmated Sandpiper	shorebird	X	X	X	X	X	X	X
Western Sandpiper	shorebird		X	X				X
Least Sandpiper	shorebird	X	X	X	X	X	X	X
White-rumped Sandpiper	shorebird	X	X	X	X	X		X
Baird's Sandpiper	shorebird	X	X	X	X	X		X
Pectoral Sandpiper	shorebird	X	X	X	X	X		X
Dunlin	shorebird	X			X	X		X
Stilt Sandpiper	shorebird	X	X	X	X	X		X
Buff-breasted Sandpiper	shorebird	X	X	X	X	X		X
Short-billed Dowitcher	shorebird	X			X	X		X
Long-billed Dowitcher	shorebird	X	X	X	X	X		X

Wilson's Snipe	shorebird	x	x	x	x	x	x	x
American Woodcock	shorebird	x		x	x	x	x	x
Wilson's Phalarope	shorebird	x	x	x	x	x		x
Red-necked Phalarope	shorebird	x						
Osprey	landbird		x		x	x	x	x
Bald Eagle	landbird	x	x	x	x	x	x	x
Belted Kingfisher	landbird	x	x	x	x	x	x	x
Alder Flycatcher	landbird	x				x		
Black Phoebe	landbird		x	x				
Eastern Phoebe	landbird	x	x	x	x	x	x	x
Fish Crow	landbird						x	x
Purple Martin	landbird	x		x	x	x	x	x
Tree Swallow	landbird	x	x	x	x	x	x	x
Northern Rough-winged Swallow	landbird	x	x	x	x	x	x	x
Bank Swallow	landbird	x	x	x	x	x	x	x
Sedge Wren	landbird	x			x	x	x	x
Marsh Wren	landbird	x	x	x	x	x	x	x
American Dipper	landbird		x					
Prothonotary Warbler	landbird				x		x	x
Northern Waterthrush	landbird	x						x
Louisiana Waterthrush	landbird				x	x	x	x
Common Yellowthroat	landbird	x	x	x	x	x	x	x
Le Conte's Sparrow	landbird	x		x		x	x	x
Nelson's Sharp-tailed Sparrow	landbird	x						
Seaside Sparrow	landbird							x
Lincoln's Sparrow	landbird		x	x				x
Swamp Sparrow	landbird	x		x	x	x	x	x
Red-winged Blackbird	landbird	x	x	x	x	x	x	x
Yellow-headed Blackbird	landbird	x	x	x		x		
Rusty Blackbird	landbird	x		x	x		x	x
Boat-tailed Grackle	landbird							x
Summary, by NABCI taxonomic groups:								
Total # Waterfowl sp.:	31	21	21	25	22	21	20	22
Total # Waterbird sp.:	49	29	23	33	19	24	19	37
Total # Shorebird sp.:	39	31	28	29	27	26	9	37
Total # Landbird sp.:	27	18	14	16	16	17	18	22
TOTAL # ALL SPECIES:	146	99	86	103	84	88	66	118