

CLEMENTS 2018 UPDATE

Charles E. Braun, BU1364 & Jack R. Congrove, BU1424

The Clements 2018 taxonomic update was released by Cornell in August. Changes ranged from adding an order to minor typographic corrections. The revised taxonomic order is given in the table below.

One new order is added (**Musophagiformes**) for the Turacos (Musophagidae). Consequently, we now recognize 41 extant orders. Two new families are added this year: **Oceanitidae** (Southern Storm-Petrels) and **Platylophidae** (Crested Shrikejay—formerly Crested Jay). The total number of extant families in the *eBird/Clements Checklist* increases to 250, with an additional extinct family (Mohoidae: Hawaiian Honeyeaters), for a total of 251 families.

The listing also extensively revises the sequence of orders among the non-passerines, and the sequence of families in the nine-primaried oscines.

The table below shows the revised order of the 250 extant families accepted by Clements Checklist. The names of orders are in **BOLD CAPITAL** lettering and changes are noted in **bold blue** font. An additional extinct family (†Mohoidae: Hawaiian Honeyeaters) is listed. The listing also provides the quantity of families in each order (in parentheses, after the name of each order), and the quantity of species in each family (in parentheses, after the name of each family).

No.	Family	Members	No.	Family	Members	
	STRUTHIONIFORMES (1)			OTIDIFORMES (1)		
1	Struthionidae	Ostrich (2)	19	Otididae	Bustards (26)	
	RHEIFORMES (1)			MUSOPHAGIFORMES (1) (new)		
2	Rheidae	Rheas (2)	20	Musophagidae	Turacos (23)	
	TINAMIFORMES (1)			CUCULIFORMES (1)		
3	Tinamidae	Tinamous (47)	21	Cuculidae	Cuckoos (146)	
	CASUARIIFORMES (1)			CAPRIMULGIFORMES (8)		
4	Casuariidae	Cassowaries & Emu (4)	22	Podargidae	Frogmouths (15)	
	APTERYGIFORMES (1)			23	Caprimulgidae	Nightjars & Allies (98)
5	Apterygidae	Kiwis (5)	24	Nyctibiidae	Potoos (7)	
	ANSERIFORMES (3)			25	Steatornithidae	Oilbird (1)
6	Anhimidae	Screamers (3)	26	Aegothelidae	Owlet-Nightjars (10)	
7	Anseranatidae	Magpie Goose (1)	27	Apodidae	Swifts (112)	
8	Anatidae	Ducks, Geese, & Waterfowl (168)	28	Hemiprocnidae	Treeswifts (4)	
	GALLIFORMES (5)			29	Trochilidae	Hummingbirds (347)
9	Megapodiidae	Megapodes (22)		OPISTHOCOMIFORMES (1)		
10	Cracidae	Guans, Chachalacas, & Curassows (54)	30	Opisthocomidae	Hoatzin (1)	
11	Numididae	Guineafowl (6)		GRUIFORMES (6)		
12	Odontophoridae	New World Quail (33)	31	Sarothruridae	Flufftails (12)	
13	Phasianidae	Pheasants, Grouse, & Allies (177)	32	Rallidae	Rails, Gallinules, & Coots (144)	
	PHOENICOPTERIFORMES (1)			33	Heliornithidae	Finfoots (3)
14	Phoenicopteridae	Flamingos (6)	34	Aramidae	Limpkin (1)	
	PODICIPEDIFORMES (1)			35	Psophiidae	Trumpeters (3)
15	Podicipedidae	Grebes (22)	36	Gruidae	Cranes (15)	
	COLUMBIFORMES (1)			CHARADRIIFORMES (19)		
16	Columbidae	Pigeons & Doves (342)	37	Chionidae	Sheathbills (2)	
	MESITORNITHIFORMES (1)			38	Pluvianellidae	Magellanic Plover (1)
17	Mesitornithidae	Mesites (3)	39	Burhinidae	Thick-knees (10)	
	PTEROCLIFORMES (1)			40	Pluvianidae	Egyptian Plover (1)
18	Pteroclididae	Sandgrouse (16)	41	Recurvirostridae	Stilts & Avocets (9)	

