

European Red List of Birds

Compiled by BirdLife International











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Introduction





Martin Harper Regional Director, BirdLife Europe and Central Asia

The goal of nature conservation is to keep common species common, to prevent threatened species from becoming extinct and to ensure that humans continue to benefit from the services that nature provides; such as pollination, clean water, flood protection, a stable climate, recreation and inspiration.

By assessing the extinction risk of all 544 wild bird species in Europe, this update to the European Red List shows how we are doing in meeting this ambition by using birds as the most visible and best studied indicators of biodiversity.

Like so many recent reports about the state of nature, the headlines do not make for comfortable reading. Nearly one in eight European bird species are threatened. The groups of species most at risk are seabirds, wildfowl, waders and raptors; but our analysis shows renewed concern about declining trends in the populations of migratory birds, especially long-distance migrants, farm/grassland species and potentially forest birds. It is alarming to see the status of iconic species like Demoiselle Crane, Common Swift and even Rook deteriorate alongside declines in the population of most larks, shrikes and buntings.

The results demonstrate that we are failing to manage our land, freshwater and seas sustainably. We want and need Europe to lead the world in restoring nature, but for that to happen, nothing short of a transformation to our economies

This transformation must begin NOW, in what the UN has called the Decade of Ecological Restoration. This is essential for our region to fulfil its new international obligations under the Convention on Biological Diversity, which (in its current draft of the global biodiversity framework) is setting a new milestone for extinction risk to be "reduced by at least 10 percent, with a decrease in the proportion of species that are threatened, and the abundance and distribution of populations of species enhanced or at least maintained."

While the headlines in the new Red List are stark, we should feel optimistic that we can make things better, because within the report, there is some good news. The improved status of Red Kite and Azores Bullfinch – two remarkable conservation success stories - shows that targeted approaches to species recovery can work; while interventions such as well-designed agri-environment schemes can provide a lifeline to threatened species like Corncrake. Yet, this optimism must be conditional on governments, businesses and civil society playing their part

Governments across Europe need to translate the new global ambition to restore nature into legal targets, backed up by the right policies and funding. Businesses must find new ways to be nature positive, ensuring that their commercial activity improves the state of biodiversity. Civil Society, including BirdLife International Partners, must continue to champion urgent action but also be prepared to take practical steps to help recover threatened species.

The results from this report (and other resources such as the new European Breeding Bird Atlas or the Common Bird Monitoring Scheme) should help decision-makers and will inform the development of a new list of Species of European Conservation Concern to help prioritise future conservation effort. More than that, we hope that it serves as a catalyst for more people and organisations to take action to help Europe's birds.

In future European Red Lists, we want to be able to report a reduction in the number of species at risk of extinction, but to do that, we all have to change the way we think and act.

Foreword





Micheal O'Briain

Deputy Head of the Nature Unit, DG Environment, European Commission

Ever since Rachel Carson's 'Silent Spring' the role of wild birds as key indicators of the state of our environment has become increasingly recognised. Monitoring bird populations is essential to review the progress made towards achieving conservation goals, address gaps in knowledge, and define priorities for conservation action.

BirdLife International's latest updated European Red List of Birds provides a critical assessment of the health of Europe's birds. Based on data gathered in over 50 countries and territories, this major compilation and synthesis of knowledge, much of it undertaken by volunteers, reveals that we are still experiencing the loss of nature across our continent. It is particularly important in determining the risk of extinction, revealing that 13% of European birds are threatened with extinction with another 6% Near Threatened. Of 544 species assessed 30% of them are showing a decreasing trend.

How can we still be facing such a continued erosion of nature given that we have strong legislation for the conservation of birds and other wildlife in Europe since 1979? The EU Birds and Habitats Directives, the Bern Convention on European Wildlife, the Convention of Migratory Species and the Agreement on the Conservation of African-Eurasian Migratory Waterbirds all provide a valuable framework for co-operation and action to conserve species, sites and habitats.

However, despite some significant achievements in European conservation, especially in setting up the Natura 2000 network of protected areas, there are still major shortcomings in the implementation of nature legislation. Conservation action is frequently lacking or incomplete and not taking place at the necessary scale to address the key pressures and threats that wild birds are facing. These include land use changes, particularly linked to agriculture, as well as urbanization, forestry, alterations to freshwater habitats, pollution, overexploitation and illegal killing and invasive alien species, all of which negatively affect nature. On top of all these problems, climate change is emerging as a key threat to the future of our avifauna.

Is there any basis for optimism? We know that targeted action does halt and reverse the decline of species. There are inspiring success stories in Europe with emblematic species such as the Bittern, Griffons Vulture and Red Kite all showing recovery

in areas where they have benefitted from conservation action, frequently supported by initiatives such as the EU LIFE programme. There is now also a much greater public appreciation of the fact that the climate and biodiversity crises are closely interlinked and that restoring our natural capital is essential for economic prosperity and human wellbeing.

This is reflected in renewed commitments for the recovery of nature, including the UN declaring the 2020's as the decade on ecosystem restoration to heal our planet. The EU Biodiversity Strategy for 2030 has set ambitious targets, including extending legal site protection to at least 30% of the EU's land and sea area, 10% of which should be strictly protected, with all of the sites to be under effective management. It also commits to ensuring that by 2030 there is no further deterioration in any habitats and species listed in the Nature Directives and that there is a positive strong trend for at least 30% of those in poor or bad state. A new EU Nature Restoration legal instrument is under preparation, which should provide a major impetus to the restoration agenda in the coming years. Hopefully, these initiatives will inspire similar commitments for the recovery of nature elsewhere in Europe and at global level.

Translating ambitious targets for the recovery of nature into effective action will require very significant human and financial resources over the coming years. Realising the full potential of existing nature and other environmental legislation will be central to success. However, as recognised in the EU Green Deal there is also an urgent need for a fundamental shift in the way we live, particularly in our production and consumption patterns. The attainment of biodiversity and climate objectives will need to be embedded into all relevant policy sectors. There are great opportunities to transition to a just and fair green economy but this will require fully engaging business and other key stakeholder groups such as farmers, foresters and fishers, which affect land and water use across Europe.

As revealed by Eurobarometer surveys that gauge public opinion, European citizens want and expect us to succeed in halting and reversing the loss of biodiversity. This new Red List of Birds provides a vital baseline to assess future progress towards restoring the health of our shared natural heritage.

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Executive summary

The European Red List of Birds is a review of the regional extinction risk of all 544 species of birds occurring regularly and naturally in Europe. The assessment, performed by BirdLife International for the fourth time (1994, 2004, 2015 and 2021), follows the IUCN Red List Categories and Criteria applied at regional level. Evaluating the extinction risk of each species – i.e., Least Concern, Near Threatened or threatened, and if the latter, to what level - helps to inform decision making, shaping national and international environmental policies and on-the-ground conservation action.

The results presented in this report¹ are based on data collated by thousands of experts and volunteers from 54 countries and territories across Europe, extending from Greenland, Iceland and Svalbard in the North to the Canary Islands, Malta and Cyprus in the South, and from the Azores in the West to the Caucasus and Ural Mountains in the East. Additional sources such as scientific reports, national atlases and Red Data Books, as well as peer-reviewed literature were also used to make sure the most recent data available were used. The data, compiled in 2019, encompass the 1980-2018 period.

At the European regional level, 13% (71 species) of bird species are threatened, with approximately 2% (8 species) Critically Endangered, nearly 3% (15 species) Endangered, and nearly 9% (48 species) Vulnerable. A further 6% (34 species) are considered Near Threatened, while five species are considered Regionally Extinct. Changes between Red List categories since the previous assessment in 2015 were recorded for 84 species, of which 37 species were classified in a higher extinction risk category and 47 in a lower category. Most of these changes are due to genuine deterioration or improvement in the species populations, while a smaller proportion are related to artefacts, e.g., due to changes in the methodology of field data collection, calculation of trend values, or previous under- or overestimation of population size. Another 13 species have been assessed for the first time due mainly to taxonomic changes.

Seabirds, wildfowl, waders and raptors each have the highest proportion of threatened and Near Threatened species per taxonomic group, along with smaller groups such as kingfishers, bustards and grebes. When looking at trends, over 40% of wildfowl and wader species, over 30% of seabirds, as well as 25% of raptors, are experiencing population declines. Relatively high proportions of declining trends are also observed among migratory birds, with 121 species considered sub-Saharan migrants (of which 33% have declining trends), compared to species that are migratory but do not migrate as far as sub-Saharan Africa (of which 31.5% have declining trends).

A comparison between main habitat types in Europe shows that farmland and grassland, as well as marine habitats, have the highest number of associated threatened and Near Threatened species. This is supported by the fact that approximately 30% of species associated with these habitats have a decreasing trend. Among species associated with forest habitats, those with decreasing, stable, increasing and unknown trends share a quarter of the total each. Rocky habitats like inland cliffs and mountain peaks have the highest proportion of species with unknown trends (more than 50%), and a third of all species associated with marine habitats and shrubland also have unknown trends.

Despite having an exceptional history of data collection and environmental surveillance, Europe's knowledge base on birds still has a lot of room for improvement. Good cooperation between governments, organisations and institutions, as well as coordinated international efforts in research and bird monitoring, supported by the availability of dedicated resources, are essential to successfully inform and address conservation issues across the continent. The models of the legal mechanisms (e.g. reporting under art. 12 of the Birds Directive) and financial mechanisms (e.g. LIFE Programme) of the European Union play a crucial role in this process.

The results confirm the overall conclusions found in other studies. Large scale land use change, the intensification of agricultural practices, the development of infrastructure, the overexploitation of marine resources, the pollution of inland waters and unsustainable yet commonly used forestry practices are the main drivers of bird population declines observed in European habitats. Ongoing population declines and range contractions in widespread species of open habitats – like larks, shrikes and buntings – clearly demonstrate the impact of disappearing mosaic landscapes and the increased use of agricultural chemicals. Although some raptor species have made recent population recoveries due to legal protection and targeted conservation activities, many raptor species dependent on open habitats (e.g. grassland and shrubland) for prey are still in decline. In the marine environment, birds suffer from bycatch and incidental killing (due to fishing and hunting activities), as well as invasive non-native species, disturbance and water pollution (originating from both land and sea). Many species of birds are legally hunted across Europe, while millions die every year from illegal killing.

In addition to these threats come the unpredictable effects of climate change on species populations. Current knowledge suggests that for certain species climate change is or will be a major drive for range shifts, while for others it may significantly increase their extinction risk.

¹ Also available on http://datazone.birdlife.org and https://www.iucnredlist.org.



Examples of successful species and habitat recovery can be found across Europe. The decline of many widespread and common species (bird species, but also species in other taxonomic classes such as butterflies and other pollinating insects) signals, however, a problem of a much larger scale: a systemic issue in the functioning of ecosystems caused by a diverse array of human-induced changes.

Future conservation efforts in Europe should not only focus on action locally, but also seek to deliver more fundamental change at a bigger scale. Collaboration between decision-makers and conservation practitioners needs to be expanded while securing greater involvement from consumers, producers, landowners and other businesses.

The European Union commits to fight the intrinsically linked biodiversity and climate crises with its 2030 Biodiversity Strategy, as part of the Green Deal, for the broader European continent and the world. At the heart of the Strategy lie ambitious plans to protect nature through a coherent and extended network of well-managed protected areas, the restoration of biodiversity and the reduction of the environmental footprint of production (e.g. of food, timber or energy). To avoid actions that are

only implemented on paper, these policies need to be legally binding, have clear guidance criteria and be actively enforced. In addition, urgent action is needed to reform agricultural, fisheries and forestry policies, mainly through legal obligations but also through incentives, to safeguard biodiversity. International agreements and coordinated efforts remain crucial in all aspects of the protection and restoration of the natural environment, but particularly in the sustainable use of marine resources, the conservation of migratory birds at a flyway scale, and to tackle the climate crisis.

Ultimately, as humans, we depend on a healthy natural environment (including irreplaceable services and functions such as the provision of clean water, pollination of crops, flood protection, and a stable climate; which are also necessary for our recreation and well-being). Without the services provided by the natural environment, our health, society and economy would not hold up. Therefore, it is important to understand that investing in nature pays off, not just to the habitats and species that are being protected, but also to us as individuals, to governments and to society as a whole.

1.

Background

1.1 The European context

Europe, with its 10.18 million km² (approximately 7% of Earth's land surface), offers suitable habitats for over 70 bird taxonomic families comprising over 540 species (approximately 5% of the global avifauna). A fifth of these species are endemic or near-endemic to the region. Birds are an important part of European biodiversity. They fulfil specific roles within the diversity of ecosystems, and their status has been recognised as a good indicator of the state of the natural environment. Therefore, knowledge about birds can help us identify, predict and understand changes, and take adequate action to prevent the loss of biodiversity and valuable resources derived from nature.

The European landscape has been continually shaped and modified by humans over thousands of years. With the historical expansion of people, habitats have gradually transformed from natural wild areas to settlements, roads, managed woodland, rivers and lakes, farmed land and pasture. With these alterations, there has come a change in the bird communities present (e.g., species that would have naturally favoured grassland and woodland edge habitats as new opportunities emerged have become relatively more abundant; whereas species dependent on habitats and features that were not present in towns and farmland (such as forest- or wetland-dependent species) have been gradually displaced).

However, the rate of global change in nature during the past 50 years is unprecedented in human history². Inevitably, many species populations have declined dramatically. For example, birds of prey like the Red-footed Falcon (*Falco vespertinus*) have suffered from significant deterioration in their food supply due to the massive use of pesticides in agriculture³, adding to other threat factors such as persecution and infrastructure intensification.

Species monitoring has been indispensable in understanding these drivers of decline over time, and have contributed to the assessment of species' risk of extinction. As a result, informed decisions to undertake conservation actions like legal protection, ceasing the use of certain chemicals, or creating new nesting opportunities for birds have resulted in halting declines in certain species (e.g., Peregrine Falcon (*Falco peregrinus*) or Red Kite (*Milvus milvus*)).

1.2 Red Lists

The European Red List of Birds is a review of the regional extinction risk of all species of birds occurring regularly and naturally in Europe. It is part of the IUCN Red List of Threatened Species, which aims to evaluate the extinction risk of each species™, which then helps to inform decision making, the shaping of national and international environmental policies and on-theground conservation action. The IUCN Red List is used as a critical indicator of the health of the world's biodiversity. It is often used as a guide to revise the annexes of some important international agreements, such as the Convention on International Trade in Endangered Species (CITES) and the Convention on Migratory Species (CMS), or to measure the progress towards achieving international biodiversity and sustainable development goals (SDGs). Data from the IUCN Red List are also used to calculate the Red List Index (RLI), which is one of the biodiversity indicators used by the Convention on Biological Diversity (CBD). For instance, Milestone 2b, aims to ensure that "the increase in the extinction rate is halted or reversed, and the extinction risk is reduced by at least 10 percent, with a decrease in the proportion of species that are threatened, and the abundance and distribution of populations of species is enhanced or at least maintained".

- 2 https://ipbes.net/global-assessment
- 3 Ferguson-Lees, J.; Christie, D.A. 2001. Raptors of the World. Christopher Helm, London.

Along with assessing the risk of species becoming globally extinct, it is also important to assess species' extinction risk at regional and national levels, where conservation policy is more often established and implemented. The European Red List of Birds is a regional Red List assessment initiated by BirdLife International in 1994. Since then, updates have been published in 2004 and 2015, with the 2021 update being the fourth one. The results of the European Red List of Birds are used to inform de-

cision-making across the region, set up biodiversity protection targets (e.g., at national level, or as part of the EU Biodiversity Strategies to 2020 and 2030), and identify priorities for further research and conservation (e.g., for threatened species). The European Red List of Birds is the baseline for assessing their conservation status as European Species of Conservation Concern (SPECs)⁴.



⁴ https://www.birdlife.org/sites/default/files/attachments/European%20Birds%20of%20Conservation%20Concern_Low.pdf

Methodology

2.1 Red List assessment process

The European Red List of Birds assessment follows the IUCN Red List Categories and Criteria (version 3.1, second edition)⁵ as well as the Guidelines for Using the IUCN Red List Categories and Criteria (version 14, August 2019)⁶. The extinction risk of a species can be assessed at global, regional or national levels. It is quite common for a species to be listed in different Red List categories on the global IUCN Red List and a Regional Red List. For example, a species that is common worldwide and classified as Least Concern on the IUCN Red List may face a high level of threat in a specific region and therefore be listed as Endangered in that region (see Figure 1 for the explanation of the IUCN Red List Categories). To avoid under or overestimating a particular species, the Guidelines for Application of IUCN Red List Criteria at Regional and National Levels (version 4.0)⁷ are applied.



- 5 https://portals.iucn.org/library/node/10315
- 6 https://www.iucnredlist.org/resources/redlistguidelines
- 7 https://www.iucn.org/content/guidelines-application-iucn-red-list-criteria-regional-and-national-levels-version-40

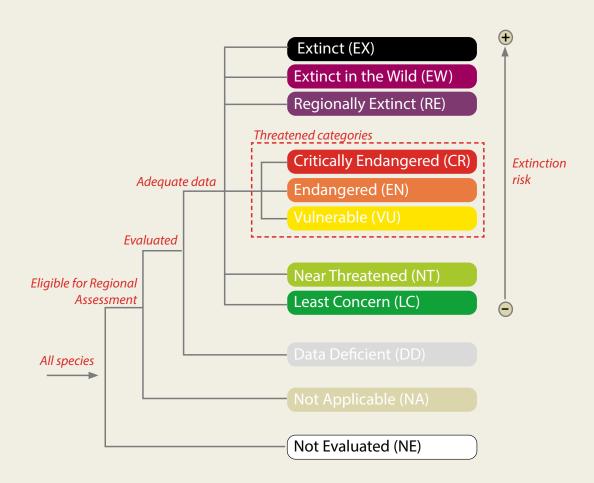


Figure 1. IUCN Red List Categories at a regional scale

The assessment is based on data reported by the 28 Member States of the European Union (EU)⁸ under Article 12 of the EU Birds Directive, as described in the State of Nature in the EU –Methodological paper⁹, as well as national reports from 22 countries and territories in Europe which are not part of the EU. The latter were collated by BirdLife International through national experts, coordinators of bird monitoring programmes and organisations, including BirdLife International Partners and many others. The reports were submitted in 2019-2020 and included information on the size and trend of populations and distributions of individual bird species. Additional sources such as scientific reports, national atlases and Red Data Books, as well as peer-reviewed literature were also used to make sure the most recent data available were considered.

