



Report on the status of waterbird populations in the AEWA area for the period 2013-2018

Through Resolution 7.1, the 7th Session of the Meeting of the Parties (MOP7) to AEWA adopted, amongst other things, the format for national reports on the implementation of AEWA for the period 2018-2020 as presented in document AEWA/MOP 7.17.

Document AEWA/MOP 7.17 envisages a module on the status of native and non-native waterbird species, but it was agreed that this module will be developed by the Technical Committee and approved by the Standing Committee in early 2019. The format for reporting on Article 12 of the European Union's Birds Directive (EU BD) for the period 2013-2018 was agreed as the basis for this module, while focusing only on some fields of the EU reporting template, notably those in Annex B, chapters 1-5.

The alignment of the AEWA population status reporting module with the EU BD Article 12 template for 2013-2018 will, on the one hand, allow reporting of all necessary information by the AEWA Contracting Parties needed for the assessment of the status of AEWA populations, and, on the other hand, will require the EU members states that are Contracting Parties to AEWA to report only once their national data for the native species listed in Annex 2 of AEWA, providing that access to the EU BD Article 12 national reports will be granted to the UNEP/AEWA Secretariat. If any EU Member State with overseas territories within the AEWA area has not reported on the AEWA-listed species in those territories, data should be submitted through the AEWA reporting process.

Unlike the EU BD Article 12 template, the AEWA population status reporting module should request similar type of information for non-native waterbird species as for native species. The EU members states will therefore, like all other AEWA Contracting Parties, need to fill out the AEWA population status reporting module with respect to the status of the non-native waterbird species occurring in their territories, including overseas territories within the AEWA area.

In order to be able to use the national data reported by the AEWA Contracting Parties for the 8th edition of the AEWA Conservation Status Report, this reporting module has been set up separately in the CMS Family Online Reporting System and the deadline for submission of the national population status reports has been set by MOP7 at 30 June 2020.

3. AEWA-LISTED (NATIVE) WATERBIRD SPECIES

Please report on each species in the drop-down menu. This list contains all AEWA waterbird species that occur in your country. Should you identify any omissions, please contact the UNEP/AEWA Secretariat.

Czech Republic

Greylag Goose / *Anser anser*

Population Size

Breeding numbers

Please indicate whether estimate of the breeding numbers is available

Breeding numbers estimate is available

Latest breeding numbers estimate

Year or period [Year or period when numbers were last determined]

>>> 2014-2017

Population unit

Pairs

Numbers [Raw, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	1500
Maximum	2000
Best single value	

Type of estimate

Best estimate

Method used for breeding numbers estimate

Insufficient or no data available

Sources of information

[Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> Šťastný et Bejček (in prep.): /Atlas of breeding birds in the Czech Republic 2014-2017/.

Previous breeding numbers estimate

Please indicate whether a previous estimate of the breeding numbers is available

Previous breeding numbers estimate is available

Year or period

[Year or period when numbers were previously determined]

>>> 2001-2003

Population unit

Pairs

Numbers [(Raw, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Type of estimate

Best estimate

Method used for breeding numbers estimate

Complete survey or a statistically robust estimate

Sources of information

[Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> Šťastný K., Bejček V. & Hudec K. 2006: /Atlas of breeding birds in the Czech Republic 2001-2003/. Aventinum, Praha.

Changes in the breeding numbers estimates

Has there been a change between the previous and the latest breeding numbers estimate?

Yes

Please clarify the nature of change

[More than one option from the list below is possible]

Due to genuine change

Please indicate which reason for change is predominant

Due to genuine change

Additional information (optional)

Please provide any additional or complementary information to the data provided above in this section, if available

>>> Trends in waterbird breeding population size were estimated using changes in population data from nationwide numbers project of "Atlas of Breeding Bird Distribution" carried out in whole Czech Republic in 2001-2003 and 2014 - 2017. In the last period, the breeding was confirmed in altogether 128 squares.

Passage and staging numbers

Does the species migrate through the country?

