

Appendix 18a. Washington Seabird Colonies Ranking and Aggregation

This Appendix shows how ranks were developed in the nearshore marine analysis for specific seabird colony sites in Washington.

WA SEABIRD COLONY NAME	WA SEABIRD NAME (RANK)									TOTAL (# of birds)	RANK	VALUE*
	Forktail storm petrel	Leach's storm petrel	Double crested cormorant	Pelagic cormorant	Common murre	Pigeon guillemot	Cassin's auklet	Rhino auklet	Tufted puffin			
Agate Bay	0	0	0	0	0	117 (C)	0	0	0	117	C	500
Bare Island	0	0	0	100 (C)	0	0	0	0	4	104	C	500
Bird Rks	0	0	190 (C)	30 (D)	0	15	0	0	0	235	C	500
Cactus Island E	0	0	0	0	0	30 (D)	0	0	0	30	D	50
Castle Island	0	0	0	190 (C)	0	130 (C)	0	0	0	320	C	500
Colville Island	0	0	62 (D)	230 (C)	0	22	0	0	0	314	C	500
Dungeness Spit	0	0	0	0	0	45 (D)	0	0	0	45	D	50
Dungeness Wharf	0	0	0	44 (D)	0	0	0	0	0	44	D	50
Flattop Island	0	0	0	0	0	40 (D)	0	0	0	40	D	50
Hammersley Inlet E. Third	0	0	0	0	0	49 (D)	0	0	0	49	D	50
Killisut Harbor N. Bluff	0	0	0	0	0	33 (D)	0	0	0	33	D	50
Penn Cove N. Shore	0	0	0	0	0	50 (D)	0	0	0	50	D	50
Port Angeles	0	0	0	58 (D)	0	0	0	0	0	58	D	50
Port Townsend Tower	0	0	0	130 (C)	0	0	0	0	0	130	C	500
Port Williams	0	0	0	0	0	34 (D)	0	0	0	34	D	50
Protection Island	0	0	0	860 (A)	0	1300 (A)	0	34000 (A)	45 (D)	36205	A	1000
Puffin Island	0	0	0	0	0	280 (C)	0	0	0	280	C	500
Skipjack Island	0	0	0	112 (C)	0	14	0	0	0	126	C	500
Smith & Minor Islands	0	0	0	440 (A)	0	102 (C)	0	2588 (C)	8	3138	A	1000
Sucia Island Complex	0	0	0	0	0	620 (A)	0	0	0	620	A	1000
Unnamed Rk (Colville Annex)	0	0	60 (D)	0	0	2	0	0	0	62	D	50
Williamson Rks	0	0	146 (C)	62 (D)	0	26	0	0	0	234	C	500

***Site value scores based upon the following rules:**

1. Ranking cut-off at sites with less than 4000 occurrences
2. At least 10% of site hexagon, or more than 185.3 acres in mudflats (WA) or site basic records (BC).

Data sources:

Tabular data only

WA: WDFW mudflat dataset, as explained in chapter 4

Also in BC: Brant's cormorant; Gull spp.

Also in WA: Caspian terns; Arctic terns

Appendix 18b. Washington Shorebird Colonies Ranking and Aggregation

This Appendix shows how ranks were developed in the nearshore marine analysis for specific shorebird colony sites in Washington.

