The 112th Christmas Bird Count

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The Bewick's Wren (Thryomanes bewickii) is a species commonly encountered west of the Mississippi on Christmas Bird Counts, but one that has nearly disappeared from the East. CBC data helped document this unexplained decline. This wren was photographed this season in California. Photo/Bing Wong

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ON THE COVER: The 112th Christmas Bird Count had the promise of being a season with plenty of Snowy Owls (*Bubo scandiacus*) around, and the anticipation bore plentiful fruit as these magnificent birds moved southward in record number. The irruption was unusually widespread in geographic scope, but birders and CBC participants in Montana, where our cover subject was photographed, were treated to large numbers of Snowy Owls in that region. Photo/David Armer

The 112th Christmas Bird Count

December 14, 2011 to January 5, 2012 Geoffrey S. LeBaron

The anticipation has been building for weeks; the long-range weather forecast gets checked nearly daily. What unusual birds have been around as reported on the rare bird alerts and listserves? What about that huge snowstorm or cold snap back in October—how, if at all, will those have affected the birds that are around to be discovered in mid-December? These may be some of the thoughts that pass through the minds of birders who participate on the Christmas Bird Count. And each season all are rewarded in one way or another; it may be a fantastic bird turned up on the count, an all-too-infrequent day of catching up with old friends, or the satisfaction of braving less-than-ideal conditions and still successfully complete the count. Such has been the mind-set of conservation-minded birders December of 1900, and new horizons for the CBC program are still opening up.

The 112th Christmas Bird Count indeed was a snowy season—though not in terms of the depth and expanse of crystalline H2O, but instead in a rather remarkable geographic coverage of *Bubo scandiacus*, Snowy Owls. With reports of southbound Snowy Owls beginning in the end of October and high numbers recorded in November of 2011, it seemed that a big irruption was under way of these magnificent Arctic predators. And while the 112th CBC season did not

disappoint Snowy Owl watchers in many areas, there were other events of significant note as well.

Arguably the most notable feature of the 112th count was the weather— it was to prove to be one of the least snowy, or wintry, Christmas Bird Counts on record. From Atlantic Canada to coastal British Columbia, and from the Prairie Provinces to the Gulf Coast, compilers and regional editors alike remarked on the mild and open conditions. There was little snow cover or frozen water anywhere in the geographic area of CBC coverage, and in many regions where winter conditions are usually braved the weather on count day was downright balmy. Even more remarkable (and certainly a welcome break from the past couple of seasons), the weather conditions from coast to coast during the weekends of the 112th count period were nearly storm-free.

Furthermore, for the most part the fall leading up to the count period had also been very mild in general, according to the National Climatic Data Center maps online. Much of the United States had been in warmer than average or record warm conditions, although the Southeast was cooler than normal. For precipitation, the fall had been much wetter than normal in the Northeast, with continuing dry conditions over much of the west. All in all, the stage was set for a most interesting CBC.

Table 1. New counts in the 112th (2011–2012) Christmas Bird Count.

Count Count Name

Code

CANADA

ABBL Blood Reserve, Alberta

ABCR Crowsnest, Alberta

ABGR Garden River, Alberta

BCHM 100 Mile House, British Columbia

BCSN Slocan Lake, British Columbia

MBHO Hodgson, Manitoba

NSTR Truro, Nova Scotia

ONBD Blind River, Ontario

ONCK Cape Croker, Ontario

QCMM MRC des Moulins, Québec

QCQS Quyon-Shawville, Québec SKCW Chatsworth School District, Saskatchewan

SKFQ Fort Qu'Appelle, Saskatchewan SKLP Lac La Plonge, Saskatchewan YTCM Carmacks, Yukon Territory

UNITED STATES

AKCC Copper Center, Alaska ARMR Mississippi River S.P., Arkansas CAOK Oakhurst, California

CARP Mariposa, California
CATT Tall Trees, California
COFL Flagler, Colorado
COPS Pagosa Springs, Colo

COPS Pagosa Springs, Colorado HICL Lana'i: Lana'i City, Hawaii

IAWF Westfield, Iowa

ILEM Eastern Mercer County, Illinois ILMM Middle Mississippi River N.W.R., Illinois

INKC Knox County, Indiana
KSED El Dorado Lake, Kansas
LAWL White Lake, Louisiana
MECB Caribou, Maine

MNUP Uppgaard W.M.A., Minnesota

NDFY Fort Union-Yellowstone & Missouri

Rivers Confluence Area, North Dakota

NYHP Huyck Preserve, New York
NYUD Ulster-Dutchess, New York
PABZ Benezette, Pennsylvania
TATA Tamaqua, Pennsylvania
TNCN Cane Creek, Tennessee
TXLP Lost Pines, Texas

