Chapter 6 Existing Measures and Programmes for Biodiversity Conservation

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6.1 Legislation and policy

6.1.1 Laws for environmental protection and regulation

The constitution of the Republic of Azerbaijan defines principles for environmental protection, ownership of natural resources, and regulations for their use. Accordingly, the Republic ultimately owns all natural resources, and no damage must be caused to the environment that would affect other's future use of this resource. Furthermore, everyone has the right to live in a healthy environment, and in order to ensure a good lifestyle for current and future generations, the State is committed to the improvement of scientific approaches and use of modern technologies to protect the environment, to ensure sustainable use of resources, and to enrich the natural wealth of the country.

The legislative framework in the field of the use and conservation of biodiversity within Azerbaijan consists of the following legal structures:

- Parliamentary legislation that establishes the State regulation of strictly protected natural areas, and the protection and use of the environment and of biodiversity
- Presidential Decrees and orders and the resolutions of the Cabinet of Ministers that ensure the implementation of the major provisions of the laws
- By-laws of the executive authorities (Ministries and Committees) that specify the activities to implement the laws
- International Agreements and Conventions in the field of biodiversity, to which the Republic is a signatory.

After Azerbaijan gained its independence, the legislative framework of the country, including the area relating to biodiversity, was re-drafted in line with modern international standards. Since 1996, 23 laws have been passed that deal with various issues related to the use and protection of biodiversity. These address environmental protection, soil conservation, internal waters, fauna and flora protection, and fisheries. Of particular note is the decision of the Republic of Azerbaijan "On Environmental Protection" (dated 8 August 1999) which represents the main legislative document about nature conservation (of land, forest and water habitats) and sustainable use.

The legislative base for Nakhichevan Autonomous Republic follows that for the rest of Azerbaijan.

6.1.2 Protected areas legislation

The Law on Environment Protection (1999) of the Republic of Azerbaijan defines the protected area estate and buffer zones. The Land Code (1999) defines the actual types of

areas protected by the State for biodiversity. Brief descriptions of these protected area types are given in Section 6.2.1.

Legislation relating to the protection of water is defined by the "Water Code" of the Republic of Azerbaijan (1997) and includes several types of aquatic habitats including: rivers, lakes, the Caspian Sea, wetlands, riparian habitats, river catchments, water sources, and other wetland areas related with protected natural resources. Zones protecting water bodies and habitats are intended to ensure the health of associated ecosystems, prevent pollution, maintain healthy soils, and to protect groundwater. Water bodies with scientific, historical, cultural and natural value can also be strictly protected.

6.1.3 Wildlife protection legislation

Although there is no single law relating to the protection of biological diversity in Azerbaijan, many laws have been enacted to protect, and ensure sustainable use of, natural resources including biodiversity. These include: "Law on Plant Protection" (1996), "Forestry Code" (1997), "Law on Fisheries" (1998), "Law on Fauna" (1999) and "Law on Protected Areas" (2000), including national parks and reserves (2003)⁶⁰.

The Ministry of Ecology and Natural Resources, and the Ministry of Agriculture ensure the effective implementation of the relevant laws and resolutions, and the identification of the necessary implementation activities.

6.1.4 Legislation on land use and development

The legislation relating to land in Azerbaijan consists of the 'Land Code' and some other legislative acts. In recent years more than 40 legislative acts have been enacted relating to land reform, use of municipal areas, and the land market. Laws enabling land reform were enacted in 1995 (on reforms of the sovkhozes and kolkhozes) and 1996 (on land reform; see section 2.6). A number of further laws supporting this land reform have been enacted, however these laws still require greater harmonization. In addition, other land laws exist, such as legislation on land survey and monitoring of lands (1998), and on land fertility (1999).

6.1.5 Legislation on pollution

In recent years five laws have been enacted to regulate environmental pollutants. These laws cover environmental protection (1999), ecological security (1999), atmospheric pollution (2001), pesticides and agrochemicals (1997), industrial and domestic waste (1998), and water supply and waste water (1999). A number of other laws also refer to the regulation of pollutants.

6.1.6 Other relevant sectoral legislation affecting biodiversity

Further legislation exists that establishes the penalties for violation of the laws described in previous sections. There are 38 articles of The Administrative Code of the Republic of Azerbaijan and 15 articles of the Criminal Code of the Republic of Azerbaijan that define the penalties appropriate for individuals and companies for offences against environmental protection, use of natural resources, or ecological safety laws.

⁶⁰ In addition, a law regarding hunting is currently under discussion by the Parliament.

In addition, legislation has been passed on access to environmental information (2002) and ecological awareness and public education (2002).

6.1.7 International agreements and conventions

Azerbaijan is a member of most international agreements and conventions relating to biodiversity (Table 6.1).

Table 6.1 International environmental conventions ratified by Azerbaijan

| International convention | Year ratified |
|--|------------------|
| UNESCO Convention on Protection of World Cultural and Natural | 1994 |
| Heritage | |
| UN Convention on the Control of Transboundary Movements of | 2001 |
| Hazardous Wastes and their Disposal (Basel Convention) | |
| UNESCO Convention on Wetlands of International Importance | 2000 |
| especially as Waterfowl Habitat' (Ramsar Convention) | |
| UN Framework Convention on Climate Change | 1995 |
| Protocol on UN Framework Convention on Climate Change (Kyoto | 2000 |
| Protocol) | |
| UN Convention on Biological Diversity (CBD) | 2000 |
| UNECE Convention on Access to Information, Public Participation in | 1999 |
| Decision-making and Access to Justice in Environmental Matters | |
| (Aarhus Convention) | |
| UNECE Convention on Environment Impact Assessment in the Trans- | 1999 |
| boundary Context (Espoo Convention) | |
| UNECE Convention on Long-range Trans-boundary Air Pollution | 2002 |
| Convention on Conservation of European Wildlife and Natural | 1999 |
| Habitats (Bern Convention) | |
| Convention on International Trade in Endangered Species of Wild | 1998 |
| Fauna and Flora (CITES), and Agreement on Protection of Sturgeons | |
| UN Convention to Combat Desertification (CCD) | 1998 |
| UNECE Convention on the Protection and Use of Trans-boundary | 2000 |
| Watercourses and International Lakes (Helsinki Convention) | |
| FAO Convention on Plant Protection | 2000 |
| UN Convention for the Protection of the Ozone Layer (Vienna | 1996 |
| Convention) | |
| Agreement on Mutual Cooperation of Commonwealth of Independent | 1998 |
| States in the area of Hydrometeorology | |
| Protocol on Substances that Deplete the Ozone Layer (Montreal) | 2000 |
| European Agreement about Transportation of Dangerous Loads on | 2000 |
| International Routes | |

6.2 Protected Areas Network

6.2.1. Description and coverage of Protected Areas

Protected areas are established in order to preserve areas of natural importance from the negative effects of human activities. The following categories of protected area are legally permitted in Azerbaijan.

- Strict nature reserves (or "zapovedniks") including biosphere reserves. Zapovedniks are state-owned, strictly protected areas designated for nature protection and scientific research. No economic activity is allowed. All have management plans and both enforcement and scientific staff.
- Wildlife sanctuaries (or "zakazniks") are designated for nature protection, but limited human activities - for example agriculture - are permitted according to certain regulations, provided that they do not adversely affect nature conservation. Land title is retained by the original owners. All are managed, often by staff attached to a nearby zapovednik.
- National parks are areas with ecological, historical, and aesthetic values, designated for nature protection, environmental awareness, scientific, cultural and other purposes. All land and natural resources belong to the Park management authority, and some economic activities (including ecological tourism) are allowed.
- Natural monuments are protected objects that have ecological, cultural or aesthetic value.
 They range in size from individual trees (of which 2,083 over 100 years old are
 designated) to patches of ancient forest, and also include caves, paleontological sites and
 landscapes. Their destruction or damage is strictly forbidden.
- Zoological parks or gardens
- Botanic gardens and dendrological parks
- Health spas and resorts
- Natural parks may be designated for protection and recreation. There are currently none in Azerbaijan.
- Ecological parks may be created for promoting environmental awareness. There are currently none in Azerbaijan.

