

Tufted Duck (*Aythya fuligula*) numbers and distribution

Tufted Duck has a similar distribution to Common Pochard, but is more concentrated in Europe and less numerous in southern parts of the range around the Mediterranean and in Iran (Figure 1). The biggest concentration of key sites is in the eastern Baltic region including Denmark, eastern Germany, Poland and Sweden. Large concentrations are found north of the Alps in France, Switzerland, Germany, Austria and the Czech Republic, and The Netherlands and UK also hold large numbers. Further East, the western and northern Black Sea regions are important, with large numbers in Russia, Ukraine, Romania, Bulgaria and Turkey. The Caspian coast is also extremely important with especially high numbers in Russia, Azerbaijan and Turkmenistan. A concentration exceeding 450,000 mixed Tufted Ducks and Common Pochards has been recorded in the Volga Delta.

Table 1 shows that the most important site in Europe is the Bodensee in Germany-Switzerland-Austria where 82,542 were counted in 1996, and thirteen more sites in Germany and five in Switzerland have recorded January counts between 10,000 and 60,000 Tufted Ducks. These counts include 58,912 at Lac de Neuchatel in 1994, 37,032 at Lac Léman in 1990, and in Germany, 50,000 at Wismar-Hohen Wieschendorfer Huk, where 50,000 were counted in 1993, and the Grosser Plöner See where 23,660 were counted in 1995. There were 28,931 at Cours du Rhin (France) in January 1990, and two sites in The Netherlands recorded peak counts of around 28,700: Markermeer in 2000 and Ijsselmeer in 1992. A peak January count of 25,340 was made at Loughs Neagh and Beg in the UK in 1996 (but numbers decreased markedly there in the 2000s).

The biggest concentration of important sites is in the eastern Baltic Sea where key sites in Denmark include Roskilde Fjord, where 53,920 Tufted Ducks were counted in 1995, Maribo Soerne where there were 31,200 in 2000 and Sydfynske Hav where 20,992 were counted in 1994. Further east in the Baltic, the Neman river Delta in Russia has recorded a peak count of 50,000, and in Poland there were 33,275 at Jez. Dabie in 1993 and 17,898 at Zat. Gdanska in 1996. In southeast Europe, 80,000 were counted at Chituc (Vadu – Periboina) in Romania in 1993 and there were 40,000 at Skadarsko Jezero on the border between Montenegro and Albania in the same year. Peak counts were made of 20,000 at Sasyk Liman, Ukraine in 2000 and 15,803 at Burgas Lake, Bulgaria in 1992. The Turkish lakes hold fewer of this species than Common Pochard, and the highest peak count was 14,550 at Hirfani Baraji in 1996.

Numbers are also lower in West and Central Asia than for Common Pochard, but there are a number of key sites around the Caspian Sea. Gyzylagach Nature Reserve, Azerbaijan is the most important of these, and a peak count of 81,000 was recorded there. Peak January counts at five additional sites in Azerbaijan exceeded 10,000, and there were six such counts in Turkmenistan, the highest at Lake Sarykamysh in 2003, when 22,190 were counted. In Iran there were 16,744 at Lake Uromieh in 1997.