TXPI Pineywoods, Texas
UTPC Park City, Utah

WASW South End Whidbey, Washington

Winter sparrow identification can sometimes be a challenge, even when well-defined species are encountered. But in the big sparrow flocks in the west, occasionally even more unique birds are encountered—hybrids! This White-crowned Sparrow x Harris's Sparrow (Zonotrichia, hybrid), a new inclusion to the cumulative Christmas Bird Count list of taxa, was discovered, studied, and photographed at Pueblo Reservoir, Colorado. Photo/Brandon K. Percival

CARIBBEAN, LATIN AMERICA

CCLCH Chingaza P.N.N., Bogota, Colombia CLPN Planes de Neira, Caldas, Colombia

CUHP Hicacos Peninsula, Cuba

JMMO Mountainside, St. Elizabeth Parish,

Jamaica

MXPB Playa Blanca-Barra de Potosi,

Guerrero, Mexico

Table 2. Counts with 100 or more participants in the 112th (2011-2012) CBC.

Code	Count Name	# Observers	(Field + Feeder)
ABED	Edmonton, AB	457	(132 + 325)
ORPD	Portland, OR	331	(210 + 121)
MACO	Concord, MA	322	(208 + 114)
BCVI	Victoria, BC	249	(219 + 30)
ABCA	Calgary, AB	240	(123 + 117)
OREU	Eugene, OR	239	(140 + 99)
CAOA	Oakland, CA	220	(205 + 15)
CASB	Santa Barbara, CA	217	(214 + 3)
CAPR	Point Reyes Peninsula, CA	199	(199 + 0)
WASE	Seattle, WA	182	(181 + 1)
SCHH ABSA	Hilton Head Island, SC St. Albert, AB	169 168	(162 + 7) (44 + 124)
ECNM	Mindo-Tandayapa, Ecuador	160	(140 + 124)
AKAN	Anchorage, AK	150	(99 + 51)
SCSC	Sun City-Okatie, SC	149	(13 + 36)
WIMA	Madison, WI	149	(97 + 52)
VAFB	Fort Belvoir, VA	147	(139 + 8)
BCVA	Vancouver, BC	145	(140 + 5)
OHCF	Cuyahoga Falls, OH	145	(107 + 38)
CODE	Denver, CO	144	(123 + 21)
ILFB	Fermilab-Batavia, IL	144	(138 + 6)
NSHD	Halifax-Dartmouth, NS	142	(73 + 69)
DCDC	Washington, DC	141	(137 + 4)
NYIT	Ithaca, NY	138	(126 + 12)
ONLO	London, ON	137	(96 + 41)
NJLH	Lower Hudson, NJ-NY	135	(135 + 0)
WASD	Sequim-Dungeness, WA	135	(85 + 50)
ONTO	Toronto, ON	132	(132 + 0)
CAWS	Western Sonoma County, CA	130	(130 + 0)
NSWO	Wolfville, NS	128	(46 + 82)
UTBC	Bryce Canyon N.P., UT	128	(28 + 100)
CAMC CASZ	Marin County (southern), CA	127 125	(122 + 5)
CASE	Sonoma Valley, CA San Francisco, CA	123	(123 + 2) (123 + 0)
MANO	Northampton, MA	123	(115 + 8)
CAOC	Orange County (coastal), CA	122	(122 + 0)
ONOH	Ottawa-Gatineau, ON	122	(105 + 17)
CAPA	Palo Alto, CA	121	(121 + 0)
VACL	Central Loudon, VA	121	(117 + 4)
CASJ	San Jose, CA	120	(120 + 0)
FLSC	Sanibel-Captiva, FL	120	(120 + 0)
CASD	San Diego, CA	118	(118 + 0)
OHCI	Cincinnati, OH	118	(107 + 11)
TXAU	Austin, TX	116	(114 + 2)
COBO	Boulder, CO	114	(104 + 10)
CODV	Denver (urban), CO	114	(95 + 19)
AKFA	Fairbanks, AK	113	(85 + 28)
QCQU	Quebec, QC	113	(96 + 17)
BCGS	Galiano-North Saltspring, BC	109	(77 + 32)
CABE	Benicia, CA	109	(106 + 3)
NSKI CRLS	Kingston, NS La Selva, Lower Braulio Carillo N.P., Costa Rica	109 ı 105	(24 + 85) (105 + 0)
FLCO	Cocoa, FL	104	(66 + 38)
CTHA	Hartford, CT	103	(94 + 9)
BCPM	Pitt Meadows, BC	103	(95 + 7)
PACH	Chambersburg, PA	102	(71 + 31)
FLGA	Gainesville, FL	101	(100 + 1)
NYCR	Cortland, NY	101	(23 + 78)
ONHA	Hamilton, ON	101	(91 + 10)
CACR	Calero-Morgan Hill, CA	100	(100 + 0)
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The end result was another remarkable and record-setting season for the Christmas Bird Count. A new record total of 2248 CBCs are in the 112th season's database (up 88 from last year's one-year-wonder record high), including 410 in Canada, 1739 in the United States, and 99 counts in Latin America,

the Caribbean, and the Pacific Islands. Results such as these cannot be generated without the inclusion of a wealth of new circles, and the roster of the 46 new CBCs in the 112th Count (15 in Canada, 26 in the United States, and 5 in the Caribbean and Latin America) is listed in Table 1. Among the new circles are

two in the Caribbean that contribute results on islands long missing from the CBC—Cuba and Jamaica. We hope for many years of coverage (and perhaps more counts) from these fascinating and species-rich locations.