There are also special buffer zones around these areas, and other natural areas such as rivers and water sources. The level of protection given to different protected areas depends on their significance – be it international, national, regional or local.

A network of protected areas of various types has been created in Azerbaijan (Table 6.2). They are not evenly distributed across the country, but the main landscapes of ecological importance are represented within the protected areas system. The Ministry of Ecology and Natural Resources manages these reserves, including two National Parks, the Strict Nature Reserves, Wildlife Sanctuaries and Natural Monuments. However, around 13% (273) of the individual trees, 54% (8,153 ha) of the 15,097 ha of ancient woodland and two of the 37 geological sites protected as Natural Monuments are currently outside the Ministry's control as they are now in the territories occupied by Armenian forces.

Table 6.2 The number of protected areas established in Azerbaijan.

| Type of reserve | Number of reserves |
|--|--------------------|
| National Parks ("milli parki") | 4 |
| Strict Nature Reserves ("zapovedniks") | 16 |
| Wildlife Sanctuaries ("zakazniks") | 22 |
| Natural Monuments - Protected trees (over 100 years old) | 2,083 |
| Natural Monuments - Protected geological and paleontological sites | 37 |
| Coastal national park (Baku) | 1 |
| Historical natural state reserve (Gobustan) | 1 |

The most important protected areas in Azerbaijan are briefly described below:

 Aggol Strict Nature Reserve. This reserve was gazetted in 1978, and became a National Park in 2003. It is located next to Aggol Wildlife Sanctuary, and was established in order to increase and protect the winter feeding grounds of migratory wetland birds, and to restore fisheries. It is situated in the Kura-Araz lowland, and as such is one of the most important over-wintering and breeding areas for birds in Azerbaijan. UNESCO included this area on the list of wetlands of international importance in 2001.

- Altiagaj Strict Nature Reserve. This reserve was created in 1990 in order to prevent soil erosion in the south-eastern part of the Greater Caucasus, and to restore the rare and valuable plants of the Altigaj-Khuzu region.
- **Basitchay Strict Nature Reserve.** This reserve was created in 1974, in order to protect endangered plain ecosystems, and represents one of the largest protected areas of growth of Eastern Platan in the world. Unfortunately the area is within territories occupied by Armenian forces, and as such is no longer being actively managed.
- **Garagol Strict Nature Reserve**. Created in 1987, this reserve was established in order to protect a mountain lake and its surrounding ecosystems. This reserve is also located in territories occupied by Armenian forces.
- **Garayazi Strict Nature Reserve.** This reserve was created in 1978 in order to protect and restore forest ecosystems on the bank of the Kura River.
- **Gizilagaj Strict Nature Reserve.** Created in 1929 next to a Wildlife Sanctuary, the reserve aims to protect a wintering ground for migratory birds of the Caspian region. This large reserve was listed as a Ramsar site in 2001.
- Zagatala Strict Nature Reserve. This reserve was created in 1929 to protect the natural habitats (mainly (alpine meadows and forests) of the southern area of the Greater Caucasus.
- Ilisu Strict Nature Reserve. This reserve was created in 1987 in order to protect natural ecosystems of the southern area of the Greater Caucasus that were threatened by erosion. In 2003 the reserve was expanded to 17,300 ha.
- **Ismayilli Strict Nature Reserve**. This reserve was created in 1981 in order to protect natural ecosystems of the southern area of the Greater Caucasus. In 2003 the reserve was expanded to 16,700 ha.
- Turyanchay Strict Nature Reserve. Created in 1958 the reserve was established to protect and restore the forest landscapes of the Bozdag area, and to prevent soil erosion. The area was expanded to 22,500 ha in 2003.
- Goy-gol Strict Nature Reserve. This reserve, established in 1925, was the first in Azerbaijan. It was created in order to protect the natural ecosystems of the north-eastern area of the Lesser Caucasus. The reserve has changed status several times, and it was classified as a strict nature reserve in 1965. There are two parts to the reserve the main Goy-gol area, and the "Eldar shami". These areas protect the arid forest on the Gabarli River, and also safeguard a population of Eldar pines (*Pinus eldarica*), a restricted range species.
- **Pirgulu Strict Nature Reserve**. This reserve was created in 1968, in order to protect the mountain and forest landscapes of the south-eastern Greater Caucasus. Specifically, the reserve protects important plants, prevents erosion, and conserves important forest stands. In 2003 the reserve was expanded to 4,270 ha.
- **Hirkan Strict Nature Reserve.** This reserve is situated in the damp sub-tropical Lankaran region. It was created in 1936 in order to protect forest cover and the endemic species of the region. Its name and status have changed several times, most recently in 1969.
- Shirvan Strict Nature Reserve. This reserve, created in 1969, aims to protect the mammals (specifically the goitred gazelle (*Gazella subgutturosa*), and migratory birds of the Shirvan plain. The total area of the reserve is approximately 6,200 ha. In 2003 Shirvan National Park, covering 54,373 ha, was created next to the Shirvan Strict Nature Reserve and Bendovan Wildlife Sanctuary.

• **Shahbuz Strict Nature Reserve.** This reserve, established in 2003, protects the environment of the Shahbuz district of Nakhichevan Autonomous Republic.

In 1988 the government published a plan for the future development of the national protected areas system up to 2010, with a target for covering a total of 954,000 ha. To date the area covered by five of the protected areas has been increased by 36,600 ha, and they now cover a total area of 70,700 ha. In addition, a Presidential Decree established Ordubad National Park (12,131 ha), Shahbuz Strict Nature Reserve in Nakhichevan Autonomous Republic (3,139 ha), Gakh Strict Nature Reserve (36,836 ha), Shirvan National Park (54,373 ha) and Ag-Gol National Park (17,924 ha). Finally, according to the decree N-81 of the President of The Republic of Azerbaijan dated 9th of February 2004, the Hirkan National Park was created on the base of Hirkan State Reserve with a total area of 21435 ha of Lenkoran and Astara regions.

Future expansions are still planned (Table 6.3).

| Name | Type | Final total area (hectares) |
|----------------------|-----------------------|----------------------------------|
| Samukh "Eldar shami" | Strict Nature Reserve | 1,442 (to be expanded by 1,050) |
| Kurdili | Strict Nature Reserve | 20,000 |
| Absheron | National Park | 1,000 (to be expanded by 185) |
| Shahdag | National Park | 268,000 |
| Samur-Yalama | National Park | 30,000 |
| Altigaj | | 9,438 (to be expanded by 5,000) |
| Goy-gol | | 12,131 (to be expanded by 5,000) |

Table 6.3 Protected areas to be created or expanded in Azerbaijan

There is almost nowhere in Nakhichevan Autonomous Republic which is not subject to human use, and the protected areas system is very important as a means to protect some representative and important natural areas. The first protected area was established in Nakhichevan in 1969 (Ordubad-Julfa Strict Nature Reserve), which was given the status of Ordubad National Park in 2003 (Presidential Decree, dated 16 June 2003), covering 40,000 ha. The National Park protects a wide range of rare and endemic plants, along with a number of mammal species (such as mouflon, bezoar goat, Caucasian leopard, and partridge). Within the National Park a number of zones have been determined, both for species protection and recreation. Under the same Presidential Decree the Shahbuz (Batabat) Strict Nature Reserve was established, covering 3,100 ha of mountain ecosystems at altitudes of 1600-3100m.