SHOREBIRDS	Port Susan	Skagit Bay	Padilla Bay	Samish Bay	Drayton Harbor	Dungeness Bay	Snohomish Delta	Sequim Bay	Totten Inlet	Crockett's Lake	Lummi Bay	Fidalgo Bay	Birch Bay	Chuckanut Bay	Bellingham Bay	Nisqually Delta
Black-bellied plover	x	x	x	x	x	x	x	x	x		x				x	
Long-billed dowicher		x														
Short-billed dowicher	x			x	x	x		x	x	x						
Snipe																
Red-necked phalarope																
Semi-palmated plover	x				x	x	x			x						
Killdeer	x	x	x			x			x		x					
Greater yellowlegs	x			x	x			x	x	x			x			x
Lesser yellowlegs	x															
Whimbrel			x	x	x	x										
Ruddy turnstone						x										
Black turnstone						x						x			x	
Surfbird																
Sanderling		x				x	x	x			x					
Western sandpiper	x	x	x	x	x	x	x	x	x	x	x		x		x	
Least sandpiper		x	x		x					x		x				
Dunlin	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
# of species	8	7	6	6	8	10	5	6	6	6	5	3	3	1	4	2
Total (# of birds)	131233	63234	44588	44192	22384	11242	9640	9634	9510	8561	8154	7685	5253	4663	4511	4094
Rank	A	A	A	A	A	C	C	C	C	C	A	C	C	C	C	C
Value*	1000	1000	1000	1000	1000	500	500	500	500	500	1000	500	500	500	500	500

*Site value scores based upon the following rules:

1. Ranking cut-off at sites with less than 4000 occurrences
2. At least 10% of site hexagon, or more than 185.3 acres in mudflats (WA) or site basic records (BC).

Data sources:

Tabular data only

WA: WDFW mudflat dataset, as explained in chapter 4

Appendix 18c. British Columbia Seabird and Shorebird Colony Aggregations

This Appendix shows how ranks were developed in the nearshore marine analysis for specific seabird and shorebird colonies in B.C.

COLONY NAME	BC SEABIRD, SHOREBIRD NAME (VALUE / RANK)										TOTAL (# of birds)	SUM VALUE*
	Loons	Marbled murrelet	Western grebe	Red-necked grebe	Brant	American Wigeon	Scaups	Scoters	Shorebirds	Harlequin duck		
Active Pass	14,000 (1000 / A)	300 (1000 / A)	0	0	0	0	0	0	0	0	14,300	2000
Baynes Sound Comox Harbor	5079 (1000 / A)	104 (1000 / A)	30,530 (1000 / A)	357 (1000 / A)	5291 (1000 / A)	2254 (1000 / A)	2265 (1000 / A)	6283 (1000 / A)	11,286 (1000 / A)	886 (1000 / A)	50,795	10000
Campbell River Estuary	515 (1000 / A)	242 (1000 / A)	9045 (1000 / A)	156 (1000 / A)	0	200 (500 / C)	incompl. (500 / C)	6127 (1000 / A)	151 (500 / C)	150 (500 / C)	16,235	7000
Cowichan Bay Macrosite	175 (500 / C)	0	450 (1000 / A)	382 (1000 / A)	0	502 (1000 / A)	382 (1000 / A)	0	incompl. (500 / C)	0	1389	5000
Fraser River Delta Macrosite	2130 (1000 / A)	2485 (1000 / A)	4421 (1000 / A)	2500 (1000 / A)	9883 (1000 / A)	218,859 (1000 / A)	16,756 (1000 / A)	9380 (1000 / A)	1,261,694 (1000 / A)	1000 (500 / C)	49,013	9500
Lambert Channel Hornby Island	0	0	0	0	0	incompl. (500 / C)	incompl. (1000 / A)	725 (1000 / A)	1200 (50 / D)	5775 (1000 / A)	6500	3550
Little Qualicum Estuary Nanoos	486 (1000 / A)	214 (500 / C)	13,300 (1000 / A)	50 (500 / C)	19,679 (1000 / A)	0	20,550 (1000 / A)	10,600 (1000 / A)	250 (500 / C)	908 (1000 / A)	65,787	7500
Sidney Channel Marine	0	incompl. (500 / C)	0	100 (500 / C)	1545 (1000 / A)	0	300 (1000 / A)	69 (1000 / A)	650 (500 / C)	50 (500 / C)	2064	5000

*Sum values are based on numbers of A, B, C, and D occurrences. In British Columbia colonies were ranked, rather than specific sites.

Data sources:

Tabular data only

BC: site basic record data

To evaluate shorebirds in BC, two criteria used: expert workshop held June 2001 and report by Cannings generated from site basic records.