

**Table 1.** The list of birds of High-mountain Daghestan indicating their residence status, habitat (bird community) and average abundance of species.

Notes: Residence status: R– sedentary and sedentary-nomadic; B– nesting migrants; PB– supposedly nesting migrants; P– transit; I– accidental or rare visitors. Bird communities (bird species): 1– of forests; 2– of subalpine meadows; 3– of agrolandscapes (fields, orchards, vegetable gardens); 4– of cliffs and rock outcrops; 5– synanthropic and conventionally synanthropic; 6– of tree-shrub vegetation; 7–of alpine meadows; 8– hoverers; 9– subnival-nival; 10– waterbirds; 11– airborne birds.

#	Species	Status	Bird communities	Average species abundance (ind./km <sup>2</sup> ) in key sites												
				Verkhnee Gakvari	Kosob	Takhota	Salda	Gornob	Gochob	Urukhsota	Tlyarosh	Moshob	Karanub	Rutul	Dzhaba	Kurush
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	<i>Pernisapivorus</i> L.	P B	1, 8	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Accipiter gentiles</i> L.	R	1, 5, 8	0.6	0.8	0	0	1	0	0	0.8	3.3	1.3	1.3	0	0
3	<i>Accipter nisus</i> L.	R	1, 5, 8	2	0.8	0	1.4	1	1	0.7	0.9	4.2	1.9	0.6	0	0.3
4	<i>Buteorufinus</i> Cretzs.	B	1, 4, 8	0.4	0	1.4	4.3	0	0	0	1.1	0	0.7	0	0	0
5	<i>Buteobuteo</i> L.	R	1, 3, 8	0	0	0	3.1	1	0	0.6	1.2	2.6	3.8	0.2	0	0.2
6	<i>Aquila chrysaetos</i> L.	R	4, 7, 8	0.2	0.3	0.3	0.1	0.7	0.2	0	0.4	0.1	0	0.3	0	0
7	<i>Gypaetus barbatus</i> L.	R	2, 4, 7, 8	1.4	1.6	1.5	0	3.3	1.2	0.5	0.7	0.1	1	0	2	0.2
8	<i>Aegypiusmonachus</i> L.	R	1, 2, 4, 8	0	3.1	0.3	0	0	0	0.2	0.9	0	0.2	0	0	0
9	<i>Gyps fulvus</i> Hab.	R	2, 4, 8	0.1	2.5	0	0	4.4	1.9	0.3	3.9	0.1	0.9	0.1	0	0
10	<i>Falco cherrug</i> Gray	B	1, 2, 4, 8	0.8	0	0	0	1	0	0	0	0	0	0	0	0.3
11	<i>Falco subbuteo</i> L.	B	3, 2, 5, 8	0	0	0	0	0	0	0	0.4	0	0	1.2	0	0
12	<i>Falco columbarius</i> L.	P	2, 6, 8	0	0	0	0	0	0	0	3.3	0	0	0	0	0
13	<i>Falco tinnunculus</i> L.	R	2, 3, 4, 8	0	0.9	0	0	1.2	1.7	0	1.4	0	0.7	0	13.3	1.4
14	<i>Lyrurus mlokosiewiczi</i> Tacz.	R	2, 6, 7	3.5	0	0	3.5	0.6	0	0	4.5	0	0.8	0	0	0
15	<i>Tetraogallus caucasicus</i> Pall.	R	7, 9	0.8	7.3	2.2	4.2	0	0	0	5	0	0	0	0	1
16	<i>Alectorischukar</i> Gray	R	2, 4, 6	0	5	0	0	2	0	0	0	20	0	0	13.3	0
17	<i>Perdix perdix</i> L.	R	2, 3	0	0	0	0	1	0	0	0	20	0.6	16.7	17.0	0
18	<i>Coturnix coturnix</i> L.	B	2, 3	0	2.5	6.7	0	1.2	0	0	0.3	0	0	0	0	0.8
19	<i>Crex crex</i> L.	I	2, 10	0	0	0	1.4	0	0	0	0	0	0	0	0	0
20	<i>Tringa ochropus</i> L.	P	10	0	0	0	1.4	0	0	0	0	0	0	0	0	0
21	<i>Actitis hypoleucos</i> L.	B	10	0	0	0	2.5	0	0	0	33.3	0	0	0	0	0
22	<i>Scolopax rusticola</i> L.	P	1	0.5	0	0	0	2	0	0	0	0	0	0	0	0
23	<i>Columba palumbus</i> L.	B	1	0	0.8	2.2	0	0.6	0	0	2.2	0	0	0	0	0