6.2.2 Weaknesses in the current protected areas system

A number of shortcomings have been identified with regard to the current protected area system in Azerbaijan. These include:

- Some protected areas do not have strictly protected zones, and continue to be affected by anthropogenic activity;
- Due to the fact that forest management was done more than 20 years ago, the information available is very old, which has made it difficult to achieve an increase in protected areas;
- Management of the reserves is constrained by the lack of land legislation and poorly defined borders;
- During the development of some of the reserves, their relationship within the wider landscape was not adequately considered;

- Despite recent increases in investment, the level of active protected area management is insufficient;
- Some important reserves lie within the occupied by Armenian forces, and lack any management regime. The protected areas in this territory cover 44,300 ha (10% of the total protected area system), and include 150 ancient trees and 13,197 ha of forest.

In Nakhichevan Autonomous Republic a number of villages are located along the borders of the protected areas, and summer pastures near Ordubad National Park and Shahbuz (Batabat) Strict Nature Reserve are significantly overgrazed, being used by up to 250,000 head of livestock each year.

6.3 Conservation outside Protected Areas

6.3.1 In situ conservation measures in the wider landscape

One of the main activities benefiting biodiversity conservation in the wider landscape is the proposed extension of the forest area a target of coverage of 20% of the country's territory, as part of measures to combat climate change. Under the National Programme on the Rehabilitation and Extension of Forests (established by Presidential Decree, 26th December 2001), the Ministry of Ecology and Natural Resources is leading activities to restore 20,000 ha of forests and to plant new forests covering some 43,000 ha. Reforestation efforts are also taking place in regions such as Gobustan, which have been negatively impacted by increasing aridification and loss of plant cover, and are at particular risk of desertification. Trial planting in this region has proved successful, although seedlings require intensive support and irrigation until they are established.

In addition, a National Monitoring Service was established in 2001 to co-ordinate the collection of key environmental monitoring data, covering water bodies, soil and the atmosphere, to help to determine and characterize anthropogenic impacts on the

environment. Within this framework the Ministry of Ecology and Natural Resources has established a network which will collect information to assist the monitoring of biodiversity, including information on the condition of vegetation cover (including forests) and on animal populations.

6.3.2 Ex-situ conservation

general, there is little *ex-situ* propagation or reintroduction of rare native species in Azerbaijan, despite recent efforts to improve the situation including legislation to support ex-situ conservation⁶¹. In particular, there is a real lack of local expertise in ex-situ conservation. There is a need to develop coherent strategy for ex-situ conservation, captive breeding and reintroduction in Azerbaijan, in line with

Picture 6.1. Mardakan arboretum, near Baku

⁶¹ Presidential Decree No 675 IQ (1999) and Cabinet of Ministers Decree No 117 (2000)

international (IUCN) guidelines. As a start, laws are currently in force, that protect threatened species from unlicensed collection for unofficial breeding or propagation programmes.

Plant propagation and botanic gardens

The main collection and site for plant propagation in Azerbaijan is the Mardakan Tree Nursery, which was established in 1926 on a 12 ha site on the Absheron Peninsula, 40km from Baku. This garden hosts a wide collection of specimens, both of exotic and native species.

Captive breeding

The main centre for captive breeding in Azerbaijan is at the Baku City Zoological Park, which has a collection of nearly 150 different species. The zoo is active, and the size of collections has grown over the period 2001 to 2003. The collection includes a number of species that are listed on the Azerbaijan Red Book, including Mediterranean turtle (*Testudo graeca*), greater flamingo (*Phoenicopterus roseus*), Dalmatian pelican (*Pelecanus crispus*), purple gallinule (*Porphyrio porphyrio*), mute swan (*Cygnus olor*), tawny eagle (*Aguila rapax*), Peregrine falcon (*Falco peregrinus*), lammergeier (*Gypaetus barbatus*), and goitred gazelle (*Gazella subgutturosa*).

In addition, the zoo is actively involved in breeding a number of animals, including native species such as European pond turtle (*Emys orbicularis*), Mediterranean turtle (*Testudo graeca*), Caspian gecko (*Cyrtopodion caspius*), Griffon vulture (*Gyps fulvus*), purple gallinule (*Porphyrio porphyrio*), golden jackal (*Canis aureus*), wolf (*Canis lupus*), badger (*Meles meles*), and goitred gazelle (*Gazella subgutturosa*).

6.4. Existing programmes for biodiversity conservation

6.4.1. Biodiversity inventory, monitoring and research

A number of institutions contribute to environmental and biodiversity assessment and monitoring. In 2001, the National Monitoring Service was established within the Ministry of Ecology and Natural Resources, to collect data relating to the measurement and prediction of anthropogenic impacts on the environment, including assessments of water, soil and atmospheric pollution. However, further investment is needed to continue to support environmental monitoring activities. A range of scientific institutions (research institutes and universities) collect data directly relevant to biodiversity and its conservation, including inventories of fauna and flora, description of habitats, assessment of genetic diversity, evaluation of limits for sustainable use, and testing of appropriate methods for ecosystem restoration.

In addition, the private sector also contributes to monitoring and research on biodiversity. For example, British Petroleum (BP) monitors biodiversity both on- and off-shore (including populations of fish, birds and mammals), and were also involved in biodiversity related activities such as the Trans-boundary Diagnostic Analysis, a workshop on *Mnemiopsis*, an investigation into the causes of mortality in Caspian seals and environmental data sharing.

6.4.2 Environmental educational programmes and teaching

Although there are a great number of specialists in Azerbaijan, until recently environmental educational and training in the country was rather unsystematic. Over the last ten years the situation has improved, and courses about environmental issues have been included in school curricula, and some schools even offer advanced courses in ecology. However, the

standard of teaching relating to ecology and the environment is constrained by lack of resources, such as specialist books and other materials. In addition, the improvement of training in this area goes hand in hand in broader education reforms, which allow teachers greater freedom in what and how they teach. The further improvement of efforts in environmental education will be supported by legislation, as a result of a Presidential Decree on public ecological education, which was passed at the start of 2003. Under this decree a special Commission was established to prepare a five-year action plan to be delivered by the Ministry of Education. This will also address access to environmental education materials, as well as the establishment of school reserves, ecological parks, and resource centres around wildlife reserves.

Picture 6.1. Schoolchildren on a field trip

The Ministry of Education has a State Ecological Training and Education Centre, which runs a series of environmental education centres in different regions, for children and young people. This centre draws experts from Institutes of the Azerbaijan National Academy of Sciences, state and non-governmental organizations, and provides courses with the aim of developing environmental responsibility among the next generation. In addition, other ecological teaching programmes and ecological clubs have been developed for schools.

As well as the above activities, a number of non-governmental organizations, and the private sector (notably oil companies) have run biodiversity awareness projects focusing specifically on environmental education of children. Other resources exist for environmental education,

such as a number of zoological museums and collections (including the Baku City Zoological Park).

6.4.3 Public Awareness

The existing public awareness materials relating to biodiversity in Azerbaijan are considered to be poor in design and attractiveness, and thus are not as effective as they could be. There are some materials about the usage of medicine plants and only a few films about the fauna and flora of Azerbaijan. Most wildlife films shown on television are imported and describe foreign biodiversity. Some information about biodiversity research and activities is provided to the newspapers, TV and radio, but this does not always reach the widest possible audience. A number of groups have taken the initiative of working with the mass media to highlight ecological problems, but further work is needed (for example through direct presentation of seminars and talks) to raise awareness of biodiversity issues throughout Azerbaijan.

6.4.4 Planning and intervention for conservation and restoration

The need to ensure environmental sustainability is recognized as being as important as peace, political stability, social-economic development and democracy at a global, regional and national level. Thus environmental policies are developed to ensure ecological security and environmental protection and rehabilitation. Challenges such as loss of the ozone layer, climate change, desertification, biodiversity loss and environmental pollution must all be addressed by national policy development.