The national data were combined to produce overall pan-European population sizes and trends for each species. For population sizes, the reported minimum and maximum population size data across countries were summed to calculate the overall

minimum and maximum value. In addition, the best estimate was used if provided, and if not, the geometric mean of each population size was calculated and used as a best estimate of population size where appropriate. All European countries were requested to use the same population unit, which was breeding pairs for most breeding birds, (except for a minority of taxa with unusual or complex breeding biology or cryptic behaviour, for which other units, such as calling or lekking males, were used), and individuals for birds in winter (non-breeding season). For population trends, data from all countries were combined, weighting each country's contribution according to the size of its population. Weightings were based on the best estimate provided or the geometric mean of the countries' minimum and maximum population size compared to the equivalent total for the overall European population. This analysis was carried out using a dedicated tool developed by IUCN to estimate overall trends based on data from multiple (national) subpopulations¹⁰.

⁸ As it stood in 2019, and therefore at the time, still comprising the UK (hereafter referred to as "the EU28", a level for which regional Red List assessments have also been previously undertaken in 2020 for native species that regularly occur within the region).

⁹ Röschel, L., Noebel, R., Stein, U., Naumann, S., Romão, C., Tryfon, E., Gaudillat, Z., Roscher, S., Moser, D., Ellmauer, T., Löhnertz, M., Halada, L., Staneva, A. and Rutherford, C. A. (2020). State of Nature in the EU - Methodological paper. Methodologies under the Nature Directives reporting 2013-2018 and analysis for the State of Nature 2000. ETC/BD report to the EEA.

¹⁰ https://www.iucnredlist.org/resources/criterion-a

A species' population size trend is measured over the length of time of three generations of that species and described as 'increasing' where the population size has expanded over three generations, 'decreasing' where the population size has undergone reduction, 'stable' where the population size has not experienced any significant changes or 'fluctuating' if the species experiences strong inter-annual changes in its population size. Where it was not possible to allocate a trend category with confidence, either because trend directions were reported as unknown for a large proportion of the total European population, in the case of conflicting trend information, or lack of trend magnitudes, the overall European trend was classified as 'unknown'.

Where possible, the robustness of trend categories to the effects of any missing data was tested using plausible 'good' and 'bad' scenarios, based on other sources of information, such as any other reported trend information, recent national Red Lists, scientific literature, and other publications and consultations with experts. In addition, attention was given to the quality of the reported trend information, e.g., where trends were derived from 'complete surveys or robust estimates' in the majority of a species' range countries; the overall calculated trend was considered of higher quality compared to trends based on 'extrapolation from limited amount of data, the latter being of higher quality than 'expert opinion'.

For most species, assessments were based on data from the breeding season, but in a small number of cases, winter data were also used. Winter data were only reported for a subset of species, mainly wintering waterbirds (especially migratory wildfowl and waders), whose populations are often best monitored in the winter when they congregate in large numbers. The assessments of species that do not breed (regularly) within Europe were based solely on winter data, while for species that occur in both seasons and for which the reported datasets were both representative of the regional population, the assessment process was carried out independently on data for both the breeding and wintering populations. For some species in winter, underlying population trends can be obscured by demographic factors, often related to inter-annual variation in weather conditions. In some years, for example, birds that usually winter in the region may be forced to move elsewhere by harsh winter conditions, whilst in others, birds that usually winter outside the region may show marked influxes into the region. Consequently, assessments were carried out principally based on breeding data, provided that the resulting status category was the same as or higher (i.e., more threatened) than that obtained using winter data. In cases where status categories were the same in both seasons, the final assessment was based on the season for which better quality data was available.

The species' trends in themselves at European level are also considered in the analyses in this report as they can reveal subtle changes in population sizes, such as slow deteriorations or stabilisations, before meeting a Red List category threshold. When used to study species in groups, such as species dependant on similar habitats, they can indicate a general deterioration of that habitat, implying the degradation of an ecosystem. Trends also provide an additional level or meaning to the Red List assessment of a species. For example, if a species is assessed as Vulnerable due to its rapidly declining trend, this can mean that although it has existed for millennia in this region, in a period of just three generations, at least a third of the species' population has been lost.

2.2 Geographic scope

The geographical scope is continent-wide and comprises 54 countries and territories across Europe, extending from Greenland (Denmark), Iceland and Svalbard (Norway) in the north to the Canary Islands (Spain), Malta and Cyprus in the south, and from the Azores (Portugal) in the west to the Caucasus and Ural Mountains in the east. Figure 2 shows the geographic area covered by the European Red List assessment.

2.3 Taxonomic scope

All terrestrial and marine bird species native to and/or naturally (and regularly) occurring in Europe are included in the assessment. Assessments were carried out at the species level only, following BirdLife International's current taxonomy (BirdLife International 2021), and population size and trend data reported by countries at subspecific or flyway population levels were aggregated to the species level.



Figure 2. Geographic area covered by the European Red List of Birds assessment.

Results and discussion

3.1 Overview

3.1.1. Red List status of European birds

At the European regional level, 13% (71 species) of all 544 assessed bird species are threatened, with approximately 2% (8 species) Critically Endangered (CR), nearly 3% (15 species) Endangered (EN), and nearly 9% (48 species) Vulnerable (VU). A further 6% (34 species) are considered Near Threatened (NT) (Figure 3 shows the percentage of species in each IUCN Red List Category). This translates as one in five bird species in Europe being threatened or Near Threatened with extinction. By comparison, within the EU28 region, nearly 19% of bird species (86 species) are threatened, with 2% (10 species) Critically Endangered, 4.5% (21 species) Endangered, 12% (55 species) Vulnerable, and a further 8% (37 species) are Near Threatened 11 . Therefore, in the EU28 region, over a quarter of bird species are threatened or Near Threatened.

Compared to the European Red List assessment in 2015¹² (when 533 species were assessed), the results appear very similar with 13% threatened species, 2% Critically Endangered, 3% Endangered species, and 7% Vulnerable species (see Section 3.2 for more details). The proportion of Near Threatened species has remained unchanged (6%).

Two species which used to occur in Europe are now globally Extinct; they were not assessed or counted in the statistics below as they disappeared much earlier than the current time period - these are the Canarian Oystercatcher (Haematopus meadewaldoi) and Great Auk (Pinguinus impennis). Five species are Regionally Extinct in Europe: Pallas's Sandgrouse (Syrrhaptes paradoxus), Northern Bald Ibis¹³ (Geronticus eremita), African Darter (Anhinga rufa), Common Buttonquail (Turnix sylvaticus)

and Pine Bunting (Emberiza leucocephalos). New data has contributed to the re-assessment of two species previously classified as Regionally Extinct: the Caspian Plover (Charadrius asiaticus) and Desert Warbler (Curruca nana), which are now considered Endangered and Vulnerable, respectively. Another three species are Critically Endangered (Possibly Extinct): the Asian Houbara (Chlamydotis macqueenii), Slender-billed Curlew (Numenius tenuirostris) and Pechora Pipit (Anthus gustavi), with the latter being the latest addition to the list.

Amongst the most threatened (Critically Endangered) European birds is one wader species: the Sociable Lapwing (Vanellus gregarius); one seabird: the Balearic Shearwater (Puffinus mauretanicus); as well as the Steppe Eagle (Aquila nipalensis), Yellow-breasted Bunting (Emberiza aureola) and Red-knobbed Coot (Fulica cristata).

A fifth of Europe's birds (103 species) are endemic or near endemic to the region. Of these, almost a quarter (24 species) are threatened or Near Threatened, and over a quarter (28%) are declining, increasing and unknown, respectively, with the remaining species being stable or fluctuating. The most threatened endemic European species is the Balearic Shearwater (Puffinus mauretanicus) (Critically Endangered), followed by the Endangered endemic or near endemic species: the Atlantic Puffin (Fratercula arctica), the Gran Canaria Blue Chaffinch (Fringilla polatzeki), and Zino's Petrel (Pterodroma madeira).

¹¹ https://nature-art12.eionet.europa.eu/article12/

¹² http://datazone.birdlife.org/userfiles/file/Species/erlob/EuropeanRedListOfBirds_June2015.pdf

The Northern Bald Ibis does exist in Europe but only as partially captive, captive-bred and / or reintroduced populations, none of which are yet considered selfsustainable, hence its continued evaluation as RE.

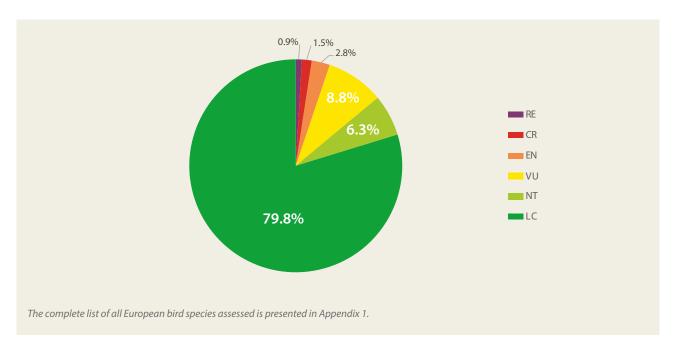


Figure 3. IUCN Red List status of birds in Europe.

3.1.2. Population trend of European birds

Overall, 30% of European birds have a decreasing population trend, 23% are stable or fluctuating, 21% are increasing, while 26% have an unknown trend (Fig. 4). By comparison, at EU28 level, the proportion of species with a decreasing trend

is the same (30%), the proportion of species with a stable or fluctuating trend is higher (30%), those with an increasing trend is of a similar proportion (23%), while the proportion of species with an unknown trend is significantly lower (17%)¹⁴.

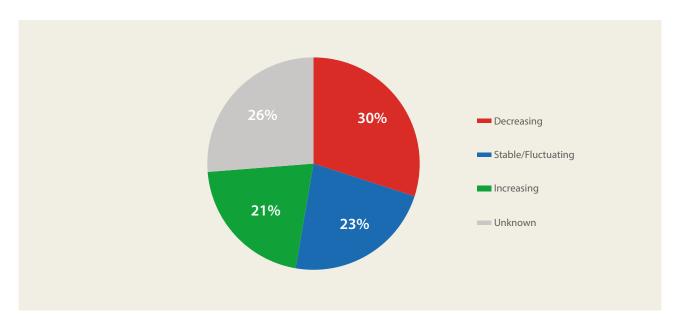


Figure 4. Population trends of birds in Europe

¹⁴ https://www.eea.europa.eu/publications/state-of-nature-in-the-eu-2020

3.2 European bird species changing Red List category

In total, 84 species have changed Red List status at European level since the previous assessment in 2015¹⁵ (Table 1), mostly by one category but occasionally by more. Among these, 37 species are now classified in a higher extinction risk category. Most of these cases are due to genuine declines in species populations. An example is the Demoiselle Crane (Anthropoides virgo), where new data from across its European range (mainly Russia and Ukraine) show genuine declines at a rate of over 50%, warranting a reclassification from Least Concern in 2015 to Endangered. The remaining 47 species have been reclassified in lower Red List categories. Although new data suggest they face a lower level of extinction risk compared to 2015, half of these species are still undergoing (slow) population declines. An example is the Common Kingfisher (Alcedo atthis), which is now considered Least Concern (it was Vulnerable in 2015) (see

The change between categories in roughly one out of ten (of the 84) species is considered to result from changes in the methodology of field data collection, calculation of trend values, or previous under- or overestimation of population size (i.e., non-genuine changes). Updated estimates of species' generation lengths¹⁶ have also affected the final assessment of certain species; e.g. long-lived species for which trends were calculated over a significantly shorter or longer 3-generation period. The re-assessment of the Northern Fulmar (Fulmarus glacialis) is an example of such a non-genuine change in category, where the use of the new generation length value has resulted in its status now being assessed as Vulnerable (rather than Endangered).

The improvement of status in some species reflects a genuine population increase due to targeted conservation action, for instance, with the Red Kite (Milvus milvus) being downlisted from Near Threatened to Least Concern, and the Bearded Vulture (Gypaetus barbatus) being downlisted from Vulnerable to Near Threatened. It also underlines the importance of such actions being continued in the long term, until the threats to the species have ceased and the populations in the region are no longer conservation dependent. For example, the White-headed Duck (Oxyura leucocephala) was previously Endangered in Europe. Thanks to long-term conservation action taking place and the elaboration and implementation of an international Species Action Plan (SAP) limiting the reduction and degradation of its habitat, the pressure of hunting, and the risk of hybridisation with the non-native Ruddy Duck (Oxyura jamaicensis); its rate of decline has now reduced to the point where it no longer meets the thresholds for qualifying as Endangered, and is now classified as Vulnerable. In the case of the Egyptian Vulture (Neophron percnopterus) though, reclassified as Vulnerable from Endangered (based on the lower rate of decline mainly in its Iberian population), there is still a long way to go; legal protection and on-the-ground conservation action need to be further implemented at national level and across borders, both within its breeding and wintering grounds and along migration routes. Underlying this further is the Saker Falcon (Falco cherrug) which, after decades of successful population restoration in its core European range, is again experiencing recent overall population declines that have resulted in its status being reassessed as Endangered (from Vulnerable).

¹⁵ http://datazone.birdlife.org/info/euroredlist

¹⁶ Bird, J. P., Martin, R., Akçakaya, H. R., Gilroy, J., Burfield, I. J., Garnett, S. G., Symes, A., Taylor, J., Şekercioğlu, Ç. H. and Butchart, S. H. M. (2020). Generation lengths of the world's birds and their implications for extinction risk. Conservation Biology 34(5): 1252-1261. DOI: 10.1111/cobi.13486.

Table 1. Species whose Red List categories have changed in 2021 (shown in taxonomic order). On page 19, species whose reassessment has placed them in a higher risk Red List category; on pages 20 and 21, species whose reassessment has placed them in a lower risk Red List category.

SCIENTIFIC NAME BY TAXONOMIC ORDER	ENGLISH NAME	2021 EUROPEAN RED LIST CATEGORY	2015 EUROPEAN RED LIST CATEGORY
Branta ruficollis	Red-breasted Goose	VU	NT
Anas acuta	Northern Pintail	VU	LC
Aythya fuligula	Tufted Duck	NT	LC
Somateria mollissima	Common Eider	EN	VU
Lyrurus mlokosiewiczi	Caucasian Grouse	NT	LC
Alectoris rufa	Red-legged Partridge	NT	LC
Ammoperdix griseogularis	See-see Partridge	VU	LC
Coturnix coturnix	Common Quail	NT	LC
Turnix sylvaticus	Common Buttonquail	RE	CR
Podiceps grisegena	Red-necked Grebe	VU	LC
Podiceps nigricollis	Black-necked Grebe	VU	LC
Hydrobates leucorhous	Leach's Storm-petrel	NT	LC
Puffinus yelkouan	Yelkouan Shearwater	VU	LC
Falco cherrug	Saker Falcon	EN	VU
Falco columbarius	Merlin	VU	LC
Falco vespertinus	Red-footed Falcon	VU	NT
Fulica cristata	Red-knobbed Coot	CR	EN
Anthropoides virgo	Demoiselle Crane	EN	LC
Chlamydotis undulata	African Houbara	VU	NT
Calidris falcinellus	Broad-billed Sandpiper	VU	LC
Calidris pugnax	Ruff	NT	LC
Gallinago gallinago	Common Snipe	VU	LC
Tringa totanus	Common Redshank	VU	LC
Stercorarius parasiticus	Arctic Jaeger	EN	LC
Larus audouinii	Audouin's Gull	VU	LC
Larus genei	Slender-billed Gull	VU	LC
Pagophila eburnea	Ivory Gull	VU	LC
Syrrhaptes paradoxus	Pallas's Sandgrouse	RE	EN
Clamator glandarius	Great Spotted Cuckoo	VU	LC
Caprimulgus ruficollis	Red-necked Nightjar	NT	LC
Apus apus	Common Swift	NT	LC
Anthus gustavi	Pechora Pipit	CR	VU
Phoenicurus erythrogastrus	White-winged Redstart	NT	LC
Cyanistes cyanus	Azure Tit	NT	LC
Lanius senator	Woodchat Shrike	NT	LC
Corvus frugilegus	Rook	VU	LC
Emberiza leucocephalos	Pine Bunting	RE	VU

SCIENTIFIC NAME BY TAXONOMIC ORDER	ENGLISH NAME	2021 EUROPEAN RED LIST CATEGORY	2015 EUROPEAN RED LIST CATEGORY
Cygnus columbianus	Tundra Swan	VU	EN
Anser erythropus	Lesser White-fronted Goose	VU	EN
Aythya marila	Greater Scaup	LC	VU
Clangula hyemalis	Long-tailed Duck	LC	VU
Oxyura leucocephala	White-headed Duck	VU	EN
Lagopus lagopus	Willow Grouse	LC	VU
Lagopus muta	Rock Ptarmigan	LC	NT
Alectoris chukar	Chukar	LC	NT
Gavia immer	Common Loon	LC	VU
Fulmarus glacialis	Northern Fulmar	VU	EN
Gypaetus barbatus	Bearded Vulture	NT	VU
Neophron percnopterus	Egyptian Vulture	VU	EN
Aquila fasciata	Bonelli's Eagle	LC	NT
Clanga clanga	Greater Spotted Eagle	VU	EN
Milvus milvus	Red Kite	LC	NT
Circus cyaneus	Hen Harrier	LC	NT
Circus macrourus	Pallid Harrier	LC	NT
Accipiter badius	Shikra	NT	VU
Falco biarmicus	Lanner Falcon	NT	EN
Charadrius asiaticus	Caspian Plover	EN	RE
Charadrius leschenaultii	Greater Sandplover	NT	VU
Glareola nordmanni	Black-winged Pratincole	LC	VU
Limosa limosa	Black-tailed Godwit	NT	VU
Numenius arquata	Eurasian Curlew	NT	VU
Hydrocoloeus minutus	Little Gull	LC	NT
Larus argentatus	European Herring Gull	LC	NT
Larus armenicus	Armenian Gull	LC	NT
Alca torda	Razorbill	LC	NT
Uria aalge	Common Murre	LC	NT
Ketupa zeylonensis	Brown Fish-owl	EN	CR
Apus affinis	Little Swift	NT	VU
Alcedo atthis	Common Kingfisher	LC	VU
Ceryle rudis	Pied Kingfisher	VU	EN
Picus sharpei	Iberian Green Woodpecker	LC	NT
Ammomanes deserti	Desert Lark	EN	CR
Melanocorypha yeltoniensis	Black Lark	EN	CR
Anthus pratensis	Meadow Pipit	LC	NT

SCIENTIFIC NAME BY TAXONOMIC ORDER	ENGLISH NAME	2021 EUROPEAN RED LIST CATEGORY	2015 EUROPEAN RED LIST CATEGORY
Prunella montanella	Siberian Accentor	LC	NT
Oenanthe chrysopygia	Red-tailed Wheatear	VU	EN
Oenanthe leucura	Black Wheatear	LC	VU
Turdus iliacus	Redwing	LC	NT
Curruca nana	Asian Desert Warbler	VU	RE
Lanius excubitor	Great Grey Shrike	LC	VU
Passer moabiticus	Dead Sea Sparrow	LC	VU
Pyrrhula murina	Azores Bullfinch	VU	EN
Emberiza cineracea	Cinereous Bunting	NT	VU
Emberiza rustica	Rustic Bunting	LC	VU

Box 1. Species with significant change in their Red List status



Kingfisher Alcedo atthis



This species' trend varies between countries in its range, with many reporting an unknown direction. Based on the latest data available, this species' trend appears to still be decreasing, but at a lower rate than in 2015, and not sufficiently rapidly to meet a higher category than Least Concern. This highlights the importance of regular species monitoring, as if new data were gathered on the trends which are currently unknown, this could paint a more accurate picture of the state of the species within the region.



