Guide (short version)

Names and illustrations of species

The species' Norwegian, English and scientific names are given. The systematic sequence and the English names follow The Bird List 2000 published by the British Ornithologists Union (BOU 2000).

Species text

For most species the presentations consist of text comprising a short introduction about the distribution of the species, its food, information on ringing data and recovery data, and also one or more sections on migration and other kinds of movements.

Introduction describes the national and global distribution of the species, its population trend in Norway, and its food and choice of habitat. Finally the population size and possible changes in the same are described.

Ringing data gives a short description of the ringing activity in the period 1914-1999, with emphasis on information not already given in other tables and figures.

Recovery data summarizes the distribution of recoveries, nationally and globally. Then follows a description of the most important causes of death registered for the species.

Migration pattern based on recovery material for the species is given for the different seasons. To the extent that the material allows, the text describes autumn migration and wintering areas, together with spring migration and summering areas. The text is brief, and is intended to be a supplement to the maps and other figures. The figures and the text are related, but normally there is no reference to the figures and maps in the text.

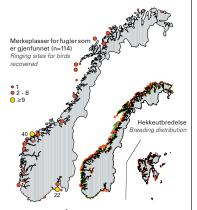
Ringing and breeding maps

For each species two maps of Norway are shown to the right of the species illustration. For some arctic species the maps of ringing and breeding are also shown for Svalbard. The maps show the ringing sites for recoveries (1:15 000) and for breeding distribution in Norway and Svalbard $(1:25\ 000).$

The ringing data are aggregated into squares of 40x40 km, and the total numbers in each square are indicated by three different circular symbols of increasing size. The intervals are adjusted in relation to the number of ringing instances for the species. The two smallest circles are red, and the intervals are shown in the explanation of the symbols. The largest circle is yellow, and for these the number of birds ringed within the square is always shown

The map showing breeding distribution is always placed to the right of the ringing map. The colour codes used are red for confirmed breeding, yellow for probable breeding and green for possible breeding.

Teist Cepphus grylle Black Guillemot



Teisten hekker langs hele norskekysten, men er fåtallig i Sør-Norge. I tillegg mangler arten i de indre delene av enkelte fjorder. På Svalbard hekker teisten på store deler av øygruppen. Dietten består for det meste av fisk, krepsdyr og bløtdyr som i hekketiden fanges på grunt farvann, vanligvis innenfor fire km fra koloniene.

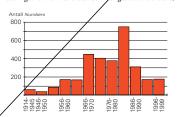
Arten er sirkumpolar i arktiske farvann. I Atlanterhavet hekker arten fra 43° til 80°N. Teist er sannsynligvis den av alkefuglene som kan påtreffes lengst mot nord.

Fordi teisten legger reiret skjult i fjellsprekker øler under steiner, er arten vanskelig å telle og oveyvåke.

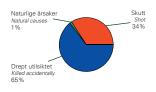
under steiner, er arten vanskelig å telle og overvåke. Arten hekker ofte i kolonier, men kolonier med mer enn 1000 par forekommer bare unntaksyl i Norge. Bestanden nord for polarsirkelen, inklusert Svalbard, er anslått til ca. 50 000 par (Lorentser) & Pokrovskaya 2000). Til tross for mangefull bestandsovervåking, er det ingen tvil om at bestanden har gått sterkt tilbake,

og enkelte søder er arten helt borte. En viktig årsak til tilbakvangen er sannsynligvis at villminkens utbredekesområde har økt (Folkestad 1982). Verdønsbestanden er anslått til 350 000 par (Lloyd n.J. 1991). Merkedata
Ringmerking av teist i Norge har foregått i alle periodene fra 1914 og fram til og med 1999. Det ble ringmerket flest i perioden 1981-1985 under det nasjonale Sjøfuglprosjektet 1979-1984 (Røv 1984).

Open foreligger gjenfunn fra perioden 1936 til 1998, og nesten 70% av gjenfunnene ble rapportert på 1960- og 1970-tallet. Mindre enn 2% av gjenfunnene



Merkinger fordelt på ulike tidsperioder (n=3179).



Dødsårsaker hos fugler rapportert døde (n=82).

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Ringing activity and causes of death

For ringing data a histogram is shown indicating ringing activity in the period 1914-1999. This is divided into fiveyear periods, except for the first period, 1914-1945.

Reported causes of death are presented as a pie-chart. Only birds reported dead are included, while recoveries where the cause of death is unknown are omitted from the selection. The causes of death are divided into four groups: birds shot (red colour), killed but not shot (yellow), killed accidentally (blue) and natural causes (green). This division is in accordance with the coding system defined for the Norwegian ringing data format.

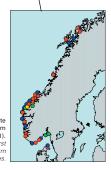
Recovery maps

The distribution of the recoveries is shown as elemental recoveries, recovery areas (kernel polygons), mean positions and county/country distribution. This division is always in whole months, and is shown as a season wheel. The breeding period for the species is shown



merkeplassene rapportert i første leveår mer enn 200 km fra merkeplassene (n=15). Recoveries with traces from the ringing sites reported in the first year of life more than 200 km away from the ringing sites.