In addition to the new counts included this season, as was mentioned last year we always welcome the return of data from circles that have lapsed over time. Significant efforts have been made in Canada (many thanks to the efforts of Bird Studies Canada and all the Canadian CBC Regional Editors) as well as in Minnesota, Wisconsin, and other regions in recent seasons. This year we welcome back into the fold six re-started Christmas Bird Counts, and we will always look forward to hearing from compilers hoping to re-start other existing historical counts.

One focus of Audubon's bird conservation efforts is to use the lens of the four main migratory flyways that birds use during their movements across the Americas. The flyways view also helps connect conservation goals for species both north of the United States in Canada and to the south in the Caribbean and Latin America. Longterm Christmas Bird Count results are highly informative to staff and researchers working to preserve and protect species in the flyways, and the current breakdown of active CBCs in the United States as measured by this ruler is 568 CBCs in the Atlantic Flyway, 540 in the Mississippi Flyway, 451 in the Central Flyway, and 280 along the Pacific Flyway. Each season these numbers will likely increase as more and more CBCs are conducted, providing an ever more important data set for the protection of birds across the Americas.

Not surprisingly, given the number of CBCs and remarkably favorable weather, another new record level of participation is included in the 112th Christmas Bird Count—63,227 observers (54,262 in the field and 8965 at feeders) contributed their time and effort this season. That total is 603 higher than last year's record tally, swelled mostly by an increase in field participation, even though the number of feederwatchers slightly declined. This is not unexpected given the

Table 3. Counts with 150 or more species recorded in the 112th (2011–2012) CBC. Table 3a. Counts north of the United States-Mexican border.

