



Results of Audubon's 107th Annual Christmas Bird Count

The Audubon Christmas Bird Count (CBC) is the oldest and largest citizen science event in the world. For over a hundred years, people have gathered together during the winter holiday season to count birds. Today, over 50,000 volunteers from all 50 states, every Canadian province, parts of Central and South America, Bermuda, the West Indies, and Pacific islands participate in the CBC each year. For many people, this is an annual tradition that has passed from one generation to the next. In the process, they have created a vast pool of data that is the most comprehensive available for mid-December to early January. It is a fertile source of information on the status and distribution of early winter bird populations and is studied by scientists and interested people the world over. This past winter, tens of

thousands of volunteer birders braved stormy conditions in the west, and counted in absurdly mild conditions in the east on their respective count days. Count results from 1900 to the present are available through National Audubon Society's website, www.audubon.org/bird/cbc.

Hawaii Audubon Society would like to sincerely thank Arlene Buchholz, Dave Bremer, Michele Ho'okano, Brenda Zaun, Jennifer Crummer, Arleone Dibben-Young, Eldridge Naboa, and Maile Melrose for volunteering to organize and lead this past winter's counts. Thanks also go out to all those who participated in the collection of this important data during this 63rd annual CBC for Hawai'i. Mahalo nui loa!

Main Hawaiian Islands 2006-2007 CBC Results

Species	Kaua'i		O'ahu		Moloka'i	Hawai'i	
	Kapa'a	Waimea	Honolulu	Waipi'o	Kualapu'u	N. Kona	Volcano
Laysan Albatross, Mōlī	163	2	1				
White-tailed Tropicbird, Koa'e kea	1		1		17		
Red-tailed Tropicbird, Koa'e 'ula					2		
Masked Booby, 'Ā			1				
Brown Booby, 'Ā	28	2	14		22		
Red-footed Booby, 'Ā	1712		267 LC				
Great Frigatebird, 'Iwa	23	1	39				
Cattle Egret	130	74	106	274	25		
Black-crowned Night-Heron, 'Auku'u	24	17	51	35	17	13	
White-faced Ibis				2			
Greater White-fronted Goose	2				1		
Snow Goose		1					
Canada Goose						1	
Hawaiian Goose, Nēnē	174					6	
Brant	1		1				
Bewick's Swan					2 US		
Mallard			46				
Hawaiian Duck, Koloa	205	20					
Hawaiian Duck X Mallard (hybrid)			112 HC	35			
Duck sp.						4	

	Kaua'i		O'ahu		Moloka'i	Hawai'i	
	Kapa'a	Waimea	Honolulu	Waipi'o	Kualapu'u	N. Kona	Volcano
Blue-winged Teal			1				
Northern Shoveler, Koloa mōhā	1		4	4		1	
Northern Pintail, Koloa māpu	44	2	2	22	19		
Green-winged Teal	1						
Lesser Scaup					26 HC		
Bufflehead		1					
Gray Francolin				26	3 LC		
Black Francolin		1			1 LC		
Erckel's Francolin		8		5		10	
Red Junglefowl	30	103			20		
Kalij Pheasant						3	2 LC
Ring-necked Pheasant	6	2			1		
Wild Turkey							11 HC
Hawaiian Moorhen, 'Alae 'ula	54	15	9				
Hawaiian Coot, 'Alae ke'oke'o	80	14	6	137	91	37	
Pacific Golden-Plover, Kōlea	169	26	682	418	116	10	3 LC
Hawaiian Stilt, Āe'o	183	24	168	139	76	55	
Lesser Yellowlegs					1		
Wandering Tattler, 'Ūlili	1	2	28	9	5	4	
Bristle-thighed Curlew, Kioea			3 HC				
Ruddy Turnstone, 'Akekeke	8	2	214	123	6	2	
Sanderling, Hunakai		5	7	28	2		
Dunlin				3			
Ring-billed Gull				2			