Yes

Please indicate whether estimate of passage numbers is available

No passage numbers estimate is available

Please indicate whether estimate of staging numbers is available

Staging numbers estimate is available [Staging numbers refer to the number of individuals that stopover in the country during migration]

Latest staging numbers estimate

Year or period

[Year or period when numbers were last determined]

>>> 2019

Staging numbers

[Individuals. Raw numbers i.e. not rounded. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Type of estimate

Best estimate

Method used for staging numbers estimate

Complete survey or a statistically robust estimate

Sources of information

[Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> IWC;

Previous staging numbers estimate**Please indicate whether a previous estimate of staging numbers is available**

Previous staging numbers estimate is available

Staging numbers

[Individuals. Raw numbers, i.e. not rounded. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Type of estimate

Best estimate

Method used for staging numbers estimate

Based mainly on expert opinion with very limited data

Sources of information

[Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> IWC;

Non-breeding/wintering numbers

[Non-breeding/wintering distribution is the terminal destination of migration as opposed to other areas where birds pass through or stop-over at during non-breeding season movements]

Please indicate whether estimate of the non-breeding/wintering numbers is available

Non-breeding/wintering numbers estimate is available

Latest non-breeding/wintering numbers estimate

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Breeding range size and trend**Does the species occur in the country during the breeding season?**

Yes

Is range size and/or short-term and/or long-term range trend estimate available?

Yes

4. NON-NATIVE WATERBIRD SPECIES

Please select from the drop-down list below only the non-native species that occur in your country. This list contains the non-native waterbird species that have been identified to occur in the Agreement area. Should any additional species occur in your country, please contact the UNEP/AEWA Secretariat. Please note that some species are listed under AEWA and are native in some parts of the Agreement area, but are non-native in others.

Ruddy Duck / *Oxyura jamaicensis*

Confirmation of species occurrence

Please confirm the occurrence of the species in the country

The species occurs in the country

Population size

Breeding numbers

Please indicate whether estimate of the breeding numbers is available

The species does not breed and does not occur in the country during the breeding season

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether estimate of the non-breeding/wintering numbers is available

Non-breeding/wintering numbers estimate is available

Latest non-breeding/wintering numbers estimate

Year or period [Year or period when numbers were last determined]

>>> overall monitoring

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	0
Maximum	1
Best single value	

Type of estimate

Best estimate

Method used for non-breeding/wintering numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> Vavřík M. et al. 2019: /Revision of records of rare bird species in the Czech Republic/. Sylvia 55:2-74.

Previous non-breeding/wintering numbers estimate

Please indicate whether a previous estimate of the non-breeding/wintering numbers is available

Previous non-breeding/wintering numbers estimate is available

Year or period [Year or period when numbers were previously determined]

>>> 1800-2019

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	0
Maximum	1
Best single value	

Type of estimate

Best estimate

Method used for non-breeding/wintering numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> see above: Vavřík et al. 2019

Changes in the non-breeding/wintering numbers estimates

Has there been a change between the previous and the latest non-breeding/wintering numbers estimate?

No

Additional information (optional)

Please provide any additional or complementary information to the data provided above in this section, if available

>>> only one record: 1F in March 2016

Population trend

Breeding numbers

Please indicate whether:

The species does not occur in the country during the breeding season

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether:

The species is recorded only occasionally during the non-breeding/wintering season

Is an estimate of trends of occasional records available?

Yes

Trend of occasional records

Trend period [Years]

>>> no trend - very rare species

Trend direction

Uncertain

Trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

National legal and Red List status

National Legal Status

Does the species have any national protection or other legal status?

No

National Red List Status

Does the species have any National Red List status?

No

Black Swan / *Cygnus atratus*

Confirmation of species occurrence

Please confirm the occurrence of the species in the country

The species occurs in the country

Population size

Breeding numbers

Please indicate whether estimate of the breeding numbers is available

The species does not breed and does not occur in the country during the breeding season

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether estimate of the non-breeding/wintering numbers is available

The species is recorded only occasionally during the non-breeding/wintering season

Occasional records during non-breeding/wintering season

Both options can be selected

Occasionally recorded, most likely escapes from collections

Minimum recorded number of occasional visitors

>>> 1

Maximum recorded number of occasional visitors

>>> 2

Period [Period (years) of the records above]

>>> 1800-2019

Last year of record [Year when the species was last recorded in the country]

>>> 2017

Population trend

Breeding numbers

Please indicate whether:

The species does not occur in the country during the breeding season

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether:

The species is recorded only occasionally during the non-breeding/wintering season

Is an estimate of trends of occasional records available?

Yes

Trend of occasional records

Trend period [Years]

>>> 1800-2019

Trend direction Uncertain

Trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	1
Maximum	2
Best single value	

Range size and trend**Non-breeding/wintering range**

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Additional information (optional)

Please provide any additional or complementary information to the data provided above in this section, if available

>>> all records are escapes from captivity

National legal and Red List status**National Legal Status**

Does the species have any national protection or other legal status?

