**Supplementary Material**

An assessment of threats to Anatidae in Iran

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**Appendix S1. Sample questionnaire.**

**Identification of threats to:** Mute Swan *Cygnus olor*

Based on your knowledge of the populations of this species that occur in Iran, please select the appropriate threats in the table below. Please consider the threats that can be used for assessing the national threats status for the species. Specify each level-1 threat by selecting the corresponding level-2 threat(s). Please refer to the Scoring Guide to assign an impact score for timing, scope, and severity of each selected level-2 threat.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Threats (level 1) | | Threats (level 2) | | Impact Score | | |
|  | |  | | Timing | Scope | Severity |
|  | 1. Residential & Commercial Development |  | 1.1 Housing and Urban Areas |  |  |  |
|  |  |  | 1.2 Commercial & Industrial Areas |  |  |  |
|  |  |  | 1.3 Tourism & Recreation Areas |  |  |  |
|  | 1. Agriculture & Aquaculture |  | 2.1 Annual & Perennial Non-Timber |  |  |  |
|  |  |  | 2.2 Wood & pulp Plantations |  |  |  |
|  |  |  | 2.3 Livestock Farming & Ranching |  |  |  |
|  |  |  | 2.4 Marine & Freshwater Aquaculture |  |  |  |
|  | 1. Energy Production & Mining |  | 3.1 Oil & Gas Drilling |  |  |  |
|  |  |  | 3.2 Mining & Quarrying |  |  |  |
|  |  |  | 3.3 Renewable Energy |  |  |  |
|  | 1. Transportation & Service Corridors |  | 4.1 Roads & Railroads |  |  |  |
|  |  |  | 4.2 Utility & Service Lines |  |  |  |
|  |  |  | 4.3 Shipping Lanes |  |  |  |
|  |  |  | 4.4 Flight Paths |  |  |  |
|  | 1. Biological Resource Use |  | 5.1 Hunting & Collecting Terrestrial Animals |  |  |  |
|  |  |  | 5.2 Gathering Terrestrial Plants |  |  |  |
|  |  |  | 5.3 Logging & Wood Harvesting |  |  |  |
|  |  |  | 5.4 Fishing & Harvesting Aquatic Resources |  |  |  |
|  | 1. Human Intrusion & Disturbance |  | 6.1 Recreational Activities |  |  |  |
|  |  |  | 6.2 War, Civil Unrest & Military Exercises |  |  |  |
|  |  |  | 6.3 Work & Other Activities |  |  |  |
|  | 1. Natural Systems Modifications |  | 7.1 Fire & Fire Suppression |  |  |  |
|  |  |  | 7.2 Dams & Water Management/Use |  |  |  |
|  |  |  | 7.3 Other Ecosystem Modifications |  |  |  |
|  | 1. Invasive & Other Problematic Species, Genes & Diseases |  | 8.1 Invasive Non-Native/Alien Species/Diseases |  |  |  |
|  |  |  | 8.2 Problematic Native Species/Diseases |  |  |  |
|  |  |  | 8.3 Introduced Genetic Material |  |  |  |
|  |  |  | 8.4 Problematic Species/Diseases of Unknown Origin |  |  |  |
|  |  |  | 8.5 Virus/Prion-induced Diseases |  |  |  |
|  |  |  | 8.6 Diseases of Unknown Cause |  |  |  |
|  | 1. Pollution |  | 9.1 Domestic & Urban Wastewater |  |  |  |
|  |  |  | 9.2 Industrial & Military Effluents |  |  |  |
|  |  |  | 9.3 Agricultural & Forestry Effluents |  |  |  |
|  |  |  | 9.4 Garbage & Solid Waste |  |  |  |
|  |  |  | 9.5 Air-borne Pollutants |  |  |  |
|  |  |  | 9.6 Excess Energy |  |  |  |
|  | 1. Geological Events (Volcanoes, Earthquakes, Avalanches/Landslides) | | |  |  |  |
|  | 1. Climate Change & Severe Weather |  | 11.1 Habitat Shifting & Alteration |  |  |  |
|  |  |  | 11.2 Droughts |  |  |  |
|  |  |  | 11.3 Temperature Extremes |  |  |  |
|  |  |  | 11.4 Storms & Flooding |  |  |  |
|  |  |  | 11.5 Other Impacts |  |  |  |
|  | 1. Other Threats: | | |  |  |  |

**Appendix S2. Impact scoring guide.**

**Impact Scoring Guide**

**Timing impact scores**

|  |  |
| --- | --- |
| **Description** | **Score** |
| Only in the past (and unlikely to return) | - |
| Only in the past (no direct affect but limiting) | 0 |
| Now suspended (could come back in the long term) | 1 |
| Now suspended (could come back in the short term) | 2 |
| Continuing | 3 |
| Only in the future (could happen in the short term) | 2 |
| Only in the future (could happen in the long term) | 1 |
| Unknown | U |

**Scope impact scores**

|  |  |
| --- | --- |
| **Description** | **Score** |
| Affects the whole (˃90%) population | 3 |
| Affects the majority (50%-90%) of the population | 2 |
| Affects the minority (˂50%) of the population | 1 |
| Affects a negligible proportion of the population | 0 |
| Unknown | U |

**Severity impact scores**

|  |  |
| --- | --- |
| **Description** | **Score** |
| Causing or likely to cause very rapid declines (˃30% over 10 years or three generations) | 3 |
| Causing or likely to cause rapid declines (20-30% over 10 years or three generations) | 2 |
| Causing or likely to cause relatively slow, but significant, declines (˂20% over 10 years or three generations) | 1 |
| Causing or likely to cause fluctuations | 1 |
| Causing or likely to cause negligible declines | 0 |
| No decline | 0 |
| Unknown | U |