'Elepaio

ISSN 0013-6069

Managing Editor: Lydi Morgan

Scientific Editor: Ron Walker

The 'Elepaio is printed on recycled paper and published nine times per year: February, March, April, May, June/July, August/September, October, November, and December/January

850 Richards Street, Suite 505

Honolulu, HI 96813

Phone/Fax: (808) 528-1432

E-mail: hiaudsoc@pixi.com Website: www.hawaiiiaudubon.com

Pacific Fisheries Coalition (PFC) (a project of HAS)

Tel: (808) 548-FISH Website: www.pacfish.org

Board Roster:

Liz Kumabe, President

Ron Walker, Vice President

Wendy Johnson, 2nd Vice President

Carol Bebb, Director

Phil Bruner, Director

Arlene Buchholz, Director

Norma Bustos, Director

John Harrison, Director

Christine Volinski, Director

Staff:

Lydi Morgan, Office Manager

Linda Paul, Executive Director for Aquatics

Committee Chairs:

Conservation: Norma Bustos

Education: Wendy Johnson

Elepaio: Ron Walker

Field Trips: vacant

Fundraising: vacant

Grants & Scholarships: Phil Bruner

Membership: vacant

Program: Arlene Buchholz

Publications: Linda Paul

Website: Lydi Morgan

Species	Kaua'i		O'ahu		Moloka'i	Hawai'i	
	Kapa'a	Waimea	Honolulu	Waipi'o	Kualapu'u	N. Kona	Volcano
Caspian Tern			1				
Sooty Tern, 'Ewa'ewa			30				
Brown Noddy, Noio kōhā			3				
Black (Hawaiian) Noddy, Noio			8				
White Tern, Manu-o-Ku			28 HC				
Rock Dove		55	206	40			
Spotted Dove	60	140	536	506	58		
Zebra Dove	221	224	1195	1032	196	4	
Mourning Dove				9			
Rose-ringed Parakeet			11				
Red-crowned Parrot				29			
Sulphur-crested Cockatoo			4				
Barn Owl				1			
Short-eared (Hawaiian) Owl, Pueo		1				1	
Mariana Swiftlet			2				
Kaua'i 'Elepaio		39					
O'ahu 'Elepaio			4	5			
Hawai'i 'Elepaio						2	14 HC
Sky Lark					5	3	
Red-vented Bulbul			401	303			
Red-whiskered Bulbul			83	87			
Japanese Bush-Warbler	6	6		57	2		
White-rumped Shama	14	17	34	22			
'Ōma'o							20 HC
Hwamei	5	31					
Red-billed Leiothrix			68	33			1 LC
Japanese White-eye	101	208	266	264	6 LC	2	1 LC
Northern Mockingbird	2	2	1	5	2 LC		
Common Myna	309	236	861	943	117	114	1 LC
Saffron Finch			5	42		100	
Red-crested Cardinal	88	28	141	136	18		
Northern Cardinal	10	30	28	45	5 LC	3	1 LC
Western Meadowlark	2						
House Finch	7	74	191	246	16	14	2 LC
Yellow-fronted Canary			7				
Hawai'i 'Amakihi						153	9 LC
O'ahu 'Amakihi			28	26			

Species	Kaua'i		O'ahu		Moloka'i	Hawai'i	
	Kapa'a	Waimea	Honolulu	Waipi'o	Kualapu'u	N. Kona	Volcano
Kaua'i 'Amakihi		44					
'Anianiau		63					
'Akiapōlā'au							4 HC
'Akeke'e		1					
'I'iwi		10				6	
'Apapane		252	2	9		34	100 HC
House Sparrow	5	121	173	109	31		
Orange-cheeked Waxbill			1				
Common Waxbill			672	1727			
Red Avadavat			2	16		2	
African Silverbill		6			1		
Nutmeg Mannikin	477	44	70	76	51	25	
Chestnut Munia	56	124	8	247			
Java Sparrow	81		553	365			
Species	37	44	55	43	33	30	13
Participants	10	20	28	22	9	10	13
Party-Hours	15.5	13	56.75	47.25	12.5	32.5	4
Count Date	12/15/06	12/22/06	12/17/06	12/30/06	12/18/06	12/15/06	12/16/06
HC - High Count LC - Low Count US - Unusual Sighting							