Count Code	Rank	Count Name Matagorda County-Mad Island Marsh, TX Guadalupe River Delta-McFadden Ranch, TX San Diego, CA Santa Barbara, CA Orange County (coastal), CA Point Reyes Peninsula, CA Morro Bay, CA Moss Landing, CA	Species Recorded
IXGE	1234567891102335678991222455789912333555888812225578991233333333333334442255778991233333333333333333333333333333333333	Guadalupe River Delta-McFadden Ranch, TX	Species Recorded 244 224 225 216 211 206 201 200 199 198 198 198 195 195 186 183 182 181 181 180 179 178 176 175 173 171
CASD CASB CAOC	3 4 E	Santa Barbara, CA	215 215
CAPR	5	Orange County (coastal), CA	211
	<u>6</u>	Point Reyes Peninsula, CA	206
CAMR	/	Point Reyes Peninsula, CA Morro Bay, CA Moss Landing, CA Freeport, IX Crystal Springs, CA Oceanside-Vista-Carlsbad, CA San Bernard N.W.R., TX Rancho Santa Fe, CA Weslaco, IX Monterey Peninsula, CA Marin County (southern), CA Western Sorioma County, CA Corpus Christi (Flour Bluff), TX Bollvar Peninsula, TX Corpus Christi (Flour Bluff), TX Bollvar Peninsula, TX Corpus Christi, TX Thousand Oaks, CA Arcata, CA Oakland, CA Ventura, CA Benicia, CA Centerville Beach to King Salmon, CA Port Aransas, TX Hayward-Fremont, CA San Francisco, CA McClellanville, SC Long Beach-El Dorado, CA San Jose, CA Sabine N.W.R., LA Rockport, TX Santa Cruz County, CA West Pasco (New Port Richey), FL Anzalduas-Bentsen S.P., TX Año Nuevo, CA Palos Verdes Peninsula, CA Sonoma Valley, CA Galveston, TX Palo, Alto, CA	201
CAMD	8		200
TXFR	9	Freeport, TX Crystal Springs, CA	199
CACS	10		198
CAOV	10 12	Oceanside-Vista-Carlsbad, CA	198 196
TXSB CARS TXWS	13	Rancho Santa Fe, CA	195
CAIVIP	15	Monterey Peninsula, CA	190
CAMC	16	Warin County (Southern), CA	186
CAWS	17	Western Sonoma County, CA	185
IXCF	18	Corpus Christi (Flour Blúff), IX	184
TXBP	19	Bolivar Peninsula, TX	183
TXCC	19	Corpus Christi, TX	183
CATO	21	Thousand Oaks, CA	182
CAAR	<u>2</u> 2	Arcata, CA	181
CAOA		Oakland, CA	181
<u>CAVE</u>	24 25	Ventura, CA	180 170
CABE CACB	25	Centerville Beach to King Salmon, CA	179
TXPA	27	Port Aransas, IX	1 /8
CAHE	28	Hayward-Fremont, CA	177
CASF	29	San Francisco, CA	176
SCMC	29	McClellanville, SC	176
CALB	31	Long Beach-El Dorado, CA	175
CASJ	32	San Jose, CA	173
LASA	33	Sabine N.W.R., LA	172
TXRO		Rockport TX	172
CASC	35	Santa Cruz County, CA	171
FLNR TXAZ	35 35	Anzalduar Bentsen S.P., TX	1/1
CAAN	38	Palos Verdes Peninsula, CA	170
CAPP	38		170
CASZ	38	Sonoma Valley, CA	170
TXGA	41	Galveston, TX	169
CAPA	42	Palo Alto, CA	168
FLNP	42	North Pinellas, Fl	168
TXSA	42	Santa Ana N.W.R., TX Pasadena-San Gabriel Valley CA	168
CAPS	45		167
TXCK	45	Choke Canyon, TX	167
CALA TXBV	47	Palos Verdes Peninsula, CA Sonoma Valley, CA Galveston, TX Palo Alto, CA North Pinellas, FL Santa Ana N.W.R., TX Pasadena-San Gabriel Valley, CA Choke Carryon, TX Los Angeles, CA Brownsville, TX Zellwood-Mt. Dora, FL Cheep Thrills, CA Mailibu, CA Salton Sea (south), CA Lacassine N.W.RThornwell, LA Kingsville, TX Attwater Prairie Chicken N.W.R., TX Aransas N.W.R., TX Harlingen, TX Orange County (northeastern), CA Savannah, GA-SC Coos Bay, OR Santa Maria-Guadalupe, CA Sacramento, CA Wilmington, NC Alafia Banks, FL Cocoa, FL White Lake, Louisiana St. Petersburg, FL Morehead City, NC	170 169 168 168 167 167 166 165 164
FLZE	50	Zeliwood-Mit. Dora, FL	165
CACT	50	Cheep Thrills, CA	164
CAMU	50	Malibu, CA	164
CASS	50	Salton Sea (south), CA	
LALT	49000005555888882225555888882225555888882225555888882225555888882225555888888	Lacassine N.W.RThornwell, LA	164
TXKI		Kingsville, TX	164
TXAP	55	Attwater Prairie Chicken N.W.R., TX	163
TXAR	55	Aransas N.W.R. TX	163
TXHĠ CAON	55	Harlingen, TX Orange County (portheastern), CA	163
CASU	58 58	San Janah Capistrano, CA	162
ORCB	58 58	Coos Bay, OR	162
CASG	62	Santa Maria-Guadalupe, CA	160
CASM	62	Sacramento, CA	160
NCWI	62	Wilmington, NC	160
Flal	65	Alafia Banks, FL	159
FLCO LAWL	65 65	Cocoa, FL White Lake, Louisiana	164 1633 1632 1622 1622 1600 1600 1599 1598 1588
FLSP	68	St. Petersburg, FL	158
	68	Morehead City, NC	158
TXST	68 71	San Antonio, TX Southport Bald Head Oak Islands NC	158 157
TXAY	71 72	Armaniy Tros Bios A7	157
FLGA	73 73	Gainesville, FL	156 156
NCMC TXST NCSB TXAY AZPT FLGA FLSM MSSH SCHH TYB7	73 73	Southern Hancock County, MS	156 156
SCHH	73	Hilton Head Island, SC	156
<u>TXBZ</u>	73	Brazos Bend, TX	156
TXLA CAEA FLSR LASC TXBR TXLS FLJA	/3 80	Laguna Atascosa N.W.R., IX Eastern Alameda County, CA	156 155
FLSR	80	Sarasota, FL	155
LASC	80	Sweet Lake-Cameron Prairie N.W.R., LA	155
TXBR	80	Brazoria, TX	155
TXLS	80	La Sal Vieja, TX	155
FLJA	85 85	Jacksonville, FL	154
TXAU VACC CACC CAES FLLP	85	Cape Charles, VA	154
CAES	88	Escondido, CA	153 153
NCMA	68 711 73 773 773 773 773 880 880 885 888 888 990 995 995 995 995 995 995 995 995	Mattamuskeet N.W.R., NC	152 152
INJCIVI	90	Cape May, NJ	152
ORCV	90	Coguille Valley, OR	152
VACI	90	Chincoteague N.W.R., VA	152
ÇAÇN	95	Carpinteria, CA	151
CACU	95	Cac'huma, CA	151
FLAB	95	Aripeka-Bayport, Fl	151
TXSŘ	95	Sea Rim S.P., TX'	151
WASD	95	Seguim-Dungeness WA	151
ÄZPÄ	100 100	Patagonia, AZ Pio Cosumpos CA	150
NCMA NICM ORCV VACI CACU FLAB TXSR WASD AZPA CARC FLSB MDQC	100 100 100	St. Petersburg, Ft. Morehead City, NC San Antonio, IX Southport-Bald Head-Oak Islands, NC Armand Bayou, TX Phoenix-Ires Rios, AZ Gainesville, Ft. St. Marks, Ft. Southern Hancock County, MS Hilton Head Island, SC Brazos Bend, TX Laguna Atascosa N.W.R., TX Eastern Alameda County, CA Sarasota, Ft. Sweet Lake-Cameron Prairie N.W.R., LA Brazoria, TX La Sal Vieja, TX Jacksonville, Ft. Austin, TX Cape Charles, VA Contra Costa County, CA Escondido, CA Lake Placid, Ft. Mattamuskeet N.W.R., NC Cape May, NJ Coquille Valley, OR Chincoteague N.W.R., VA Carpinteria, CA Cachuma, CA Aripeka-Bayport, Ft. Sea Rim S.P., TX Sequim-Dungeness, WA Patagonia, AZ Rio Cosumnes, CA South Brevard County, Ft. Ocean City, MD Litchfield-Pawleys Island, SC	15877666666555555444457766666666666666666
SCLP	100	Litchfield-Pawleys Island, SC	150 150