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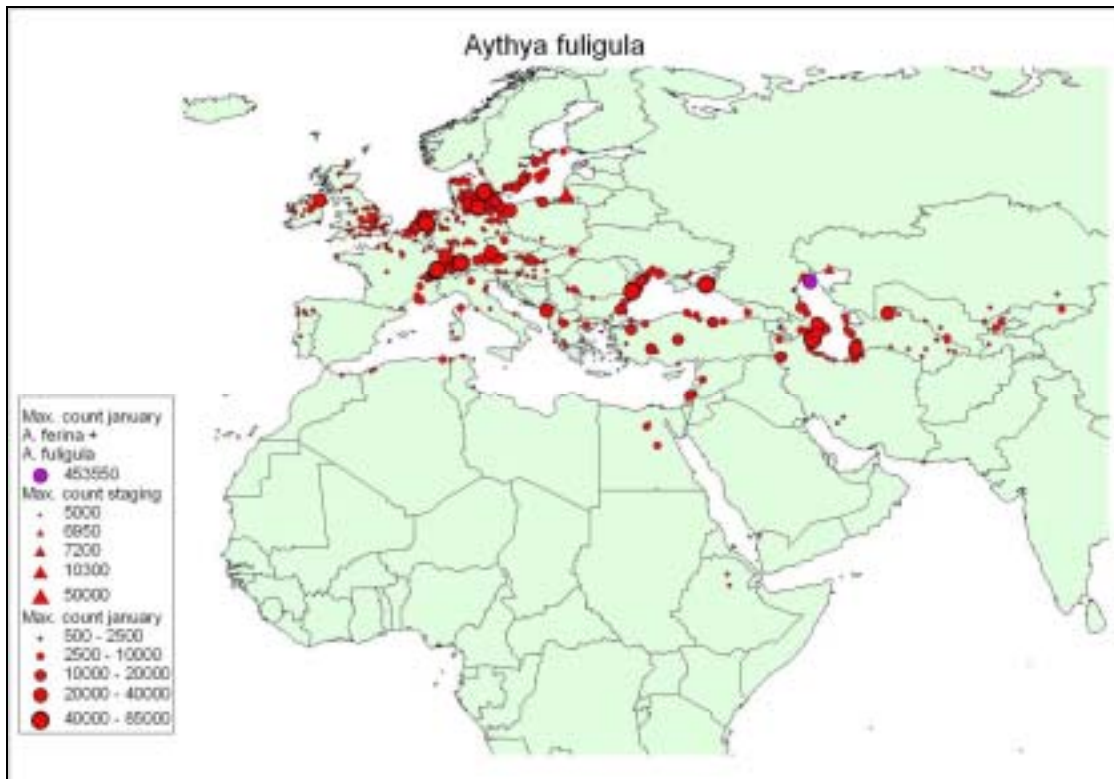


Figure 1: Tufted Duck *Aythya fuligula*: Peak counts between 1990 and 2005 at sites in Europe, Africa, West and Central Asia where 500 or more have been recorded.

Table 1: Tufted Duck *Aythya fuligula*: Peak counts between 1990 and 2005 at sites in Europe, Africa, West and Central Asia where 5,000 or more have been recorded.

