





# Common breeding birds in Italy

Update of population trends and Farmland Bird Indicator for the National Rural Network





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The english and italian versions of the brochure, together with the technica in italian, can be downloaded from: www.reterurale.it/farmlandbirdindex www.mito2000.it

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## Cover photo

Tawny Pipit by Pietro Fadda



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ased on data collected by MITO2000 (the Italian monitoring scheme that actively contributes to the Pan-European Common Bird Monitoring Scheme - PECBMS), common breeding birds in Italy show a general moderate decline with

an aggregate indicator value of 84% between 2000 and 2013 (All common birds indicator - ALL). Other bird indicators considered are: common farmland birds (FBI), common mountain grassland birds (FBI<sub>pm</sub>) and common forest birds (WBI). These indicators are functional tools to survey and to communicate the overall pattern of population changes for each group of species.

Farmland bird species are still decli-

**ning**, confirming the trend of the last few years.

In the 2013 the FBI value is 83% of the value of

the first year. Twenty-seven species are used

to calculate the FBI (see the table on page 11-

12-13); of these, 13 have declined, 10 have in-

creased and 4 have remained stable. Species

typical of Mediterranean pseudo-steppes such

as Skylark and Greater Short-toed Lark, and

those typical of heterogeneous farmland with

semi-natural elements as hedges, woodlots,

dry stone walls, etc such as Red-backed Shri-

ke, Wryneck and Stonechat, are among the

species that show a negative trend. The situation is critical for all the species in the genus

Passer, in particular the Spanish Sparrow, al-

though all three species in the genus show a

general decreasing trend.

In the specific context of rural development policy, FBI is used by National Rural Network as the baseline indicator for calculating the "Population of farmland birds" (see the box on page 6). Since 2009, MITO2000 data has been used also to calculate the FBI at the regional level; regional technical reports are downloadable from the webpage http://www.reterurale.it/farmlandbirdindex.

The FBI<sub>pm</sub> shows an even more obvious and pronounced decline, falling by 29% over the last 14 years. Six of these species have remained stable, seven have declined moderately and no species has increased; only one species trend, Rock Thrush, is classified as uncertain.

**Common forest birds appear to still be** increasing, and indeed the WBI trend has remained almost unchanged with a value equal to 120% compared to the first year of data collection. Only two species out of 23 are declining (Bullfinch and Goldcrest), while 15 species are increasing and five are remaining stable. Forest cover has increased over most of the national territory – by 7.7%, about 500,000 hectares, just in the period 1990-2008. The trend towards deforestation that prevailed over the last several centuries has now been completely reversed, and forest cover is extensive in many parts of Italy, with a consequent reduction in open habitats. Despite this, the exploitation of forest resources has increased recently and is projected to continue to do so, with more wood extracted for the production of energy.

Indicators trends are a good tool for assessing population dynamics but for an exhaustive analysis of the conservation status of a species this information must be combined with other kinds of data, such as range and population size. For these reasons, we believe that in addition to presenting the results of the MITO2000 project, it will be useful to add the conservation status of species as defined by LIPU and the extinction risk as defined in the Italian Red List of breeding birds in accordance with IUCN criteria to the table on pages 11-13.

The

indicators



The

indicators

# Birds of mountain grassland

In this brochure we have chosen to investigate the status of birds of mountain grassland; these species show an overall unfavourable conservation status: of the 14 species that contribute to calculating the FBI<sub>pm</sub>, none has a positive trend. These data underscore an alarming situation caused by the synergic action of a number of very different factors. Some, such as climate change, are difficult to confront effectively, at least on a local scale; others, such as the abandonment of traditional agricultural activities, may instead be tackled by land-use policies such as rural development policy. Rising temperatures result in a higher treeline at the expense of alpine grasslands and shru-

Rising temperatures result in a higher treeline at the expense of alpine grasslands and shrublands. In the subalpine belt at lower altitudes the abandonment of traditional agricultural and livestock activities that preserved open habitats from forestation caused the decline of a number of grassland species. These two phenomena often appear to act synergistically: while warmer temperatures encourage the growth of vegetation at increasingly higher ele-

vations, the lack of grazing on the part of cattle helps accelerate the loss of open habitats. At lower altitudes, this process is compounded by the abandonment of other agricultural practices, such as mowing meadows.