Greater Spotted Eagle Clanga clanga



A non-genuine change in the European Red List status due to change in generation length from 50 to 28 years (for 3 generations). Furthermore, the overall declining trend is dictated by a 30-49% population reduction within the European part of Russia (which holds 82% of the European population).



Black-tailed Godwit Limosa limosa



A reportedly genuine increase in the breeding population in Iceland (which holds approximately 47% of the European population), likely due to increasing spring temperature 17, dictates the overall stable European trend. However, the species is undergoing rapid declines in other key range countries like the Netherlands and Russia (together holding another 45% of the European population), despite recent reports of northward expansion of the species in Northwest Russia 18. This species depends on wet grasslands during the breeding season, and therefore habitat loss and degradation in breeding grounds is a key threat to it, according to the breeding waders Multi-Species Action Plan (MSAP) 19. Despite the stabilisation of the overall population, this threat has not yet been halted.

¹⁷ Effects of spring temperature and volcanic eruptions on wider productivity. Tómas Grétar Gunnarsson, Lilja Jóhannesdóttir, José A Alves, Böðvar Þórisson & Jennifer A Gill. IBIS (2017). DOI: 10.1111/jbi.12449

¹⁸ Popov I. & Starikov D. 2015. Recent northward expansion of breeding Black-tailed Godwits Limosa limosain NW Russia. Wader Study122(3): 173–183.

¹⁹ Leyrer, J., Brown, D., Gerritsen, G., Hötker, H. and Ottvall, R. (compilers). (2018). International Multispecies Action Plan for the Conservation of Breeding Waders in Wet Grassland Habitats in Europe (2018-2028). Report of Action A13 under the framework of Project LIFE EuroSAP (LIFE14 PRE/UK/002). NABU, RSPB, VBN and SOF.







Although the species has been re-classified under a lower extinction risk category, its overall trend is still decreasing (by 25-29%). The species seems to be doing well in Finland (which holds 37% of the European population), however, in the European part of Russia (holding 29% of the population) and in the UK (holding 25% of the population), its population is still decreasing rapidly. Overall, in Europe, this species is thought to be mostly suffering from the impact of habitat loss and degradation



Common Snipe Gallinago gallinago



A genuine change in the main range country in Europe, Russia (holding 65% of the population) drives an overall decrease in the population trend by 36%. This species is declining globally too. The highest impacting threat known for this species is habitat loss and degradation in breeding grounds, which is likely to be driving the declining trend. This species is dependent on wet grassland in the breeding season, and therefore their trends are very much determined by the extent and condition of these habitats in Europe.



Common Redshank Tringa totanus



This species is undergoing an overall decline (of over 30% in 3 generations), dictated by decreasing trends in the 3 main range countries (holding circa 50% of the European population): Iceland²⁰, Russia and Belarus. The overall trend for this species is also supported by the Pan-European Common Bird Monitoring Scheme (PECBMS)²¹. As with the Common Snipe, and as per the breeding waders MSAP, this species is highly dependent on wet grasslands and consequently its highest impacting threat is habitat loss and degradation, which is likely to be driving the declining trend.



Northern Pintail Anas acuta



A reportedly genuine decline in the European Russian population, as well as in the Finnish and Swedish populations (representing practically the entire European population) result in an overall decline of 38% in three generations. This species is threatened by habitat loss and modification (wetland and coastal habitats) in both its breeding and wintering grounds²², which is likely to be the main driver of its current decline.

²⁰ https://en.ni.is/biota/animalia/chordata/aves/charadriiformes/stelkur-tringa-totanus

²¹ https://pecbms.info/

²² Scott, D. A.; Rose, P. M. (1996). Atlas of Anatidae populations in Africa and western Eurasia. Wetlands International, Wageningen, Netherlands.



Common Eider Somateria mollissima



It is expected this species will have declined by over 50% in three generations (by 2033) based on reported decreasing trends from across its European range, i.e. Iceland, Finland, Norway and Greenland (which together hold almost three quarters of the European population). The rapid population declines in the Baltic-Wadden Sea after the 2000s are considered to be due a combination of factors, including a decreased survival due to natural predation, diseases and food shortage.²³



Rook Corvus frugilegus

LC VU

Approximately half of the species' population is experiencing declines. These include countries like Russia, Poland, France and the Netherlands. Some countries have explicitly reported a genuine change in the species' population size, including the European part of Russia (which holds almost a third of the European population). Overall, the population size of the Rook is declining by over 30% in Europe, likely due to the persecution and destruction of nesting sites.



Common Quail Coturnix coturnix



The species population in Europe is decreasing by at least 25%, with genuine declines reported by two key range countries – Russia and Spain. The main reasons for decline are considered to be the loss of rough grassland and uncultivated land due to agricultural intensification, which has diminished food availability such as wild plants, seeds and insects; with hunting also playing a significant role.²⁴



Red-necked Grebe Podiceps grisegena



The overall population decline by 38% is considered genuine and is observed in most of the key range countries, including Russia and Finland (which hold together over half the European population). Despite improved knowledge about the species population in some range countries, little is known about the reasons for change.



Black-necked Grebe Podiceps nigricollis

LC VU

An overall genuine decline by 35% was calculated based on declining trends from Russia and Ukraine (which together hold about 70% of the European population). Little is known about the main reasons of the decline, although water pollution from agricultural activities and urban run-off, decreases in precipitation due to climate change, the construction of flood protection infrastructure, disturbance from human recreational activities and bycatch may all be contributing factors.²⁵

²³ Keller, V., Herrando, S., Voříšek, P., Franch, M., Kipson, M., Milanesi, P., Martí, D., Anton, M., Klvaňová, A., Kalyakin, M.V., Bauer, H.-G. and Foppen, R.P.B. (2020). European Breeding Bird Atlas 2: Distribution, Abundance and Change. European Bird Census Council & Lynx Edicions, Barcelona.

²⁴ Heath, M. and Tucker, G. (1994). Birds in Europe. World Birdwatch 16: 9-13.

²⁵ Pressures and threats data reported as part of the EU Birds Directive Article 12 reporting exercise 2013-2018 https://cdr.eionet.europa.eu/

In addition, 13 species have been assessed for first time (see Table 2), mainly due to taxonomic changes since 2015. Examples are the newly recognised Cyprus Scops-owl (Otus cyprius) (Least Concern) and the Italian Sparrow (Passer italiae) (Vulnerable).

Table 2. Species assessed at European level for the first time (shown in taxonomic order).

SCIENTIFIC NAME	ENGLISH NAME	2021 RED LIST STATUS
Gallinago megala	Swinhoe's Snipe	NT
Onychoprion fuscatus	Sooty Tern	VU
Otus cyprius	Cyprus Scops-owl	LC
Phylloscopus nitidus	Green Warbler	LC
Phylloscopus orientalis	Eastern Orphean Warbler	LC
Curruca balearica	Balearic Warbler	LC
Curruca crassirostris	Eastern Bonelli's Warbler	LC
Curruca subalpina	Moltoni's Warbler	LC
Cyanistes teneriffae	African Blue Tit	LC
Poecile hyrcanus	Caspian Tit	LC
Lanius meridionalis	Iberian Grey Shrike	VU
Passer italiae	Italian Sparrow	VU
Fringilla polatzeki	Gran Canaria Blue Chaffinch	EN

3.3 Status and trends of **European birds by taxonomic** and functional group

There are 73 bird families occurring in Europe and there are considerable differences amongst them, both in the number of species they include and their threatened status. When merging families into taxonomic or functional groups, amongst those comprising the most species; seabirds, wildfowl, waders, and raptors have highest proportion of threatened and Near Threatened species. When looking at trends, over 40% of wildfowl and wader species, over 30% of seabirds, as well as 25% of raptors, are experiencing population declines. Worryingly, deterioration in trend is observed amongst the most widespread and numerous group of birds, the passerines,

with one in four species in this group having a decreasing population trend. Among these, larks, shrikes and buntings, as well as pipits, chats, flycatchers, finches, tits and sparrows, contain relatively high numbers of species with decreasing trends (Fig. 5).

Less speciose taxonomic groups also show significant population declines, e.g. kingfishers (all 3 species), bustards (3 out of 4 species), rails and crakes (5 out of 9 species), grebes (3 out of 5 species) and grouse, partridges and pheasants (7 out of 17 species).

A comparison between passerines, terrestrial non-passerines and species dependent on the marine habitat during most of their life cycle shows that passerines and marine species have a higher proportion of species with unknown trends (Fig. 6).

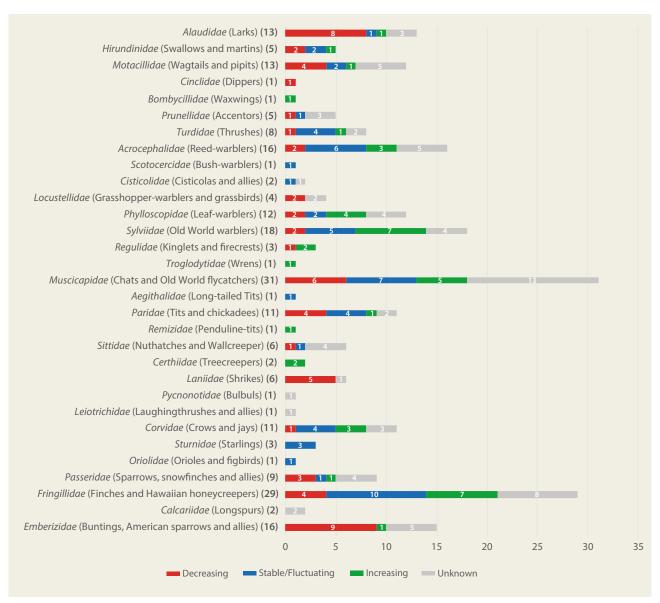


Figure 5. Population trend of passerine birds by family (in brackets, total number of species per family, in graph, number of species per trend direction).

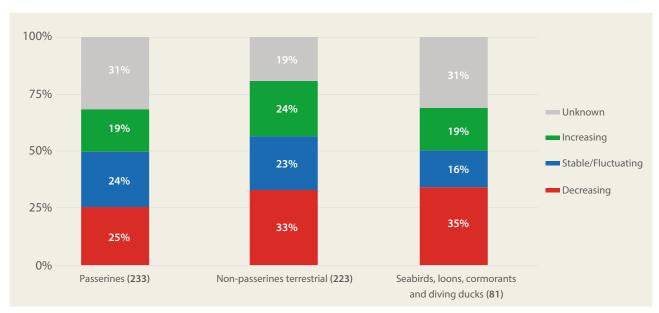


Figure 6. Differences in proportion of species trends between passerines, non-passerines (excl. seabirds, diving ducks, loons and cormorants) and non-passerines associated with the marine environment (seabirds, diving ducks, loons and cormorants). In brackets, number of species per group, in graph, proportion of trend direction per group.

A relatively higher proportion of declining trends are observed among migratory birds (more than 30%) compared to resident species (20%) (see Fig. 7). Moreover, among 121 species considered sub-Saharan migrants²⁶, 33% have declining trends, while among species that are migratory but do not migrate as far as to sub-Saharan Africa; 31.5% have declining trends.

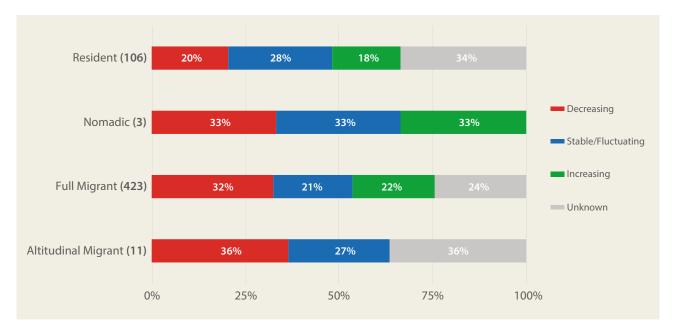


Figure 7. Trend directions in relation to migrating behaviour (in brackets, total number of species per group, in graph, proportion of species per trend direction).

3.4 Status and trends of **European birds by main type** of habitat

A comparison between main habitat types in Europe shows that farmland and grassland habitats have the highest number of associated threatened and Near Threatened species (33 species) of all habitat types, and are closely followed by marine habitats (28 species), and inland wetlands next, with 13 species (Fig. 8).

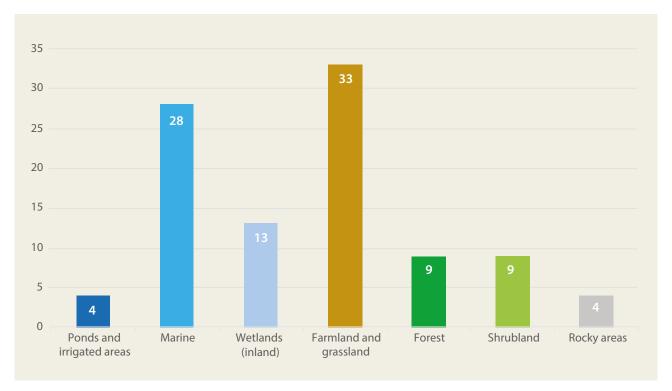


Figure 8. Number of threatened and Near Threatened species per main type of habitat in Europe.

²⁶ Vickery, J.A., Ewing, S.R., Smith, K.W., Pain, D.J., Bairlein, F., Škorpilová, J. and Gregory, R.D. (2014). The decline of Afro-Palaearctic migrants and an assessment of potential causes. Ibis, 156(1), pp.1-22. https://onlinelibrary.wiley.com/doi/full/10.1111/ibi.12118

The picture looks similar when comparing the proportion of species with different population trend directions by habitat type (Fig. 9), where at least a third of species associated with farmland and grassland (55 out of 158 species), wetlands (24 out of 70 species) and marine habitats (30 out of 92 species) have a decreasing trend. Marine and freshwater aquaculture, artificial ponds, irrigated land and wastewater areas appear to have the highest proportion of species with a decreasing trend (over 45%), however a relatively small number of species (19) are associated with this type of habitat.

At the same time, another circa 40% of all species associated with marine habitats and wetlands have a stable or increasing trend. However, the proportion of species with an increasing trend is the smallest compared to all other habitat types (excluding rocky areas where only one species falls within this category).

Over a quarter of all species associated with forest habitats have decreasing trends (22 out of 80 species), although this habitat type also has the highest proportion of stable (25%) and increasing (25%) trends, with the rest being unknown. Similarly, approximately 50% of all species associated with shrubland have either stable or increasing trends.

Rocky habitats like inland cliffs and mountain peaks have the highest proportion of species with unknown trends (more than 50%). A third of all species associated with marine habitats and shrubland also have an unknown trend. The smallest proportion of species with unknown trends is associated with artificial aquatic habitats (less than 20%), farmland and grassland, and forest habitats (circa 20% each).

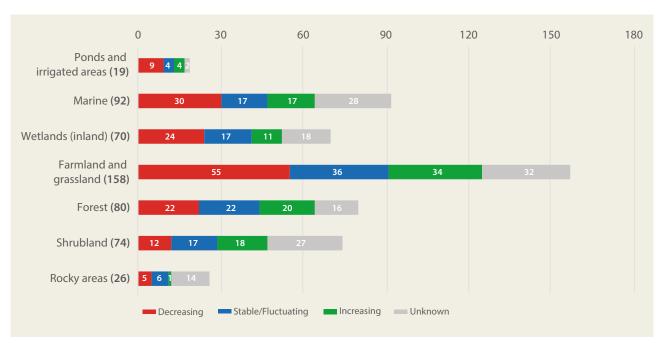


Figure 9. Population trend by main type of habitat in Europe (in brackets, total number of species per group, in graph, number of species per trend direction).

The results confirm the overall conclusions observed in other studies, such as the State of Nature in the EU 2013-2018 or the IPBES 2019. Large scale land use changes and the intensification of agricultural practices, the development of infrastructure, the overexploitation of marine resources, the pollution of inland waters and unsustainable yet commonly used forestry practices are the main drivers of bird population declines observed in European habitats. The Pan-European Common Bird Monitoring Scheme indicates a 57% decline in common farmland birds between 1980 and 2018²⁷. Ongoing population declines and range contractions in widespread species of open habitats – like larks, shrikes and buntings – clearly demonstrate the impact of disappearing mosaic landscapes and the increased use of agricultural chemicals (see Box 2 and Fig. 6). Although some raptor species have made recent population

recoveries due to legal protection and targeted conservation activities²⁸, many raptor species dependent on open habitats (e.g., grassland and shrubland) for prey are still in decline. In the marine environment, birds suffer from bycatch and incidental killing (due to fishing and hunting activities), as well as from the impact of invasive non-native species, disturbance and water pollution (originating from both land and sea).