The legislative base for environmental protection has been established in Azerbaijan. In response to this activities are already underway to improve environmental conditions, such as redevelopment of water ways and drainage systems, tree planting to provide parks and to prevent erosion (including areas along the Caspian coast), and a number of nature reserves and protected zones were created for flora and fauna.

However, gaps still exist in the actions taken for environmental protection, and many of these are identified and addressed by the National Environmental Programme for the Republic of Azerbaijan (adopted by Presidential Decree (18 February 2003). This plan sets out a vision for environmentally sustainable socio-economic development, along with a programme for the rehabilitation and expansion of forests in the country.

6.4.5. International Projects

A number of internationally-funded projects have been developed to address biodiversity issues in Azerbaijan:

- Caspian Biodiversity Strategy and Caspian Environment Programme (CEP). The Caspian Environment Programme is supported by several donor organizations (GEF, UNDP, UNEP, World Bank and TACIS), and aims to address trans-boundary environmental problems, such a pollution and biodiversity loss, through co-ordinated actions. Under the leadership of CEP, a "Biodiversity Strategy and Action Plan for the Caspian Sea" was developed in 2001, with participation from all five Caspian littoral states.
- National Biodiversity Strategy and Action Plan. The current project (which includes the development of this document) is supported by UNDP/GEF, and aims to produce the

- First National Report and Biodiversity Strategy and Action Plan, to meet Azerbaijan's first obligations to the Convention on Biological Diversity. This process is being led by a team from the National Academy of Sciences.
- Self-Assessment of National Capacity for Global Environment Management. This is another project supported by UNDP/GEF and it was started in 2003. The objective of the two-year project is to identify national priorities in capacity building with respect to the global environment and its role for sustainable development. It will focus on the Conventions on biodiversity, climate change and desertification/land degradation, and the synergies between them.
- Rehabilitation and Completion of Irrigation and Drainage Infrastructure Project. The World Bank is supporting a five-year programme to improve water supply and drainage, with the aim of enhancing agricultural production. Priority irrigation systems will be rehabilitated under this project which will operate until 2006.
- Sturgeon Hatchery Development Project. This project was initiated in 1998, under the World Bank's urgent environmental investment project scheme, and is due for completion in 2003. The project supports the construction of a modern hatchery facility for breeding of sturgeon fingerlings, for release into the Kura River and Caspian Sea. The hatchery will operate as a state owned service, with operations funded from public sources and associated beneficiaries.
- Conservation of the Caucasus leopard. This World Wide Fund for Nature (WWF) project has been established to determine the status of, and institute protection for, the Caucasian sub-species of leopard across the region. The project will work to strengthen existing and planned protected areas, increase anti-poaching measures, provide training, and to support environmental education and awareness raising activities.
- Eco-regional planning for the Caucasus. The German Ministry for Cooperation and Development (BMZ) launched development of a vision for biodiversity conservation in the Caucasus Ecoregion that also served as a foundation for defining CEPF's proposed investments and will support implementation of selected projects under the Caucasus Initiative of the Government of Germany.
- WWF and the Critical Ecosystems Partnership Fund (CEPF) recently led a process to develop a strategy for conservation and sustainable use of biological resources in the Caucasus. This profile prepared with collaboration with the Kreditanstalt fuer Wiedenernfbau (KfW), Conservation International and other international NGOs, along with representatives from each of the Caucasus states, to determine biodiversity investment priorities for the region. As a result a CEPF investment strategy paper has been developed, which will guide a five-year programme focusing on a series of landscape corridors across the Caucasus region. The work will involve strengthening and establishing protected areas (with a focus on trans-boundary areas), species protection measures, promotion of sustainable use and increasing awareness among decision makers.

Other species and habitat projects include work by WWF on red deer and promotion of sustainable use of medicinal plants, and a project supported by NABU on the conservation of Ag-gol lake. A GEF/World bank Rural Poverty Reduction Project has also been planned, which would involve work in Shahdag and Ordubad National Parks. In addition a number of smaller initiatives benefiting biodiversity deserve mention, such as a project on the revitalization and management of the orchards of Guba region (conducted by the Chamber of Agriculture of Loiret and the Azerbaijan Ministry of Agriculture) and , a project focusing on the protection of endemic medicinal plants from the Caucasus (involving Aix-Marseille's University of Pharmacology, the Science Academy of Tbilisi and the Pharmacology Faculty of Baku).

6.5. Financial resources for biodiversity protection

At present the main source of investment into environmental protection is from public (governmental) sources, and finances are used for a range of activities (Table 6.5). In addition, specific financial investment into forestry represents over seven million manats, for activities such as protection, planning, replanting, pest control, regional forestry units and forest guards. The financial support to the 17 strict nature reserves represents a total of 914,341,000 manats, while an additional 50,285,000 manats is available to support hunting establishments. The Environmental Protection Fund contains around 797 million manats.

At present no tax breaks exist for environmental protection work, but policies are being developed for this.

| Year | | Funding (mil | lion manats) | |
|------|-------------|----------------|---------------|--------|
| | Atmospheric | Protection of | Protection of | Total |
| | protection | water supplies | lands | |
| 1990 | 0.4 | 2 | 0.6 | 3 |
| 1995 | 3,411 | 4,133 | 18,976 | 26,773 |
| 1997 | 1,464 | 2,225 | 7,458 | 11,147 |
| 1998 | 3,250 | 12,525 | 3,378 | 19,153 |
| 1999 | 3,269 | 1,020 | 2,095 | 6,384 |
| 2000 | 4,129 | 3,018 | 1,466 | 8,613 |
| 2001 | 885 | 3,826 | 1,644 | 6,355 |

6.6. Organizations involved in biodiversity conservation and management

6.6.1. Government structures and agencies

The underlying legislative base pertaining to conservation of biological resources is developed by the Milli Mejlis (Parliament). Under this framework, a number of government institutions exist which contribute to the delivery of environmental policy.

• The Ministry of Ecology and Natural Resources. Established by Presidential Decree in 2001, the Ministry manages forestry and hunting activities (including oversight of hunting quotas and permits), oversees protection and rehabilitation of fish stocks (and other aquatic bioresources) in marine and freshwater habitats, and is also responsible for biodiversity conservation. It develops strategies for long-term and short-term approaches to sustainable development and sustainable use of biological resources. The activity of the Ministry of Ecology and Natural Resources is divided into six areas: (i) ecological policy development; (ii) ecological protection; (iii) water monitoring and management; (iv) protection of marine (Caspian) bioresources; (v) forest management; and (vi) protected areas. Further information about the work of the Ministry can be found on their website (www.eco.gov.az).

 The Ministry of Agriculture. As a major land user and the biggest user of water resources in the country (using 75% of supplies) agriculture has a significant impact on biodiversity. The Ministry of Agriculture carries out work on plant protection and on the rural environment. It runs a number of research institutes, focusing on crop and vegetable cultivation, horticulture, cultivation of cotton, grapes and fodder and livestock breeding,

In addition, the Ministry of Health, the Ministry of Youth, Sport and Tourism, and the State Committee of Land and Cartography conduct some activities which are relevant to biodiversity conservation. Other relevant state organizations include:

- State Commission of Genetic Resources on Biodiversity. This was established by Presidential Decree in December 2002, to implement measures in line with Azerbaijan's commitments under the Convention on Biological Diversity in order to prevent the loss of genetic resources of plants, animals and microorganisms.
- National Academy of Sciences. This is key national scientific research organization, and operates a series of research institutes, many of which conduct work relevant to biodiversity conservation (including, among others, the Institutes of Geography, Botany, Zoology, Genetic Resources, Microbiology, Oil-Chemistry Processes and Soil Research). Further information about the work of the ANAS can be found on their website (www.science.az).