spectacular counting conditions that would have enticed folks into the field. The regional breakdowns for the participation totals are as follows: in Canada, 12,019 observers (8635 in the field and 3384 at feeders): 49.158 birders (43.635) afield and 5523 at feeders) in the United States: and 2050 (1992 observers in the field and 58 at feeders) in the Caribbean, Latin America, and the Pacific Islands of Johnston Atoll, Guam, Saipan, and Tinian. From the boreal regions of Alaska and Canada to the Neotropics, compilers of many circles are blessed with an abundant wealth of observers to manage for their counts. Table 2 lists the 60 counts reaching or exceeding the 100-observer mark in the 112th CBC.

So that's a summary of the conditions, effort, and coverage—now what about the birds? As is invariably the case, millions upon millions of birds of thousands of species were tallied during the 112th count; 64,989,719 of our fine feathered friends in total. National and regional results by CBC observers included 3,943,480 birds in Canada, 60,502,185 in the United States, and 544,054 birds in other countries. Looking at the cumulative tallies of types of birds, 2298 species were reported on all circles combined, not surprisingly up considerably from other seasons given the new counts in Jamaica, Cuba, and Colombia, where endemism is incredibly high. In the United States, 666 species and 48 infraspecific forms (some of those potential future splits!) were tallied, including three new species to the cumulative 112-year CBC database: Gray-tailed Tattler and Millerbird, both from Laysan Island, Hawaii; and (unfortunately count week only) Dusky Thrush at Anchorage, Alaska. That pesky Dusky Thrush was a particular frustration for CBC participants in Anchorage; it had been present for weeks visiting a yard in Anchorage, and was seen both the day before and the day after the census, but could not be located on count day. In Canada, CBC participants tallied a new record total of 303 species, including one new species for the cumulative Canada list, the **Lazuli Bunting** discovered at Cape Sable Island, Nova Scotia. Counters there had an entirely different experience from those in Anchorage—please have a look at Dick Cannings' 112th Canada summary for the details!

Tens of thousands of birders in more than 2000 locations finding tens of millions of birds should come up with some pretty impressive count-specific species totals, and the 112th CBC was no exception to that rule. Table 3 lists all the counts this season tallying 150 species or more, and it's quite interesting to peruse the list in light of the weather conditions during the 112th count period. This season there are 104 counts in the U.S. and Canada on this list (up from 98 last season), and a considerable number of those tallies are higher than last year. While the number of counts in Latin America on the list is a similar roster to previous seasons, many of those species totals are actually much lower than before. Both factors can likely be attributed to the weather—amazingly favorable in the U.S. and Canada, but considerably more inclement in Latin America. Lousy weather negatively affects both the number of birders in the field and the detectability of birds, likely hence these contrasting numbers.

Topping the list of counts north of the Mexican border in Table 3, as has usually been the case for the past decades, is Madagorda County-Mad Island Marsh, Texas, with a species tally of 244, skirting again with the 250-species mark and their third highest tally since the start of the count in the 94th CBC. They have retained their top spot for the entire run of that count except for the 107th CBC, when Corpus Christi, Texas, prevailed. Other counts in both California and Texas knock on the door; who knows what future seasons will bring! One major exception to the rule of depressed species totals in Latin America during the 112th count, however, as also seen in Table 3 is Yanayacu, Ecuador, out-tallying their hard-working neighbors at Mindo-Tandayapa with 492 species, nearly breaking the 500-species barrier. Some of the same observers participate on both of these awesome Ecuadorian counts, and one can only wonder what future tallies will achieve! Many thanks

Table 3b. Counts with 150 or more species south of the United States-Mexican border.