Many species of birds are legally hunted across Europe. While hunting is prohibited in the EU during the breeding season, this method of exploitation is a threat to at least 82 species listed in Annex II of the Birds Directive²⁹ during their migration or in winter. Additionally, some species fall under the so-called EU derogations, where countries are permitted to cull part of the population under defined conditions. Species like the Rook

²⁷ https://pecbms.info/trends-and-indicators/indicators/indicators/E_C_Fa/

^{28 &}lt;a href="https://www.eea.europa.eu/publications/state-of-nature-in-the-eu-2020">https://www.eea.europa.eu/publications/state-of-nature-in-the-eu-2020

²⁹ https://ec.europa.eu/environment/nature/legislation/birdsdirective/index_en.htm

(Corvus frugilegus) have suffered massive population declines, likely due to permitted persecution³⁰ (killing, destruction of nests and roosting sites) across most of its range, which has resulted in its current re-assessment as Vulnerable. Illegal killing

is another major threat to European birds, with more than 25 million birds illegally slaughtered in the Mediterranean region each year³¹.

Box 2. Specialists of open habitats: larks, shrikes and buntings



The 2021 Red List assessment of European birds shows that more species of open habitats, like larks, shrikes and buntings, experience population decline compared to the previous update (2015).

Of the 6 species of shrikes in Europe, 5 have a decreasing Red List trend, which has resulted in one species classified as Vulnerable (Iberian Grey Shrike (Lanius meridionalis)) and one as Near Threatened (Woodchat Shrike (Lanius senator)).

Shrikes prefer open small-scale (mosaic) landscapes, usually with scattered trees or shrubs, and have adapted (to a different degree) to low-intensity cultivated areas like farmland and grassland. Land use changes and the intensification of agricultural practices have led to the loss of areas of natural vegetation and field margins, as well as a massive decline in the abundance of large insects³². Land abandonment resulting in natural succession processes have been identified as another driver for disappearing breeding habitats for shrikes in some parts of the European continent. Climatic factors are expected to significantly influence shifts in population distribution and abundance in Red-backed Shrike (Lanius collurio) and Masked Shrike (Lanius nubicus).

Two thirds of all 13 lark species occurring in Europe and more than half of the 16 species of buntings also have decreasing population trends. The populations of two widespread lark species, the Eurasian Skylark (Alauda arvensis) and Calandra Lark (Melanocorypha calandra), as well as the Yellowhammer (Emberiza citrinella), Corn (Emberiza calandra), Ortolan (Emberiza hortulana) and Rustic Buntings (Emberiza rustica) have undergone significant declines in the past decades. Similarly, these species depend on a mosaic of open habitats, and their declines are linked to habitat loss and/or degradation generally related to agricultural intensification.³³

In addition, the compounding effects of drivers such as climate change, land-/sea-use change, overexploitation of resources, pollution and invasive alien species are likely to exacerbate the negative impacts on nature, as seen in different ecosystems³⁴. Climate change, which can alter the habitats or seasons within a species natural range, or cause the displacement or disappearance of prey species, is a rather unpredictable variable when considering species population changes. For example, sedentary species confined to mountain areas, like the Caucasian Grouse (Tetraogallus caucasicus), may be driven to near extinction in the upcoming 30-50 years, as a results of shrinking alpine and sub-alpine habitats³⁵. Migratory species in their breeding season, particularly Arctic breeding waders are among the species with the smallest proportion of their current range projected to be climatically suitable by 2050³⁶. On the other hand, a recent study using the comprehensive European Breeding Birds Atlas 2 (EBBA2) data to understand birds' range dynamics in the last decades in relation to environmental drivers and species' traits states that climate change is not (yet) a major driver behind the observed changes in bird distributions in Europe in recent years³⁷. This means that the conservation actions needed for species sensitive to its effects are very difficult to determine without further research and understanding of the issue.

³⁰ Krüger, T., Heckenroth, H., Prior, N. et al. Persecution and statutory protection have driven Rook Corvus frugilegus population dynamics over the past 120 years in NW-Germany. J Ornithol 161, 569–584 (2020). https://doi.org/10.1007/s10336-020-01750-3

³¹ Brochet, A., Van den Bossche, W., Jbour, S., Ndang'ang'a, P., Jones, V., Abdou, W., . . . Butchart, S. (2016). Preliminary assessment of the scope and scale of illegal killing and taking of birds in the Mediterranean. Bird Conservation International, 26(1), 1-28. doi:10.1017/S0959270915000416.

³² Keller, V., Herrando, S., Voříšek, P., Franch, M., Kipson, M., Milanesi, P., Martí, D., Anton, M., Klvaňová, A., Kalyakin, M.V., Bauer, H.-G. and Foppen, R.P.B. (2020) European Breeding Bird Atlas 2: Distribution, Abundance and Change. European Bird Census Council & Lynx Edicions, Barcelona.

³³ Suarez et al. (1997) Newton 2017 after EBBA2.

³⁴ https://ipbes.net/sites/default/files/2020-02/ipbes_global_assessment_report_summary_for_policymakers_en.pdf

³⁵ Anouschka R. Hof, Andrew M. Allen, An uncertain future for the endemic Galliformes of the Caucasus, Science of The Total Environment, Volume 651, Part 1, 2019, Pages 725-735, ISSN 0048-9697, https://doi.org/10.1016/j.scitotenv.2018.09.227.

³⁶ Nagy, S., Breiner, F., Anand, M., Butchart, S., Flörke, M., Fluet-Chouinard, E., . . . Voltzit, O. (2021). Climate change exposure of waterbird species in the African-Eurasian $flyways.\ Bird\ Conservation\ International,\ 1-26.\ doi: 10.1017/S0959270921000150.$

³⁷ Aleksi Lehikoinen et al. (2021). Local colonisations and extinctions of European birds are poorly explained by changes in climate suitability (unpublished).

3.5 Gaps in knowledge

Red Lists are a dynamic tool that evolves with time as species are re-assessed according to new information or situations. They are aimed at promoting and supporting research, monitoring and conservation actions at local, regional and international levels; especially for threatened, Near Threatened and Data Deficient species. Through the process of compiling data for the European Red List of Birds, a number of knowledge gaps have been identified.

Europe has a long history of data collection and environmental surveillance. Many countries have established surveying and monitoring programmes (e.g. PECBMS³⁸ and the International Waterbird Census³⁹), and contribute to international data collection projects (e.g. European Bird Portal⁴⁰), leading to the region having a comparatively good biodiversity knowledge database. This is an advantage, as recent and good quality data are essential to successfully inform and address conservation issues across the continent.

Despite this, Europe's knowledge base about birds still has room for improvement. Across Europe there are significant geographic, geopolitical and taxonomic biases in the quality of data available on the distribution and status of species. Unless they are part of a specific monitoring or conservation programme, surveys are often irregularly undertaken or species are selectively surveyed for, often depending on their conservation priority - a factor which is often based on the existing knowledge of a species. The population size and trend data reported during the time of this project were found to sometimes be old and re-used, or were based solely on expert opinion, again, due to lack of recent data availability, sometimes with the most recent sources using data dating back to the 1990s or early 2000s. This means that there exists a certain proportion of species for which the information is too old or uncertain, or for which there is not enough information at all to be able to calculate a realistic trend. In these cases, the trend is labelled as unknown. In Europe, although the data may be old or of poor quality, there still is enough information to allow the assessment of all bird species, even those with unknown trends,

without the use of the Data Deficient category. However, in a few circumstances, this can result in an assessment in which the lack of trend information leads to a default Least Concern assessment, whereas if the trends were known, the species may actually be Near Threatened or threatened.

When data is lacking, it is often evident that for some countries this is because of a shortage of resources for regular monitoring of bird populations (e.g. time, personnel and/or financial resources) which would allow for better coverage of species and areas. The lack of information could also be due to poor cooperation between governments, institutions and organisations. In some rare cases, data may be scarce due to the species being present in inaccessible places, although with today's technology a solution is likely possible. Context is an important factor in understanding the reasons for changes in a species' population size trends or range. Understanding the causes of a species' decline or recovery can help analyse the key threats to birds across Europe. Nonetheless, currently this tends to be a secondary priority in terms of data reporting, and more research into this subject is needed to fully understand the various impacts of human activity on nature.

To counter these issues, there is a need for more coordinated national and international efforts in bird monitoring, to ensure the monitoring cycles in different countries concur with each other and, ideally, with the timings of the European Red List of Birds updates. These survey programmes need to be coordinated and communicated across organisations, institutions and governmental bodies in order to ensure that information is transferred and that everyone is working together towards the same goals. To support these surveys, dedicated resources should be available at local, national and international levels, with policy tools created enabling the easy access to these resources and encouraging the collection of data. The EU legal and financial mechanisms, for example, already play a crucial role in this process, such as the reporting of national data under the Birds and Habitats Directives, and the development of the LIFE Programme, which enables the access to funding for conservation-based projects.

³⁸ https://pecbms.info/

³⁹ https://www.wetlands.org/knowledge-base/international-waterbird-census/

⁴⁰ https://eurobirdportal.org/ebp/en/#home/HIRRUS/r52weeks/CUCCAN/r52weeks/

Biodiversity protection in Europe

Europe has a long history of nature protection. From decrees to protect sovereigns' own hunting grounds during the Middle Ages to the modern-day democratic international conventions and agreements; environmental law has always aimed at preserving nature for its socio-economic and intrinsic value.

In Europe, environmental legislation is created and implemented at different geographic and administrative levels. National and regional biodiversity laws set up the extent and means for protection of species, habitats and other natural resources. Different systems of protected areas, e.g., national parks, nature reserves or protected landscape monuments exist in each country. To put the protection of these areas in practice, site-specific management or action plans are often developed in collaboration with local authorities and stakeholders. Similarly, action plans for the conservation of priority (e.g., nationally, European or globally threatened) species may be developed. Other types of national or local law usually define the protection and management of particular parts of the environment, such as rivers and lakes, marine or coastal areas, forests etc.

Nature is a continuum, which political borders cross and often fragment, as do different human activities. Therefore, international cooperation is crucial for the successful protection of biodiversity at an appropriate scale. Most European countries and all EU member states are signatories to a number of relevant international conventions, including the Bern Convention on the Conservation of European Wildlife and Natural Habitats (1979), the Convention on Biological Diversity (1992) and the African-Eurasian Migratory Waterbird Agreement (AEWA). The international trade of a small number of European bird species is regulated under the Convention on International Trade in Endangered Species (CITES).

The Bern Convention is a binding international legal instrument that aims to conserve wild flora and fauna and their natural habitats. It covers all European countries and some African states. It aims to increase cooperation between contracting parties and to regulate the exploitation of species (including migratory species). Key provisions of the Convention include

the establishment of protected areas (defined as the Emerald network), the protection of breeding and resting sites and the regulation of disturbance, capture, killing and trade of wild species. The Bern Convention has played a fundamental role in promoting the adoption of International Species Action Plans on European threatened or Near Threatened species.

The African-Eurasian Migratory Waterbird Agreement (AEWA) is an international treaty for the conservation of migratory waterbirds, developed under the auspices of the Convention on Migratory Species (CMS, or Bonn Convention). Among other obligations, Parties to the Agreement are required to adopt so-called International Single Species Action Plans (SSAPs) for species of particular concern (i.e., species/populations with an unfavourable conservation status). These SSAPs cover all Range States relevant for the species to ensure a coordinated conservation approach along the entire flyway.

The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), adopted in 1973, has 178 countries that are Parties to the Convention. The Convention aims to protect species from the detrimental effects of international trade by establishing an international legal framework for preventing or controlling trade. Species listed on Appendix I of the Convention are considered to be threatened with extinction and are not allowed to be traded commercially, while those on Appendix II are only allowed to enter international trade under specific controlled circumstances (including a licensing system). Parties are obliged to develop national legislation effectively implementing the obligations of the Convention, including setting sustainable quotas for Appendix II species. Currently, 687 species of fauna, including 155 bird species are listed on Appendix I and more than 5,000 species of fauna, including 1,279 bird species, on Appendix II⁴¹. CITES is implemented in the EU through a set of Regulations known as the EU Wildlife Trade Regulations⁴².

The Convention on Biological Diversity is an international legal instrument for the conservation and sustainable use of biological diversity. Parties have to develop national biodiversity strategies or action plans (NBSAPs). They also need to agree on

⁴¹ https://cites.org/

⁴² https://ec.europa.eu/environment/cites/legislation_en.htm

a ten-year global strategic plan with concrete targets in order to achieve the overall objectives of the Convention. At the time of publication of this report, world leaders are developing the new Post-2020 Global Biodiversity Framework with a package of commitments to address and reverse global biodiversity loss by 2030⁴³.

In the EU, nature conservation policy is based on two main pieces of legislation: the Birds Directive of 1979 and the Habitats Directive of 1992, both often referred to as the EU Nature Directives. The Birds Directive provides a binding, legal framework for the protection of all wild birds in the EU, including their eggs, nests and habitats. EU Member States need to ensure that a sufficient area and diversity of habitats is available for all wild bird species, including those that live on farmland and in urban environments. The most important areas for threatened birds on Annex I of the Birds Directive and for regularly occurring migratory birds should be designated as Special Protection Areas (SPAs). The Birds Directive also regulates the hunting of birds in the EU, restricting the hunting seasons and methods, as well as the species that can be hunted (listed in Annex II).

The Habitats Directive is Europe's most powerful tool to address habitat protection, listing the priority habitats (e.g. specific types of wetlands, meadows and marine habitats) on Annex I and species on Annex II. As with the Birds Directive, important sites under the Habitats Directive should be designated as Special Areas of Conservation (SACs). These form, together with the SPAs, the Natura 2000 network: the largest coordinated network of protected areas in the world. It stretches across all Member States and covers over 18% of the EU's land area and more than 6% of its sea territories⁴⁴. Each Member State is required to identify sites of European importance for Natura 2000 and is encouraged to put in place special management plans, combining long-term conservation objectives with economic and social activities.

The EU Marine Strategy Framework Directive (MSFD)⁴⁵ aims to protect the marine environment across Europe more effectively. It requires Member States to achieve Good Environmental Status (GES), following an ecosystem-based approach, focused on 11 descriptors related to ecosystem features, human drivers and pressures⁴⁶. The EU Maritime Spatial Planning (MSP) Directive aims to manage the use of our seas and oceans coherently, and to ensure that human activities take place in an efficient, safe and sustainable way, guaranteeing the protection of nature at sea. In addition, Europe's marine environment is protected

under regional conventions like the Baltic Marine Environment Protection Commission⁴⁷ (HELCOM), the OSPAR Commission⁴⁸, Conservation of Arctic Flora and Fauna⁴⁹ (CAFF), the Commission on the Protection of the Black Sea Against Pollution⁵⁰.

The majority of Europe's threatened bird species are listed on the Birds Directive Annexes and the Bern Convention Appendices.

Besides the above-mentioned nature protection legal frameworks, several other sectoral policies exist in the EU with certain measures and practices that aim to protect nature. Most relevant for the agricultural environment is the EU's Common Agricultural Policy⁵¹ (CAP), with its 'agri-environment and climate measures' under Pillar II. However, these are of very varying quality and a review by the European Court of Auditors in 2020 found that 'most CAP funding has little positive impact on biodiversity⁵². For marine species and habitats, together with the Marine Strategy Framework Directive, the EU's Common Fisheries Policy (CFP) aims at setting rules for sustainably managing European fishing fleets and conserving fish stocks⁵³. Inland surface waters, coastal waters and groundwater are protected under the framework of the EU Water Framework Directive. It aims to prevent and reduce pollution, promote sustainable water use, protect and improve the aquatic environment and mitigate the effects of floods and droughts.

Within a renewed political effort to address biodiversity loss, the European Union responded to its global commitments by developing a 10-year Biodiversity Strategy. In May 2020, a new comprehensive and ambitious EU 2030 Biodiversity Strategy was put forward by the European Commission and largely endorsed by EU legislators. Its aim is to put Europe's biodiversity on a path to recovery with specific actions and commitments⁵⁴. These include the development of a new nature restoration law, a Forest Strategy (published in July 2021), an action plan to conserve fisheries resources and protect marine ecosystem, improved financing for biodiversity measures in the EU, and an update of the Directive of Sustainable Use of Pesticides. The strategy sets targets for the non-deterioration of all species and habitats, as well as significant improvement of at least 30% of species and habitats. It also urges Member States to assure the protection of 30% of land and 30% of sea by 2030, and strictly protect at least 10%. The agreement on the long-term EU Budget from 2021 to 2027 includes a commitment to spend at least 7.5% of the EU Budget on biodiversity as of 2025, and 10% as of 2026.

- 43 www.cbd.int
- 44 https://ec.europa.eu/environment/nature/index_en.htm
- 45 https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32008L0056
- 46 https://ec.europa.eu/environment/nature/index_en.htm
- 47 https://helcom.fi/
- 48 https://www.ospar.org/
- 49 https://www.caff.is/
- **50** <u>http://www.blacksea-commission.org/_convention.asp</u>
- **51** https://ec.europa.eu/info/food-farming-fisheries/key-policies/common-agricultural-policy/cap-glance_en
- 52 https://www.eca.europa.eu/Lists/ECADocuments/SR20_13/SR_Biodiversity_on_farmland_EN.pdf
- $\textbf{53} \ \underline{\text{https://ec.europa.eu/oceans-and-fisheries/policy/common-fisheries-policy-cfp_en}$
- 54 https://ec.europa.eu/environment/strategy/biodiversity-strategy-2030_en

5.

Recommendations and future work

5.1 Recommendations for policy and practice

The existing biodiversity protection framework in Europe (see Section 4) has contributed, directly or indirectly, to the successful recovery of many threatened species and protection and restoration of key habitats. These have arisen thanks to the establishment of a network of protected areas, collaboration to conserve sites and to take action for species often across borders. Yet, this collective effort, while essential, has to date been insufficient to reverse the overall decline in our continent's biodiversity. Sadly, many success stories have been limited to the local level. For certain species, such actions may be enough to maintain stable or even improving populations. The decline of many widespread and common species (e.g., birds and butterflies) signals, however, a problem of a much larger scale, a systemic issue in the functioning of ecosystems caused by a diverse array of human-induced changes. Therefore, future conservation efforts in Europe should not only focus on action locally but also seek to deliver more fundamental change at a bigger scale. Collaboration between decision-makers and conservation practitioners needs to be expanded while securing greater involvement from consumers, producers, landowners and other businesses.