French Frigate Shoals 2006-2007 CBC Results

Species	
Laysan Albatross, Mōlī	3899
Black-footed Albatross	5725
Masked Booby, 'Ā	425
Brown Booby, 'Ā	154
Red-footed Booby, 'Ā	2823
Great Frigatebird, 'Iwa	739
Lesser Frigatebird	1 US
Pacific Golden-Plover, Kōlea	98
Wandering Tattler, 'Ūlīlī	2
Ruddy Turnstone, 'Akekeke	584
Sanderling, Hunakai	2

Gray-backed Tern, Pākālakala	6
Sooty Tern, 'Ewa'ewa	4
Brown Noddy, Noio kōhā	238
Black (Hawaiian) Noddy, Noio	2444
White Tern, Manu-o-Ku	253
Short-eared (Hawaiian) Owl, Pueo	1 US

Species 17
Participants 7
Party-Hours 29
Count Date 12/16/2006

US - Unusual Sighting

Excerpts from the Journal of George C. Munro

December 1890 to August 1891

Contributed by Ron Walker

On December 13, 1890, George Campbell Munro arrived in Honolulu after a voyage aboard the steamship *Mariposa* which left Auckland, New Zealand on the 1st of December. He was to assist ornithologist, Henry C. Palmer in collecting birds in Hawai'i under the sponsorship of Lord Walter Rothschild for the museum collection in Tring, England. His small handwritten journal of 314 pages chronicling his ornithological and cultural experiences in Hawai'i was never published. Through the courtesy of the family of Richard C. Towill, the Hawaii Audubon Society was allowed to copy the journal and present it here in a series of excerpts in the *'Elepaio*. We acknowledge the assistance of Marti Steele, Steven Bunting, and Charlotte Walker in transcribing and editing the journal and Dr. Robert Pyle for coordinating the project with the Bishop Museum. Copies of the original journal and typed transcriptions are available at the Bishop Museum archives and the Hawaii Audubon Society office.

From 1935 to 1937, Munro started the first comprehensive survey of the birds of Hawai'i and in 1939 he helped found the "Honolulu Audubon Society" which eventually became the Hawaii Audubon Society.

Our series continues with this excerpt from the "Journal kept by George C. Munro while studying and collecting natural history specimens in the Sandwich Islands."

Part 3.

January 1st 1891 (Kaua'i)

"We have been out hunting all day about the spot I was yesterday, & between us got eleven specimens of I think seven species, as usual I contributed more misses than hits. The bush is grand for hunting in, having little or no underscrub, the trees are not large & stand well apart, the largest I saw would not be over two feet in diameter, we saw some turkeys & chickens

& brought home a turkey with us. We have two birds resembling robins (*elepaio*), being larger than the New Zealand tit they differ in color & one has big hard lumps on its toes, its color is rufous red and brown, the other light brown with lighter markings. One is a little greenish yellow bird (*anauanii*) with a sharp bill and brush at the end of its tongue, they were often in pairs collecting insects from the leaves & twigs, quick in their movements & difficult to get a shot at. We have two birds resembling the New Zealand thrush very quiet & slow in its movements. I saw one feeding on the seeds of a climbing palm resembling the *Tawhero* of New Zealand. Another bird we got the only one we saw about the size of the last with green on upper parts, its upper mandible is larger than lower and hooked, it seemed slow in its movements. We have three specimens of a dark bird with stubble head & neck & the lower part of Tibae yellow, a bill & tongue resembling a *tui*'s, I noticed one quick in its movements hunting among the loose bark near the top of a tree. And we got two of the scarlet honey eaters, their bodies are mostly scarlet with greenish yellow feathers dispersed in patches, more in some than in others, one we shot had more green than scarlet & others we saw did not seem to have any green, their beautiful rose-colored bill with its graceful curve give them a peculiar appearance, they are very lively & shy & only seem to stop to suck the honey from the flowers. I have seen them feed on nothing else, although one I opened last night seemed to have insect remains in his gizzard. We saw another little green bird but did not get a *amakihi* specimen. We saw a good many nests in the trees & two I got down resembled a sparrow's in structure, about six or eight inches in diameter from feathers in them I think they belong to the little finches (*ricebirds*) which are very numerous about here. On opening the turkeys crop shortly after he was killed I found among the grass and seeds, a living beetle & secured him as a specimen the first I've seen of the species."