The alpine areas at the highest elevations are probably the most sensitive to climate change, as they are typified by very specific conditions that many species depend on, including those in the FBI<sub>pm</sub>. On the other hand, reduced farming activities, or the shift towards less traditional and more intensive forms of farming, probably affects areas at lower elevations even more dramatically: many high-elevation species had spread to lower-elevation areas thanks to human-induced changes in the landscape, human action, forests have been replaced by grasslands and meadows and many opencountry species found suitable conditions for breeding in these artificial habitats; these spe-cies include Whinchat, Ring Ouzel, and Tree Pipit. This is particularly evident in the Apennines and in the Prealps where, unlike in the Alps, the extent of native, high-elevation open habitats is very limited. These species were able to take advantage of these man-made habitats, including the meadows and pastures where Whinchats breed and the forest-pasture ecotone that is home to Ring Ouzels and Tree Pipits. As a result of social and economic changes, which have been particularly pronounced in mountain areas and which have led to their depopulation and the disappearance of traditional activities, many species associated with pastures and grasslands showed population declines or disappeared altogether. These processes are especially evident at lower elevations where, as a result of abandonment, the natural forestation process is faster.

The Whinchat, which prefers rich meadows and wet pastures, and the Water Pipit, which prefers meadows and pastures with rocks or bare areas, are two of the species most closely associated with high-elevation grasslands, and both are decreasing. Another species that occurs in grasslands, albeit with a greater presence of rocky outcrops is the Northern Wheatear, whose population is generally stable, although it is experiencing range contractions and local extinctions in the northern Apennines and the Prealps. The Rock Thrush is typical of rocky areas of the Mediterranean mountains and shows a marked preference for the most exposed and sunny areas. It is a rare and localized species, often present at low densities even in the most suitable sites; general population trends are difficult to estimate, although at least in the areas at lower altitudes there is a generalized decrea-

Classification of common Italian breeding birds into classes of population trends

se. The **Black Redstart** uses similar habitats and is often the commonest species in pastures and meadows with bare and rocky areas; in recent decades, it has successfully colonized many urban areas where it nests in buildings. Its population trend is broadly stable, with new populations establishing themselves locally in hillside and lowland towns. The **Yellowhammer** and the **Carrion Crow** are two of the species most tied to meadows and arable land. During the breeding period, they frequent edge

The Common Agricultural Policy (CAP) represents the set of rules that the European Union has adopted in recognition of the centrality of the agricultural sector for the sustainable development of member states. European agriculture is not only a productive activity, it is also a source of public goods and is called upon to fulfil several functions: to provide healthy food, to protect the environment, to ensure farmers a dignified standard of living, and to preserve rural communities and the landscape. The CAP is based on two financial pillars: the first pillar provides direct payments to farmers, and the second support for rural development. The new CAP for the period 2014-2020 is still being programmed.

# habitats. The Yellowhammer show a negative mon Redpoll; more widespread over 1500 trend while the Carrion Crow is stable. Conmeters, in recent decades this typical finch of

versely, two other species that inhabit habitat ecotones show a stable population trend: the Tree Pipit and the Ring Ouzel. Sensitive to the abandonment of grazing in the mountains. the Ring Ouzel nests mainly in habitat ecotones near the treeline, but also within very open forests, such as larch woods, preferably if gra-

Wind-twisted high-elevation scrub (mugo pine, alder and rhododendron) is the breeding habitat of the **Lesser Whitethroat**, a widespread species in the Alps, especially the Centraleastern Alps, and the **Dunnock**, which also occurs in deciduous and coniferous forest edge and is widespread both in the Alps and northern Apennines.

The Lesser Whitethroat's population is stable, while that of the Dunnock is undergoing a moderate decline.

Open conifer woodlands, interspersed with alpine heathlands and shrublands, are the pre-

ferred habitat of another species, the Com-

high mountains has begun to nest in certain farmed valley bottoms (Trentino Alto Adige).

