

Population trends and distribution of the Lesser Snow Goose *Anser caerulescens caerulescens* in Japan, based on 50 years of monitoring

Table S1. Number of Snow Geese recorded in each region during winters 2019/20–2023/24. Numbers in bold font were used to calculate the average number (mean ± s.d.).

Region	Winter season	Autumn					Winter					Spring						
		Sep		Oct		Nov	Dec		Jan		Feb		Mar		Apr		May	
		L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E
a. Sarobetsu/ Wakkanai	2019/20					1												
	2020/21	1				2	1											
	2021/22																	1
	2022/23																	285
	2023/24																	25
	Mean ± s.d.						1 ± 1						0				65 ± 124	
b. Okhotsk	2019/20																	
	2020/21							16	8									
	2021/22			1														
	2022/23																	
	2023/24			6														
	Mean ± s.d.						5 ± 7					0					70 ± 95	
c. Komsen Plateau	2019/20																	
	2020/21							16										
	2021/22			1														
	2022/23																	
	2023/24			1														
	Mean ± s.d.						4 ± 7					0					17 ± 29	

Table S1 (continued).

Region	Winter season	Autumn						Winter						Spring					
		Sep			Oct			Nov			Dec			Jan			Feb		
		L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M
d. Tokachi Plain	2019/20	1			372	1,096	1,126	205	103		88	14					8		
	2020/21		30	217	1,259	1,373	400	46		34	4			2	22	21	8		
	2021/22	60	562	810	748	236	13							31	31	4			
	2022/23	2	27	731	1,320	1,200	166												
	2023/24		427	1,214	1,162	1,340	15	27											
Mean ± s.d.						1,194 ± 235								36 ± 32					
e. Hidaka	2019/20										1						6		
	2020/21								21		32	32	49	56	73	74	49	49	45
	2021/22									20	20	21	183	117	127	154	168	149	50
	2022/23					2					50	89	53	60		77	75	75	75
	2023/24									15	61	89	37	37	60			58	
Mean ± s.d.						5 ± 9							92 ± 57					74 ± 56	
f. Ishikari River basin	2019/20																5		13
	2020/21																	13	41
	2021/22																	14	38
	2022/23																	83	20
	2023/24													0				7	80
Mean ± s.d.						0												51 ± 30	
g. Chitose River basin	2019/20							2	23	23	23	23	6	6	6	6		10	21
	2020/21							17	31	36	36	35	20	24			25	25	32
	2021/22		1	2	15				13	29	18	17	1					80	82
	2022/23		1	19	27	40	54			60	63	54						50	
	2023/24		1	3	32	30	80	50			49	49			60			4	76
Mean ± s.d.						46 ± 24								40 ± 21				57 ± 24	

Table S1 (continued).

Region	Winter season	Autumn						Winter						Spring					
		Sep			Oct			Nov			Dec			Jan			Feb		
		L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M
h. Tsugataru Plain	2019/20					100	19	19									370	1,050	31
	2020/21				2		403				338	324						385	566
	2021/22																	36	1,123
	2022/23				5	8	367				241							313	1,100
	2023/24				70	72		320									200		
	Mean ± s.d.				238 ± 178									230 ± 146					768 ± 486
i. Ogawahara Lake	2019/20										1	12							
	2020/21					9	140	150				1		1				1	9
	2021/22																86		
	2022/23													6	41	13	14		
	2023/24						80	16								2	1		
	Mean ± s.d.				46 ± 68								28 ± 36						2 ± 4
j. Hachiro-gata	2019/20		13	18	159	1,435	1,940				1,480	1,524	1,575	1,508	1,554		1,000	51	
	2020/21			3	50	840	1,480				978	1,532	1,520	1,380	934	1,200	2,020	2,032	1,300
	2021/22		2	12	722	1,080	1,221	1,200			1,194	1,216	1,232	296	379	124	250	78	132
	2022/23			14	680	900	1,481	1,520			1,517	1,432	1,536	200	883	969	527	160	726
	2023/24		1	5	340	1,500	1,947	1,711			1,777	1,500	100	1,300	850	460	800	1,360	68
	Mean ± s.d.				1,622 ± 315								1,630 ± 297						598 ± 589
k. Akita/Yurihonjo	2019/20																		
	2020/21													4	43	26	43	23	6
	2021/22																		
	2022/23													100	200	209	85		
	2023/24															200	1		
	Mean ± s.d.				0								90 ± 106						1 ± 3

Table S1 (continued).

Region	Winter season	Autumn			Winter						Spring					
		Oct		Nov		Dec		Jan		Feb		Mar		Apr		May
		L	E	M	L	E	M	L	E	M	L	E	M	L	E	
l. Kitakami River basin	2019/20								23	47					13	1
	2020/21					1									50	1
	2021/22							5							12	
	2022/23				1			4	14	59	109				50	1
	2023/24					2		18	22	29	67					
	Mean ± s.d.				0 ± 1					57 ± 35						0 ± 1
m. Sendai Plain	2019/20			1	10	9	30	28	6	9	31	6				
	2020/21			1	3	1	4	10	28	1	21	38	28	16	39	14
	2021/22			1	4		15	24	1	24	15	44	81	100	123	23
	2022/23			1	1	27	36	10	13	71	140	143	157	170	187	299
	2023/24			2	4	5	6	17	32	84	121	300	214	213	148	191
	Mean ± s.d.			26 ± 10					158 ± 134							7 ± 5
n. Asahi-ike/ Niigata Plain	2019/20			1	1			1	1	1	23	1	1			
	2020/21							1	1	1	12	6	1			
	2021/22									338	524	363	424	45	186	
	2022/23				1					6	200	247	102	314	350	230
	2023/24				1			1		724	800	780	756	512	23	1
	Mean ± s.d.			1 ± 1						342 ± 337						0
Others	2019/20									1	1	1	1	1		
	2020/21								1	1	1	1	1			1
	2021/22			1			5	1								
	2022/23															
	2023/24				1				1		1					
	Mean ± s.d.			1 ± 2							1 ± 1					0