 No**National Red List Status**

Does the species have any National Red List status?

 No**Bar-headed Goose / *Anser indicus*****Confirmation of species occurrence**

Please confirm the occurrence of the species in the country

 The species occurs in the country**Population size****Breeding numbers**

Please indicate whether estimate of the breeding numbers is available

 The species does not breed and does not occur in the country during the breeding season**Additional information (optional)**

Please provide any additional or complementary information to the data provided above in this section, if available

>>> see Vavřík et al. 2019: /Revision of records of rare bird species in the Czech Republic. Sylvia 55: 2-74; www.fkcsso.cz

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether estimate of the non-breeding/wintering numbers is available

The species is recorded only occasionally during the non-breeding/wintering season

Occasional records during non-breeding/wintering season

Both options can be selected

Occasionally recorded, most likely escapes from collections

Minimum recorded number of occasional visitors

>>> 1

Maximum recorded number of occasional visitors

>>> 3

Period [Period (years) of the records above]

>>> 1800-2019

Last year of record [Year when the species was last recorded in the country]

>>> 2019

Population trend

Breeding numbers

Please indicate whether:

The species is recorded only occasionally during the breeding season, but does not breed

Range size and trend

Non-breeding/wintering range

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether:

The species is recorded only occasionally during the non-breeding/wintering season

Range of occasional records during non-breeding/wintering season (non-breeders)

Please select one of the options below

Localised (less than 10 sites)

Trend of the range of occasional records

Is the trend of the range of occasional records available?

Yes

Trend direction

Uncertain

Trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	1
Maximum	3
Best single value	

National legal and Red List status

National Legal Status

Does the species have any national protection or other legal status?

No

National Red List Status

Does the species have any National Red List status?

No

Egyptian Goose / *Alopochen aegyptiacus*

Confirmation of species occurrence

Please confirm the occurrence of the species in the country

The species occurs in the country

Population size

Breeding numbers

Please indicate whether estimate of the breeding numbers is available

Breeding numbers estimate is available

Latest breeding numbers estimate

Year or period [Year or period when numbers were last determined]

>>> 2019

Population unit

Pairs

Numbers [Raw, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	25
Maximum	35
Best single value	

Type of estimate

Multi-year mean

Method used for breeding numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> mapping for breeding atlas 2013-2017

Previous breeding numbers estimate

Please indicate whether a previous estimate of the breeding numbers size is available

Previous breeding numbers estimate is available

Year or period [Year or period when breeding numbers were previously determined]

>>> 1990 - 2017

Population unit

Pairs

Numbers [Raw, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

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Minimum	1
Maximum	30
Best single value	

Type of estimate

Multi-year mean

Method used for breeding numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> www.avif.birds.cz; Vavřík et al. 2019: /Revision of records of rare bird species in the Czech Republic. Sylvia 55: 2-74; www.fkcsso.cz

Changes in the breeding numbers estimates

Has there been a change between the previous and the latest breeding numbers estimate?

No

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether estimate of the non-breeding/wintering numbers is available

Non-breeding/wintering numbers estimate is available

Latest non-breeding/wintering numbers estimate

Year or period [Year or period when numbers were last determined]

>>> 2019

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	135

Type of estimate

Best estimate

Method used for non-breeding/wintering numbers estimate

Insufficient or no data available

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> International Waterbird Census; see Musil et al. 2019: /www.waterbirdmonitoring.cz;

Previous non-breeding/wintering numbers estimate

Please indicate whether a previous estimate of the non-breeding/wintering numbers is available

Previous non-breeding/wintering numbers estimate is available

Year or period [Year or period when numbers were previously determined]

>>> 1970 - 2019

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum)

and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	1
Maximum	135
Best single value	

Type of estimate

Best estimate

Method used for non-breeding/wintering numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> see above

Changes in the non-breeding/wintering numbers estimates

Has there been a change between the previous and the latest non-breeding/wintering numbers estimate?