As intergovernmental reports on climate change and biodiversity have recommended 54,55, we need to rethink the way we produce, trade, consume and reuse our vital resources. Ultimately, as humans, we depend on a healthy natural environment (including irreplaceable services and functions such as the provision of clean water, pollination of crops, flood protection, and a stable climate; which are also fundamental for our recreation and well-being). Without the services provided by the natural environment, our health, society and economy would not hold up. Thus, a revision of the way we develop and implement sectoral policies will be

key to future success. For example, a review by the European Court of Auditors in 2020 found that "most CAP funding has little positive impact on biodiversity"56, while another report from 2020 published by the same institution⁵⁷ stated that "overall, while a framework was in place to protect the marine environment, the EU's actions had not restored seas to good environmental status, nor fishing to sustainable levels in all seas". This was also supported by the European Environment Agency, which identified in 2020 that "Marine biodiversity remains under threat in Europe's seas. A high proportion of marine species and habitats' assessments continue to show an 'unfavourable conservation status' or a status that is 'unknown'58. Similar critiques of progress can be found outside of the EU, for example in the UK State of Nature Report⁵⁹.

Through its Green Deal, the EU has expressed the ambition to tackle these current environmental and socio-economic challenges in a transformative way. It aims to transform the EU into a modern, resource-efficient and competitive economy, leading by example towards being the first climate-neutral continent⁶⁰. The EU commits to combat the intrinsically linked biodiversity and climate crises with its 2030 Biodiversity Strategy, as part of the Green Deal, for the broader European continent and the world. In addition, 88 Heads of State (including 14 outside the EU) have signed up to the Leaders' Pledge for Nature⁶¹ to step up global ambition for biodiversity. This provides momentum for securing an ambitious new global biodiversity framework for 2030, set to be approved by a Conference of the Parties to the UN Convention on Biological Diversity in Kunming, China in April 2022.

To create a different future, where nature is thriving in harmony with people, where common species remain common and fewer species are at risk of extinction, governments across Europe need to develop coherent regional and national biodiversity strategies including the actions outlined in the next pages:

- **54** https://www.ipcc.ch/2019/
- 55 https://ipbes.net/global-assessment_
- 56 https://www.eca.europa.eu/Lists/ECADocuments/SR20_13/SR_Biodiversity_on_farmland_EN.pdf
- 57 https://www.eca.europa.eu/en/Pages/DocItem.aspx?did=57066
- 58 https://www.eea.europa.eu/publications/marine-messages-2
- 59 https://nbn.org.uk/wp-content/uploads/2019/09/State-of-Nature-2019-UK-full-report.pdf
- 60 https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal_en
- 61 https://www.leaderspledgefornature.org/

Conservation ambition and action

- Translate global targets for nature's recovery into EU and domestic law.
- Deliver an expanded and better managed network of protected areas (bolstering the existing Emerald and Natura 2000 networks) consistent with global ambition for 30% of land and sea to be protected and well managed by 2030.
 Protected areas (PAs) must include substantial areas under strict protection such as 'no take' marine protected areas and 'no logging' forests allowed to fully recover to near pristine state, as proposed by the EU biodiversity strategy target of putting a third of PAs under strict protection.
- Improve and expand targeted conservation actions for threatened and declining species, populations and habitats.
- Prioritise the large-scale restoration of carbon-rich ecosystems to deliver benefits for both wildlife and the climate.

 There should be a particular focus on grassland, peat, forest and coastal habitats.
- Ensure that carbon sequestration always contributes to ecosystem and biodiversity health and resilience, while adaptation policies to climate change prioritise nature-based solutions and are synergistic with ecosystem restoration.
- Enhance the collaboration across borders (including nations in sub-Saharan Africa) to support the conservation of long-distance migratory birds.

Funding

- Secure adequate funding from national, EU and international levels to support conservation objectives fulfilling, for example, the EU commitment to spend 10% of the EU Budget on biodiversity.
- Provide specific funding to developing countries, especially in sub-Saharan Africa to support conservation of migratory birds on their wintering grounds.
- End perverse subsidies that harm nature (for example by overhauling agriculture policy and reforming agriculture
 incentives to reward wildlife-friendly farming to support the recovery of farmland birds), while ensuring that nature
 objectives are embedded in other funding schemes (for example European Maritime Fisheries and Aquaculture Fund
 and Neighbourhood Development and International Cooperation Instrument).

Regulation and enforcement for sustainable management of land and sea

- To support the recovery of farmland birds, introduce better regulation and law enforcement concerning agricultural practices that are harmful to the environment. In particular, policies should massively reduce the use of pesticides, nitrogen pollution, water over abstraction and simplification of landscapes. Farm policies must support a transition towards agro-ecological practices, and crucially, the provision of a minimum of 10% of landscape features, native vegetation and ecological infrastructure at farm level (as foreseen by the EU Biodiversity Strategy, for example).
- To support the recovery of threatened forest bird species, enable the full and strict protection of vulnerable forests (e.g. primary and old-growth forests), support a transition of forestry towards "close to nature forest management" and champion ecologically compatible afforestation policies (applying the principle of "the right trees in the right places for the right reasons", as indicated in the new EU Forest Strategy).
- Roll out effective policies addressing unsustainable consumption that drives agricultural forestry and fisheries expansion and intensification. Subsidies that boost consumption (e.g. for burning biomass or promoting of meat and dairy) should be removed, waste prevention and recycling must be promoted through circular economy legislation, and socially sensitive policies should support a dietary shift away from animal consumption.
- To support seabird conservation, evolve fisheries policies to eliminate bycatch and restore food chains, while also
 improving biosecurity measures and taking action to reduce the threat posed by invasive non-native species especially
 on seabird breeding grounds.
- To support both migratory bird and raptor conservation, tackle the illegal and legal, unsustainable hunting and persecution (e.g. poisoning) through improved enforcement of national legislation within and beyond the European continent.
- To reduce future pressures on species, ensure energy (including renewable energy) and other infrastructure development are designed, sited and built in harmony with nature, without adversely impacting birds and their habitats.

Monitoring and reporting

- Continue standardised regular monitoring of birds and other taxa, while addressing knowledge gaps (see Section 3.5), to ensure that changes are well understood and measures are taken in a timely manner to prevent further deterioration.
- · Continue monitoring bird species with observed or projected population declines, including common species associated with farmland or forests and considered key indicators of the state of the environment (see Sections 3.3 and 3.4).
- Ensure transparent reporting of progress of EU and national action to encourage scrutiny, accountability and to adapt policies as necessary to improve future conservation success.

5.2 Conclusions

The results of this report show that while there is progress made in the conservation of some European birds, it is clear that if we want to achieve the global targets to 2030, we need an immediate action at a continental scale. While certain threats, e.g., persecution can be tackled relatively easily through legal regulations and implementation, the systemic threats observed in the natural environment (e.g. unsustainable agriculture, forestry or fisheries practices) will require a change that:

- 1. Is transformative, starting from the way we source prime materials, through transportation, production, discarding and recovering resources.
- 2. Involves all stakeholders from consumers to producers, landowners and other businesses.
- 3. Ensures the protection of ecosystems which are still in a good status and the restoration of degraded ones, through adequate implementation, funding and research.

5.3 Future work

The data used for the European Red List of Birds gives a general overview of the threats to birds in Europe. Furthermore, considering that threat analysis can be very complex and difficult to interpret, a more detailed analysis should be the purpose of separate research, perhaps addressed by taxonomic group, type of habitat or geographic region.

Within the scope of further analyses should be the link between the extinction risk and various threat factors for European species breeding in the Arctic, migratory birds, seabirds, species inhabiting the alpine and sub-alpine areas, as well as forest specialists.

The differentiation between the direct and indirect impact of agricultural practices on bird populations should help direct practical measures to benefit nature at systemic level.

In this regard, assessing the differences between the main driving factors of species declines within the territory of the European Union and beyond (as a potential consequence of the different legal and enforcement processes) could provide valuable insights into practices that benefit biodiversity as opposed to those that harm it.

The impact of climate change or invasive non-native species as threats with likely significant impact on species in the future, should be better understood and monitored.

These and many other research topics can be delivered through the data gathered under the European Red List of Birds, while they could largely benefit from a joint approach with other data sources, including spatial analysis, statistical modelling and citizen science.

The European Red List of Birds is part of a wider initiative aimed at assessing the status of European species. Together with other sources like the European Breeding Bird Atlas 2 or the Common Bird Monitoring Scheme, it provides a key resource for decisionmakers, policymakers, resources managers, environmental planners and NGOs. It has gathered large amounts of data on the population, ecology, habitats and threats of each bird species. These data are freely available on the IUCN Red List website (https://www.iucnredlist.org/regions/europe), on the European Commission's website (http://ec.europa. eu/environment/nature/conservation/species/redlist) through paper publications.

The European Red List of Birds will also form the basis for the identification of Species of European Conservation Concern (SPEC), following the methodology developed in the previous assessments (Tucker & Heath 1994, BirdLife International 2004, BirdLife International 2017). It will also be used (depending on the availability of resources) to calculate the Red List Index for European Birds which measures the projected overall regional extinction risk of sets of species, and tracks changes in this

The results presented in this report can be applied to inform policy and identify priority species to include in research and monitoring programmes. It can also serve in the process of measuring progress towards national and international biodiversity targets.

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Appendix

Appendix 1. Red List status, trend and population size estimate, as well as endemism of birds in Europe

Scientific species name	Common species name	Season of assessment	IUCN Red List category (Europe)	IUCN Red List criteria (Europe)	Population trend	Population size [mature individuals] min-max, best estimate	(Near*) endemic to Europe?
Cygnus columbianus	Tundra Swan	W	VU	A4abcde	Decreasing	11700-23500,14600	
Cygnus cygnus	Whooper Swan	В	LC		Increasing	66800-102000,82000	
Cygnus olor	Mute Swan	В	LC		Increasing	169000-236000,199000	
Anser albifrons	Greater White-fronted Goose	W	LC		Stable	1180000-1970000,1420000	
Anser anser	Greylag Goose	W	LC		Increasing	797000-975000,866000	
Anser brachyrhynchus	Pink-footed Goose	W	LC		Increasing	370000-377000,373000	Yes
Anser caerulescens	Snow Goose	В	LC		Increasing	2000-10000,4500	
Anser erythropus	Lesser White-fronted Goose	В	VU	D1	Decreasing	340-530,420	
Anser fabalis	Bean Goose	W	LC		Increasing	468000-647000,534000	
Branta bernicla	Brent Goose	W	LC		Stable	198000-225000,211000	
Branta canadensis	Canada Goose	В	LC		Increasing	20000-100000,44700	
Branta leucopsis	Barnacle Goose	W	LC		Increasing	877000-1010000,939000	Yes
Branta ruficollis	Red-breasted Goose	W	VU	A2bcd+3bcd+4bcd	Decreasing	10000-49400,18800	Yes*
Tadorna ferruginea	Ruddy Shelduck	В	LC		Unknown	35500-64100,46500	
Tadorna tadorna	Common Shelduck	В	LC		Stable	104000-154000,124000	
Anas acuta	Northern Pintail	В	VU	A2bcde+A3bcde+A4bcde	Decreasing	310000-401000,353000	
		-		AZDCUCTADDCUCTA4DCUC			
Anas crecca	Common Teal	W	LC		Increasing	1040000-1640000,1240000	
Anas platyrhynchos	Mallard	W	LC		Decreasing	2830000-3770000,3200000	
Mareca penelope	Eurasian Wigeon	В	LC		Decreasing	451000-733000,574000	
Mareca strepera	Gadwall	В	LC		Increasing	164000-262000,202000	
Marmaronetta angustirostris	Marbled Teal	В	VU	D1	Stable	760-2200	
Spatula clypeata	Northern Shoveler	В	LC		Decreasing	295000-391000,339000	
Spatula querquedula	Garganey	В	LC		Decreasing	681000-920000,789000	
Aythya ferina	Common Pochard	W	VU	A2abcde+3bcde+4abcde	Decreasing	373000-679000,500000	
Aythya fuligula	Tufted Duck	В	NT	A2bcde	Decreasing	879000-1240000,1060000	
Aythya marila	Greater Scaup	В	LC		Decreasing	96400-170000,128000	
Aythya nyroca	Ferruginous Duck	В	LC		Unknown	18000-47000,28600	
Bucephala clangula	Common Goldeneye	В	LC		Decreasing	770000-990000,870000	
Bucephala islandica	Barrow's Goldeneye	В	NT	D2	Stable	1600-1800,1700	
Clangula hyemalis	Long-tailed Duck	W	LC		Decreasing	865000-1610000,1120000	
Histrionicus histrionicus	Harlequin Duck	В	LC		Stable	14000-18000,15700	
Melanitta fusca	Velvet Scoter	В	VU	A2abcde	Decreasing	36800-80300,57100	Yes*
Melanitta nigra	Common Scoter	В	LC		Unknown	45200-71100,56500	Yes*
Mergellus albellus	Smew	В	LC		Stable	21700-34000,27200	
Mergus merganser	Goosander	В	LC		Increasing	162000-267000,208000	
Mergus serrator	Red-breasted Merganser	В	NT	A2bcde+4bcde	Decreasing	141000-282000,198000	
Netta rufina	Red-crested Pochard	В	LC		Decreasing	69300-104000,82000	
Oxyura leucocephala	White-headed Duck	В	VU	C1+2a(i)	Decreasing	1000-1600,1300	
Polysticta stelleri	Steller's Eider	W	LC		Unknown	15800-18400,17000	
Somateria mollissima	Common Eider	В	EN	A4abcde	Decreasing	1220000-1630000,1410000	
Somateria spectabilis	King Eider	W	LC		Unknown	682000-683000,683000	
Bonasa bonasia	Hazel Grouse	В	LC		Unknown	4010000-6960000,5240000	
Lagopus lagopus	Willow Grouse	В	LC		Stable	2560000-4050000,3230000	
Lagopus muta	Rock Ptarmigan	В	LC		Fluctuating	619000-1700000,963000	
Lyrurus mlokosiewiczi	Caucasian Grouse	В	NT	A3cde	Unknown	28300-57600,40300	Yes
Lyrurus tetrix	Black Grouse	В	LC		Unknown	2430000-3750000,3000000	
Tetrao urogallus	Western Capercaillie	В	LC		Decreasing	1590000-3420000,2110000	
Alectoris barbara	Barbary Partridge	В	LC		Unknown	15500-41000,25100	
Alectoris chukar	Chukar	В	LC		Unknown	1350000-3900000,2240000	
Alectoris graeca	Rock Partridge	В	NT	A2bcd+3bcd+4bcd	Decreasing	75300-123000,95400	Yes
					-	9950000-	103
Alectoris rufa	Red-legged Partridge	В	NT	A2bcde+3bcde+4bcde	Decreasing	13700000,11700000	Yes
Ammoperdix griseogularis	See-see Partridge Common Quail	B B	VU NT	C2a(ii)	Decreasing	7900-13600,10200 5000000-9030000,6560000	
Coturnix coturnix			NH	A2bcde+3bcde+4bcde	Decreasing	· >UUUUUUUUUUUUUUUUUUUU 6560000 :	