The Fieldfare was absent from the Alps until the 1970s but now breeds in a wide range of habitats characterized by uneven tree cover and the presence of open areas: orchards, woodlands next to croplands or wetlands in certain alpine valley bottoms, the margins of mountain conifer forests, parks and suburban gardens. During the period in question, the Fieldfare experienced a population decrease that highlights its sensitivity to changes in agriculture but also to the reclamation of wetlands. The Garden Warbler shows a moderate decline; it is a long distance migrant and a common breeder in the western and central Alps, and locally in the Apennines and the Po Valley. It nests in shrublands and cool, humid woodlands, often near water, at high elevations or in humid dells in the Alps and along certain watercourses in the western Po Valley.

It would thus be desirable for the rural development planning for 2014-2020 to include measures favourable to species of mountain grassland through the protection and restoration of the habitats on which they depend.

# Population trends 2000 - 2013

he table below shows the population trends of common birds in Italy as measured by the MITO2000 project, from 2000 to 2013. Species names and Scientific names are given in the first two columns. The scientific names are listed alphabetically for ease of use.

Annual change ± SE (%) represents the average percentage change per year in the 14 years with its standard error (SE); it measures the trend's inaccuracy, and this indirectly its reliability, for the time period in question. Trend classification (2000-2013) describes, using arrows and colours, population trends classified as follows (definitions recommended by EBCC):

- strong increase increase significantly more than 5% per year (5% would mean a doubling in abundance within 15 years). Criterion: lower limit of confidence interval > 1.05;
- moderate increase significant increase. but not significantly more than 5% per year. Criterion: 1.00 < lower limit of confidence inter-
- stable no significant increase or decline, and most probable trends are less than 5% per year. Criterion: confidence interval encloses 1.00 but lower limit > 0.95 and upper limit < 1.05;
- moderate decline significant decline, but not significantly more than 5% per year. Criterion: 0.95 < upper limit of confidence interval
- steep decline **vv** decline significantly more than 5% per year (5% would mean a halving in abundance within 15 years). Criterion: upper limit of confidence interval < 0.95.

A low number of pairs counted and/or a high trends (moderate increase instead of strong increase, stable instead of moderate increase), or the upper category for negative trends stable instead of moderate decline).

• uncertain ? no significant increase or decline, and unlikely trends are less than 5% per year. Criterion: confidence interval encloses 1.00 but lower limit < 0.95 or upper limit > 1.05.

The **Squares** lists the number of 10x10 km squares whose ornithological data were used to calculate population trends for each species, namely the number of squares visited at least twice in the 2000-2013 period in which the species was present; this makes it possible to assess sample size for each species. A total of 958 10x10 km squares were used for the analysis (in order to be included, a square must have been visited at least twice). The Indicator column refers to the breakdown of species in accordance with habitat preferences at the national scale, as follows:

- farmland species whose population trends are used to calculate the FBI,
- mountain grassland species whose population trends are used to calculate the  $FBI_{pm}$ ,
- forest species whose population trends are used to calculate the WBI.

All species help define the overall indicator for common birds (ALL).

In order to provide a more comprehensive fra-



mework, additional information on MITO2000 target species was added, drawn from other studies carried out at the national scale.

The **Conservation status** column lists species according to the following conservation categories:

• Favourable conservation status the

- Favourable conservation status the species can thrive without any changes to current management strategies;
- Inadequate conservation status the species requires a change in management policies, but is not at risk of extinction;
- Poor conservation status the species is seriously threatened with extinction (at least at the local level);
- Unknown conservation status there is insufficient information for an assessment to be made.

For more information on the methodology used to define the conservation status of italian birds, see Gustin et al., 2009, 2010a,b¹, which publications can be downloaded here http://www.uccellidaproteggere.it/content/download/2151/20482/file/stato%20di%20 conservazione1.pdf and here http://www.minambiente.it/sites/default/files/archivio/allegati/vari/relazione%20fina-le%20progetto%20fsc%2021%20aprile%202009.pdf.