No.	Family	Members	No.	Family	Members
	CHARADRIIFORMES (continued)			STRIGIFORMES (2)	
42	Ibidorhynchidae	Ibisbill (1)	79	Tytonidae	Barn-Owls (18)
43	Haematopodidae	Oystercatchers (12)	80	Strigidae	Owls (209)
44	Charadriidae	Plovers & Lapwings (67)		COLIIFORMES (1)	
45	Pedionomidae	Plains-wanderer (1)	81	Coliidae	Mousebirds (6)
46	Thinocoridae	Seedsnipes (4)		LEPTOSOMIFORMES (1)	
47	Rostratulidae	Painted-Snipes (3)	82	Leptosomidae	Cuckoo-Roller (1)
48	Jacanidae	Jacanas (8)		TROGONIFORMES (1)	
49	Scolopacidae	Sandpipers & Allies (97)	83	Trogonidae	Trogons (44)
50	Turnicidae	Buttonquail (16)		BUCEROTIFORMES (4)	
51	Dromadidae	Crab Plover (1)	84	Upupidae	Hoopoes (2)
52	Glareolidae	Pratincoles & Coursers (17)	85	Phoeniculidae	Woodhoopoes & Scimitar-bills (8)
53	Stercorariidae	Skuas & Jaegers (7)	86	Bucorvidae	Ground-Hornbills (2)
54	Alcidae	Auks, Murres, & Puffins (25)	87	Bucerotidae	Hornbills (59)
55	Laridae	Gulls, Terns, & Skimmers (98)		CORACIIFORMES (6)	
	EURYPYGIFORMES (2)		88	Todidae	Todies (5)
56	Rhynochetidae	Kagu (1)	89	Momotidae	Motmots (14)
57	Eurypygidae	Sunbittern (1)	90	Alcedinidae	Kingfishers (117)
	PHAETHONTIFORMES (1)		91	Meropidae	Bee-eaters (28)
58	Phaethontidae	Tropicbirds (3)	92	Coraciidae	Rollers (12)
	GAVIIFORMES (1)		93	Brachypteraciidae	Ground-Rollers (5)
59	Gaviidae	Loons (5)		GALBULIFORMES (2)	
	SPHENISCIFORMES (1)		94	Bucconidae	Puffbirds (36)
60	Spheniscidae	Penguins (18)	95	Galbulidae	Jacamars (18)
	PROCELLARIIFORMES (4)			PICIFORMES (7)	
61	Diomedidae	Albatrosses (15)	96	Lybiidae	African Barbets (41)
62	Oceanitidae (new)	Southern Storm Petrels (9)	97	Megalaimidae	Asian Barbets (34)
63	Hydrobatidae	Storm-Petrels (18)	98	Capitonidae	New World Barbets (14)
64	Procellariidae	Shearwaters & Petrels (92)	99	Semnornithidae	Toucan-Barbets (2)
	CICONIIFORMES (1)		100	Ramphastidae	Toucans (36)
65	Ciconiidae	Storks (19)	101	Indicatoridae	Honeyguides (17)
	SULIFORMES (4)		102	Picidae	Woodpeckers (231)
66	Fregatidae	Frigatebirds (5)		CARIAMIFORMES (1)	
67	Sulidae	Boobies & Gannets (10)	103	Cariamidae	Seriemas (2)
68	Anhingidae	Anhingas (4)		FALCONIFORMES (1)	
69	Phalacrocoracidae	Cormorants & Shags (40)	104	Falconidae	Falcons & Caracaras (65)
	PELECANIFORMES (5)			PSITTACIFORMES (4)	
70	Pelecanidae	Pelicans (8)	105	Strigopidae	New Zealand Parrots (4)
71	Balaenicipitidae	Shoebill (1)	106	Cacatuidae	Cockatoos (21)
72	Scopidae	Hamerkop (1)	107	Psittaculidae	Old World Parrots (180)
73	Ardeidae	Hérons, Egrets, & Bitterns (64)	108	Psittacidae	New World & African Parrots (168)
74	Threskiornithidae	Ibises & Spoonbills (34)		PASSERIFORMES (142)	
	CATHARTIFORMES (1)		109	Acanthisittidae	New Zealand Wrens (4)
75	Cathartidae	New World Vultures (7)	110	Calyptomenidae	African & Green Broadbills (6)
	ACCIPITRIFORMES (3)		111	Eurylaimidae	Asian & Grauer's Broadbills (9)
76	Sagittariidae	Secretary-bird (1)	112	Sapayoidae	Sapayoa (1)
77	Pandionidae	Osprey (1)	113	Philepittidae	Asities (4)
78	Accipitridae	Hawks, Eagles, & Kites (247)	114	Pittidae	Pittas (44)