Table 3b. Col	JIIIS WILII 130	of more species south of the officed states-wexical bord	Jei.
Count Code	Rank	Count Name Species Rec	
ECYY	1	Yanayacu, Ecuador	492
ECNM	2	Mindo-Tandayapa, Ecuador	432
CRPR	3	Pacific Rainforest Aerial Tram-Carara Reserve, Costa Rica	382
CRRF	4	Rain Forest Aerial Tram, Costa Rica	378
CRLS	5	La Selva, Lower Braulio Carillo N.P., Costa Rica	340
CRCF	6	Western Cloud Forest, Balsa, Costa Rica	331
RPPC	7	Pacific Canal Area, Panama	290
CRMO	8	Monteverde, Costa Rica	286
ECGA	9	Gareno, Napo, Ecuador	276
RPCC	10	Central Canal Area, Panama	262
CROP	11	Osa Peninsula, Puntarenas, Costa Rica	251
RPAC	11	Atlantic Canal Area, Panama	251
MXSB	13	San Blas, Nayarit, Mexico	249
GMAV	14	Atitlan Volcano, Guatemala	239
BLPG	15	Punta Gorda, Belize	231
ECLA	16	Loma Alta, Ecuador	209
NIRJ	17	Reserva el Jaguar, Jinotega, Nicaragua	196
BLGJ	18	Gallon Jug, Belize	183
TRTR	19	Trinidad, W.I.	177
RPVC	20	Volcan, Chiriqui, Panama	176
MXOJ	21	Oaxaca de Juarez, Oaxaca, Mexico	173
GMTK	22	Tikal, Guatemala	171
MXCZ	23	Coast of Central Veracruz, Mexico	168
MXAL	24	Alamos, Sonora, Mexico	167
MXHU	24	Huatulco, Oaxaca, Mexico	167
CLCO	26	Cordillera Occidental, Valle del Cauca, Colombia	160
CRCA	26	Cacao - Area de Conservacion Guancaste, Costa Rica	160
MXEG	28	El Yugo, Sinaloa, Mexico	157
CRSR	29	Santa Rosa - Area de Conservacion Guanacaste, Costa Rica	153
MXEP	29	Ensenada de La Paz, BCS, Mexico	153

and congratulations go to all participants on each and every CBC, whether your species total remains at one (for Prudhoe Bay, Alaska) or skirts with 500 in the Neotropics. Every person on every one of the 2248 counts included this season contributes valuable data, and no field checklists go unappreciated.

However, every year each group on every CBC competes with themselves as well as with their neighboring parties, and also of course with their neighboring counts. Table 4 displays the roster of regional high species tallies in the 112th Christmas Bird Count, with both species totals and the number of counts in the region listed.

So what about the aforementioned avian snow cover during the 112th Christmas Bird Count? Was it really all that big—and how did it compare to other "big" Snowy Owl seasons? While the total number of Snowy Owls reported in Canada and the United States this season (546) was the highest of any year since the 60th CBC, the additional measure (usually used in analyses of CBC data) is to look at the effort-weighted data, using the birds per party hour. By that measure, the 75th CBC, the first season of the historic big double invasion

event of Snowy Owls, has the highest number at 0.063 birds per party hour. In the 112th count, this yardstick shows 0.033 birds per party hour; thus almost two times as many Snowy Owls were likely to be encountered per hour by parties during the 75th count.

However, the most remarkable thing about the Snowy Owl irruption this season was its geographic expanse. While there were not many Snowies that reached record southern areas, from the Pacific Ocean to the Atlantic shores Snowy Owls were found in good numbers on 256 counts across southern Canada and the northern tier of states, far exceeding the number of counts tallying this species than ever before; the previous high was 513 birds on 193 counts in the 97th CBC. Perhaps most unique about this flight was the fact that it was a wide geographic swath across the Canada-United States border; most other irruptions include a significant push southward either in the east, central, or western parts of the continent. Numbers of Snowy Owls were somewhat higher to the west-Regina, Saskatchewan, had the greatest number at 45, followed by Ladner, British Columbia, at 37-but there were double-digit counts in