6.6.2 Non-governmental organisations

At present there are over 60 ecological NGOs and associations, of which 27 focus on biodiversity (See Appendix 3). Among these are scientific groups undertaking basic biodiversity research (such as the Society of Botanists, the Society of Zoologists, the Society of Geographers, the Society of Mammologists and the Azerbaijan Centre for the Protection of Birds). A number of other NGOs are active in environmental education relating to biodiversity, and have an important role in raising public awareness.

6.6.3 Business and the private sector

In addition to local private entrepreneurs a number of international corporations operate in the Republic of Azerbaijan. Representatives of local private businesses have not yet taken an active role in solving environmental problems, mainly due to the relatively early stage of business development in Azerbaijan. In general, foreign investors have been more involved in ecological protection that the local business sector. In particular, the oil sector (including companies such as BP, Exxon Mobil) has been directly involved in biodiversity protection activities, as a result of their recognition of both potential corporate impacts and social responsibility.

Of particular note is the work undertaken to date by BP, whose local operation (BP Azerbaijan) has developed the Biodiversity Strategy, in full consultation with local stakeholders. Under this strategy BP will support both short-term local projects (to be delivered by local NGOs under a small grants scheme) and longer-term regional initiatives (such as work to rehabilitate Tugai forest along the Kura river), and will also support activities to increase public awareness about biodiversity.

6.7. Summary of existing measures, capacity and experience for biodiversity management

Environmental protection is strongly engrained in State policy, and ongoing economic reforms, socio-economic development and infrastructure rehabilitation can be managed so as to ensure that development is sustainable and does not compromise ecological protection, in line with international standards. Through the development of institutions responsible for biodiversity conservation (such as the State Commission of Genetic Resources on Biodiversity and the Ministry for Ecology and Natural Resources) the government has already taken important steps to ensure effective environmental protection. In particular, the Ministry for Ecology and Natural Resources is tasked to implement State policy on the study, use, protection and restoration of natural resources, on the provision of ecological security, and on ensuring the conservation of biodiversity.

Other recent achievements within the Republic of Azerbaijan include the approval of a National Environment Programme (dealing with issues of both sustainable development and forest rehabilitation), and the expansion of the protected areas system in 2003, including the creation of the Ordubad National Park.

The Republic of Azerbaijan also has a number of successful international projects relating to protection of biological resources and protected areas, in co-operation with UNDP, UNEP, World Bank, WWF, and the European Environmental Fund. In addition, a number of local NGOs operate in the field of biodiversity protection.

Chapter 7. Problem Analysis

Chapter 7 Problem Analysis

7.1. Current status of biodiversity

The biodiversity of Azerbaijan has been affected in a wide number of ways by humankind and our activities. At present, some of the most vulnerable ecosystems in Azerbaijan are located in the Kura-Araz plains, where overuse of the land has resulted in erosion. In

Picture 7.1. Resilient vegetation flourishing on the polluted Absheron Peninsula

addition, anthropogenic pressure on the semi-desert habitats of the Absheron Peninsula has been intensive. Elsewhere, mountain ecosystems have been significantly affected. Timber and fuelwood extraction has resulted in the reduction of forest areas, and coupled with unregulated grazing of mountain pastures, this is contributing to ongoing erosion, resulting in increased flooding and landslides. In general, Azerbaijan has limited forest resources, and their ongoing exploitation and loss of forest area is a cause for concern (for example, with regard to disappearance of the Tugai forest).

In addition, Azerbaijan's wetlands are significantly affected by anthropogenic impacts. Some natural lakes in Azerbaijan (such as Mehman, Garasu and Marso) have almost completed dried out as a result of over-extraction, and others have been severely impacted as a result of the construction of irrigation and drainage systems (such as Bozgobu and Sarisu lakes). Many of these lakes were once important breeding grounds for fish. Lowland lakes are generally fed from drainage channels (as the main rivers are regulated) and this increases their salinity, and dramatically impacts aquatic life, including fish. A number of these lakes are also polluted with outflows from industrial and domestic sources, and may be

contaminated with oil from unsealed wells, the ecological situation of these wetlands is becoming acute.

The situation in the Caspian Sea is a matter of both national and international concern. As a closed system, this sea is particularly vulnerable to human impacts, and its biodiversity is at risk from a number of factors, including the recent accidental introduction of *Mnemiopsis leidyi*, pollution loads and over-fishing (particularly of valuable fish, such as sturgeon).

The decline in the extent and quality of ecosystems has in turn affected the associated species of plants and animals. The populations and distribution of a number of economically important tree species have been reduced⁶². In addition, 416 plant species are recommended for listing in an updated Red Data Book for Azerbaijan. A number of invertebrate species are also at risk in Azerbaijan, mainly as a result of habitat loss⁶³, and the anthropogenic impacts on the environment have significantly affected a number of vertebrates (particularly species with specialized niches, such as the striped hyena, *Hyaena hyaena*). Plant and animal species have also been affected by hunting and over-collection, and by the impacts of parasites and diseases.

⁶² Including Caucasian oak (*Quercus macranthera*), maple (*Acer trautvetterii*), birch (*Betula pendula*), wych elm (*Ulmus scabra*) and bird cherry (*Prunus padus*).

⁶³ Including bumblebees (various *Bombus* species) and arthropods endemic to Talysh region (including *Purpuricenus tlyshensis, Dorcadion talyschense,* and *Carabus clypeatus*)

7.2. Direct causes of biodiversity loss

Human activity underlies most of the causes of biodiversity losses in Azerbaijan, and humankind has significantly affected much of the land, through activities such as:

- Land conversion, predominantly for agriculture, but also for construction and industry, has reduced the area of natural habitat in Azerbaijan and results in fragmentation of the remaining landscape.
- Land degradation, resulting from overuse, erosion and fertilizer burdens reduces productivity and affects the likelihood of natural habitats reestablishing. It is estimated that 70% of pastures have undergone erosion, particularly the more fragile summer pastures.
- **Pesticide use**, particularly the legacy of high levels of application of toxic chemicals during the Soviet era, has resulted in long term pollution of some soils, and leaching into waterways. Pesticide use is currently under improved State control, however some illegal application of imported and unregistered pesticides is thought to occur.
- Irrigation has impacted much of the lowlands, and canals have fragmented much of the wider natural habitat, preventing free migration of animal species (especially as they lack appropriate bridges or escape paths for wildlife). Over recent years the collapse of these systems due to lack of repair has resulted in changes in the chemical composition of soil, increase in the ground-water level and gradual increases in salinity in some areas.
- Water regulation, including the construction of dams and management of water flows and extraction levels, has affected aquatic habitats significantly, particularly in the absence of adequate measures for protection of fisheries and other aquatic species
- **Pollution**, including the legacy from Soviet industry and agriculture, and ongoing pollution of waterways from domestic and industrial sources. In some cases older infrastructure relating to the oil industry is a source of pollution. The outflow of rivers into the Caspian Sea contributed to the pollution loads detected in the marine habitat.
- Transport infrastructure (including over 2,000 km of railway, 25,000 km of roads and 4,000 km of oil and gas pipelines) has caused habitat fragmentation, and represent barriers to the movement of wildlife, resulting in genetic isolation of sub-populations.
- Over-use of biological resources has been ongoing, with difficult economic conditions
 resulting in overexploitation of forests, medicinal plants and animals (including fish). Of
 particular note has been the decline in fisheries from both the Caspian Sea and inland
 waterways as a result of over-catch along with other factors such as water extraction and
 pollution. The sturgeon issue is one that requires international collaboration in order to
 prevent further over-fishing.
- **Alien species** are a particular issue in the Caspian Sea, where the comb jelly *Mnemiopsis leidyi* has been introduced, and has the potential to decimate planktonic fry and ultimately fish stock.