No.	Family	Members	No.	Family	Members
	PASSERIFORMES (continued)			PASSERIFORMES (continued)	
115	Thamnophilidae	Typical Antbirds (236)	162	Laniidae	Shrikes (33)
116	Melanopareidae	Crescentchests (4)	163	Vireonidae	Vireos, Shrike-Babblers, & Erpornis (63)
117	Conopophagidae	Gnateaters (11)	164	Oriolidae	Old World Orioles (36)
118	Grallariidae	Antpittas (55)	165	Dicruridae	Drongos (25)
119	Rhinocryptidae	Tapaculos (60)	166	Rhipiduridae	Fantails (53)
120	Formicariidae	Antthrushes (11)	167	Ifritidae	Ifrita (1)
121	Furnariidae	Ovenbirds & Woodcreepers (303)	168	Monarchidae	Monarch Flycatchers (99)
122	Tyrannidae	Tyrant Flycatchers (423)	169	Corvidae	Crows, Jays, & Magpies (128)
123	Oxyruncidae	Sharpbill (1)	170	Corcoracidae	White-winged Chough & Apostlebird (2)
124	Cotingidae	Cotingas (65)	171	Paradisaeidae	Birds-of-paradise (42)
125	Pipridae	Manakins (56)	172	Melampittidae	Melampittas (2)
126	Tityridae	Tityras & Allies (33)	173	Petroicidae	Australasian Robins (47)
127	Menuridae	Lyrebirds (2)	174	Picathartidae	Rockfowl (2)
128	Atrichornithidae	Scrub-birds (2)	175	Chaetopidae	Rockjumpers (2)
129	Ptilonorhynchidae	Bowerbirds (26)	176	Eupetidae	Rail-babbler (1)
130	Climacteridae	Australasian Treecreepers (7)	177	Panuridae	Bearded Reedling (1)
131	Maluridae	Fairywrens (33)	178	Nicatoridae	Nicators (3)
132	Meliphagidae	Honeyeaters (186)	179	Alaudidae	Larks (97)
133	Dasyornithidae	Bristlebirds (3)	180	Hirundinidae	Swallows (86)
134	Pardalotidae	Pardalotes (4)	181	Stenostiridae	Fairy Flycatchers (9)
135	Acanthizidae	Thornbills & Allies (64)	182	Paridae	Tits, Chickadees & Titmice (63)
136	Pomatostomidae	Pseudo-Babblers (5)	183	Remizidae	Penduline-Tits (11)
137	Orthonychidae	Logrunners (3)	184	Aegithalidae	Long-tailed Tits (11)
138	Cnemophilidae	Satinbirds (3)	185	Sittidae	Nuthatches (27)
139	Melanocharitidae	Berrypeckers & Longbills (10)	186	Tichodromidae	Wallcreeper (1)
140	Mohouidae	Whiteheads (3)	187	Certhiidae	Treecreepers (11)
141	Paramythiidae	Tit & Crested Berrypeckers (2)	188	Troglodytidae	Wrens (85)
142	Callaeidae	Wattlebirds (5)	189	Poliotilidae	Gnatcatchers (15)
143	Notiomystidae	Stitchbird (1)	190	Cinclidae	Dippers (5)
144	Psophodidae	Whipbirds & Wedgebills (5)	191	Pycnonotidae	Bulbuls (143)
145	Cinclosomatidae	Quail-thrushes & Jewel-babblers (11)	192	Regulidae	Kinglets (6)
146	Platysteiridae	Wattle-eyes & Batises (30)	193	Pnoepygidae	Cupwings (5)
147	Vangidae	Vangas, Helmetshrikes & Allies (39)	194	Macrosphenidae	African Warblers (21)
148	Malaconotidae	Bushshrikes & Allies (50)	195	Cettiidae	Bush-Warblers & Allies (36)
149	Machaerirhynchidae	Boatbills (2)	196	Phylloscopidae	Leaf-Warblers (76)
150	Artamidae	Woodswallows (11)	197	Acrocephalidae	Reed-Warblers & Allies (61)
151	Cracticidae	Bellmagpies & Allies (13)	198	Locustellidae	Grassbirds & Allies (61)
152	Pityriaseidae	Bristlehead (1)	199	Donacobiidae	Donacobius (1)
153	Aegithinidae	Ioras (4)	200	Bernieridae	Malagasy Warblers (11)
154	Campephagidae	Cuckooshrikes (87)	201	Cisticolidae	Cisticolas & Allies (145)
155	Neosittidae	Sittellas (2)	202	Sylviidae	Sylviid Warblers (33)
156	Eulacestomatidae	Ploughbill (1)	203	Paradoxornithidae	Parrotbills, Wrentit, & Allies (36)
157	Falcunculidae	Shrike-tit (1)	204	Zosteropidae	Yuhinas, White-eyes, & Allies (130)
158	Pachycephalidae	Whistlers & Allies (56)	205	Timaliidae	Tree- & Scimitar-Babblers & Allies (52)
159	Rhagologidae	Mottled Berryhunter (1)	206	Pellorneidae	Ground Babblers & Allies (58)
160	Oreoicidae	Australo-Papuan Bellbirds (3)	207	Leiothrichidae	Laughingthrushes & Allies (146)
161	Platylophidae (new)	Crested Shrikejay (1)	208	Promeropidae	Sugarbirds (2)