HAS Program Meetings

Program Meetings are sponsored by HAS and the UH Biology Department, and are held at UH Mānoa's St. John lab building (Botany Building), in room 011 in the ground floor auditorium. The address is 3190 Maile Way. Attendance is free and open to the public.

June 18, Monday, 6:30 – 8:30 p.m.

A Climate for Change, with Hawai'i Sierra Club Director Jeff Mikulina

On average, each Hawai'i resident adds four pounds of greenhouse gases to the atmosphere every hour of every day. We now know that all those pounds are changing our climate. Scientists say that heat-trapping greenhouse gases contribute to stronger hurricanes, rising sea levels, hotter summers, and prolonged drought. With this new knowledge comes a moral obligation: aggressively reduce

our carbon emissions. Come learn about the science and impacts of climate change globally and in Hawai'i. "The Climate Project" presentation, based on the slide show featured in Al Gore's film "An Inconvenient Truth" has influenced public acceptance of the role of humankind in global climate change. Jeff Mikulina was trained by Gore earlier this year and has tailored his presentation to discuss Hawai'i's starring role – both impacts and opportunities – in this global issue.

August 27, Monday, 6:30 – 8:30 p.m.

Gus Bodner, UH Mānoa Graduate student in Zoology will speak on native Hawaiian birds and research studies at Hakalau National Wildlife Refuge and the Friends of Hakalau – a new non-profit organization that supports Hakalau.

HAS Field Trips

Contact the HAS Office at: (808) 528-1432, hiaudsoc@pixi.com

Saturday, June 16

Paikō Lagoon with Alice Roberts

8:00 a.m. – 10:00 a.m.

A lowtide meander as Alice talks about the many fascinating creatures visible along the shoreline. This is a wonderful treat of a field trip, and one that keiki will particularly enjoy! Wear old tennis shoes or reefwalkers, and bring binoculars, water, sunscreen, and a hat. Call Alice to register, (808) 864-8122.

Sunday, June 24

Honolulu Zoo with Wendy Johnson

9:30 a.m. – 11:30 a.m.

Join HAS for a special tour of the Honolulu Zoo's bird exhibits led by Linda Santos, Curator of Birds. Visit the bird propagation facilities, see native birds and amazing varieties of Birds of Paradise and other exotic birds and experience the walk-through aviary. This trip is limited to 15 participants. Please call the HAS office to register.

Saturday, July 21

Renewable Energy at Home

2:00 p.m. – 3:00 p.m.

Did you ever wonder what a fully sustainable home looks like? HAS Director John Harrison is offering an opportunity to see what's involved in making a Hawai'i home produce more electricity than it uses. He'll host this field trip at his Nu'uano house to describe the systems, operation, and the costs involved in making a carbon difference every day! Call the HAS office to register and receive directions.

Lyon Arboretum Outings

3860 Mānoa Road; www.dev.hawaii.edu/lyonarboretum

Guided Bird Walk

First Saturday of Every Month, 8:00 a.m.

Participants will tour the grounds in search of introduced birds, and then journey into the hills on a quest for the 'amakihi. Call (808) 988-0461 to register. Heavy rain will cancel. Suggested donation: \$10 per person.

Daily Guided Tours

Monday through Friday (except holidays), 10:00 a.m.

The tour focuses on plants within the arboretum, but includes bird sightings. Call (808) 988-0461 to register.