Finally, the Red List column indicates the category assigned to each species in the 2011 Red List of Italian breeding birds. The categories are: Regionally Extinct (RE), Critically Endangered (CR), Endangered (EN), Vulnerable (VU), Near-threatened (NT), Data Deficient (DD), Least Concern (LC), Not Applicable (NA). The categories CR, EN, VU (threatened species) apply to species at high to very high short-term extinction risk at the national level; NT applies to species which have a real possibility of being upgraded to threatened in the near future; LC applies to species that are not at imminent risk of extinction (even if slowly declining and/or relatively rare); DD applies to species for which there is insufficient data to assess their extinction risk; NA applies to nonnative species, irregular breeders, and species that only recently colonized Italy; RE applies to species that have recently become extinct in

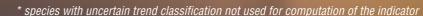
For more information on the categories and criteria adopted to compile the national Red List, see Peronace et al., 2012<sup>2</sup> and the following websites: http://ciso-coi.it/avocetta/archivio-pubblicazioni and www.iucnredlist.org.

1 Gustin M., Brambilla M. & Celada C., 2009. Valutazione dello stato di conservazione dell'avifauna italiana. LIPU & MATTM pp.1156 Gustin M., Brambilla M. & Celada C., 2010a. Valutazione dello stato di conservazione dell'avifauna italiana. Volume I. Non-Passeriformes. MATTM & LIPU pp.842

Gustin M., Brambilla M. & Celada C., 2010b. Valutazione dello stato di conservazione dell'avifauna italiana. Volume II. Passeriformes. MATTM & LIPU pp.1186

2 Peronace V., Cecere J.G., Gustin M., Rondinini C., 2012. Lista Rossa 2011 degli Uccelli Nidificanti in Italia. Avocetta 36:11-58

Scientific names	Species names	Annual change ± SE (%)	Trend classification 2000-2013	Squares	Indicator	Conservation status	Red List
Acrocephalus arundinaceus	Great Reed Warbler	-3.6 (±0.9)		117			NT
Acrocephalus palustris	Marsh Warbler	-5.0 (±1.2)	_	86			LC
Acrocephalus scirpaceus	Reed Warbler	-1.6 (±0.9)		153			LC
Aegithalos caudatus	Long-tailed Tit	2.3 (±0.7)		595	WBI		LC
Alauda arvensis	Skylark	-4.0 (±0.4)		528	FBI		VU - A2bc
Anthus campestris	Tawny Pipit	-2.0 (±1.1)	•	155	FBI		LC
Anthus spinoletta	Water Pipit	-2.8 (±0.8)		110	FBI <sub>pm</sub>		LC
Anthus trivialis	Tree Pipit	-1.0 (±0.7)	•	211	FBI <sub>pm</sub>		VU - A2bc
Buteo buteo	Common Buzzard	1.4 (±0.4)		772			LC
Calandrella brachydactyla	Greater Short-toed Lark	-4.9 (±1.3)		90	FBI		EN - A2bc
Carduelis cannabina	Linnet	-2.9 (±0.5)		497			NT
Carduelis carduelis	European Goldfinch	-3.1 (±0.2)		918	FBI		NT
Carduelis chloris	European Greenfinch	-3.7 (±0.3)	_	836	FBI		NT
Carduelis flammea	Common Redpoll	-4.8 (±1.7)	_	63	FBI <sub>pm</sub>		LC
Certhia brachydactyla	Short-toed Treecreeper	6.7 (±0.7)		503	WBI		LC
Certhia familiaris	Common Treecreeper	3.8 (±1.7)		101	WBI		LC
Cettia cetti	Cetti's Warbler	-1.2 (±0.5)		479			LC
Cisticola juncidis	Zitting Cisticola	0.3 (±0.5)	•	441			LC
Columba palumbus	Woodpigeon	12.2 (±0.5)		723			LC
Corvus cornix	Hooded Crow	1.5 (±0.2)		852	FBI		LC
Corvus corone	Carrion Crow	-1.5 (±0.9)	•	154	FBI <sub>pm</sub>		LC
Corvus corax	Common Raven	-0.1 (±1.0)	•	284			LC
Coturnix coturnix	Common Quail	2.0 (±0.6)		435			DD
Cuculus canorus	Common Cuckoo	-1.6 (±0.3)		802			LC
Cyanistes caeruleus	Blue Tit	4.2 (±0.4)		791	WBI		LC
Delichon urbicum	House Martin	-1.6 (±0.4)		848			NT
Dendrocopos major	Great Spotted Woodpecker	3.9 (±0.4)	_	702	WBI		LC
Dryocopus martius	Black Woodpecker	-0.2 (±1.8)		113	WBI		LC
Emberiza calandra	Corn Bunting	1.2 (±0.4)		569	FBI		LC
Emberiza cia	Rock Bunting	-0.5 (±1.0)		215			LC
Emberiza cirlus	Cirl Bunting	0.9 (±0.3)	_	623			LC
Emberiza citrinella	Yellowhammer	-2.5 (±0.8)		176	FBI <sub>pm</sub>		LC
Emberiza hortulana	Ortolan Bunting	5.2 (±1.8)	_	67	FBI		DD