Scientific species name	Common species name	Season of assessment	IUCN Red List category (Europe)	IUCN Red List criteria (Europe)	Population trend	Population size [mature individuals] min-max, best estimate	(Near*) endemic to Europe?
Perdix perdix	Grey Partridge	В	LC		Decreasing	2290000-3750000,2820000	
Phasianus colchicus	Common Pheasant	В	LC		Stable	9700-16300,12000	
Tetraogallus caspius	Caspian Snowcock	В	LC		Decreasing	8400-20800,13200	
Tetraogallus caucasicus	Caucasian Snowcock	В	LC		Stable	10000-32400,16300	Yes
Turnix sylvaticus	Common Buttonquail	В	RE		N/A	0-0,0	
Gavia adamsii	Yellow-billed Loon	W	VU	D1	Unknown	660-670,670	
Gavia arctica	Arctic Loon	В	LC		Decreasing	142000-194000,166000	
Gavia immer	Common Loon	W	LC		Stable	5700-7200,6300	
Gavia stellata	Red-throated Loon	В	LC		Unknown	91100-146000,115000	
Podiceps auritus	Horned Grebe	В	NT	C1	Decreasing	14200-19200,16100	
Podiceps cristatus	Great Crested Grebe	В	LC	Ci	Stable	772000-1060000,903000	
· · · · · · · · · · · · · · · · · · ·	Red-necked Grebe	В	VU	A2bcde+4bcde		+	
Podiceps grisegena					Decreasing	31200-58500,42100	
Podiceps nigricollis	Black-necked Grebe	В	VU	A2bce+3bce+4bce	Decreasing	71100-116000,88500	
Tachybaptus ruficollis	Little Grebe	В	LC		Stable	209000-390000,275000	
Bulweria bulwerii	Bulwer's Petrel	В	LC		Unknown	92100-103000,97000	
Calonectris borealis	Cory's Shearwater	В	LC		Unknown	503000-506000,505000	Yes*
Calonectris diomedea	Scopoli's Shearwater	В	LC		Unknown	57000-94300,72800	
Fulmarus glacialis	Northern Fulmar	В	VU	A4abcde	Decreasing	6350000-7660000,6790000	
Hydrobates castro	Band-rumped Storm-petrel	В	LC		Unknown	13200-14300,13700	
Hydrobates leucorhous	Leach's Storm-petrel	В	NT	B2ab(v)	Decreasing	117000-176000,141000	
Hydrobates monteiroi	Monteiro's Storm-petrel	В	VU	D1+2	Unknown	720-770,740	Yes
Hydrobates pelagicus	European Storm-petrel	В	LC		Unknown	810000-848000,825000	Yes
Pelagodroma marina	White-faced Storm-petrel	В	EN	B2ab(iii,v)	Decreasing	155000-222000,186000	
Pterodroma deserta	Desertas Petrel	В	VU	D1+2	Stable	320-360,340	Yes
				D1+2 D			
Pterodroma madeira	Zino's Petrel	В	EN		Increasing	130-160,140	Yes
Puffinus Iherminieri	Audubon's Shearwater	В	NT	B2ab(v); C1+2a(i)	Decreasing	5000-11800,7600	.,
Puffinus mauretanicus	Balearic Shearwater	В	CR	A4abcde	Decreasing	5800-5900,5800	Yes
Puffinus puffinus	Manx Shearwater	В	LC		Unknown	693000-779000,733000	Yes
Puffinus yelkouan	Yelkouan Shearwater	В	VU	A2abcde	Unknown	47000-81800,61900	Yes
Morus bassanus	Northern Gannet	В	LC		Increasing	821000-823000,822000	Yes
Pelecanus crispus	Dalmatian Pelican	В	LC		Increasing	7500-9400,8300	
Pelecanus onocrotalus	Great White Pelican	В	LC		Increasing	18700-40700,27400	
Anhinga rufa	African Darter	В	RE		N/A	0,0,0	
Gulosus aristotelis	European Shag	В	LC		Decreasing	142000-162000,152000	Yes
Microcarbo pygmaeus	Pygmy Cormorant	В	LC		Increasing	84600-111000.96600	
Phalacrocorax carbo	Great Cormorant	В	LC		Increasing	828000-1030000,926000	
		В	LC				
Ardea alba	Great White Egret	+			Increasing	79800-132000,102000	
Ardea cinerea	Grey Heron	В	LC		Decreasing	492000-700000,583000	
Ardea purpurea	Purple Heron	В	LC		Increasing	57700-97300,73500	
Ardeola ralloides	Squacco Heron	В	LC		Stable	36600-67000,49300	
Botaurus stellaris	Eurasian Bittern	В	LC		Stable	147000-206000,174000	
Bubulcus ibis	Cattle Egret	В	LC		Increasing	147000-184000,164000	
Ciconia ciconia	White Stork	В	LC		Increasing	502000-563000,530000	Yes
Ciconia nigra	Black Stork	В	LC		Unknown	20200-32400,25400	
Egretta garzetta	Little Egret	В	LC		Decreasing	121000-190000,146000	
Geronticus eremita	Northern Bald Ibis	В	RE		N/A	0-0,0	
Ixobrychus minutus	Common Little Bittern	В	LC		Stable	171000-301000,230000	
Nycticorax nycticorax	Black-crowned Night-heron	В	LC		Stable	114000-169000,137000	
· · · · · · · · · · · · · · · · · · ·		В	LC				
Platalea leucorodia	Eurasian Spoonbill	-			Increasing	23800-36300,29000	
Plegadis falcinellus	Glossy Ibis	В	LC		Increasing	60200-120000,80500	
Phoenicopterus roseus	Greater Flamingo	В	LC		Increasing	71800-265000,144000	
Aegypius monachus	Cinereous Vulture	В	LC		Increasing	5800-6700,6100	
Gypaetus barbatus	Bearded Vulture	В	NT	D1	Increasing	1200-2000,1500	
Gyps fulvus	Griffon Vulture	В	LC		Increasing	69600-89400,75700	
Neophron percnopterus	Egyptian Vulture	В	VU	C1	Decreasing	6100-9000,7100	
Aquila adalberti	Spanish Imperial Eagle	В	VU	D1	Increasing	1000-1100,1100	Yes
Aquila chrysaetos	Golden Eagle	В	LC		Increasing	19200-25600,22100	
Aguila fasciata	Bonelli's Eagle	В	LC		Stable	2100-2500,2300	
Aquila heliaca	Eastern Imperial Eagle	В	LC		Increasing	3900-6000,4800	
Aquila nipalensis	Steppe Eagle	В	CR	A2abcd+3bcd+4abcd	Decreasing	1500-2300,1800	
· · · ·	Short-toed Snake-eagle	В	LC	/ Lubea Juca Thauca			
Circaetus gallicus		В	VU	A2abcde+3bcde+4abcde	Increasing Decreasing	19800-31900,24600 1900-2500,2200	
Clanga clanga	Greater Spotted Eagle						

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Haliaeetus albicilla	White-tailed Sea-eagle	В	LC		Increasing	20900-29200,24500	
Hieraaetus pennatus	Booted Eagle	В	LC		Increasing	46600-60500,52100	
Pandion haliaetus	Osprey	В	LC		Increasing	19200-27100,23000	
Milvus migrans	Black Kite	В	LC		Increasing	372000-507000,433000	
Milvus milvus	Red Kite	В	LC		Increasing	65100-76600,70300	Yes
Circus aeruginosus	Western Marsh-harrier	В	LC		Stable	303000-485000,380000	
Circus cyaneus	Hen Harrier	В	LC		Decreasing	112000-174000,139000	
Circus macrourus	Pallid Harrier	В	LC		Stable	2000-4300,2900	
Circus pygargus	Montagu's Harrier	В	LC		Decreasing	139000-219000,174000	
Buteo buteo	Eurasian Buzzard	В	LC		Increasing	1760000-2460000,2070000	
Buteo lagopus	Rough-legged Buzzard	В	LC		Stable	57600-117000,81400	
Buteo rufinus	Long-legged Buzzard	В	LC		Increasing	27600-45800,35300	
Pernis apivorus	European Honey-buzzard	В	LC		Stable	241000-350000,289000	Yes
Accipiter badius	Shikra	В	NT⁰	D1	Stable	200-1100,450	
Accipiter brevipes	Levant Sparrowhawk	В	LC		Stable	7700-15300,10800	
Accipiter gentilis	Northern Goshawk	В	LC		Decreasing	234000-380000,291000	
Accipiter nisus	Eurasian Sparrowhawk	В	LC		Stable	728000-1150000,915000	
Elanus caeruleus	Black-winged Kite	В	LC		Stable	2600-5700,3800	
Falco biarmicus	Lanner Falcon	В	NT	D1	Unknown	840-1700,1200	
Falco cherrug	Saker Falcon	В	EN	C1	Decreasing	860-1300,1100	
Falco columbarius	Merlin	В	VU	A2bce	Decreasing	40100-83400,59200	
Falco eleonorae	Eleonora's Falcon	В	LC		Stable	28400-28900,28600	Yes*
Falco naumanni	Lesser Kestrel	В	LC		Stable	65900-85200,73400	
Falco peregrinus	Peregrine Falcon	В	LC		Increasing	32200-62100,41300	
Falco rusticolus	Gyrfalcon	В	LC		Stable	2000-3500,2600	
Falco subbuteo	Eurasian Hobby	В	LC		Stable	280000-437000,342000	
	Common Kestrel	В					
Falco tinnunculus		+	LC	A 2 - la - d - d - la - d -	Decreasing	823000-1270000,991000	
Falco vespertinus	Red-footed Falcon	В	VU	A2abcde+4abcde	Decreasing	115000-170000,140000	
Crex crex	Corncrake	В	LC		Decreasing	2310000-3430000,2800000	
Fulica atra	Common Coot	В	NT	A2abcde+4abcde	Decreasing	2030000-3360000,2590000	
Fulica cristata	Red-knobbed Coot	В	CR	C2a(ii)	Decreasing	42-90,60	
Gallinula chloropus	Common Moorhen	В	LC		Decreasing	1790000-2670000,2150000	
Porphyrio porphyrio	Purple Swamphen	В	LC		Fluctuating	30400-114000,56500	
Porzana porzana	Spotted Crake	В	LC		Decreasing	200000-289000,235000	
Rallus aquaticus	Western Water Rail	В	LC		Unknown	315000-653000,438000	
Zapornia parva	Little Crake	В	LC		Unknown	82000-203000,121000	
Zapornia pusilla	Baillon's Crake	В	LC		Unknown	2000-4800,3000	
Anthropoides virgo	Demoiselle Crane	В	EN	A2bcd+3bcd+4bcd	Decreasing	9300-11900,10500	
Grus grus	Common Crane	В	LC		Increasing	309000-423000,362000	
Chlamydotis macqueenii	Asian Houbara	В	CR (PE)	D	Decreasing	0-0,0	
Chlamydotis undulata	African Houbara	В	VU	D1	Increasing	610-620,620	
Otis tarda	Great Bustard	В	LC		Decreasing	35200-41800,38300	
Tetrax tetrax	Little Bustard	В	VU	A2bcde+4bcde	Decreasing	194000-280000,228000	
Actitis hypoleucos	Common Sandpiper	В	LC		Decreasing	2060000-2980000,2460000	
Arenaria interpres	Ruddy Turnstone	W	LC		Stable	57200-67300,61400	
Burhinus oedicnemus	Eurasian Thick-knee	В	LC		Decreasing	123000-193000,152000	
Calidris alba	Sanderling	W	LC		Increasing	50200-66800,57400	
Calidris alpina	Dunlin	W	LC		Stable	865000-1050000,937000	
Calidris bairdii	Baird's Sandpiper	В	LC°°		Unknown	200-1000,450	
Calidris canutus	Red Knot	W	LC		Decreasing	268000-325000,296000	
Calidris falcinellus	Broad-billed Sandpiper	VV B	VU	A2bc+3bc+4bc			
					Decreasing	40500-70700,52500	
Calidris ferruginea	Curlew Sandpiper	W	VU	D1	Increasing	170000 106000 185000	
Calidris maritima	Purple Sandpiper	W	LC		Unknown	179000-196000,185000	
Calidris minuta	Little Stint	В	LC		Unknown	80200-122000,98400	
Calidris pugnax	Ruff	В	NT	A2abcde+3bcde+4abcde	Decreasing	513000-1380000,841000	
Calidris temminckii	Temminck's Stint	В	LC		Unknown	166000-248000,203000	
Charadrius alexandrinus	Kentish Plover	В	LC		Decreasing	34900-67400,46600	
Charadrius asiaticus	Caspian Plover	В	EN⁰	D	Unknown	6-60,25	
Charadrius dubius	Little Ringed Plover	В	LC		Decreasing	425000-634000,513000	
Charadrius hiaticula	Common Ringed Plover	В	LC		Increasing	261000-399000,323000	
Charadrius leschenaultii	Greater Sandplover	В	NT	D1	Decreasing	1300-2400,1700	
Cursorius cursor	Cream-coloured Courser	В	NT	D1	Unknown	1300-1600,1400	
Eudromias morinellus	Eurasian Dotterel	В	LC		Unknown	21100-43100,31300	
Gallinago gallinago	Common Snipe	В	VU	A2bcde+3bcde+4bcde	Decreasing	5270000-7260000,6160000	
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Gallinago media	Great Snipe	В	LC		Decreasing	104000-181000,136000	
Gallinago megala	Swinhoe's Snipe	В	NT ⁰⁰⁰	D1	Unknown	20-60,35	
Gallinago stenura	Pintail Snipe	В	LC		Unknown	20000-38000,27600	
Glareola nordmanni	Black-winged Pratincole	В	LC		Stable	12000-24200,17000	
Glareola pratincola	Collared Pratincole	В	LC		Decreasing	17500-35000,23800	
Haematopus ostralegus	Eurasian Oystercatcher	В	VU	A4abcde	Decreasing	526000-692000,598000	
Himantopus himantopus	Black-winged Stilt	В	LC		Increasing	101000-269000,158000	
Limosa lapponica	Bar-tailed Godwit	W	LC		Stable	98600-119000,108000	
Limosa limosa	Black-tailed Godwit	В	NT	A2bcde	Stable	272000-334000,300000	
Lymnocryptes minimus	Jack Snipe	В	LC		Unknown	30500-77700,51100	
Numenius arquata	Eurasian Curlew	В	NT	A2bcde+4bcde	Decreasing	405000-553000,470000	
Numenius phaeopus	Whimbrel	В	LC		Unknown	674000-774000,719000	
Numenius tenuirostris	Slender-billed Curlew	W	CR (PE)	D	N/A	0-0,0	
Phalaropus fulicarius	Red Phalarope	В	LC	_	Unknown	30400-62200,43400	
Phalaropus lobatus	Red-necked Phalarope	В	LC		Unknown	551000-834000,678000	
· · · · · · · · · · · · · · · · · · ·	Eurasian Golden Plover	В	LC		Stable		Yes*
Pluvialis apricaria						1660000-2310000,1960000	res"
Pluvialis squatarola	Grey Plover	W	LC		Stable	84800-119000,95100	
Recurvirostra avosetta	Pied Avocet	В	LC		Decreasing	81200-155000,95300	
Scolopax rusticola	Eurasian Woodcock	В	LC		Decreasing	9790000- 13500000,11500000	
Tringa erythropus	Spotted Redshank	В	LC		Unknown	37900-81300,56300	
Tringa glareola	Wood Sandpiper	В	LC		Unknown	2090000-2920000,2480000	
Tringa nebularia	Common Greenshank	В	LC		Increasing	452000-942000,646000	
Tringa ochropus	Green Sandpiper	В	LC		Unknown	1180000-1850000,1470000	
Tringa stagnatilis	Marsh Sandpiper	В	LC		Decreasing	18200-28800,22900	
Tringa totanus	Common Redshank	В	VU	A2bcde+4bcde	Decreasing	522000-694000,596000	
Vanellus gregarius	Sociable Lapwing	В	CR	A2bcde+3bcde+4bcde;	Decreasing	6-20,11	
Vanellus indicus	Dod wattled Languing	В	VU ⁰⁰	C1+2a(i,ii); D D1	Unknown	40.60.40	
	Red-wattled Lapwing			וט		40-60,49	
Vanellus leucurus	White-tailed Lapwing	В	LC		Stable	2200-20400,6600	
Vanellus spinosus	Spur-winged Lapwing	В	LC		Unknown	2100-3300,2700	
Vanellus vanellus	Northern Lapwing	В	VU	A2bcde	Decreasing	3180000-4590000,3820000	
Xenus cinereus	Terek Sandpiper	В	LC		Decreasing	80300-121000,98400	
Catharacta skua	Great Skua	В	LC		Increasing	25800-30000,27600	Yes
Stercorarius longicaudus	Long-tailed Jaeger	В	LC		Fluctuating	73200-161000,112000	
Stercorarius parasiticus	Arctic Jaeger	В	EN	A4bcde	Decreasing	54200-83000,66000	
Stercorarius pomarinus	Pomarine Jaeger	В	LC		Unknown	5000-8100,6300	
Hydrocoloeus minutus	Little Gull	В	LC		Unknown	64300-125000,88900	
Larus argentatus	European Herring Gull	В	LC		Decreasing	1060000-1220000,1130000	Yes
Larus armenicus	Armenian Gull	В	LC		Unknown	44400-71800,56000	Yes
Larus audouinii	Audouin's Gull	В	VU	A3bce+4abce	Decreasing	31400-42000,36300	Yes
Larus cachinnans	Caspian Gull	В	LC		Increasing	231000-400000,303000	
Larus canus	Mew Gull	В	LC		Unknown	1920000-2600000,2250000	
Larus fuscus	Lesser Black-backed Gull	В	LC		Increasing	738000-828000,781000	
Larus genei	Slender-billed Gull	В	VU	A4bcde	Decreasing	61100-73200,66300	
	Iceland Gull	В	LC	A4DCue			
Larus glaucoides		+			Stable	100000-200000,141000	
Larus hyperboreus	Glaucous Gull	В	LC		Stable	69200-246000,125000	
Larus ichthyaetus	Pallas's Gull	В	LC		Increasing	34700-56300,43900	
Larus marinus	Great Black-backed Gull	В	LC		Stable	172000-215000,196000	
Larus melanocephalus	Mediterranean Gull	В	LC		Decreasing	128000-203000,160000	Yes
Larus michahellis	Yellow-legged Gull	В	LC		Unknown	830000-1110000,947000	Yes
Larus ridibundus	Black-headed Gull	В	LC		Decreasing	2810000-4120000,3380000	
Onychoprion fuscatus	Sooty Tern	В	VU ⁰⁰	D1	Unknown	2-2,2	
Pagophila eburnea	Ivory Gull	В	VU	C1	Decreasing	8600-11600,9900	
Rhodostethia rosea	Ross's Gull	В	EN⁰	D	Fluctuating	10-10,10	
Rissa tridactyla	Black-legged Kittiwake	В	VU	A2abcd+3bcd+4abcd	Decreasing	3250000-3450000,3330000	
Xema sabini	Sabine's Gull	В	LC		Increasing	2000-2100,2000	
Gelochelidon nilotica	Common Gull-billed Tern	В	LC		Stable	26700-37400,30900	
Hydroprogne caspia	Caspian Tern	В	LC		Stable	12700-19900,15700	
Sterna dougallii	Roseate Tern	В	LC			4900-6200,5500	
					Increasing		
Sterna hirundo	Common Tern	В	LC		Unknown	881000-1430000,1120000	
Sterna paradisaea	Arctic Tern	В	LC		Stable	1060000-1510000,1220000	
Sternula albifrons	Little Tern	В	LC		Decreasing	66800-101000,81600	