Table 4. Regional high coun Region	# of CBCs	Highest Count (species total
St. Pierre et Miquelon	2	Ile StPierre (45
Newfoundland .	11	St. John's (69
Nova Scotia	22	Halifax-Dartmouth (114
Prince Edward Island New Brunswick	3 16	East Point (52 Cape Tormentine (66
New Druitswick	10	Grand Manan Island (66
Duébec	36	Montréal (75
Ontario	112	Long Point (111
Manitoba 💮 💮	21	Winnipeg (46
Saskatchewan	35	Saskatoon (48
Alberta	41	Calgary (69
British Columbia	91	Ladner (140
lorthwest Territories	4	Victoria (140 Fort Simpson (18
lunavut	4	Arviat (4
anavat	т	Chesterfield Inlet (4
ukon Territory	12	Whitehorse (27
Alaska	38	Kodiak (78
Maine	32	Greater Portland (97
lew Hampshire	17	Coastal New Hampshire (117
ermont Assashusatts	18	Ferrisburg (81
Massachusetts Chode Island	33 4	Mid-Cape Cod (137 Newport County-Westport (127
onnecticut	16	New Haven (128
ew York	69	L.I.: Southern Nassau (133
ew Jersey	30	Cape May (152
ennsylvania	71	Southern Lancaster County (107
)elaware	7	Southern Lancaster County (107 Cape Henlopen-Prime Hook (146
Maryland	24	Ocean City (150
istrict of Columbia	1,	Washington (89
irginia Iorth Carolina	46	Cape Charles (154
orth Carolina outh Carolina	48 22	Wilmington (160 McClellanville (176
eorgia	26	Savannah, GA-SC (162
orida	68	West Pasco (New Port Richey) (171
hio	61	Toledo (108
lest Virginia	20	Ona` (7 <i>6</i>
entucký	16	Louisville (89
ennessee	30	Reelfoot Lake (111
lahama	9	Savannah (111
labama lississippi	9 17	Gulf Shores (138 Southern Hancock County (156
lichigan	64	Anchor Bay (9)
diana	42	Goose Pond (103
/isconsin	48	Madison (9:
inois	61	Union County (107
linnesota	48	Bloomington (68
owa .	31	Davenport (9)
lissouri	26	Columbia (103
rkansas puisiana	23 24	Holla Bend N.W.R. (119
orth Dakota	20	Sabine N.W.R. (172 Garrison Dam (66
outh Dakota	17	Pierre (85
ebraska	12	Lake McConaughy (103
ansas	23	Udall-Winfield (10
klahoma	18	Tishomingo N.W.R. (125
exas	109	Matagorda County-Mad Island Marsh (244
lontana	31	Bigfork (90
laho	26	Bruneau (9)
lyoming	20 47	Casper (6)
olorado ew Mexico	31	Pueblo Reservoir (12) Caballo (12)
tah	25	Salt Lake City (10
levada	15	Truckee Meadows (10:
rizona	33	Phoenix-Tres Rios (15)
Vashington	41	Sequim-Dungeness (151
)regon 🖱	42	Coos Bay (162
alifornia	127	San Diego (216
lawaii	14	Oʻahu: Honolulu (58
Pacific Islands Mexico	5 28	Saipan (47 San Blas, Navarit (249
/IEXIC()	78	San Rias Mayarif (2/1)

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Ontario, and high count or unusual species records from Nantucket Island, Massachusetts, through Iowa to Colorado. Snowy Owls, especially young birds, move southward in good numbers approximately every three to five years following the crash of small mammal populations in the Arctic, and this was a big year indeed. Will the 115th CBC be the next big irruption of Snowy Owls? Only the birds...and the lemmings...will be able to predict the answer to that question.

Another factor affecting birds on Christmas Bird Counts at a continental level is the ongoing and drastic drought in the Southwestern states, and especially in portions of Texas. Texas had the driest year on record in 2011, and New Mexico, Oklahoma, and Louisiana all had much below-average precipitation. Please read Brent Oretgo's Texas CBC regional summary for a more in-depth (and firsthand) view of this event. Productivity for many species in drought-stricken areas is likely very low, and birds that winter in these regions are showing up as vagrants in farflung portions of the continent, both on CBCs and at other times of years. Greentailed Towhees and Black-throated Sparrows are examples—each of these species has been tallied in regions where they would not normally occur in the past few CBCs. As the drought continues (though we hope it will not!) other southwestern wintering species may show up to the north and east in unexpected areas.

Of note continentally are three continuing long-term declines as documented on Christmas Bird Counts-Northern Bobwhite. American Kestrel, Loggerhead Shrike. Bobwhites across the board in their range are mentioned by birders, compilers, and regional editors as in decline, and this trend has been significant since the last relatively high season in the 83rd CBC. In some areas where this jaunty quail was formerly commonly found it is now only present as a result of introductions for hunting stock. Quail in general have been declining for some time, likely as a result of loss of fallow fields and shrub land needed for breeding. But the Northern Bobwhite seems to be the poster child for this unwelcome phenomenon.