7.3. Underlying causes of biodiversity loss

A range of issues drive the ongoing decline of biodiversity in Azerbaijan, as in the rest of the world:

- Economic development. Over the last decade the Republic of Azerbaijan has seen major social and economic change, resulting from independence, economic downturn, and subsequent market reforms and recovery. The legacy of Soviet overuse of natural resources persists with regard to high pollution and pesticide burdens. In addition, the economic downturn affected the maintenance of infrastructure, including irrigation systems, leading to its deterioration and subsequent environmental impacts. The problems associated with market reforms, coupled with the costs of the Nagorno Karabakh conflict, resulted in reduced living standards for much of the population, and greater reliance on natural resource use.
- Land use. In order to feed the population and to support economic growth, significant areas of land have been converted from natural ecosystems to agricultural use. In addition, to this loss of natural habitat, other ecosystems are also affected by ongoing use particularly with regard to grazing in lowland plains and mountain meadows. The lack of regulation of some grazing activities, and inappropriate use of meadow habitats, is contributing to soil erosion and changes in plant community compositions, which ultimately affect biodiversity.
- Conflict. The ongoing conflict with Armenia over Nagorno Karabakh has contributed significantly to biodiversity declines. All terrestrial ecosystems have been affected either directly or indirectly by the conflict over Nagorno Karabakh, which has resulted in destruction of extensive areas of woodland (mainly through fire) and ecological impacts to fauna and flora within the occupied territories. The occupation of territories by Armenian forces has resulted in a significant increase in refugees and internally displaced people (together representing around 1 million people or 12% of the population). The long-standing conflict has affected the country's economy and living conditions, resulting in greater exploitation of natural resources. Refugees and internally displaced people often live in temporary settlements, and rely on intensive grazing and use of fuel wood, resulting in local land degradation around these settlements. In addition, a number of the Strict Nature Reserves and significant forest reserves are located within the occupied territories.

7.4 Key sectors affecting biodiversity

A number of economic sectors directly impact biodiversity in Azerbaijan.

- Agriculture. Reform of the agricultural sector over the last few years has reduced its impact on biodiversity. Previously under the Soviet system productivity was maintained by extensive use of pesticides and mineral fertilizers, and through the establishment of extensive monocultures. However, a significant portion of Azerbaijan's land remains under cultivation, and the associated biodiversity is still directly affected (for example, the regulations in place to protect wildlife during harvesting are not always observed, fields are burnt after harvest, unregistered pesticides and inappropriate fertilizers are used; pastures are intensively grazed, and irrigation systems affect soil and water bodies).
- Forestry. In general, the area of forest continues to decrease in Azerbaijan, and species composition and structure of woodland is changing. Lack of sources of fuel (such as gas) result in a reliance on wood for fuel, which is probably the greatest impact on forest

- resources. In addition, timber is cut illegally for construction, which results in the removal of older trees from the forests.
- **Industry.** Although pollution from industrial sources has decreased over the last decade as the economic status of the country changed, the legacy of pollution from previous years remains a problem, with poor decommissioning procedures leaving behind untreated industrial waste and obsolete equipment.
- **Transport.** The density of roads and growth in the transport infrastructure (including canal construction) has resulted in greater fragmentation of the habitat. In addition, there is now a growth in pollution from vehicle emission sources.
- **Construction.** In many cases new buildings are constructed without appropriate planning or impact assessment, based on local regulations, without effective State oversight. As a result some houses have been built in inappropriate areas (for example in pipeline buffer zones, and on the protected shores of lakes and the Caspian Sea).
- Oil Industry. Oil extraction and refining industries have had significant effects on biodiversity and on the general environment. For decades ground (soil) tanks and open canals have been used to collect oil flowing from onshore wells and to ensure flow of oil to processing centres. The lack of the necessary technologies, inappropriate drilling regimes, poor maintenance and disregard of environmental protection measures have contributed to impacts in both onshore and offshore ecosystems. On the Absheron Peninsula 7,400 ha has been badly contaminated, and the legacy of earlier oil extraction remains in polluted lakes, soil and ground water. The extent of oil extraction and processing has now decreased and new technological processes have been introduced. However the State oil company is still considered to be a major contributor to atmospheric pollution, and the issue of waste water discharge into the Caspian Sea remains a cause for concern
- Mining. The mining industry affects biodiversity in a number of ways, including direct destruction of natural habitats (such as destruction of pastures for quarrying), widespread erosion and pollution, increases in the transport network, extensive slag heaps covering surrounding areas, coupled with lack of appropriate restoration of the lands. Mining activities affect significant areas of mountain habitats in particular, and these have been related to increasing erosion in these areas. Many of the by-products of mining contain heavy metals contaminate surrounding soils and water courses.
- **Tourism.** If unregulated, tourism can significantly affect natural habitats and species. Unplanned and inappropriate construction in natural areas (for example in coastal, forest or green zones), coupled with increased transport and development of new paths in ecologically sensitive areas, increased collection of rare plants and increased litter are all problems.

7.5 Constraints to biodiversity conservation

The key factors that limit the effectiveness of biodiversity conservation in Azerbaijan include:

- Limited finance for conservation means that some essential activities cannot be undertaken. For example the limited investment into nature protection facilities and activities (around 0.2% of total investments in 2001) restricts the work that can be achieved for environmental protection. Financial constraints have limited almost all activities, including the support for artificial breeding and release of fish fry into the rivers and water bodies.
- Lack of information on appropriate management techniques.
- **Incomplete legislation**, particularly with regard the normative acts which explain the application of the laws, undermines environmental protection. There is a need to harmonise the existing laws, and to establish new legislation to fill gaps in existing laws on the protection of biodiversity and genetic resources.
- **Limited enforcement of legislation** is partly related to the above problems in the legal base, but also reflects deficiencies in the judicial system.
- **Poor environmental education and awareness** prevents widescale public involvement or responsibility in biodiversity protection issues.

7.6 Opportunities for biodiversity conservation

A number of developments will support further efforts to improve biodiversity conservation in Azerbaijan.

The Constitution of the Republic of Azerbaijan outlines the core principles of environmental protection, and the legislative basis for this has been put in place, along with an improved environmental management structure has been developed. The Constitution, which was adopted after a national referendum in 1995, sets out the principles of environmental protection, ownership of natural resources and the regulation of this sector. Since then the Milli Mejlis (Parliament) has further developed the legislative basis for regulating environmental protection, and around 20 laws have been adopted to bring the country in line with international standards on environmental protection. In addition, in 2001 the Ministry of Ecology and Natural Resources was established to help manage and implement priorities for environmental protection.

The government of the Republic of Azerbaijan is committed to solving the country's environmental problems (including biodiversity conservation) and has taken a number of important actions in this regard. For instance, a State Committee has been established to help meet the obligations of the country under the Convention on Biological Diversity, and the national Environment Programme (approved in 2003) identifies a number of opportunities for biodiversity conservation.

In addition, the growth of the NGO sector also supports increased biodiversity conservation measures, and 60 of the 400 registered NGOs in the Republic are environmental organizations.

7.7. Key issues

A cross-sectoral workshop was held in the summer of 2003 to identify the key issues or major problems to be tackled in order to protect the country's biodiversity. The following key issues for biodiversity were identified:

- The natural resources are not evaluated
- Biodiversity conservation is not at an appropriate level for adequate protection of threatened species and habitats
- The protected areas system has weaknesses and deficiencies
- The legislation system has weaknesses and needs improvement
- Existing legislation is not implemented to an appropriate level
- There are insufficient financial resources for biodiversity protection activities
- Insufficient efforts are made for ex-situ protection of plants and animals
- Natural resources are not being used in a sustainable manner
- The cross-sectoral linkages between appropriate organizations (including NGOs) is limited and could be strengthened
- There is limited protection of traditions and cultural heritage linked to nature and natural resources
- There are few incentive mechanisms to promote social responsibility in respect to biodiversity conservation
- There are not enough experts in the field of biodiversity, and the knowledge of those existing experts could be enhanced
- Limited public awareness and education relating to biodiversity

In the Nakhichevan Autonomous Republic there are a range of wild habitats and associated rare and endemic species that are at risk of destruction and extinction as a result of anthropogenic factors. The effects of land degradation (erosion and salinisation) require substantial intervention to restore natural areas. In addition, collection and trade in a number of plant species, and hunting of animals, is threatening their survival. Current efforts are insufficient to ensure the conservation and sustainable use of the biodiversity of the Autonomous Republic.