24	<i>Columba livia</i> Gmel.	R	3, 5	8.8	0	23.3	14	45.6	26.7	14.8	10.6	48	29.7	6.7	6.7	5.9
25	<i>Streptopelia</i> turtur L.	P B	1	0.1	0	0	0	0	0	0	0	0	0	0	0	0
26	<i>Cuculus</i> canorus L.	B	1, 6	2.4	0	0	3.2	0	0	0	0	0	0	0	0	2.9
27	<i>Bubo</i> <i>bubo</i> L.	R	1, 4	0.2	0	0	0	0	0	0.5	0	0	0	0	0	0
28	<i>Asio</i> otusL.	R	1	0	0	0	0	0	0	0	1.3	0	0	0	0	0
29	<i>Otus</i> scoopsL.	B	1	0	0	0	0	0	0	0	0.7	0	0	0	0	0
30	<i>Aegolius</i> funereus L.	P B	1	0	0	0	0	1	0	0	1.3	0	0	0	0	0
31	<i>Athena</i> noctuaScop.	R	5	0	0	0	0	0	1.7	1.8	0.7	3.3	0.6	0	6.7	0
32	<i>Apus</i> <i>apus</i> L.	B	4, 5, 11	0	0.5	0	0	0	0	0.6	0.4	0	0	0	0	12.8
33	<i>Apus</i> <i>melba</i> L.	B	4, 11	0.8	5.3	0	0	0	0	0	1.8	0.1	0	0	0	11.5
34	<i>Merops</i> sapiasterL.	P	2, 11	0.1	0	0	0	0	0.5	0.8	0.8	6.1	2.8	0	0	3.9
35	<i>Upupa</i> epopsL.	B	2, 3, 5	0	2	0	0	0	2.8	0	1.5	1.7	0	0	0	2.7
36	<i>Picus</i> viridis L.	R	1, 3, 6	1.7	6.8	1.7	0	0	1.6	0	2	2.2	3.8	4	0	0
37	<i>Dryocopus</i> martiusL.	R	1	0	1.3	0	0	0	0	0	0.3	0	1.3	0	0	0
38	<i>Dendrocopus</i> <i>major</i> Blyth	R	1, 3, 6	2	2	0	0	1	0	0	3.1	2.2	2.8	0	0	0
39	<i>Ptyonop</i> rongerupestrisScop.	B	4, 11	1.5	9.2	7.8	15.8	0	7.4	9.3	2.9	7.8	5.7	0	0	0
40	<i>Hirundo</i> rusticaL.	B	5, 11	0	0	0	0	0	0	0	0	0	0	0	0	2
41	<i>Delichon</i> urbicaL.	B	2,4,5,11	8.2	8.6	6.5	24	0	2.8	0	7.4	32	4.9	0	0	0
42	<i>Galerid</i> acristata L.	I	5	0	0	0	0	0	0	0	1.7	0	0	0	0	0
43	<i>Eremophila</i> alpestris L.	R	2, 7	0	0	0	0	0	0	0	3.5	0	0	0	0	0
44	<i>Lullula</i> arboreaL.	B	2, 6	0	0	0	1.4	0	0	0	1.4	0	0	0	0	0
45	<i>Alauda</i> arvensisL.	B	2, 3	0	0	0	0	2	0	0	10	0	0	0	19.3	14.2
46	<i>Anthus</i> trivialisL.	B	1, 2, 6	2	0	0	0	2.1	13	3.3	2.3	41.8	18.4	3.7	0	6.7
47	<i>Anthus</i> pratensis L.	P	2, 3	0	0	0	0	0	3	0	6.1	9.1	6.8	2.7	0	0
48	<i>Anthus</i> spinolettaL.	B	2, 4, 7	8.8	0	0	0	1	2.2	0	1.6	0	0	0	0	4.4
49	<i>Motacilla</i> cinereaTu ns.	B	5, 10	5	7.5	11.7	16.8	3.1	2.2	18	4.9	3.3	11.1	0	0	1.3
50	<i>Motacilla</i> <i>alba</i> L.	B	5, 10	25.9	0	16.7	7	5.5	3.5	2.6	6.9	6.7	1.9	2.5	0	9.3
51	<i>Lanius</i> collurioL.	B	2, 3, 6	17.3	0	8.1	11.8	0	44.8	23.6	9.4	6.9	23	0	0	2.5
52	<i>Oriolus</i> oriolusL.	I	1	0	0	0	0	0	0	0	1.5	0	0	0	0	0
53	<i>Sturnus</i> <i>vulgaris</i> L.	P	5	0	0	0	0	0	0	0	1.7	0	0	0	0	0
54	<i>Sturnus</i> roseus L.	I	4	0	0	0	0	0	0	0	1.7	0	0	0	0	0
55	<i>Garrulus</i> glandarius L.	R	1, 3, 5, 6	9	7	1.7	6.9	13.9	3.3	2	5.3	3.5	3.9	16.5	6.7	0