San Blas, Nayarit (249)

196

160

Yanayacu (492

Trinidad (177

Les Cayes (72 Arecibo (121 Cabo Rojo (121

Bermuda (88)

Punta Górda

Atitlan Volcano

Pacific Canal Area

New Providence Island (121

Hicacos Peninsula (69

Puerto Escondido (81

Tortola (54) East End, St. Croix (65)

Reserva El Jaguar, Jinotega

Mountainside, St. Elizabeth Parish (52

Pacific Rainforest Aerial Tram-Cărara Reserve

Cordillera Occidental, Valle del Cauca

Mexico

Belize

Guatemala

Nicaragua Costa Rica

Panama

Ecuador

Trinidad

Cuba

Haiti

Bahamas

Jamaica

Puerto Rico

Bermuda

Dominican Republic

British Virgin Islands

U.S. Virgin Islands

Colombia



A great inclusion on the Helena, Montana, list (though only count week) was this Cape May Warbler (Setophaga tigrina), providing the state's first ever winter record. Photo/Terry & Shari Copenhaver

Meanwhile, American Kestrel has demonstrated a long, slow decline over the past 30 years. That decline seems to be flattening a bit, and in some regions even seems to be showing a rebound, but the overall trend is still negative. As with the kestrel, Loggerhead Shrike has been in trouble for decades, and while the numbers for this species on CBCs are still significantly depressed over historic times, again there is cause for hope as the trend has slightly reversed over the past three seasons. There have been similar up-ticks in the trend data for shrikes over the past 20 years, but if this slow increase continues it could be very good news for the predatory passerine species.

Another persistent pattern developing in Christmas Bird Count data is an increase in Northern Rough-winged Swallow reports and numbers, away from the southern regions of the continent. In years past, the only "expected" swallows to the north during the Christmas Bird Count period were Tree Swallow continentally and Violet-green Swallow on the West Coast. However, that may be changing. In the 112th CBC, Northern Rough-winged Swallows were reported (and documented) in small numbers in Connecticut, Tennessee, Indiana, and Illinois, and a flock of 150 was present at Pennypack Valley, Pennsylvania. They were also recorded away from their usual

haunts on many CBCs in Florida. This species is among the earliest of north-bound migrants in the spring; perhaps as winter temperatures moderate with a concurrent increase in availability of flying insects Northern Rough-winged Swallows will linger farther and farther north as well.

Important changes are coming for the Christmas Bird Count program. Audubon Science solicited your comments in an online survey earlier this year, and we thank the thousands of participants and compilers who responded. Your input helped Audubon to make two critical revisions under consideration for the CBC. Please take a look at the feature that begins on page 10, announcing these changes and summarizing the results of the online survey. In a nutshell, the participant fee for the CBC has been eliminated, and to financially enable this decision American Birds will no longer be mailed in printed form, and instead will be delivered in an online format.

Lots of interesting ideas were mentioned in the comment sections of the online survey, and one recurring theme that deserves mention here is the use of tapes, iPods, "pishing," and other attractant noises on Christmas Bird Counts. Such methods and devices are strictly forbidden on the Breeding Bird Survey, Breeding Bird Atlas, and other surveys of birds in the breeding season. However, because the CBC is monitoring birds in the non-breeding season (and most species are not singing, at least in North America) the use of tapes and attractant noises has always been allowed on the CBC. With the advent and proliferation of iPods and other hand-held devices that can readily play bird vocalizations and elicit responses from otherwise hidden birds, this use is reported to be on the rise.

The prohibition of the use of attractant noises on CBCs would be a relatively major programmatic decision that could quickly change the data collected by observers on many counts, and thus we need to continue their use at least for now. However, the use of such devices should be very judicious, and never done in a fashion that could affect the behavior of target species in any significant way. If

you use iPods or tapes on your CBC, please keep this in mind!

This is the 25th Christmas Bird Count I've had the honor of summarizing in these pages. Those years have spanned a lot of major changes in the CBC program. Early in my tenure the 87th CBC issue was the one-off and universally disliked "tabular" format, and participant fees were raised from three, to four, and then five dollars. On a hugely more positive note, the entire data set was made available in an interactive, free, online database, and an online data entry application was developed. The number of counts included in the 88th CBC (my first summary) was 1531, and 25 years later that number is 2248. With the advent of the free Christmas Bird Count starting in the upcoming 113th CBC and online delivery of American Birds, a whole new era of communication and conservation action lies ahead.

I've been doing Christmas Bird Counts since before I ever thought it could be possible to work for Audubon, and my traditional CBCs have been, and continue to be, the Newport-Westport and South Kingstown CBCs in Rhode Island. This past season we discovered some amazing avian changes on the Newport-Westport count, where over the past decades occasionally we hope to find one or two lingering Great Egrets. This season a guttural squawking caught our ears while we were combing the shores of Briggs Marsh; at first it sounded like a Sandhill Crane, but it just wasn't quite right. As we slowly rounded the corner of a cove, three, then five, then a dozen and eventually 21 Great Egrets were roosting in the trees—and equally amazingly, so was one Snowy Egret. This wasn't Florida, folks, but Rhode Island. It was a truly exciting moment in the field.

The global climate is changing, and the numbers and movements of birds are shifting in response. We can't be sure how this will all turn out in the long run, but we can be sure that citizen science programs as epitomized by the Christmas Bird Count will help understand what's happening and, as both birders and ornithologists are asked all the time, will continue to tell "So, how *are* the birds doing?"