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Thalasseus sandvicensis	Sandwich Tern	В	LC		Increasing	160000-320000,258000	
Chlidonias hybrida	Whiskered Tern	В	LC		Increasing	117000-294000,177000	
Chlidonias leucopterus	White-winged Tern	В	LC		Unknown	176000-432000,262000	
Chlidonias niger	Black Tern	В	LC		Unknown	225000-355000,280000	
Alca torda	Razorbill	В	LC		Increasing	519000-1070000,763000	Yes
Alle alle	Little Auk	В	LC		Unknown	7600000- 77000000,76400000	
Cepphus grylle	Black Guillemot	В	LC		Unknown	368000-397000,380000	
Fratercula arctica	Atlantic Puffin	В	EN	A2abcde+4abcde	Decreasing	7400000-8240000,7820000	Yes
Uria aalge	Common Murre	В	LC		Increasing	2990000-4430000,3660000	
Uria lomvia	Thick-billed Murre	В	LC		Decreasing	3410000-4560000,3950000	
Pterocles alchata	Pin-tailed Sandgrouse	В	LC		Stable	15000-18800,16600	
Pterocles orientalis	Black-bellied Sandgrouse	В	EN	A2bcde+4bcde	Decreasing	14900-37700,24300	
Syrrhaptes paradoxus	Pallas's Sandgrouse	В	RE	712DCuc 1 +DCuc	N/A	0-0,0	
Columba bollii	Dark-tailed Laurel-pigeon	В	LC		Unknown		Yes
	+	+		D1-L(:::) - 2-L(:::)		2500-10000,5000	
Columba junoniae	White-tailed Laurel-pigeon	В	NT	B1ab(iii)+2ab(iii)	Unknown	1000-2500,1600	Yes
Columba livia	Rock Dove	В	LC		Unknown	6840000- 14200000,9710000	
Columba oenas	Stock Dove	В	LC		Increasing	1360000-2290000,1700000	Yes
Columba palumbus	Common Woodpigeon	В	LC		Increasing	41400000- 57600000,48400000	Yes
Columba trocaz	Madeira Laurel-pigeon	В	LC		Increasing	10000-14000,11800	Yes
Spilopelia senegalensis	Laughing Dove	В	LC		Increasing	141000-328000,210000	
Streptopelia decaocto	Eurasian Collared-dove	В	LC		Stable	17900000- 44100000,25500000	
Streptopelia turtur	European Turtle-dove	В	VU	A2bcde+4bcde	Decreasing	5020000-9510000,6900000	
Clamator glandarius	Great Spotted Cuckoo	В	VU	A2bcd+3bcd+4bcd	Decreasing	293000-316000,301000	
Cuculus canorus	Common Cuckoo	В	LC		Decreasing	8640000- 13600000,10800000	
Cuculus optatus	Oriental Cuckoo	В	LC		Unknown	240000-310000,273000	
Aegolius funereus	Boreal Owl	В	LC		Fluctuating	189000-471000,288000	
Asio flammeus	Short-eared Owl	В	LC		Fluctuating	169000-284000,215000	
Asio otus	Northern Long-eared Owl	В	LC		Unknown	624000-1030000,788000	
Athene noctua	Little Owl	В	LC		Unknown	+	
Bubo bubo	Eurasian Eagle-owl	В	LC		Increasing	1150000-2140000,1560000 37100-59500,45900	
	Snowy Owl	В	LC			 	
Bubo scandiacus	'	+	LC		Fluctuating	2400-5400,3500	
Glaucidium passerinum	Eurasian Pygmy-owl	В		-	Stable	165000-313000,230000	
Ketupa zeylonensis	Brown Fish-owl	В	EN	D	Unknown	100-160,130	
Otus brucei	Pallid Scops-owl	В	EN	D	Stable	100-500,220	.,
Otus cyprius	Cyprus Scops-owl	В	LC		Stable	6000-10000,7700	Yes
Otus scops	Eurasian Scops-owl	В	LC		Stable	447000-749000,566000	
Strix aluco	Tawny Owl	В	LC		Stable	1260000-1870000,1520000	
Strix nebulosa	Great Grey Owl	В	LC		Stable	12400-19900,15700	
Strix uralensis	Ural Owl	В	LC		Increasing	160000-263000,203000	
Surnia ulula	Northern Hawk-owl	В	LC		Increasing	20800-92400,36800	
Tyto alba	Common Barn-owl	В	LC		Decreasing	164000-356000,239000	
Caprimulgus europaeus	European Nightjar	В	LC		Unknown	1190000-2220000,1620000	
Caprimulgus ruficollis	Red-necked Nightjar	В	NT	A2bc+3bc+4bc	Decreasing	202000-270000,233000	
Apus affinis	Little Swift	В	NT	A2bc; C1	Decreasing	1500-4800,2700	
Apus apus	Common Swift	В	NT	A2bc+3bc+4bc	Decreasing	32200000- 56700000,41700000	
Apus caffer	White-rumped Swift	В	NT°	D1	Increasing	500-700,590	
Apus pallidus	Pallid Swift	В	LC		Unknown	152000-424000,230000	
Apus unicolor	Plain Swift	В	LC		Unknown	15000-40000,24100	Yes
Tachymarptis melba	Alpine Swift	В	LC		Unknown	647000-1460000,960000	
<i>Upupa ерор</i> ѕ	Common Hoopoe	В	LC		Stable	2740000-6410000,4030000	
Alcedo atthis	Common Kingfisher	В	LC		Decreasing	179000-440000,270000	
Ceryle rudis	Pied Kingfisher	В	VU	D1	Decreasing	600-1000,770	
•		В					
Halcyon smyrnensis	White-breasted Kingfisher	+	VU	D1	Decreasing	300-500,390	
Coracias garrulus Merops apiaster	European Roller European Bee-eater	В	LC		Decreasing Stable	102000-208000,138000 7370000-	
· · ·						11200000,8970000	
Merops persicus	Blue-cheeked Bee-eater	В	LC		Increasing	16900-55600,30400	
Dendrocopos leucotos	White-backed Woodpecker	В	LC		Decreasing	420000-822000,585000	

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Dendrocopos major	Great Spotted Woodpecker	В	LC		Decreasing	17200000- 27300000,21500000	
Dendrocopos syriacus	Syrian Woodpecker	В	LC		Unknown	645000-1540000,988000	
Dryobates minor	Lesser Spotted Woodpecker	В	LC		Increasing	1510000-3020000,2130000	
Dryocopus martius	Black Woodpecker	В	LC		Unknown	1240000-2270000,1670000	
Jynx torquilla	Eurasian Wryneck	В	LC		Stable	1590000-3040000,2190000	
Leiopicus medius	Middle Spotted Woodpecker	В	LC		Increasing	802000-1390000,1050000	Yes
Picoides tridactylus	Three-toed Woodpecker	В	LC		Unknown	603000-1120000,816000	
Picus canus	Grey-faced Woodpecker	В	LC		Increasing	365000-609000,470000	
Picus sharpei	Iberian Green Woodpecker	В	LC		Decreasing	488000-938000,671000	Yes
Picus viridis	Eurasian Green Woodpecker	В	LC		Stable	1200000-2050000,1560000	Yes
Panurus biarmicus	Bearded Reedling	В	LC		Increasing	343000-783000,496000	163
Alauda arvensis	Eurasian Skylark	В	LC		Decreasing	87800000-	
	<u> </u>					132000000,106000000	
Alauda leucoptera	White-winged Lark	В	LC		Stable	40000-110000,66300	
Alaudala rufescens	Lesser Short-toed Lark	В	LC		Decreasing	1700000-3070000,2250000	
Ammomanes deserti	Desert Lark	В	EN	D	Decreasing	40-200,90	
Calandrella brachydactyla	Greater Short-toed Lark	В	LC		Unknown	9300000- 17400000,12700000	
Chersophilus duponti	Dupont's Lark	В	VU	A2bc+3bc+4bc; C1+2a(i)	Decreasing	4600-4700,4700	
Eremophila alpestris	Horned Lark	В	LC		Unknown	4130000- 12300000,7090000	
Galerida cristata	Crested Lark	В	LC		Decreasing	34300000- 47500000,39900000	
Galerida theklae	Thekla's Lark	В	LC		Increasing	3500000-5690000,4380000	
Lullula arborea	Woodlark	В	LC		Decreasing	4290000-9130000,6010000	Yes
Melanocorypha bimaculata	Bimaculated Lark	В	LC		Unknown	2000000-4020000,2840000	
Melanocorypha calandra	Calandra Lark	В	LC		Decreasing	19800000- 38400000,27500000	
Melanocorypha yeltoniensis	Black Lark	В	EN	D	Decreasing	60-150,90	
Cecropis daurica	Red-rumped Swallow	В	LC		Increasing	2860000-6680000,4450000	
Delichon urbicum	Northern House Martin	В	LC		Stable	2300000-	
Hirundo rustica	Barn Swallow	В	LC		Decreasing	48100000,33000000 51900000- 89500000,66500000	
Ptyonoprogne rupestris	Eurasian Crag Martin	В	LC		Stable	420000-816000,562000	
Riparia riparia	Collared Sand Martin	В	LC		Decreasing	13400000- 19800000,15900000	
Anthus berthelotii	Berthelot's Pipit	В	LC		Unknown	60000-300000,134000	Yes
Anthus campestris	Tawny Pipit	В	LC		Unknown	2240000-4050000,2980000	
Anthus cervinus	Red-throated Pipit	В	LC		Unknown	2210000-4240000,3060000	
Anthus gustavi	Pechora Pipit	В	CR (PE)	D	N/A	0-0,0	
Anthus hodgsoni	Olive-backed Pipit	В	LC		Unknown	160000-280000,212000	
Anthus petrosus	Rock Pipit	В	LC		Unknown	334000-571000,433000	Yes
Anthus pratensis	Meadow Pipit	В	LC		Decreasing	22000000-	Yes
Anthus spinoletta	Water Pipit	В	LC		Decreasing	29800000,25100000 2100000-5280000,3110000	
Anthus trivialis	Tree Pipit	В	LC		Decreasing	38900000- 70100000,52000000	
Motacilla alba	White Wagtail	В	LC		Stable	30300000- 51100000,39000000	
Motacilla cinerea	Grey Wagtail	В	LC		Stable	2240000-4750000,3260000	
motacina ciricica		D	LC		Increasing	803000-1150000,963000	
Motacilla citreola	Citrine Wagtail	В					
Motacilla citreola Motacilla flava	Western Yellow Wagtail	В	LC		Decreasing	26700000- 36000000,30800000	
Motacilla citreola Motacilla flava Cinclus cinclus	Western Yellow Wagtail White-throated Dipper	B B	LC		Decreasing Decreasing	36000000,30800000 222000-547000,335000	
Motacilla citreola Motacilla flava	Western Yellow Wagtail	В	LC LC		Decreasing Increasing	36000000,30800000	
Motacilla citreola Motacilla flava Cinclus cinclus	Western Yellow Wagtail White-throated Dipper	B B	LC		Decreasing	36000000,30800000 222000-547000,335000	
Motacilla citreola Motacilla flava Cinclus cinclus Bombycilla garrulus Prunella atrogularis Prunella collaris	Western Yellow Wagtail White-throated Dipper Bohemian Waxwing Black-throated Accentor Alpine Accentor	B B B B	LC LC LC		Decreasing Increasing Unknown Stable	36000000,30800000 222000-547000,335000 1300000-2540000,1820000 3000-4800,3800 203000-379000,271000	
Motacilla citreola Motacilla flava Cinclus cinclus Bombycilla garrulus Prunella atrogularis Prunella collaris Prunella modularis	Western Yellow Wagtail White-throated Dipper Bohemian Waxwing Black-throated Accentor Alpine Accentor Dunnock	B B B B B	LC LC LC		Decreasing Increasing Unknown Stable Decreasing	36000000,30800000 222000-547000,335000 1300000-2540000,1820000 3000-4800,3800 203000-379000,271000 22100000- 37000000,26800000	
Motacilla citreola Motacilla flava Cinclus cinclus Bombycilla garrulus Prunella atrogularis Prunella collaris Prunella modularis Prunella montanella	Western Yellow Wagtail White-throated Dipper Bohemian Waxwing Black-throated Accentor Alpine Accentor Dunnock Siberian Accentor	B B B B B B	LC LC LC LC		Decreasing Increasing Unknown Stable Decreasing Unknown	36000000,30800000 222000-547000,335000 1300000-2540000,1820000 3000-4800,3800 203000-379000,271000 22100000- 37000000,26800000 24400-46000,33500	
Motacilla citreola Motacilla flava Cinclus cinclus Bombycilla garrulus Prunella atrogularis Prunella collaris Prunella modularis	Western Yellow Wagtail White-throated Dipper Bohemian Waxwing Black-throated Accentor Alpine Accentor Dunnock	B B B B B	LC LC LC		Decreasing Increasing Unknown Stable Decreasing	36000000,30800000 222000-547000,335000 1300000-2540000,1820000 3000-4800,3800 203000-379000,271000 22100000- 37000000,26800000	

Scientific species name	Common species name	Season of assessment	IUCN Red List category (Europe)	IUCN Red List criteria (Europe)	Population trend	Population size [mature individuals] min-max, best estimate	(Near*) endemic to Europe?
Cyanecula svecica	Bluethroat	В	LC		Stable	7930000- 14800000,10900000	
Erithacus rubecula	European Robin	В	LC		Stable	109000000- 168000000,133000000	Yes
Irania gutturalis	White-throated Robin	В	LC		Unknown	809000-1820000,1210000	
Luscinia luscinia	Thrush Nightingale	В	LC		Increasing	8790000- 14300000,11100000	
Luscinia megarhynchos	Common Nightingale	В	LC		Stable	20400000- 30700000,24800000	
Monticola saxatilis	Rufous-tailed Rock-thrush	В	LC		Unknown	179000-572000,310000	
Monticola solitarius	Blue Rock-thrush	В	LC		Unknown	201000-463000,301000	
Oenanthe chrysopygia	Red-tailed Wheatear	В	VU⁰	D1	Stable	90-120,100	
Oenanthe cypriaca	Cyprus Wheatear	В	LC		Increasing	100000-200000,141000	Yes
Oenanthe deserti	Desert Wheatear	В	NT⁰	D1	Unknown	220-2200,700	
Oenanthe finschii	Finsch's Wheatear	В	LC		Unknown	204000-617000,354000	
Oenanthe hispanica	Black-eared Wheatear	В	LC		Unknown	2530000-7250000,4280000	
Oenanthe isabellina	Isabelline Wheatear	В	LC		Unknown	4620000- 13200000,7740000	
Oenanthe leucura	Black Wheatear	В	LC		Stable	8100-32200,13000	
Oenanthe oenanthe	Northern Wheatear	В	LC		Unknown	10800000- 29300000,17500000	
Oenanthe pleschanka	Pied Wheatear	В	LC		Unknown	54500-99700,70400	
Oenanthe xanthoprymna	Kurdish Wheatear	В	LC		Unknown	2000-12000,4600	
Phoenicurus erythrogastrus	White-winged Redstart	В	NT	C1	Decreasing	3400-15000,6600	
Phoenicurus ochruros	Black Redstart	В	LC		Stable	13100000- 21300000,16600000	
Phoenicurus phoenicurus	Common Redstart	В	LC		Increasing	10500000- 19600000,14400000	
Saxicola dacotiae	Fuerteventura Stonechat	В	NT	B1ab(ii,iii); C2a(ii)	Unknown	13300-15500,14400	Yes
Saxicola rubetra	Whinchat	В	LC		Decreasing	15400000- 21100000,18100000	Yes
Saxicola torquatus	Common Stonechat	В	LC		Decreasing	11800000- 18400000,14600000	
Tarsiger cyanurus	Orange-flanked Bush-robin	В	LC		Increasing	481000-892000,653000	
Turdus atrogularis	Black-throated Thrush	В	LC		Unknown	50000-80000,63200	
Turdus iliacus	Redwing	В	LC		Decreasing	16200000- 28100000,21300000	
Turdus merula	Eurasian Blackbird	В	LC		Increasing	116000000- 176000000,140000000	
Turdus philomelos	Song Thrush	В	LC		Stable	47300000- 77900000,59700000	
Turdus pilaris	Fieldfare	В	LC		Stable	23000000- 44700000,32000000	
Turdus torquatus	Ring Ouzel	В	LC		Stable	552000-1160000,779000	Yes
Turdus viscivorus	Mistle Thrush	В	LC		Stable	7300000- 13600000,9720000	
Zoothera aurea	White's Thrush	В	LC		Unknown	20000-34000,26100	
Acrocephalus agricola	Paddyfield Warbler	В	LC		Stable	466000-703000,568000	
Acrocephalus arundinaceus	Great Reed-warbler	В	LC		Stable	4760000-8880000,6410000	
Acrocephalus dumetorum	Blyth's Reed-warbler	В	LC		Increasing	6240000- 10900000,8210000	
Acrocephalus melanopogon	Moustached Warbler	В	LC		Stable	73800-188000,110000	
Acrocephalus paludicola	Aquatic Warbler	В	VU	B2ab(i,ii,iii,iv,v)	Decreasing	18300-28500,22700	Yes
Acrocephalus palustris	Marsh Warbler	В	LC		Unknown	11700000- 17000000,14100000	Yes
Acrocephalus schoenobaenus	Sedge Warbler	В	LC		Unknown	9170000- 13700000,11000000	
Acrocephalus scirpaceus	Common Reed-warbler	В	LC		Stable	3890000-6630000,5060000	
Cettia cetti	Cetti's Warbler	В	LC		Stable	4080000-6550000,5110000	
Cisticola juncidis	Zitting Cisticola	В	LC		Stable	2270000-3680000,2750000	
Hippolais icterina	Icterine Warbler	В	LC		Decreasing	4720000-8430000,6270000	Yes
Hippolais languida	Upcher's Warbler	В	LC		Unknown	36800-90200,55900	
Hippolais olivetorum	Olive-tree Warbler	В	LC		Stable	21500-47700,31800	Yes
Hippolais polyglotta	Melodious Warbler	В	LC		Increasing	4270000-7070000,5210000	Yes
Iduna caligata	Booted Warbler	В	LC		Increasing	800000-1010000,896000	
Iduna opaca	Isabelline Warbler	В	LC		Stable	10000-10000,10000	
lduna pallida	Olivaceous Warbler	В	LC		Unknown	6510000- 13600000,9360000	