No.	Family	Members	No.	Family	Members
	PASSERIFORMES (continued)			PASSERIFORMES (continued)	
209	Modulatricidae	Dapple-throat and Allies (3)	231	Fringillidae	Finches, Euphonias, & Allies (225)
210	Irenidae	Fairy-bluebirds (2)	232	Calcariidae	Longspurs & Snow Buntings (6)
211	Hyliotidae	Hyliotas (4)	233	Rhodinocichlidae	Thrush-Tanager (1)
212	Muscicapidae	Old World Flycatchers (317)	234	Emberizidae	Old World Buntings (44)
213	Turdidae	Thrushes & Allies (171)	235	Passerellidae	New World Sparrows (130)
214	Mimidae	Mockingbirds & Thrashers (34)	236	Calyptophilidae	Chat-Tanagers (2)
215	Sturnidae	Starlings (122)	237	Phaenicophilidae	Hispaniolan Tanagers (4)
216	Buphagidae	Oxpeckers (2)	238	Nesospingidae	Puerto Rican Tanager (1)
217	Chloropseidae	Leafbirds (11)	239	Spindalidae	Spindalises (4)
218	Dicaeidae	Flowerpeckers (47)	240	Zeledoniidae	Wrenthrush (1)
219	Nectariniidae	Sunbirds & Spiderhunters (139)	241	Teretistridae	Cuban Warblers (2)
220	Prunellidae	Accentors (13)	242	Icteriidae	Yellow-breasted Chat (1)
221	Motacillidae	Wagtails & Pipits (67)	243	Icteridae	Troupials & Allies (105)
222	Urocynchramidae	Przevalski's Pinktail (1)	244	Parulidae	New World Warblers (110)
223	Elachuridae	Spotted Elachura (1)	245	Mitrospingidae	Mitrospingid Tanagers (2)
224	Bombycillidae	Waxwings (3)	246	Cardinalidae	Cardinals & Allies (49)
225	†Mohoidae	Hawaiian Honeyeaters (5) [extinct]	247	Thraupidae	Tanagers & Allies (377)
226	Ptilonotidae	Silky-flycatchers (4)	248	Passeridae	Old World Sparrows (42)
227	Dulidae	Palmchat (1)	249	Ploceidae	Weavers & Allies (116)
228	Hylocitridae	Hylocitrea (1)	250	Estrildidae	Waxbills & Allies (140)
229	Hypocoliidae	Hypocolius (1)	251	Viduidae	Indigobirds (20)
230	Peucedramidae	Olive Warbler (1)			