It is clear that a range of ecosystems, sites and species require prompt intervention if they are to survive in Nakhichevan, and a number of areas should be afforded protected status. For example Qaraqush mountain and surrounding areas, which support a range of rare and endemic plant species⁶⁴ is currently unprotected, as are areas such as "Gerek dash" in the Sederek region, sites around the villages of Hemzeli, Axura, Zizifus and Cucbawhich support important animal populations, and the areas of Ilanlidagand Yevgeni oldurgeni⁶⁵. In addition, in order to maintain important populations of, the areas around require protection, as hunting continues unregulated in some of these sites. A number of ecosystems and habitats in Nakhichevan are threatened, including a range of rare forest types, such as the forests in the Ereidag-Demirlidag mountains.

7.8 Next steps

The current document, which represents the first National Report to the Convention on Biological Diversity, represents a status review of the current situation facing biodiversity and its conservation in Azerbaijan, taking on board input from a range of national specialists and feedback from wide consultations. This document provides information sources for the planning of the national Biodiversity Strategy and Action plan, a process which is now underway for completion in 2004.

⁶⁴ Including Triticum monococcum, T. araraticum, Daphne transcaucasia, Aster alpinus, Campaluna radura, C. karakuschensis, Diphelypaea coccinea, Gundelia tournefortii, Globularia trichosantha, Hypercium atropatanum, H. formosissimum and Scilla atropatana.

 $^{^{65}}$ These areas support a range of plant species, as well as Caucasian leopard, mouflon, porcupine and partridge



Appendix 1. Threatened Species recorded from Azerbaijan⁶⁶

| Scientific name | English and/or Azeri Common name(s) | Status (IUCN and CITES) | National Status |
|---|--|-------------------------|--|
| PLANTS | | | |
| Sporophyta – Ferns and ho | rsetails | | |
| Dryopteris raddeana (Fomin) (1911) | Radde ayıdöşəyi | - | Included in the Red Data Book of Azerbaijan. |
| Gymnospermae - Gymnosp | erms | | |
| Pinus eldarica Medw. (1902) | Eldar şamı | - | Included in the Red Data Book |
| Pinus kochiana Klotzsch ex C. Koch, (1849) (Pinus hamata | Kox şamı (qarmaqvari şam) | - | of Azerbaijan. Included in the Red Data Book |
| (Stev.) Sosn.) Juniperus foetidissima Willd. | Ağıriyli ardıc | - | of Azerbaijan. Included in the Red Data Book |
| Angiospermae - Angiosper Monocotyledonus - Monocotyle | | | of Azerbaijan. |
| Nectaroscordum dioscoridis (Sibth. et Smith.) Stank (1966) | Rəngli nektaroskordum | - | Included in the Red Data Book of Azerbaijan. |
| Nectaroscordum tripedale (Trautv.) Grossh. (1940) | Üçfutlu nektoroskodum | - | Included in the Red Data Book of Azerbaijan. |
| Galanthus caucasicus (Baker) Grossh. (1924) | Qafqaz xədicəgülü | - | Included in the Red Data Book of Azerbaijan. |
| Sternbergia colchiciflora Waldt. et Kit. (=S.alexandre Sosn.) (1936) | Qışda çiçəkləyən şternbergiya, Fişer şternbergiyası | - | Included in the Red Data Book of Azerbaijan. |
| Sternbergia fisheriana (Herb.) M. Roem. | Fişer şternbergiyası | - | Included in the Red Data Book of Azerbaijan. |
| Sternbergia lutea (L.) Spreng. (1847) | Winter daffodil (Sarı şternbergiya) | - | Included in the Red Data Book of Azerbaijan. |
| Danae racemosa (L.) Moench (1974) | Budaqlı danaya | - | Included in the Red Data Book of Azerbaijan. |
| Ruscus hyrcanus Woronow (1907) | Hirkan bikəvəri | - | Included in the Red Data Book of Azerbaijan. |
| Crocus caspius Fisch. et Mey. (1838) | Xəzər zəfəranı | - | Included in the Red Data Book of Azerbaijan. |
| Gladiolus halophilis Boiss. et Heldr. (1853) | Şoran qarğasoğanı | - | Included in the Red Data Book |

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 $^{^{66}}$ In total 303 species are considered to be nationally or internationally threatened, and these are listed here.

| | | | of Azerbaijan. |
|--|--|---|--------------------------------|
| Iridodictyum reticulatum (Bieb.) | Torlu iridodiktium | - | Included in the |
| Rodionenko= <i>Iris reticulata</i> Bieb. | | | Red Data Book |
| (1808) | | | of Azerbaijan. |
| Iris acutiloba C. A. Mey. (1831) | İtikənarlı süsən | - | Included in the |
| , , | | | Red Data Book |
| | | | of Azerbaijan. |
| Iris camillae Grossh. | Kamilla susəni | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Iris elegantissima Sosn. (1915) | Qəşəng süsən | - | Included in the |
| The engineering Sesta (1916) | Estandament | | Red Data Book |
| | | | of Azerbaijan. |
| Iris grossheimii Woronow ex | Qrossheym süsəni | - | Included in the |
| Grossh. (1928) | Qrossicym susani | _ | Red Data Book |
| G105511. (1920) | | | of Azerbaijan. |
| Inic ihanica Hoffm (1906 09) | Gürcü süsəni | | Included in the |
| Iris iberica Hoffm. (1806-08) | Gurca susəni | - | Red Data Book |
| | | | |
| I.:- 1: IAI (1015) | Ovudanlaži siisan | | of Azerbaijan. Included in the |
| <i>Iris lycotis</i> Woronow (1915) | Qurdqulağı süsən | - | |
| | | | Red Data Book |
| 1 (4000) | D 11 1 " | | of Azerbaijan. |
| Iris paradoxa Stev. (1820) | Paradoksal süsən | - | Included in the |
| | | | Red Data Book |
| | 2011 | | of Azerbaijan. |
| Iris prilipkoana KemNeth. | Prilipko süsəni | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Fritillaria grandiflora Grossh. | İriçiçək laləvər | - | Included in the |
| (1919) | | | Red Data Book |
| | | | of Azerbaijan. |
| Lilium ledebourii (Baker) Boiss. | Ledebun zambağı | | Included in the |
| (1884) | | | Red Data Book |
| | | | of Azerbaijan. |
| Merendera candissima Micz. et | Ağaran danaqıran | - | Included in the |
| Grossh. (1928) | | | Red Data Book |
| | | | of Azerbaijan. |
| Muscari elegantissimum Schchian | Qəşəng ilansoğanı | - | Included in the |
| (1947) | | | Red Data Book |
| | | | of Azerbaijan. |
| Ornithogalum hyrcanum Grossh. | Hirkan xıncalausu | - | Included in the |
| (1929) | | | Red Data Book |
| , | | | of Azerbaijan. |
| Scilla atropatana Grossh. (1935) | Atropaten zümrüdçiçəyi | - | Included in the |
| ,, | | | Red Data Book |
| | | | of Azerbaijan. |
| Tulipa biebersteiniana Schult.et | Biberşteyn dağlaləlsi | - | Included in the |
| Schull. Fil. (1829) | 3 7 | | Red Data Book |
| | | | of Azerbaijan. |
| Tulipa florenskyi Woronow (1924) | Florenski dağlaləsi | - | Included in the |
| 1pu justiningi (101011011 (1724) | and the state of t | | Red Data Book |
| | | | of Azerbaijan. |
| Tulipa julia C.Koch (1948) | Yuliya dağlaləsi | - | Included in the |
| 1 ипри јини C.ROCH (1940) | i miya aaguasi | _ | Red Data Book |
| | | | |
| Tuling kanaha de araia C 1- | Ograbař dažlalasi | | of Azerbaijan. |
| Tulipa karabachensis Grossh. | Qarabağ dağlaləsi | - | Included in the |
| (1936) | | | Red Data Book |
| | | | of Azerbaijan. |