Country	Sitename	Year	Count	Type	Ref.
Azerbaijan	Caspian Coast: Gyzylagach Nature Reserve		81000	J	17
Azerbaijan	Caspian Coast: Yashma Is. and Gilazy Spit		24753	J	17
Azerbaijan	Caspian Coast: Sangachal Bay		24500	J	17
Azerbaijan	Caspian Coast: Shakdilli Spit		15043	J	17
Azerbaijan	Caspian Coast: Alyat Bay		11097	J	17
Azerbaijan	Caspian Coast: Pirsagat Cape		10450	J	17
Azerbaijan	Caspian Coast: Gobustan Bay		9720	J	17
Azerbaijan	Aggel (Ah Gol) Lake	1991	9000	J	17
Azerbaijan	Sangachal Cape	1997	8000	J	17
Azerbaijan	Narimanabad Coast	1996	7712	J	17
Azerbaijan	Caspian Coast: Pyralahy Island		7156	J	17
Azerbaijan	Caspian Coast: Seashore Turkan-Hovsan		6650	J	17
Azerbaijan	Caspian Coast: Baku-Shakdilli Spit	1998	5500	J	17
Azerbaijan	Caspian Coast: Factory Shelf		5309	J	17
Azerbaijan	Alyat Bay and nearest islands	1996	10300	S	34
Belgium	Rodenhuizedok Terdonk	1997	8900	J	17
Bulgaria	Burgas Lake (Vaya)	1992	15803	J	17
Bulgaria	Mandra Lake Complex	1994	6458	J	17
Denmark	Roskilde Fjord	1995	53920	J	17
Denmark	Maribo Soerne	2000	31200	J	17
Denmark	Sydfynske Hav	1994	20992	J	17
Denmark	Gavno	1992	15300	J	17
Denmark	Guldborgsund	1992	10080	J	17
Denmark	Mariager Fjord	1991	8550	J	17
Denmark	Fynske Soer	1995	8225	J	17
Denmark	Tystrup-Bavelse So	1999	8150	J	17
Denmark	Skaelskor + Borreby	1993	7500	J	17
Denmark	Sandbjerg Soer + Grasten	1998	6200	J	17
Denmark	Helses Bugt	1992	6010	J	17
Denmark	Nakskov Inderfjord	1995	5500	J	17
France	Cours Du Rhin (67 / 68)	1990	28931	J	17
France	Bassin Du Leman	1993	19823	J	17
France	La Camargue	1991	8100	J	17
France	Haut Rhône (01 / 73 / 74)	2002	7266	J	17
France	Complexe De L'Etang De Berre	1998	6309	J	17
Georgia	Black Sea Coast: Ureki – Poti		7150	J	17
Germ./Switz./Aust.	Bodensee Gesamt	1996	82542	J	17
Germany	Wismar-Hohen Wieschendorfer Huk	1993	50000	J	17
Germany	Donau: Km 2246-2405	1992	25567	J	17
Germany	Großer Plöner See	1995	23660	J	17
Germany	Seehof-Wittower Fähre-Breetzer Bodden	1996	19000	J	17
Germany	Wendisch Langendorf-Barth	2002	12200	J	17
Germany	Rassower Strom Und Wieker Bodden	1994	12097	J	17
Germany	Sehlendorfer Binnensee	1996	11500	J	17
Germany	Usedomer Brücke-Lassan	1992	10890	J	17
Germany	Rhein: Nonnenweier-Kehl	1991	10826	J	17
Germany	Neuendorfer Wiek	1991	10810	J	17
Germany	Stralsund-Barhöft	2000	10391	J	17
Germany	Salzhaff	2002	10150	J	17

Table 1 continued: Tufted Duck *Aythya fuligula*

Country	Sitename	Year	Count	Type	Ref.
Germany	Brodterer Ufer: Niendorf-Travemünde	1996	9960	J	17
Germany	Strahlbrode-Stralsund	1992	9272	J	17
Germany	Schweriner See Außensee (W)	2001	9160	J	17
Germany	Unterwarnow Und Breitling	1993	9100	J	17
Germany	Rhein: Breisach – Nonnenweiher	1990	8700	J	17
Germany	Starnberger See	1996	8682	J	17
Germany	Prora-Saßnitz	1993	8586	J	17
Germany	Einzugsgebiet Ammer: Ammersee	1991	8310	J	17
Germany	Königsstuhl-Glowe	1996	8200	J	17
Germany	Ostbucht Des Fehmarnsundes: Sundbrücke-Großenbroder Kai	1997	8109	J	17
Germany	Schlei: Maasholm-Kappeln	1996	7250	J	17
Germany	Rhein Bei Wiesbaden-Amöneburg (Rhein-Km 501.3-502;5)	1995	7176	J	17
Germany	Neustädter Bucht: Neustadt-Scharbeutz	2002	6800	J	17
Germany	Rhein: Weil-Breisach	2002	6537	J	17
Germany	Küste Der Probstei: Laboe-Bottsand	2002	6500	J	17
Germany	Meiningen-Neuendorf	1991	6350	J	17
Germany	Ost- Und Südostküste Fehmarns: Puttgarden-Staberhuk	1997	6123	J	17
Germany	Greifswalder Bodden: Neu Reddewitz-Klein Zicker	2000	6050	J	17
Germany	Plauer See	1990	6000	J	17
Germany	Großer Jasmunder Bodden (E): Lietzow - Sagard - Spycyberscher & Mi	1991	5824	J	17
Germany	Insel Hiddensee (O)	1995	5781	J	17
Germany	Westensee	1992	5650	J	17
Germany	Ostbucht Des Fehmarnsundes: Burger Binnensee	1996	5450	J	17
Germany	Traveförde: Priwall (Pötenitzer Wiek)	2002	5250	J	17
Germany	Traveförde: Dassower See	1993	5176	J	17
Germany	Schweriner See (SW)	2002	5140	J	17
Germany	Meiningen-Pramort	1994	5120	J	17
Germany	Boddengewässer Waase - Gingst – Seehof	1995	5000	J	17
Germany	Saßnitz-Königsstuhl	1997	5000	J	17
Greece	Lakes Mikri And Megali Prespa (Greek Part)	1995	7008	J	17
Greece	Volvi	1990	5490	J	17
Iran	Urmiyeh (Uromiyeh) Lake:: Total	1997	16744	J	17
Iran	Caspian Coast (Gilan): Anzali- Astara	1998	5327	J	17
Iran	Miankaleh W.R. & Gorgan Bay: Miankaleh Protected Region	2003	5050	J	17
Israel	Valley Of Yesreel	2000	10478	J	17
Kazakhstan	North Caspian Coast total	2003	7200	S	17+23
Macedonia	Lake Prespa (Greek Part)	1990	5500	J	17
Netherlands	Markermeer	2000	28745	J	17
Netherlands	Ijsselmeer	1992	28734	J	17
Netherlands	Gooimeer	1995	15235	J	17
Netherlands	Waterland	1990	15068	J	17
Netherlands	Ketelmeer	1995	12370	J	17
Netherlands	Hollands Diep	1996	11072	J	17
Netherlands	Biesbosch	1996	10366	J	17
Netherlands	Haringvliet	2001	9630	J	17
Netherlands	Fluessen En Heegermeer	2000	9076	J	17
Netherlands	Wolderwijd	2000	8143	J	17
Netherlands	Nieuwe Waterweg / Calandkanaal	1997	7349	J	17