Yes

Please clarify the nature of change [More than one option from the list below is possible]

Due to genuine change

Due to improved knowledge/more accurate data

Please indicate which reason for change is predominant

Due to genuine change

Population trend

Breeding numbers

Please indicate whether:

Short-term and/or long-term breeding numbers trend estimate is available

Please indicate whether estimate of the breeding numbers short-term (last 12 years) and/or long-term (since ca. 1980) trend is available

Breeding numbers trend estimate is available for:

Long-term trend

Short-term breeding numbers trend estimate

Long-term breeding numbers trend estimate

Trend period [since ca. 1980 or a period as close as possible to that]

>>> 1980 - 2019

Long-term trend direction

Increasing

Long-term trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	0
Maximum	45
Best single value	

Method used for long-term breeding numbers trend estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> see above; and mapping for breeding atlas 2013 - 2017

(https://birds.cz/avif/atlas_nest_map.php?rok=2017&druh=Alopochen_aegyptiaca)

National legal and Red List status

National Legal Status

Does the species have any national protection or other legal status?

No

National Red List Status

Does the species have any National Red List status?

No

Assessment of risks posed by the non-native species

Please select all relevant risks from the list below

Please select all relevant risks from the list below

Competitive exclusion of native species, or aggressive to native species

Competitive exclusion of native species, or aggressive to native species

Which species are excluded or are subject of aggressive behaviour?

>>> DUCKS, GEESE, GULLS etc.

Is aggression and exclusion a regularly observed behaviour?

No

Ruddy Shelduck / *Tadorna ferruginea*

Confirmation of species occurrence

Please confirm the occurrence of the species in the country

The species occurs in the country

Population size

Breeding numbers

Please indicate whether estimate of the breeding numbers is available

The species is recorded only occasionally during the breeding season, but does not breed

Occasional records during breeding season (non-breeders)

Both options can be selected

Occasionally recorded, most likely natural vagrants

Minimum recorded number of occasional visitors

>>> 1

Maximum recorded number of occasional visitors

>>> 7

Period [Period (years) of the records above]

>>> 1990-2019

Last year of record [Year when the species was last recorded in the country]

>>> 2019

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas

where the species occurs outside of the breeding season]

Please indicate whether estimate of the non-breeding/wintering numbers is available

Non-breeding/wintering numbers estimate is available

Latest non-breeding/wintering numbers estimate

Year or period [Year or period when numbers were last determined]

>>> 2019

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	1
Maximum	7
Best single value	

Type of estimate

Best estimate

Method used for non-breeding/wintering numbers estimate

Based mainly on expert opinion with very limited data

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> www.waterbirdmonitoring.cz; https://birds.cz/avif/atlas_nest_map.php?rok=all&druh=Tadorna_ferruginea; www.fkcsso.cz;

Previous non-breeding/wintering numbers estimate

Please indicate whether a previous estimate of the non-breeding/wintering numbers is available

Previous non-breeding/wintering numbers estimate is available

Year or period [Year or period when numbers were previously determined]

>>> 1980 - 2012

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Type of estimate

Best estimate

Method used for non-breeding/wintering numbers estimate

Based mainly on expert opinion with very limited data

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> www.waterbirdmonitoring.cz; www.fkcsso.cz

Changes in the non-breeding/wintering numbers estimates

Has there been a change between the previous and the latest non-breeding/wintering numbers estimate?

No

Population trend

Breeding numbers

Please indicate whether:

The species is recorded only occasionally during the breeding season, but does not breed

Is an estimate of trends of occasional records available?

Yes

Trend estimate of occasional records

Trend period [Years]

>>> 1990-2019

Trend direction

Uncertain

Trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether:

Short-term and/or long-term non-breeding/wintering numbers trend estimate is available

Please indicate whether estimate of the non-breeding/wintering numbers short-term (last 12 years) and/or long-term (since ca. 1980) trend is available

Non-breeding/wintering numbers trend estimate is available for:

Long-term trend

Short-term non-breeding/wintering numbers trend estimate

Long-term non-breeding/wintering numbers trend estimate

Trend period [since ca. 1980 or a period as close as possible to that]

>>> 1980-2019

Long-term trend direction

Increasing

Long-term trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Method used for long-term non-breeding/wintering numbers trend estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> www.waterbirdmonitoring.cz; www.fkcsso.cz

Range size and trend

Breeding range

Please indicate whether:

The species is recorded only occasionally during the breeding season, but does not breed

Range of occasional records during breeding season (non-breeders)

Please select one of the options below

Localised (less than 10 sites)

Non-breeding/wintering range

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether:

Range size, short-term and/or long-term range trend estimate is available

Please indicate whether estimate of the non-breeding/wintering range size and short-term (last 12 years) and/or long-term (since ca. 1980) range trend is available

The following estimates are available:

Long-term trend of the range

Short-term non-breeding/wintering range trend estimate

Long-term non-breeding/wintering range trend estimate

Trend period [since ca. 1980 or a period as close as possible to that]

>>> 1980-2019

Long-term trend direction

Increasing

Long-term trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Method used for long-term range trend estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> www.waterbirdmonitoring.cz; https://birds.cz/avif/atlas_nest_map.php?rok=all&druh=Tadorna_ferruginea; www.fkcsso.cz

National legal and Red List status

National Legal Status

Does the species have any national protection or other legal status?