Gjenfunn rapportert i første leveår nærmere enn 200 km fra merkeplassene (n=51). Recoveries reported in the first year of life less than 200 km from the ringing sites.



er rapportert om ringmerkede teist som er skutt siden 1981.

ble rapportert på 1990-tallet. Merkeplassene med flest gjenfunn er øygruppene Bølene i Vestfold og Grasøyane i Møre og Romsdal, med henholdsvis 18% og 32% av gjenfunnene.

Bare 11 individer (10%) er gjenfunnet utenfor Norge, henholdsvis i Danmark (6), Sverige (4) og Frankrike (1). I Norge er flest gjenfunnet i Møre og Romsdal (37%) og Nordland (12%).

Den viktigste dødsårsaken for fuglene som er rapportert døde er drukning i fiskegarn (50 fugler [61%]). Bifangsten har forekommet langs hele kysten, og også gjenfunn fra Sverige (3) og Danmark (1) er

og også gjenfunn fra Sverige (3) og Danmark (1) er rapportert som gandrepte. En relativt stor andel (34%) av fuglene er rapportert skutt, men denne dodsårsaken er sannsynligvis ikke lenger viktig, ettersom det ikke

Prosent Percent

Fordeling på 0 10 20 30 40 50 60 70 80 90 100 leveår (per 1. juli) for fugler merket som unger og 1K rapportert døde (n=103). (as of 1 July) of g recoveries of birds ringed as young and 1 cy reported as

Gjenfunnsfakta Recovery facts:

Totaler Totals:		
Antall ringmerket Number ringed		3179
Gjenfunn, alle Recoveries, all		121
Gjenfunn, brukt Recoveries, used		114
Gjenfunnede individer	114	(3,6%)
Recovered individuals		
Gjenfunn merket som reirunger		113
Recoveries ringed as nestlings		

Kontrollert levende Controlled live 1 (0.9%) Rapportert døde Reported as dead 113 (99,1%) 103 (90,4%) Funn i Norge Recoveries in Norway Funn i utlandet Recoveries abroad

Giennomsnitt Means:

d, alle *Interval, all* Tid, reirunger Interval, nestlings 1 år 0 mnd (n=80) Avstand, alle *Distance, all* 167 km (n=81) Avstand, reirunger *Distance, nestlings* 168 km (n=80)

Høyeste alder Oldest bird 15 år 11 mnd Høyeste hastighet Highest speed Lengste avstand Longest distance 25 km/d 1456 km Sørligste gjenfunn Frankrike (48°46'N) France (48°46'N)

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Age distribution

The figure shows the time elapsed from ringing to recovery of birds reported dead and ringed as nestlings or juveniles (1cy). The first year of life is defined as time from hatching to July 1st the next year, the second year from July 1st to the following year, and so on. The selection does not include recoveries where the date is less exact than three months. Recoveries where the circumstances of the finding are entirely unknown, or where the bird was not newly dead, are also excluded. The figure is divided into 15 yeargroups, the last of these including all birds in their 15th year of life or older. The figure gives a good indication of survival in the different species, and how old they can get.

in green, the autumn period in red, the winter period in blue and the spring period in yellow. If the recovery has a less exact date than 14 days, it is indicated by a white circle. In addition to the recovery positions there may be shown lines to the ringing sites, which can also be marked with black dots.

Recoveries can also be shown as recovery areas (kernel polygons). These give a density distribution of the recoveries. Two types of polygons are shown: red shading shows the areas where there is a 50% probability of finding a given recovery, similarly blue shading shows 95% probability.

Mean positions. There must be at least three recoveries within a period in order to compute a mean position. The mean positions are computed only on the basis of recoveries that have an exactness of date of two weeks or better.

County/country distribution shows the number of recoveries reported from Norwegian counties and from abroad. The maps also show the percentages of birds that, for example, were shot within the county/country. The scale is in four intervals: 1-25%, 26-50%, 51-75% and 76-100%.

Facts-capsule

The facts-capsule consists of three main groups: totals, means and extremes.

Totals: Number ringed comprises all ringed birds. Recoveries all shows the total number of recoveries in the material, while recoveries used is the number of recoveries in the presentation. The number of recovered individuals is the number of different individuals that have given recoveries. In addition a recovery percentage is shown. Where relevant the number of recoveries of birds ringed as nestlings, recoveries ringed as nestlings, is given. Under controlled live and reported as dead we find in these two groups the total number of recoveries in the material. We also find the distribution of the whole material (the total number of recoveries) in recoveries in Norway, recoveries at sea, and recoveries abroad.

Means shows the mean time and distance from ringing to recovery in number of years/months and kilometres. Mean time from ringing to recovery and distance are shown for all recoveries included in the selection (interval, all, distance, all), also distributed among nestlings, 1 cy birds and older if the material

Extremes: Oldest bird is found among recoveries of dead birds with date accuracy ± two weeks or better (i.e. within one month). Longest distance specifies the bird found furthest from the ringing site. In searching for southernmost, northernmost, easternmost or westernmost recovery, a check is made to determine whether transport could have had some effect.