Scientific species name	Common species name	Season of assessment	IUCN Red List category (Europe)	IUCN Red List criteria (Europe)	Population trend	Population size [mature individuals] min-max, best estimate	(Near*) endemic to Europe?
Iduna rama	Sykes's Warbler	В	LC		Unknown	8000-14100,10600	
Locustella fluviatilis	River Warbler	В	LC		Decreasing	2780000-4960000,3670000	Yes
Locustella lanceolata	Lanceolated Warbler	В	LC		Unknown	40000-60000,49000	
Locustella luscinioides	Savi's Warbler	В	LC		Unknown	749000-1310000,981000	
Locustella naevia	Common Grasshopper- warbler	В	LC		Decreasing	1270000-2250000,1660000	
Phylloscopus bonelli	Western Bonelli's Warbler	В	LC		Increasing	4800000-6360000,5490000	Yes
Phylloscopus borealis	Arctic Warbler	В	LC		Increasing	6000000-8010000,6930000	
Phylloscopus canariensis	Canary Islands Chiffchaff	В	LC		Unknown	40000-200000,89400	Yes
Phylloscopus collybita	Common Chiffchaff	В	LC		Stable	72100000- 114000000,89400000	
Phylloscopus ibericus	Iberian Chiffchaff	В	LC		Stable	924000-1540000,1190000	Yes
Phylloscopus inornatus	Yellow-browed Warbler	В	LC		Unknown	40000-60000,49000	
Phylloscopus nitidus	Green Warbler	В	LC		Increasing	935000-1870000,1320000	
Phylloscopus orientalis	Eastern Bonelli's Warbler	В	LC		Unknown	58500-196000,105000	Yes
Phylloscopus sibilatrix	Wood Warbler	В	LC		Decreasing	16200000- 28500000,21400000	Yes
Phylloscopus sindianus	Mountain Chiffchaff	В	LC		Unknown	213000-644000,298000	
Phylloscopus trochiloides	Greenish Warbler	В	LC		Increasing	8080000- 15300000,11100000	
Phylloscopus trochilus	Willow Warbler	В	LC		Decreasing	106000000- 161000000,130000000	
Prinia gracilis	Graceful Prinia	В	LC		Unknown	2000-8000,4000	
Sylvia atricapilla	Eurasian Blackcap	В	LC		Increasing	88400000- 138000000,108000000	Yes
Curruca balearica	Balearic Warbler	В	LC		Stable	28000-50000,37400	Yes
Sylvia borin	Garden Warbler	В	LC		Decreasing	23200000- 38900000,30200000	Yes
Curruca cantillans	Subalpine Warbler	В	LC		Increasing	7040000- 10700000,8490000	Yes
Curruca communis	Common Whitethroat	В	LC		Increasing	39200000- 59200000,47800000	
Curruca conspicillata	Spectacled Warbler	В	LC		Stable	327000-891000,535000	
Curruca crassirostris	Eastern Orphean Warbler	В	LC		Unknown	131000-411000,231000	
Curruca curruca	Lesser Whitethroat	В	LC		Stable	9750000- 16700000,12600000	
Curruca hortensis	Western Orphean Warbler	В	LC		Increasing	247000-493000,349000	
Curruca melanocephala	Sardinian Warbler	В	LC		Stable	15400000- 32100000,21400000	
Curruca melanothorax	Cyprus Warbler	В	LC		Stable	120000-180000,147000	Yes
Curruca mystacea	Menetries's Warbler	В	LC		Increasing	107000-254000,162000	
Curruca nana	Asian Desert Warbler	В	VU⁰	D1	Unknown	80-140,110	
Curruca nisoria	Barred Warbler	В	LC	<u> </u>	Increasing	1150000-2110000,1530000	
Curruca ruppeli	Rüppel's Warbler	В	LC		Unknown	206000-1030000,458000	Yes
Curruca sarda	Marmora's Warbler	В	LC		Unknown	120000-130000,124000	Yes
Curruca subalpina	Moltoni's Warbler	В	LC		Increasing	102000-265000,164000	Yes
Curruca undata	Dartford Warbler	В	NT	A2bc+3bc+4bc	Decreasing	1190000-2860000,1750000	Yes
Regulus ignicapilla	Common Firecrest	В	LC	AZUCTJUCTAUC	Increasing	9120000- 16300000,12100000	Yes
Regulus madeirensis	Madeira Firecrest	В	LC		Increasing	100000-200000,141000	Yes
Regulus regulus	Goldcrest	В	LC		Decreasing	29100000- 50400000,37400000	ies
Troglodytes troglodytes	Northern Wren	В	LC		Increasing	66500000- 113000000,80200000	
Ficedula albicollis	Collared Flycatcher	В	LC		Stable	3210000-5130000,4010000	Yes
Ficedula hypoleuca	European Pied Flycatcher	В	LC		Decreasing	15500000- 24900000,19600000	Yes
Ficedula parva	Red-breasted Flycatcher	В	LC		Increasing	3590000-6870000,4930000	Yes
Ficedula semitorquata	Semi-collared Flycatcher	В	LC		Unknown	60300-297000,123000	Yes
Muscicapa striata	Spotted Flycatcher	В	LC		Decreasing	20600000- 37400000,27900000	163
Aegithalos caudatus	Long-tailed Tit	В	LC		Stable	16300000- 29200000,21500000	
Cyanistes caeruleus	Eurasian Blue Tit	В	LC		Increasing	59700000- 95100000,73400000	Yes
Cyanistes cyanus	Azure Tit	В	NT	C1	Decreasing	5000-15700,8800	
Cyanistes teneriffae	African Blue Tit	В	LC	-	Unknown	40600-201000,90100	

Scientific species name	Common species name	Season of assessment	IUCN Red List category (Europe)	IUCN Red List criteria (Europe)	Population trend	Population size [mature individuals] min-max, best estimate	(Near*) endemic to Europe?
Lophophanes cristatus	Crested Tit	В	LC		Decreasing	9230000- 16500000,12100000	Yes
Parus major	Great Tit	В	LC		Stable	127000000- 205000000,158000000	
Periparus ater	Coal Tit	В	LC		Stable	31500000- 55700000,40600000	
Poecile cinctus	Siberian Tit	В	LC		Decreasing	507000-1100000,755000	
Poecile hyrcanus	Caspian Tit	В	LC		Stable	1000-5000,2200	
Poecile lugubris	Sombre Tit	В	LC		Unknown	902000-2670000,1550000	Yes
Poecile montanus	Willow Tit	В	LC		Decreasing	14000000- 25400000,18800000	
Poecile palustris	Marsh Tit	В	LC		Stable	7480000- 13300000,9850000	
Remiz pendulinus	Eurasian Penduline-tit	В	LC		Increasing	518000-940000,689000	
Sitta europaea	Eurasian Nuthatch	В	LC		Stable	19000000- 34700000,25100000	
Sitta krueperi	Krueper's Nuthatch	В	LC		Unknown	256000-944000,485000	Yes
Sitta neumayer	Western Rock Nuthatch	В	LC		Unknown	2030000- 10200000,4540000	Yes
Sitta tanhranata	Eastern Rock Nuthatch	В	LC		Unknown		
Sitta tephronota				C22(ii)		33400-107000,59300	Voc
Sitta whiteheadi	Corsican Nuthatch	В	VU	C2a(ii)	Decreasing	3000-4400,3800	Yes
Tichodroma muraria	Wallcreeper	В	LC		Unknown	26300-96900,48800	
Certhia brachydactyla	Short-toed Treecreeper	В	LC		Increasing	10100000- 16800000,12900000	Yes
Certhia familiaris	Eurasian Treecreeper	В	LC		Increasing	10900000- 19200000,14400000	
Lanius collurio	Red-backed Shrike	В	LC		Decreasing	16400000- 26000000,20400000	
Lanius excubitor	Great Grey Shrike	В	LC		Decreasing	128000-250000,175000	
Lanius meridionalis	Iberian Grey Shrike	В	VU	A2abc+3bc+4abc	Decreasing	721000-1220000,932000	Yes
Lanius minor	Lesser Grey Shrike	В	LC		Decreasing	752000-1610000,1060000	
Lanius nubicus	Masked Shrike	В	LC		Unknown	72400-213000,124000	
Lanius senator	Woodchat Shrike	В	NT	A2bcde+3bcde+4bcde	Decreasing	3860000-6240000,4890000	
Pycnonotus xanthopygos	White-spectacled Bulbul	В	LC		Unknown	12000-36000,20800	
Argya altirostris	Iraq Babbler	В	NT ⁰⁰	D1	Unknown	80-160,110	
Corvus corax	Common Raven	В	LC		Increasing	1170000-3570000,1720000	
Corvus corone	Carrion Crow	В	LC		Stable	16200000- 27500000,20800000	
Corvus frugilegus	Rook	В	VU	A2bcde+4bcde	Decreasing	11400000- 21300000,15000000	
Corvus monedula	Eurasian Jackdaw	В	LC		Increasing	17800000- 36200000,24700000	
Cyanopica cooki	Iberian Azure-winged Magpie	В	LC		Increasing	713000-1800000,1080000	Yes
Garrulus glandarius	Eurasian Jay	В	LC		Stable	12000000- 23100000,16400000	
Nucifraga caryocatactes	Northern Nutcracker	В	LC		Stable	596000-1220000,846000	
Perisoreus infaustus		В	LC				
Pica pica	Siberian Jay Eurasian Magpie	В	LC		Unknown Stable	426000-830000,615000 19300000-	
Pyrrhocorax graculus	Yellow-billed Chough	В	LC		Unknown	31300000,24100000	
	-					218000-550000,340000	
Pyrrhocorax pyrrhocorax	Red-billed Chough	В	LC		Unknown	84600-197000,120000	
Pastor roseus Sturnus unicolor	Rosy Starling Spotless Starling	B B	LC LC		Fluctuating Stable	101000-403000,187000 47700000-	Yes
Sturnus vulgaris	Common Starling	В	LC		Stable	61400000,54100000 53300000-	
Oriolus oriolus	Eurasian Golden Oriole	В	LC		Stable	94400000,69900000 8740000-	
						14600000,11200000	
Carpospiza brachydactyla	Pale Sparrow Chestnut-shouldered Bush-	В	LC		Stable	12700-24100,17300	
Gymnoris xanthocollis Montifringilla nivalis	sparrow White-winged Snowfinch	B B	LC		Unknown	1000-4000,2000 255000-1120000,526000	
monuningilia nivalis	winte-winged showlind	U			OHKHOWH	270000000-	
Passer domesticus	House Sparrow	В	LC		Decreasing	378000000,316000000	
Passer hispaniolensis	Spanish Sparrow	В	LC	A21 21 "	Unknown	7560000- 200000000,120000000	.,
Passer italiae	Italian Sparrow	В	VU	A2bce+3bce+4bce	Decreasing	4240000-6900000,5360000	Yes
Passer moabiticus	Dead Sea Sparrow	В	LC		Unknown	2000-6000,3500	

Scientific species name	Common species name	Season of assessment	IUCN Red List category (Europe)	IUCN Red List criteria (Europe)	Population trend	Population size [mature individuals] min-max, best estimate	(Near*) endemic to Europe?
Passer montanus	Eurasian Tree Sparrow	В	LC		Decreasing	53700000- 76000000,63300000	
Petronia petronia	Rock Sparrow	В	LC		Increasing	4320000-9340000,6270000	
Acanthis flammea	Redpoll	В	LC		Increasing	9010000- 19100000,13200000	
Bucanetes githagineus	Trumpeter Finch	В	LC		Unknown	21300-44000,30500	
Bucanetes mongolicus	Mongolian Finch	В	LC		Unknown	1100-3200,1800	
Carduelis carduelis	European Goldfinch	В	LC		Increasing	56100000- 88700000,68900000	
Carduelis citrinella	Citril Finch	В	LC		Fluctuating	502000-569000,530000	Yes
Carduelis corsicana	Corsican Finch	В	LC		Unknown	26000-51000,36400	Yes
Carpodacus erythrinus	Common Rosefinch	В	LC		Decreasing	6830000- 14000000,9730000	
Carpodacus rubicilla	Great Rosefinch	В	LC		Unknown	5800-23600,10500	
Chloris chloris	European Greenfinch	В	LC		Decreasing	41500000- 64400000,50800000	Yes
Coccothraustes coccothraustes	Hawfinch	В	LC		Increasing	7280000- 12100000,9290000	
Fringilla coelebs	Common Chaffinch	В	LC		Stable	308000000- 462000000,371000000	
Fringilla montifringilla	Brambling	В	LC		Decreasing	14000000- 26000000,19500000	
Fringilla polatzeki	Gran Canaria Blue Chaffinch	В	EN	D	Increasing	430-430,430	Yes
Fringilla teydea	Tenerife Blue Chaffinch	В	NT	D2	Increasing	2000-5000,3200	Yes
Linaria cannabina	Common Linnet	В	LC		Increasing	35800000- 64400000,46100000	
Linaria flavirostris	Twite	В	LC		Unknown	159000-548000,285000	
Pinicola enucleator	Pine Grosbeak	В	LC		Stable	254000-448000,341000	
Pyrrhula murina	Azores Bullfinch	В	VU	D1+2	Stable	510-1700,970	Yes
Pyrrhula pyrrhula	Eurasian Bullfinch	В	LC		Increasing	9790000- 17300000,12900000	
Rhodopechys sanguineus	Eurasian Crimson-winged Finch	В	LC		Unknown	107000-411000,209000	
Rhodospiza obsoleta	Desert Finch	В	LC		Fluctuating	6100-12400,8700	
Serinus canaria	Island Canary	В	LC		Stable	2380000-4970000,3820000	Yes
Serinus pusillus	Red-fronted Serin	В	LC		Unknown	594000-1920000,1050000	
Serinus serinus	European Serin	В	LC		Decreasing	35200000- 55900000,43000000	Yes
Spinus spinus	Eurasian Siskin	В	LC		Stable	13700000- 25800000,19000000	
Loxia curvirostra	Red Crossbill	В	LC		Stable	5610000- 14200000,9020000	
Loxia leucoptera	Two-barred Crossbill	В	LC		Stable	204000-613000,354000	
Loxia pytyopsittacus	Parrot Crossbill	В	LC		Fluctuating	416000-957000,648000	Yes
Loxia scotica	Scottish Crossbill	В	LC		Unknown	8100-22700,13600	Yes
Calcarius lapponicus	Lapland Longspur	В	LC		Unknown	3120000-5170000,4000000	
Emberiza aureola	Yellow-breasted Bunting	В	CR	A2bcd+3bcd+4bcd	Decreasing	1200-2500,1700	
Emberiza bruniceps	Red-headed Bunting	В	LC		Increasing	8400-25000,14500	
Emberiza buchanani	Grey-necked Bunting	В	LC		Unknown	13800-40300,23400	.,
Emberiza caesia Emberiza calandra	Cretzschmar's Bunting Corn Bunting	B B	LC		Unknown Decreasing	230000-451000,320000 42200000-	Yes
					<u> </u>	67800000,52100000	
Emberiza cia	Rock Bunting	В	LC	C1	Decreasing	3880000-8580000,5640000	Vas
Emberiza cineracea	Cinereous Bunting	B B	NT LC	C1	Decreasing	5300-10400,7400	Yes
Emberiza cirlus Emberiza citrinella	Cirl Bunting Yellowhammer	В	LC		Decreasing Decreasing	4910000-9150000,6570000 39000000- 54000000 45500000	Yes
Emberiza hortulana	Ortolan Bunting	В	LC		Decreasing	54000000,45500000 7220000-	
Emberiza leucocephalos	Pine Bunting	В	RE		N/A	11300000,8940000 0-0,0	
Emberiza melanocephala	Black-headed Bunting	В	LC		Unknown	4940000- 17900000,9080000	
Emberiza pallasi	Pallas's Bunting	В	LC		Unknown	20000-34000,26100	
Emberiza pusilla	Little Bunting	В	LC		Unknown	5020000-7070000,5960000	
Emberiza rustica	Rustic Bunting	В	LC		Decreasing	834000-1640000,1220000	
Emberiza schoeniclus	Reed Bunting	В	LC		Decreasing	9500000-	
Plectrophenax nivalis	Snow Bunting	В	LC		Unknown	16700000,12300000 2510000-4940000,3480000	

Appendix 2. Countries and territories covered by the European Red List of Birds

COUNTRIES AN	D TERRITORIES
Albania	Italy
Andorra	Kosovo
Armenia	Latvia
Austria	Liechtenstein
Azerbaijan	Lithuania
The Azores	Luxembourg
Belarus	Northern Macedonia
Belgium	Madeira
Bosnia and Herzegovina	Malta
Bulgaria	Moldova
The Canary Islands	Montenegro
Croatia	The Netherlands
Cyprus	Norway
Czechia	Poland
Denmark	Portugal
Estonia	Romania
The Faroe Islands	European Russia
Finland	Serbia
France	Slovakia
Georgia	Slovenia
Germany	Spain
Gibraltar	Svalbard and Jan Mayen
Greece	Sweden
Greenland	Switzerland
Hungary	Turkey
Iceland	Ukraine
Ireland	The United Kingdom







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Page 9: Kingfisher (*Alcedo atthis*) – Photo: Jan Veber; Steppe Eagle (*Aquila nipalensis*) – Photo: 4028mdk09; Black-necked Grebe (*Podiceps nigricollis*) – Photo: Martin Mecnarowski; Yellow-breasted Bunting (*Emberiza aureola*) – Photo: Hiyashi Haka; Atlantic Puffin(*Fratercula arctica*) – Photo: Sue Cro; Woodchat Shrike (*Lanius senator*) - Photo: Juan Emilio; Demoiselle Crane (*Anthropoides virgo*) - Photo: Istock; Northern Pintail (*Anas acuta*) – Photo: Ivan Dudáček; Greater Spotted Eagle (*Clanga clanga*) – Photo: Koshy Koshy; Rook (*Corvus frugilegus*) – Photo: Jiřina Chalupská; Atlantic Puffin (*Fratercula arctica*) – Photo: Martha de Jong-Lantink; Common Eider (*Somateria mollissima*) – Photo: Ondřej Prosický; Common Redshank (*Tringa totanus*) – Photo: Britt-Marie Sohlström; Red-necked Grebe (*Podiceps grisegena*) – Photo: Becky Matsubara; Balearic Shearwater (*Puffinus mauretanicus*) – Photo: Cabrera Natura; Sooty Tern (*Onychoprion fuscatus*) - Photo: Istock; Greater Spotted Eagle (*Clanga clanga*) – Photo: Peter Steward; Common Quail (*Coturnix coturnix*) – Photo: Petr Šaj; Atlantic Puffin (*Fratercula arctica*) – Photo: Sue Cro; Gran Canaria Blue Chaffinch (*Fringilla polatzeki*) – Photo: Miguel Angel Peña Estévez; Arctic Skua (*Stercorarius parasiticus*) – Photo: Tony Morris; Red-knobbed Coot (*Fulica cristata*) – Photo: Muchaxo; Eurasian Curlew (*Numenius arquata*) – Photo: Petr Šaj; Azure Tit (*Cynaistes cyanus*) - Photo: Istock; Red-necked Grebe (*Podiceps grisegena*) – Photo: Kim Taylor; Greater Spotted Eagle (*Clanga clanga*) – Photo: Swati Kulkarni; Black-tailed Godwit (*Limosa limosa*) – Photo: Petr Šaj; Red-necked Grebe (*Podiceps grisegena*) – Photo: Mah Connor; Demoiselle Crane (*Anthropoides virgo*) – Photo: Adrian Drummond-Hill; Common Redshank (*Tringa totanus*) – Photo: Britt-Marie Sohlström

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Common Redshank (*Tringa totanus*) – Photo: Britt-Marie Sohlström; Northern Pintail (*Anas acuta*) – Photo: Ivan Dudáček;

Page 23: Common Eider (*Somateria mollissima*) - Photo: Ondřej Prosický; Common Quail (*Coturnix coturnix*) – Photo: Petr Šaj;

 $Red-necked\ Grebe\ (\textit{Podiceps grisegena}) - Photo:\ Becky\ Matsubara;\ Black-necked\ Grebe\ (\textit{Podiceps nigricollis}) - Photo:\ Martin\ Mecnarowski$



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European Red List of Birds

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