STABLE UNCERTAIN

Scientific names	Species names	Annual change ± SE (%)	Trend classification 2000-2013	Squares	Indicator	Conservation status	Red List
Erithacus rubecula	European Robin	1.9 (±0.3)		705	WBI		LC
Falco tinnunculus	Eurasian Kestrel	1.6 (±0.4)		767	FBI		LC
Fringilla coelebs	Common Chaffinch	0.6 (±0.2)		865	WBI		LC
Galerida cristata	Crested Lark	-1.1 (±0.4)	_	348	FBI		LC
Garrulus glandarius	Eurasian Jay	1.6 (±0.3)		822	WBI		LC
Hippolais polyglotta	Melodious Warbler	3.1 (±0.7)		323			LC
Hirundo rustica	Barn Swallow	-1.3 (±0.3)		866	FBI		NT
Jynx torquilla	Wryneck	-6.2 (±0.7)		382	FBI		EN - A2b
Lanius collurio	Red-backed Shrike	-4.4 (±0.5)		559	FBI		VU - A2bc
Lanius senator	Woodchat Shrike	-11.5 (±1.0)		198			EN - A2bc
Lophophanes cristatus	Crested Tit	0.3 (±1.1)		171	WBI		LC
Lullula arborea	Woodlark	2.2 (±0.6)		375			LC
Luscinia megarhynchos	Nightingale	-0.1 (±0.3)		705	FBI		LC
Melanocorypha calandra	Calandra Lark	-	?	57	FBI*		VU - A2ac
Merops apiaster	European Bee-eater	3.7 (±0.7)		424			LC
Monticola saxatilis	Rock Thrush	-	?	44	FBI <sub>pm</sub> *		VU - A2ac
Monticola solitarius	Blue Rock Thrush	-1.5 (±1.6)		126			LC
Motacilla alba	White Wagtail	0.1 (±0.4)		728	FBI		LC
Motacilla cinerea	Grey Wagtail	-0.5 (±0.8)		363			LC
Motacilla flava	Yellow Wagtail	-2.8 (±0.6)		194	FBI		VU - A2bc
Muscicapa striata	Spotted Flycatcher	-1.8 (±0.6)		528			LC
Nucifraga caryocatactes	Spotted Nutcracker	0.7 (±1.2)		97	WBI		LC
Oenanthe oenanthe	Northern Wheatear	1.2 (±0.8)		169	FBIpm		NT
Oriolus oriolus	Golden Oriole	4.6 (±0.4)		558	FBI		LC
Parus major	Great Tit	1.0 (±0.3)		930			LC
Passer italiae	Italian Sparrow	-3.9 (±0.3)	_	794	FBI		VU - A2bc
Passer hispaniolensis	Spanish Sparrow	-5.7 (±0.7)		127	FBI		VU - A2bc
Passer montanus	Tree sparrow	-3.3 (±0.4)	_	671	FBI		VU - A2bc
Periparus ater	Coal Tit	-0.2 (±0.5)	•	391	WBI		LC
Phoenicurus ochruros	Black Redstart	1.0 (±0.5)		390	FBIpm		LC
Phoenicurus phoenicurus	Common Redstart	7.2 (±0.6)	AA	496			LC
Phylloscopus bonelli	Western Bonelli's Warbler	2.6 (±0.7)		272	WBI		LC
Phylloscopus collybita	Common Chiffchaff	-0.4 (±0.3)	•	591	WBI		LC

species with	uncertain trend	classification not t	used for computation	of the indicator

