## Table 5.58-- HAWAII AUDUBON SOCIETY BIRD COUNTS IN THE HONOLULU AREA, BY TYPE OF SPECIES: 2008 TO 2021

[Counts are made in late December of various locations between Hawaii Kai and Aiea, and between Waimanalo and Kaneohe. Annual changes reflect differences in numbers of bird counters and counting time in the field, as well as changes in bird populations. Totals by species are also affected by the types of habitats studied]

	Type of species				
Year	All species	Endemic	Indigenous	Alien	Visitor
2008	40	3	5	22	10
2009	51	5	11	28	7
2010	46	4	8	27	7
2011	60	5	9	33	13
2012	54	5	7	28	14
2013	50	5	9	27	9
2014	56	5	12	28	11
2015	51	5	8	27	11
2016	48	4	9	28	7
2017 2018	50 46	5 5	7 8	30 26	8 7
2019	1/ 55	7	o 5	36	7
2020	45	7	3	30	5
2021	2/ 52	7	5	25	15
	2, 02		Ü	20	10
	Number of individuals				
Year	All species	Endemic	Indigenous	Alien	Visitor
0000	4.440	400	550	0.507	777
2008 2009	4,110 6,963	193 149	553 656	2,587 5 102	777 1,056
2009	· ·			5,102	
	5 175 I	301	QAQ	2 574	790
	5,475 11.807	304 512	808 1 242	3,574 8 985	789 1 068
2011	11,807	512	1,242	8,985	1,068
2011 2012	11,807 9,600	512 403	1,242 837	8,985 7,458	1,068 902
2011 2012 2013	11,807 9,600 7,847	512 403 353	1,242 837 1,138	8,985 7,458 5,113	1,068
2011 2012	11,807 9,600 7,847 8,528	512 403	1,242 837	8,985 7,458	1,068 902 1,243
2011 2012 2013 2014	11,807 9,600 7,847	512 403 353 271	1,242 837 1,138 1,733	8,985 7,458 5,113 5,977	1,068 902 1,243 547
2011 2012 2013 2014 2015	11,807 9,600 7,847 8,528 7,314	512 403 353 271 302	1,242 837 1,138 1,733 1,860	8,985 7,458 5,113 5,977 4,640	1,068 902 1,243 547 512 525 618
2011 2012 2013 2014 2015 2016 2017 2018	11,807 9,600 7,847 8,528 7,314 10,406 10,583 9,037	512 403 353 271 302 240 374 437	1,242 837 1,138 1,733 1,860 2,381	8,985 7,458 5,113 5,977 4,640 7,260	1,068 902 1,243 547 512 525 618 810
2011 2012 2013 2014 2015 2016 2017 2018 2019	11,807 9,600 7,847 8,528 7,314 10,406 10,583 9,037 10,851	512 403 353 271 302 240 374 437 877	1,242 837 1,138 1,733 1,860 2,381 2,161 1,150 1,049	8,985 7,458 5,113 5,977 4,640 7,260 7,430 6,640 8,060	1,068 902 1,243 547 512 525 618 810 865
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	11,807 9,600 7,847 8,528 7,314 10,406 10,583 9,037 10,851 8,568	512 403 353 271 302 240 374 437 877 368	1,242 837 1,138 1,733 1,860 2,381 2,161 1,150 1,049 108	8,985 7,458 5,113 5,977 4,640 7,260 7,430 6,640 8,060 7,780	1,068 902 1,243 547 512 525 618 810 865 312
2011 2012 2013 2014 2015 2016 2017 2018 2019	11,807 9,600 7,847 8,528 7,314 10,406 10,583 9,037 10,851	512 403 353 271 302 240 374 437 877	1,242 837 1,138 1,733 1,860 2,381 2,161 1,150 1,049	8,985 7,458 5,113 5,977 4,640 7,260 7,430 6,640 8,060	1,068 902 1,243 547 512 525 618 810 865

Continued on next page.

## Table 5.58-- HAWAII AUDUBON SOCIETY BIRD COUNTS IN THE HONOLULU AREA, BY TYPE OF SPECIES: 2008 TO 2021 -- Con.

- 1/ Reported total was 53, but after summing total number of species it was found to be 55 individual species.
- 2/ Reported total was 51, but after summing total number of species it was found to be 52 individual species.

Source: Audubon's Christmas Bird Count <a href="http://netapp.audubon.org/CBCObservation/">http://netapp.audubon.org/CBCObservation/</a> accessed June 6, 2022; Robert L. Pyle, *Checklist of the Birds of Hawaii* <a href="http://www.hawaiiaudubon.com/checklist/">http://www.hawaiiaudubon.com/checklist/</a> checklist2002.pdf</a> accessed on June 22, 2010; Denis Lepage, *Avibase - Bird Checklists of the World* <a href="https://avibase.bsc-eoc.org/checklist.jsp?region=ushi&list=howardmoore">https://avibase.bsc-eoc.org/checklist.jsp?region=ushi&list=howardmoore</a> accessed on June 2, 2021; and calculations by the Department of Business, Economic Development & Tourism.