No

National Red List Status

Does the species have any National Red List status?

No

Mandarin Duck / *Aix galericulata*

Confirmation of species occurrence

Please confirm the occurrence of the species in the country

The species occurs in the country

Population size

Breeding numbers

Please indicate whether estimate of the breeding numbers is available

Breeding numbers estimate is available

Latest breeding numbers estimate

Year or period [Year or period when numbers were last determined]

>>> 2011 - 2018

Population unit

Pairs

Numbers [Raw, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	1
Maximum	10
Best single value	

Type of estimate

Best estimate

Method used for breeding numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> Mikule V. 2019: /Breeding and wintering of the Mandarin Duck (*Aix galericulata*) in the Czech Republic in 2008 - 2018 and the characteristics of the only established local population/. *Sylvia* 55: 103-116.

Previous breeding numbers estimate

Please indicate whether a previous estimate of the breeding numbers size is available

Previous breeding numbers estimate is available

Year or period [Year or period when breeding numbers were previously determined]

>>> 2008 - 2011

Population unit

Pairs

Numbers [Raw, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

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Minimum	1
Maximum	1
Best single value	

Type of estimate

Best estimate

Method used for breeding numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> see above (Mikule 2019)

Changes in the breeding numbers estimates

Has there been a change between the previous and the latest breeding numbers estimate?

Yes

Please clarify the nature of change [More than one option from the list below is possible]

Due to genuine change

Due to improved knowledge/more accurate data

Please indicate which reason for change is predominant

Due to genuine change

Additional information (optional)

Please provide any additional or complementary information to the data provided above in this section, if available

>>> The only established breeding population occurs in Brno city on Svatka river. Regular breeding here since 2011, with the maximum 9 pairs in 2016. Other breedings are scarce, irregular, all of the are in South- or Central Moravia regions (Mikule 2019).

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether estimate of the non-breeding/wintering numbers is available

Non-breeding/wintering numbers estimate is available

Latest non-breeding/wintering numbers estimate

Year or period [Year or period when numbers were last determined]

>>> 2019

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	91

Type of estimate

Best estimate

Method used for non-breeding/wintering numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details,

etc.]

>>> Musilová Z., Musil P. Neužilová Š. 2019: The International Waterbirds Census in Czechia in January 2019.

Aythya 7: 1-58.

and see above (Mikule 2019); also www.avif.birds.cz

Previous non-breeding/wintering numbers estimate

Please indicate whether a previous estimate of the non-breeding/wintering numbers is available

Previous non-breeding/wintering numbers estimate is available

Year or period [Year or period when numbers were previously determined]

>>> regularly every year; 1970 - 2018

Numbers [Individuals. Raw numbers, i.e. not rounded). Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	0
Maximum	63
Best single value	

Type of estimate

Best estimate

Method used for non-breeding/wintering numbers estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> see above (Musilová et al. 2019, Mikule 2019). Musilová - results from IWC.

Changes in the non-breeding/wintering numbers estimates

Has there been a change between the previous and the latest non-breeding/wintering numbers estimate?

Yes

Please clarify the nature of change [More than one option from the list below is possible]

Due to genuine change

Due to improved knowledge/more accurate data

Please indicate which reason for change is predominant

Due to genuine change

Additional information (optional)

Please provide any additional or complementary information to the data provided above in this section, if available

>>> all detailed data are regularly sent to Wetlands International (results from IWC). Other data are available at www.avif.birds.cz.

Population trend

Breeding numbers

Please indicate whether:

Short-term and/or long-term breeding numbers trend estimate is available

Please indicate whether estimate of the breeding numbers short-term (last 12 years) and/or long-term (since ca. 1980) trend is available

Breeding numbers trend estimate is available for:

Long-term trend

Short-term breeding numbers trend estimate

Long-term breeding numbers trend estimate

Trend period [since ca. 1980 or a period as close as possible to that]

>>> 1980 - 2019

Long-term trend direction

Increasing

Long-term trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	1
Maximum	10
Best single value	

Method used for long-term breeding numbers trend estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> see above (Mikule 2019)

Additional information (optional)

Please provide any additional or complementary information to the data provided above in this section, if available

>>> First breeding 1980 in Lednice, 2nd one in 2008 in Hodonín district. Regular breeding in the Czech Republic since 2011 (Mikule 2019).