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Country	Sitename	Year	Count	Type	Ref.
Netherlands	Veluwemeer	2000	6955	J	17
Netherlands	Volkerakmeer	1996	6941	J	17
Netherlands	Eemmeer. Nijkerkernauw En Nuldernauw	2001	5935	J	17
Netherlands	Gelderse / Brabantse Maas	1996	5291	J	17
Netherlands	Noordzeekanaal	2002	5054	J	17
Poland	Jez. Dabie	1993	33275	J	17
Poland	Zat. Gdanska	1996	17898	J	17
Poland	Zalew Szczecinski	1993	8890	J	17
Poland	Wisla: Ujscie (Mouth)	1994	7122	J	17
Romania	Chituc (Vadu-Periboina)	1993	80000	J	17
Romania	Gr. Buhazu (Vadu)	1997	10600	J	17
Romania	Periteasca-Portita (244402911 + 244402912)	1990	8000	J	17
Romania	Gura Portitei-Gr.Periboina	1997	6650	J	17
Romania	N. Eforie-S. Eforie	1997	6200	J	17
Romania	Black Sea Coast. 12 Sites(30 Km)	1996	5810	J	17
Romania	Delta Dunarii (Danube Delta)	1994	5468	J	17
Romania	Portile De Fier Reservoir (Romanian Part)	1998	5076	J	17
Romania	Mamaia	1997	5000	J	17
Russia	Kiziltashsky Liman Complex		47218	J	17
Russia	Caspian Sea: Manas Sea-shore		11542	J	17
Russia	Sea of Azov: Tamansky Bay		11515	J	17
Russia	Caspian Sea: Derbent Sea-shore		10000	J	17
Russia	Volga Delta	1991	7100	J	17
Russia	Neman River delta		50000	S	35
Russia	Kyzlyar Bay		5000	S	7
Slovakia	Hrusov Dam From Dunaj'S Mouth To Cunovo	1999	11618	J	17
Sweden	Väderön.35	1994	10500	J	17
Sweden	S. Knösö153	2000	10050	J	17
Sweden	Tromtövikén.102	1998	9750	J	17
Sweden	Almöfjärden.99	2001	8445	J	17
Sweden	Storgrundet.325	1991	8000	J	17
Sweden	Åspö.293	1997	7500	J	17
Sweden	Muskö: Åsvik.15	2002	7400	J	17
Sweden	I. Grankullavik.28	2002	7200	J	17
Sweden	Elleholm.3	1996	7000	J	17
Sweden	Östra Himmerfjärden.	1994	7000	J	17
Sweden	S. Torö.8	1996	7000	J	17
Sweden	Rosenholmsviken.97	2000	6900	J	17
Sweden	Järnaviks Hamn.66	1997	6690	J	17
Sweden	Falsterbo Kanal.16	2002	6200	J	17
Sweden	Karlskrona.9	2001	6090	J	17
Sweden	Fittjö-Saltvik.305	1996	6000	J	17
Sweden	Inre Kapellhamnsviken.5	1996	6000	J	17
Sweden	Klinthamnsviken.8	2000	6000	J	17
Sweden	Nötefjärden.321	1998	6000	J	17
Sweden	Y. Grankullavik.27	1998	6000	J	17
Sweden	N. Drag.97	1994	5400	J	17
Sweden	Aspan.107	1996	5035	J	17
Sweden	N. Kvalmsö.94	1993	5030	J	17