MAHALO

Hawaii Audubon Society would like to send a sincere MAHALO to Steven T. Zimmerman of Juneau, Alaska for his recent and generous contribution of \$500 to HAS. Mr. Zimmerman is a member of the Hawaii Audubon Society and serves on the Board of Directors for the National Audubon Society. He is chair of Audubon Alaska's advisory board and is the past president of the Juneau Audubon Society. He is the former assistant regional administrator for the National Marine Fisheries Service and the current vice chairman of the Juneau Wetlands Review Board. Mr. Zimmerman is the former Regional Director for Audubon's Alaska/Hawai'i/Guam region. Mr. Zimmerman's incredible commitment to Audubon and to our shared mission to conserve and restore natural ecosystems and wildlife here and abroad is exemplary, inspirational, and sincerely appreciated.

Membership in Hawaii Audubon Society

Hawaii Resident: newsletter via bulk mail	\$ 20.00	Foreign Membership (Airmail)	
Mainland Resident: via first class mail.....	\$26.00	Mexico.....	\$ 26.00
Junior Members (18 and under):.....	\$ 15.00	Canada.....	\$ 28.00
Supporting Member:	\$100.00	All other countries.....	\$ 33.00

*These are annual membership dues, valid January 1 through December 31.
Donations are tax deductible and gratefully accepted.*

Name _____

Address _____

City, State, Country, Zip _____

Phone _____ Email _____

Membership \$ _____ + Donation \$ _____ = Total \$ _____

New Membership Renewal

Please make checks payable to Hawaii Audubon Society and mail to us at 850 Richards St., #505, Honolulu, HI 96813.

PLEASE LET US KNOW IF YOUR ADDRESS CHANGES.

Waimea Valley Audubon Center Events

Call (808) 638-9199 to register;

visit <http://waimea.audubon.org> for updates

Summer Hike Series

ALL HIKES REQUIRE RESERVATIONS. Limited spaces; sign up early! Bring a snack, sunscreen, hat, sturdy shoes, insect repellent and plenty of water. Fee: \$3 plus admission, cash only.

Family Hike

Saturdays, June 9 and August 4

9:30 a.m. – 12:30 p.m.

Climb to the top of Kalāhe'e Ridge, following a switchback trail through a mixed forest of exotic and native plants. Bring a camera, the view from the top is breathtaking! Approximately 2 miles round trip, easy to moderate hike. For ages 7yrs. and up (must be accompanied by an adult).

North Valley Hike

Saturdays, June 16 and August 11

8:30 a.m. – 1:00 p.m.

Grab your hiking shoes and binoculars to discover Waimea's less frequented northern valley. We'll explore from the ridgeline to the valley floor, traversing native plant pockets and discovering the valley's birds along the way. Approximately 6 miles, moderate to strenuous, may involve shallow, slippery stream crossings. For ages 12 and up (must be accompanied by an adult).

South Ridge Loop Trail

Saturdays, July 7 and August 18

8:30 a.m. – 1:30 p.m.

For the experienced hiker, this **strenuous** hike connects the southern valley to the northern valley of Waimea. Enjoy stunning views of Ka'ena Point, Kaiwiko'ele Stream, and Waimea Falls. Approximately 6 miles, may involve slippery stream crossings and steep uphill climbs. For ages 12 and up (must be accompanied by an adult).

Kamananui Stream Trail

Saturdays, July 21 and August 25

8:30 a.m. – 1:30 p.m.

Join us on the most challenging trail at Waimea. Explore Kamananui Stream above Waimea Falls and you may see native o'opu, rare endemic aquatic moth pupa, and soaring white-tailed tropicbirds. Numerous stream crossings; prepare to get your feet wet. Approximately 6 miles, steep ascents. Trail recently reopened by Hawai'i Trail and Mountain Club. For ages 12 and up (must be accompanied by an adult).

Summer Break Day Camp

Waimea Exploration Team

Experience hiking, fishing, wildlife, Hawaiian culture, history, and nature art in Waimea Valley!

July 9, 10, 11, 12, 13 for ages 5 to 7 yrs.

July 16, 17, 18, 19, 20 for ages 8 to 10 yrs.

8 a.m. – 2 p.m.