STEEP STABLE UNCERTAIN

FAVOURABLE POOR INADEQUATE UNKNOWN

Scientific names	Species names	Annual change ± SE (%)	Trend classification 2000-2013	Squares	Indicator	Conservation status	Red List
Pica pica	Eurasian Magpie	2.5 (±0.3)		704	FBI		LC
Picus viridis	Green Woodpecker	3.8 (±0.4)	_	653			LC
Poecile montanus	Willow Tit	1.6 (±1.3)		115	WBI		LC
Poecile palustris	Marsh Tit	3.6 (±0.8)		344	WBI		LC
Prunella collaris	Alpine Accentor	-	?	53	*		LC
Prunella modularis	Dunnock	-1.9 (±0.8)	_	136	FBI <sub>pm</sub>		LC
Ptyonoprogne rupestris	Crag Martin	-0.9 (±0.9)		260			LC
Pyrrhula pyrrhula	Eurasian Bullfinch	-2.7 (±0.9)	_	213	WBI		VU - A2b
Regulus ignicapilla	Firecrest	2.5 (±0.7)		399	WBI		LC
Regulus regulus	Goldcrest	-3.3 (±0.9)		158	WBI		NT
Saxicola rubetra	Whinchat	-5.5 (±1.3)		88	FBIpm		LC
Saxicola torquatus	European Stonechat	-5.2 (±0.4)	_	637	FBI		VU - A2bc
Serinus serinus	European Serin	0.0 (±0.2)		874	FBI		LC
Sitta europaea	Eurasian Nuthatch	4.4 (±0.7)		470	WBI		LC
Streptopelia decaocto	Eurasian Collared Dove	5.9 (±0.4)		697			LC
Streptopelia turtur	Turtle Dove	0.8 (±0.3)		704	FBI		LC
Sturnus unicolor	Spotless Starling	4.2 (±0.9)		113	FBI		LC
Sturnus vulgaris	European Starling	1.8 (±0.4)	A	580	FBI		LC
Sylvia atricapilla	Blackcap	2.1 (±0.2)		924			LC
Sylvia borin	Garden Warbler	-7.1 (±1.4)		71	FBIpm		LC
Sylvia cantillans/subalpina	Subalpine Warbler (inc. Moltoni's Warbler)	2.9 (±0.6)		486			LC
Sylvia communis	Common Whitethroat	-1.5 (±0.6)	_	369	TARR		LC
Sylvia conspicillata	Spectacled Warbler	-	?	54	*		LC
Sylvia curruca	Lesser Whitethroat	0.9 (±1.5)		92	FBIpm		LC
Sylvia melanocephala	Sardininan Warbler	-0.6 (±0.3)		489	. Ulpin		LC
Sylvia undata	Darford Warbler	-9.0 (±3.5)	_	51	2550	-	VU - A2bc
Troglodytes troglodytes	Wren	-0.3 (±0.3)		756	WBI		LC
Turdus merula	Common Blackbird	2.2 (±0.2)	The same of	919	1101		LC
Turdus philomelos	Song Thrush	4.7 (±0.6)		354	WBI		LC
Turdus pilaris	Fieldfare	-6.7 (±1.2)	_	78	FBIpm	Personal Property lies	NT
Turdus torquatus	Ring Ouzel	-1.3 (±1.6)		76	FBIpm	and the second second	LC
Turdus viscivorus	Mistle Thrush	4.1 (±0.7)	7 476	344	WBI		LC
Upupa epops	Ноорое	1.3 (±0.5)		574	FBI		LC

\* species with uncertain trend classification not used for computation of the indicator

MODERATE STEEP STABLE UNCERTAIN

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