Reference: Clements, J. F., T. S. Schulenberg, M. J. Iliff, D. Roberson, T. A. Fredericks, B. L. Sullivan, and C. L. Wood. 2018. The eBird/Clements checklist of birds of the world: v2018. Downloaded from <http://www.birds.cornell.edu/clementschecklist/download/>

Changes Affecting Birds on Stamps

Velvet Scoter has been split from White-winged Scoter (see New Birds).

Change Southern Crowned-Pigeon, *Goura scheepmakeri* to Sclater's Crowned-Pigeon, *Goura sclateri*.

Purple-backed Fairywren (2001 & 2002 Australian issues—see New Birds) has been split from Variegated Fairywren (issues from Australia 1942, Micronesia, and Niue).

Taiwan Thrush, *Turdus niveiceps*, has been split from Island Thrush (see New Birds).

Chivi Vireo, *Vireo chivi* (Venezuela issue—see New Birds), has been split from Red-eyed Vireo (issues from Grenada and Grenadines).

Eurasian Magpie has been split into four species, two of which are on stamps: Oriental Magpie (Cambodia, China, Gambia, Hong Kong, Japan, Kampuchea, South Korea, and Sierra Leone—see New Birds) and Eurasian Magpie (all other issues).

Individual Changes:

Change Firecrest to Common Firecrest.

Change Nightingale Finch to Inaccessible Island Finch.

Change Rufous-vented Prinia to *Laticilla burnesii* and move it to Family Pellorneidae.

Move Grandala to Family Turdidae.

Move Bristlehead to Family Pityriasisidae.

Change Radjah Shelduck to *Radjah radjah*.

Individual Changes: (continued)

Change the content of Passerellidae to New World Sparrows.
 Change White-eyed Duck to Hardhead.
 Change Zoe Imperial Pigeon to Zoe's Imperial Pigeon.
 Change Ruwenzori Turaco to Rwenzori Turaco.
 Ferruginous-backed Antbird, *Myrmoderus ferrugineus*.
 African Crake, *Crex egregia*.
 Slaty-breasted Rail, *Lewinia striata*.
 Invisible Rail, *Gallirallus wallacii*.
 Woodford's Rail, *Gallirallus woodfordi*.
 Bar-winged Rail, *Gallirallus poecilopterus*.
 Change Black-shouldered Rail to Black-winged Rail.
 Change Australian Kite to Black-shouldered Kite.
 Change Black-shouldered Kite to Black-winged Kite.
 Change Great Philippine Eagle to Philippine Eagle.
 Change Frances's Hawk to Frances's Sparrowhawk.
 Change Madagascar Red Owl to Red Owl.
 White-browed Owl, *Athene superciliaris*.
 Change African Long-eared Owl to Abyssinian Owl.
 Change Madagascar Long-eared Owl to Madagascar Owl.
 Change Cuckoo-Roller to Cuckoo-roller.
 Middle-spotted Woodpecker, *Dendrocoptes medius*.
 Brown-fronted Woodpecker, *Dendrocoptes auriceps*.
 Arabian Woodpecker, *Dendrocoptes dora*.
 Bearded Woodpecker, *Chloropicus namaquus*.
 Change Gray Woodpecker to African Gray Woodpecker, *Chloropicus goertae*.
 Change Gray-headed Woodpecker to Mountain Woodpecker, *Chloropicus spodocephalus*.
 Okinawan Woodpecker, *Dendrocopus noguchii*.
 Lesser-spotted Woodpecker, *Dryobates minor*.
 Downy Woodpecker, *Dryobates pubescens*.
 Red-cockaded Woodpecker, *Dryobates borealis*.
 Hairy Woodpecker, *Dryobates villosus*.
 Golden-collared Woodpecker, *Dryobates cassini*.
 Dot-fronted Woodpecker, *Dryobates frontalis*.
 Blood-colored Woodpecker, *Dryobates sanguineus*.
 Banded Woodpecker, *Chrysophlegma miniaceum*.
 Greater Yellownape, *Chrysophlegma flavinucha*.
 Change Vasa Parrot to Greater Vasa Parrot.
 Change Black Parrot to Lesser Vasa Parrot.
 Seychelles Parrot, *Coracopsis barklyi*.
 Change Sunbird Asity to Common Sunbird-Asity.
 Change Macgregor's Bowerbird to MacGregor's Bowerbird.
 Change Ruwenzori Batis to Rwenzori Batis.
 Change Gray Jay to Canada Jay.
 Change Vogelkop Bird-of-Paradise to Vogelkop Lophorina.
 Change Greater Bird-of-Paradise to Greater Lophorina.
 Change Lesser Bird-of-Paradise to Lesser Lophorina.
 Change Greater Striped-Swallow to Greater Striped Swallow.
 Change Lesser Striped-Swallow to Lesser Striped Swallow.
 Change Black-lored Tit to Himalayan Black-lored Tit.
 Black-crested Bulbul, *Rubigula flaviventris*.
 Black-capped Bulbul, *Rubigula melanicterus*.