56	<i>Pica pica</i> L.	R	3, 5	1.3	0	0	0	2.7	6.7	0	2.2	0	1.6	9.3	12	0
57	<i>Pyrrhocorax pyrrhocorax</i> L.	R	2, 4, 7, 9	0	1.8	0.8	1.7	4.9	1.4	11.4	4.6	0	2	0	60	19.6
58	<i>Pyrrhocorax graculus</i> L.	R	4, 7, 9	3.4	1.2	0	0	0	0	0	0	0	0	0	0	0.9
59	<i>Corvus cornix</i> L.	R	3, 5	0.4	0	4.2	0.9	5.3	0	0	2.6	0	4	0.8	6.7	0
60	<i>Corvus corax</i> L.	R	2, 3, 4	0	1.5	1	0.9	21	0.3	0.8	1.1	1	2.8	0.3	13.3	0.3
61	<i>Cinclus cinclus</i> L.	R	10	0	2	3.3	1.4	4.7	0	12	2.9	0	0	2.3	0	0
62	<i>Troglodytes troglodytes</i> L.	R	1, 3, 5, 6	10	2.4	3.8	4.5	8.5	0	1.9	5.1	21.7	4.6	2.5	0	0
63	<i>Prunella collaris</i> Scop.	R	4, 7, 9	2.5	1.4	0	0	0	0	0	0	0	8.3	0	0	0
64	<i>Prunella modularis</i> L.	R	1	0	6.5	3.9	0	4.8	0	0	6.9	0	4.4	2.9	0	0
65	<i>Acrocephalus palustris</i> Bech.	B	2, 7, 10	0	0	0	0	0	0.6	0	0	0	0	0	0	0
66	<i>Hippolais pallida</i> Hemprich et Ehrenberg	P B	6	0	0	0	0	0	0	5.2	0	0	0	0	0	0
67	<i>Sylvia communis</i> Lath.	B	2, 3, 6	2	8.2	6.7	6.1	0	5.4	2	3.1	17.7	1.8	0	0	0.8
68	<i>Sylvia curruca</i> L.	P B	3, 6	0	0	0	0	0	4.2	0	6	0	0	0	0	0
69	<i>Phylloscopus lorenzii</i> Lorenz	R	1, 2, 6	5	1.6	6.7	0	10.8	0	54.2	8	16.7	7.4	16.6	0	25.9
70	<i>Phylloscopus trochilus</i> L.	P	1, 6	0	0	0	0	0	1.8	0	0	0	0	0	0	0
71	<i>Phylloscopus collybita</i> Vieil.	B	1	3.3	4.8	0	0	0	0	0	2.3	0	0	5.7	0	0
72	<i>Phylloscopus nitidus</i> Blyth	B	1	74.1	5.9	11.3	23.7	0	6.9	48.8	13.2	44.4	26.9	1.5	0	0
73	<i>Regulus regulus</i> L.	R	1	0	4	0	0	0	0	0	6	0	13.1	0	0	0
74	<i>Ficedula parva</i> Scop.	P B	1	0	2.3	0	0	0	0	0	0	8.3	3	0	0	0
75	<i>Saxicola rubetra</i> L.	B	2, 3	0	2.4	0	0	0	4.2	9	1.5	26.7	6.3	0	0	6.7
76	<i>Saxicola torquata</i> L.	B	2, 3	0	2.7	3.9	0	0	0	0	0	0	0	2.5	0	1.7
77	<i>Oenanthe oenanthe</i> L.	B	2, 4, 5	0	0	0	0	1.4	28.3	0	5.1	0	2.2	0	0	7.5
78	<i>Oenanthe isabellina</i> Temm.	B	4, 5	5	0	6.7	0	0	0	0	12	20	0	0	0	3
79	<i>Monticola saxatilis</i> L.	B	2, 4, 7	0	0	0	0	1.1	0	0	4	0	0	0	0	2
80	<i>Monticola solitarius</i> L.	B	2, 4	0	0	0	0	0	0	0	3.3	0	0	0	0	0
81	<i>Phoenicurus phoenicurus</i> L.	B	1, 3, 6	2	8	3.7	5.8	4.3	1.2	6.2	5	14.2	8.4	4.4	0	0