Register per day; \$40 per day or \$30 per day for Annual Pass Holders. Sign up for 4 days and get the fifth day FREE. Call (808) 638-9199 to register.

Community Programs

RESERVATIONS REQUIRED FOR ALL PROGRAMS.

Ask the Archaeologist

1st and 3rd Saturday, Monthly starting June

10:00 a.m. – 12:00 p.m.

Curious about the past? Visit with Audubon's archaeologist and get a behind the scenes view of Waimea's past. Follow the signs or ask the ticket booth to direct you to the arboretum library, located next to the nursery on the map. Free with Admission.

Saturday, June 2

Native Hawaiian Plant Propagation

10:00 a.m. - 11:30

Learn to propagate plants from your own garden! This hands-on workshop is designed to help the average gardener utilize the same techniques used by professionals to grow quality plants from seeds and cuttings. End the day by taking home a native plant you've propagated. Participants are welcome to bring their own hand clippers. For adults. Program Fee: \$8 plus admission.

Saturday, June 23

Ke kani o nā mea ulu, The Sounds of Growing Things

10 a.m. – 12:00 p.m.

Bring the 'ohana to explore plants and the Hawaiian instruments they create. Join the valley's *Kūpuna* to discover through music the special relationship we have with plants. Learn the secrets of bamboo, coconuts, and more! All ages welcome. Program Fee: \$3 plus admission.

Saturday, July 14

4th Annual Mālama Waimea Volunteer

Community Work Day

9:00 a.m. – 12:00 p.m.

Bring your family and friends and spend a fun and rewarding morning caring for Waimea Valley, then join us for lunch! The community has been instrumental in controlling invasive species, caring for the cultural sites, maintaining the botanical collections, and welcoming our visitors. We'd like to say "Thank You" as we complete our fourth year caring for Waimea Valley. *Arrive at 9:00 a.m. and stay for lunch at noon. Bring gloves, closed toe shoes, your favorite tools, sunscreen, and dress to get dirty. Supervised children are welcome. RSVP by Saturday, July 7 to reserve a spot for lunch!*

Sunday, August 5

Plant Propagation 101: "Air layering"

10:00 a.m. – 11:30 a.m.

Discover the basics of propagation through air layering. Learn how to reproduce your favorite hibiscus, fruit trees and ornamentals. For adults. Program fee: \$6 plus admission.

Moonwalk

Fridays, June 29, July 27, August 24

7:30 p.m. – 9:30 p.m.

Take an evening stroll and experience the sights and sounds of Waimea Valley. Bring a flashlight, comfortable walking shoes, and a sense of adventure for this 1.5 mile walk. Ticket sales begin at 7:30 p.m. Be on time! Gates close promptly at 8:00 p.m. Adult \$5; Child (4-12 yrs) \$3.



HAWAII AUDUBON SOCIETY
850 RICHARDS STREET, SUITE 505
HONOLULU, HAWAII 96813-4709

www.hawaii-audubon.com
Phone/Fax: (808) 528-1432
hiaudsoc@pixi.com

Nonprofit Organization
U.S. Postage
PAID
Honolulu, Hawaii
Permit Number 1156

ADDRESS SERVICE REQUESTED

'ELEPAIO • 67:5 • JUNE/JULY 2007

Calendar of Events

Saturday, June 16

Paikō Lagoon with Alice Roberts

See page 38

Monday, June 18

Program Meeting: A Climate for Change

See page 37

Sunday, June 24

Honolulu Zoo with Wendy Johnson

See page 38

Saturday, July 21

Field Trip: Renewable Energy at Home

See page 38

Monday, August 27

Program Meeting: Hakalau NWR

See page 37

Waimea Valley Audubon Center Events

See page 39

Table of Contents

Results of Audubon's 107th Annual

Christmas Bird Count 33

Excerpts from the Journal of George C. Munro..... 37

HAS Program Meetings 37

HAS Field Trips 38

Lyon Arboretum Outings..... 38

Mahalo 38

Membership Application..... 38

Waimea Valley Audubon Center Events 39