Individual Changes: (continued)

Black-collared Apalis, *Oreolais pulchra*.

Change Sukatchev's Laughingthrush to Snowy-cheeked Laughingthrush.

Choco Alethe, *Chamaetylas choloensis*.

Seaside Sparrow, *Ammodramus maritimus*.

Saltmarsh Sparrow, *Ammodramus caudatus*.

Red-breasted Meadowlark, *Leistes militaris*.

Greater Antillean Bullfinch, *Melopyrrha violacea*.

Change Española Cactus-finch to Española Ground-Finch.

Russet Sparrow, *Passer cinnamomeus*.

Change Rock Petronia to Rock Sparrow.

Change Social Weaver to Sociable Weaver.

2019–20 FEDERAL DUCK STAMP ART

On 15 September 2018, a panel of five judges chose an acrylic painting of a wood duck and decoy by Scot Storm as the winner of the 2018 Federal Duck Stamp Contest.

This is the second contest win for Storm, an artist from Freeport, Minnesota, whose artwork previously appeared on the 2004–05 stamp. Storm's winning art will grace the 2019–20 Federal Duck Stamp, which will raise tens of millions of dollars for habitat conservation after it goes on sale in June 2019.

Formally known as Hunting Permit Stamps, duck stamps are conservation revenue stamps. Ninety-eight percent of the purchase price goes directly to help acquire and protect wetland habitat and purchase conservation easements for the National Wildlife Refuge System. Wetlands acquired with duck stamp dollars help purify water, aid in flood control, reduce soil erosion and sedimentation, and enhance outdoor recreation opportunities.



Wood Duck, *Aix sponsa* (♂)
art by Scot Storm of Freeport, Minnesota
winner of 2018 Duck Stamp Contest



Mallards, *Anas platyrhynchos* (♂ & ♀)
art by Bob Hautmann of Delano, Minnesota
USA, 2018, Sc#RW85

While waterfowl hunters 16 years of age or older are required to purchase them, anyone can contribute to conservation by buying duck stamps. In addition to serving as hunting license and conservation tool, a current Federal Duck Stamp is also a free pass into any national wildlife refuge that charges an entry fee.

Because nearly all of the proceeds are used to conserve habitat for birds and other wildlife, birders, nature photographers and other outdoor enthusiasts buy duck stamps to help ensure that they can always see wildlife at their favorite outdoors spots.

In addition to being the only conservation revenue stamp, the duck stamp is unique in the way it is created. Each year, the U.S. Fish & Wildlife Service holds an art contest, the only juried art competition sponsored by the federal government. Any artist 18 years or older may enter, and the winning artist sees his or her work featured as the design on the following year's stamp.