Table 1 continued: Tufted Duck *Aythya fuligula*

Country	Sitename	Year	Count	Type	Ref.
Sweden	Kapellskär.37	1997	5000	J	17
Sweden	Nynäshamn.9	1996	5000	J	17
Sweden	V. Torö.	1997	5000	J	17
Switzerland	Lac De Neuchâtel	1994	58912	J	17
Switzerland	Lac Léman-Ch	1990	37032	J	17
Switzerland	Rhône: En Aval De Genève	2002	14910	J	17
Switzerland	Vierwaldstättersee	1994	12388	J	17
Switzerland	Hochrhein: Rheinklingen-Aaremündung	1993	12227	J	17
Switzerland	Bielensee	1996	8868	J	17
Switzerland	Zürichsee	1994	7833	J	17
Switzerland	Hochrhein: Aaremündung-Basel	1993	6052	J	17
Syria	Qattine	1995	10000	J	17
Turkey	Hirfanli Baraji	1996	14550	J	17
Turkey	Uluabat Golu (Apolyont Golu)	1996	13600	J	17
Turkey	Egridir Golu	1999	12470	J	17
Turkey	Giresun-Ünye Black Sea	1997	10775	J	17
Turkey	Hoyran Golu	1990	9920	J	17
Turkey	Sapanca Golu	1995	5670	J	17
Turkmenistan	Lake Sarykamysh	2003	22190	J	17
Turkmenistan	Caspian Coast: Keymir Shore	2004	22000	J	17
Turkmenistan	Caspian Coast: Guyjuk-Okarem	1998	21220	J	17
Turkmenistan	Caspian Coast: Okarem-Cheleken	1998	17317	J	17
Turkmenistan	Caspian Coast: Guyjuk Shore	2004	15000	J	17
Turkmenistan	Caspian Coast: Chikishlyar Shore	2004	10132	J	17
Turkmenistan	Krasnovodsk & North-Cheleken Bays	1991	6820	J	17
Ukraine	Sasyk Liman + Adjacent Sea Area	2000	20000	J	17
Ukraine	Dzansheisky. Shagany; Alibey; Burnas Limans	1995	14000	J	17
Ukraine	Budaksky Liman	2000	10000	J	17
Ukraine	Unknown	1993	10000	J	17
Ukraine	Area Northeast Of Odessa	1998	7000	J	17
Ukraine	Black Sea State Biosphere Reserve	1990	5300	J	17
United Kingdom	Loughs Neagh & Beg	1996	25340	J	17
Uzbekistan	Tuyabuguz Reservoir	2004	7016	J	17
Yugoslavia	Skadarsko Jezero	1993	40000	J	17

Footnote

The “type” column indicates the type of count by codes, as follows: J: January count; M: Count of moulting concentration; S: count at a staging area on migration; B: Count at breeding site.

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