Non-breeding/wintering numbers

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether:

Short-term and/or long-term non-breeding/wintering numbers trend estimate is available

Please indicate whether estimate of the non-breeding/wintering numbers short-term (last 12 years) and/or long-term (since ca. 1980) trend is available

Non-breeding/wintering numbers trend estimate is available for:

Long-term trend

Short-term non-breeding/wintering numbers trend estimate

Long-term non-breeding/wintering numbers trend estimate

Trend period [since ca. 1980 or a period as close as possible to that]

>>> 1978 - 2019

Long-term trend direction

Increasing

Long-term trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	1

Maximum	91
Best single value	

Method used for long-term non-breeding/wintering numbers trend estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> Mikule 2019 (see above); Jasso L. 2009: (Occurrence of the Mandarin duck (*Aix galericulata*) in the Czech Republic (1978-2008). *Sylvia* 45: 115-119.

Additional information (optional)

Please provide any additional or complementary information to the data provided above in this section, if available

>>> the wintering numbers are highly variable; e.g. IWC 2019 = 91 specimens, IWC 2018 only 10, IWC 2017 = 57.

Range size and trend

Breeding range

Please indicate whether:

Range size, short-term and/or long-term range trend estimate is available

Please indicate whether estimate of the breeding range size and short-term (last 12 years) and/or long-term (since ca. 1980) range trend is available

The following estimates are available:

Range size

Short-term trend of the range

Breeding range size

Year or period [Year or period when breeding range size was last determined]

>>> 2008 - 2019

Range size [Total surface area of the range size in km²]

>>> 5000

Method used for range size estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> see above (Mikule 2019)

Short-term breeding range trend estimate

Trend period [2007-2018 (12-year rolling time window) or a period as close as possible to that]

>>> 2008 - 2019

Short-term trend direction

Increasing

Short-term trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	

Best single value	
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Method used for short-term range trend estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> see above (Mikule 2019)

Non-breeding/wintering range

[Non-breeding/wintering distribution in the case of non-native waterbird species is defined as any areas where the species occurs outside of the breeding season]

Please indicate whether:

Range size, short-term and/or long-term range trend estimate is available

Please indicate whether estimate of the non-breeding/wintering range size and short-term (last 12 years) and/or long-term (since ca. 1980) range trend is available

The following estimates are available:

Range size

Long-term trend of the range

Non-breeding/wintering range size

Year or period [Year or period when non-breeding/wintering range size was last determined]

>>> 1980 - 2019

Range size [Total surface area of the range size in km2]

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> Musilová Z., Musil P. Neužilová Š. 2019: The International Waterbirds Census in Czechia in January 2019. *Aythya* 7: 1-58.
and see above (Mikule 2019); also www.avif.birds.cz

Short-term non-breeding/wintering range trend estimate

Long-term non-breeding/wintering range trend estimate

Trend period [since ca. 1980 or a period as close as possible to that]

>>> 1980 - 2019

Long-term trend direction

Increasing

Long-term trend magnitude [Percentage change over the period indicated above. Provide either interval (minimum - maximum) and/or best single value. In cases when only best single value is available, ideally provide lower and upper confidence limits in the data fields for minimum and maximum and indicate them as such.]

Minimum	
Maximum	
Best single value	

Method used for long-term range trend estimate

Complete survey or a statistically robust estimate

Sources of information [Provide bibliographic references, link to Internet sites, expert contact details, etc.]

>>> Musilová Z., Musil P. Neužilová Š. 2019: The International Waterbirds Census in Czechia in January 2019. *Aythya* 7: 1-58.

and see above (Mikule 2019); also www.avif.birds.cz

Additional information (optional)

Please provide any additional or complementary information to the data provided above in this section, if available

>>> detail data since 1980: fluctuating, but increasing range size, hardly to express in exact figure. The region with lowest figure occurrence is West Bohemia (only 1 specimen in 2017), while regular occurrence with the highest numbers is South Moravia (max. 57 in 2019).

National legal and Red List status

National Legal Status

Does the species have any national protection or other legal status?

No

National Red List Status

Does the species have any National Red List status?

No