82	<i>Phoenicurusochruros</i> Gmel.	B	2, 3, 4, 5,7	22.2	0	12.9	5.9	4.2	5.3	2.4	5.2	20.5	17.5	4.3	0	2.9
83	<i>Phoenicuruserythrogaster</i> Güld.	R	4, 7, 9	0	0	0	0	0	0	0	8.3	0	0	0	0	0
84	<i>Erythacusrubecula</i> L.	R	1, 3, 5, 6	1.3	9.3	1.9	1.4	5.7	0	0	1.7	10	0	3.2	0	0
85	<i>Lusciniasvecica</i> L.	I	6	0	0	0	0	0	0	0	1.5	0	0	0	0	0
86	<i>Turdustorquatus</i> L.	R	1, 2, 3, 6	3.3	2	8.3	14	2	22.7	0	1.9	13.3	7.8	0	0	0
87	<i>Turdusmerula</i> L.	R	1, 3, 5, 6	42.7	10.7	7.8	5.1	8.5	12.4	4.5	21.6	8.3	5.3	3	0	0
88	<i>Turdusiliacus</i> L.	P	6	0	0	0	1.7	0	0	0	1.3	0	0	0	0	0
89	<i>Turdusviscivorus</i> L.	R	1, 6	2	13.5	0	10.2	6.4	3.6	0	3.3	5	7.9	5.7	0	0
90	<i>Aegithaloscaudatus</i> L.	R	1, 6	0	0	0	7.1	18.6	0	9.8	6	0	6.3	7.8	0	0
91	<i>Parusater</i> L.	R	1	0	64.5	8.1	3.6	6.8	0	5.6	17.4	78.3	8	14.6	0	0
92	<i>Paruscaeruleus</i> L.	R	1, 3, 5	0	4	1.1	0	0	0	0	0	0	2	0	0	0
93	<i>Parus major</i> L.	R	1, 3, 5	9.3	17.4	11	12.6	9.1	4.6	7.8	11.9	2.5	2.8	3.4	0	0
94	<i>Tichodromamuraria</i> L.	R	4	0	12	2.2	0	0	0	0	1.7	0	0	0	0	0
95	<i>Certhiafamiliaris</i> L.	R	1	0	14.2	0	2.9	1	0	5.8	7.3	0	3.8	0.6	0	0
96	<i>Passer domesticus</i> L.	R	3, 5	0	0	0	0	0	2.5	0	0	0	0	0	0	6.7
97	<i>Passer hispaniolinsis</i> Temm.	I	3	0	0	0	0	0	0	0	1.5	0	0	0	0	0
98	<i>Passer montanus</i> L.	R	3, 5	15.5	0	41.7	56.2	13.4	21.6	16	39.4	0	10.8	8.8	0	1.7
99	<i>Petroniapetronia</i> L.	R	2, 4	15	0	0	0	0	53.3	0	0	0	0	0	0	0
100	<i>Montifringillanivalis</i> L.	R	2, 4, 7, 9	0	0	0	0	6	0	0	0	0	0	0	0	6
101	<i>Fringillacoelebs</i> L.	R	1, 3	15.7	12.9	10.5	3	29.3	1	3	4.7	15	7.1	2.5	0	0
102	<i>Serinuspusillus</i> Pall.	R	1, 2, 3,4,6	5.5	42.3	18.9	7.3	2.5	9.6	5.3	14.4	57.8	12	0	6.7	0
103	<i>Chloris chloris</i> L.	P B	1, 3	0	0	0	0	2.7	0	0	0	0	0	0	3.3	0
104	<i>Spinuspinus</i> L.	P B	1	0	0	0	0	22.9	0	0	0	0	6.1	0	0	0
105	<i>Cardueliscarduelis</i> L.	R	2, 3, 5, 6	3.8	0	14.7	0	1.4	1.9	6	5.9	26.7	13.4	12.5	13.3	17.5
106	<i>Acanthiscannabinal</i> L.	R	2, 3	2.5	0	0	0	0	18.3	18.5	10.2	0	6.8	3.3	0	67.1
107	<i>Acanthisflavirostris</i> L.	R	2, 7	0	0	20	0	0	28.1	0	4	0	0	0	0	0

108	<i>Carpodacus erythrinus</i> Pall.	B	2, 3, 6	14.8	2.5	17.1	13.9	1.4	8.6	0	2.9	10	2.1	0	0	16.3
109	<i>Carpodacus rubicilla</i> Guld.	R	4, 7, 9	0	0	0	0	0	0	0	3.7	0	0	0	0	0
110	<i>Loxia curvirostra</i> L.	R	1	0	0	0	0	0	0	0	2.3	0	3.7	0	0	0
111	<i>Pyrrhuloxia pyrrhula</i> L.	R	1	0	1.4	1.7	7.1	4.9	0	0	3.5	8.7	7.4	1.9	0	0
112	<i>Coccothraustes coccothraustes</i> L.	I	3	0	0	0	0	0	0	0	1.7	0	0	0	0	0
113	<i>Emberiza calandra</i> L.	B	2, 3	0	0	0	0	0	20	0	2.6	0	5	0	0	0
114	<i>Emberiza caesia</i> L.	R	2, 3, 4, 5, 6	2.5	1.6	21.7	20.4	15.1	22.5	28.6	21.1	57.2	14.3	15.3	56.7	0
115	<i>Emberiza hortulana</i> L.	B	3	11.2	0	0	0	2	3.3	0	0	0	0	0	0	19.5