| Tulipa schimidtii Fomin (1909) | Şmit dağlaləsi | - | Included in the |
|---------------------------------------|-----------------------------------|---|-----------------|
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Tulipa eichleri Regel. | eyxler dağlaləsi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Cephalanthera longifolia (L.) | Uzunyarpaq tozbaş səhləb | - | Included in the |
| Fritsch. (1888) | | | Red Data Book |
| | | | of Azerbaijan. |
| Himantoglossum formosим (Stcv.) | Qəşəng qayışləçək | - | Included in the |
| C.Koch = Loroglossum formosum | | | Red Data Book |
| Stev. (1908) | | | of Azerbaijan. |
| Limodorum abortivum (L.) SW | Natamam limodorum | - | Included in the |
| (1799) | | | Red Data Book |
| , | | | of Azerbaijan. |
| Orchis purpurea Huds.(1762) | Fırfır səhləb | - | Included in the |
| (| | | Red Data Book |
| | | | of Azerbaijan. |
| Ophrys caucasica Woronow ex | Qaqaz qaş səhləbi | _ | Included in the |
| Grossh. | 2 | | Red Data Book |
| G10001t. | | | of Azerbaijan. |
| Steveniella satyrioides (Stev.) | Satiriodvari steveniella | _ | Included in the |
| Schlechter (1918) | Suitiouvari steventetta | _ | Red Data Book |
| Schlechter (1918) | | | of Azerbaijan. |
| Paeonia mlokoscwilschii Lomak | Mlokosevic pionu | | Included in the |
| | Miokosevic pionu | - | |
| (1897) | | | Red Data Book |
| A 11 1 1 D (1050) | E ladia manada | | of Azerbaijan. |
| Ammochloa palaestina Boiss. (1853) | Fələstin qumotu | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Avena ventricosa Bal. (1854) | Şişkin vələmir, Şişkin hacaquyruq | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Stipa pellita (Trin, el Rupr.) Tzvel. | Tukcüklü şiyav | - | Included in the |
| (1966) | | | Red Data Book |
| | | | of Azerbaijan. |
| Triticum monococcum L. (1753) | Təkdənli büğda | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Dicotyledonae - Dicotyledons | | | |
| Dorema glabrum Fisch. et Mey. | Dorema (Çılpaq dorema) | - | Included in the |
| (1835) | | | Red Data Book |
| | | | of Azerbaijan. |
| Caropodium platycarpum (Boiss et | Oraqmeyvə kapopodium | - | Included in the |
| Hanskn.) Schishk. | | | Red Data Book |
| | | | of Azerbaijan. |
| Ferula caspica Bieb. = F. caucasica | Qafqaz ilankölgəsi | - | Included in the |
| Korov. (1808) | | | Red Data Book |
| • | | | of Azerbaijan. |
| Ferula oopoda (Boiss. et Buhse) | Yumurtavari ilankölcəsi | - | Included in the |
| Boiss. (1872) | | | Red Data Book |
| , , | | | of Azerbaijan. |
| Ferula persica Willd.(1797) | İran ilankölgəsi | - | Included in the |
| 1 | | | Red Data Book |
| | | | of Azerbaijan. |
| Ferula szowitsiana D. C. | Şovits ilankölgəsi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| | 1 | 1 | |

| Smyrniopsis oneberi Boiss. (1936) | Oşe lələklivəsi | - | Included in the |
|---|---------------------------------|----------------|-----------------|
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Stenotaenia macrocarpa Freyn et | İrimeyvə stenoteniya | - | Included in the |
| Sinl. ex Freyn. = <i>S. daralaghezica</i> | | | Red Data Book |
| (Takhl.) Schischk. (1949) | | | of Azerbaijan. |
| Ilex hyrcana Pojark. (1947) | Hirkan şümşəsi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Hedera pastuchowii Woronow | Pastuxov daşsarmaşığı | - | Included in the |
| (1932) | | | Red Data Book |
| | | | of Azerbaijan. |
| Aristolochia bottae Jaub. et Spach | Botta zərvəndi | - | Included in the |
| (1842-43) | | | Red Data Book |
| <u> </u> | | | of Azerbaijan. |
| Cladochaeta candissima (Bieb.) DC. | Parlaq kladoxeta | - | Included in the |
| (1837) | | | Red Data Book |
| | | | of Azerbaijan. |
| Gundelia tournefortii L. (1753) | Turnefor qundeliyası | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Lactuca takhtadzhianii Sosn. | Taxtacan südləməsi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Pyrethrum komarovii Sosn. (1945) | Kamarov birəotu | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Pyrethrum kotschyi Boiss. (1855) | Koçi birəotu | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Scorzonera grossheimii Lipsch. et | Qrossheym təkəsaqqalı, keçi | - | Included in the |
| Vass. | yemliyi | | Red Data Book |
| | | | of Azerbaijan. |
| Scorzonera pulchra Lomak. (1897) | Gözəl təkəsaqqalı, keçi yemliyi | - | Included in the |
| , | | | Red Data Book |
| | | | of Azerbaijan. |
| Scorzonera pusilla Pall. (1804) | Kiçik təkəsaqqalı | - | Included in the |
| , , , | | | Red Data Book |
| | | | of Azerbaijan. |
| Telekia speciosa Schred.) | Gözəl telekiya | - | Included in the |
| Baumg.(1816-46) | | | Red Data Book |
| | | | of Azerbaijan. |
| Alnus subcordata C. M. Mey. | Ürəkyarpaq qızılağac | - | Included in the |
| (1831) | | | Red Data Book |
| , | | | of Azerbaijan. |
| Datula unddagua Tuguta (1997) | Radde tozağacı | - | Included in the |
| Betula raddeana Trautv.(1887) | | | Red Data Book |
| | | | of Azerbaijan. |
| Physoptychis caspica (Habl.) V. | Xəzər bozqovac | - | Included in the |
| Boczan.= <i>P. gnaphalodes</i> (DC) | 1 | | Red Data Book |
| Boiss. (1867) | | | of Azerbaijan. |
| Pseudovesicaria digitata (C. A. | Barmaqvari qovaq | _ | Included in the |
| Mey.) Rupr.(1869) | 1 "" | | Red Data Book |
| - J. / [(1 | | | of Azerbaijan. |
| n ' 1 ' 11' | Common box (Həmişəyaşıl | LR/nt | Included in the |
| Buxus sempervirens L. = B. colchica | şumşad) | ver 2.3 (1994) | Red Data Book |
| Pojark.+ B. hyrcana Pojark.(1907) | guingaaj | VCI 2.0 (1774) | of Azerbaijan. |
| | Kaspi, Xəzər şeytanağacı | <u> </u> | Included in the |
| Gleditsia caspia Desf.(1809) | Tuopi, 210201 geyiminguci | _ | D 1D : D 1 |

| | | | Red Data Book |
|--------------------------------------|-------------------------------------|---|--------------------------------|
| | | | of Azerbaijan. |
| Campanula radula Fisch. ex Tchih. | Şüalı zəngçiçəyi | _ | Included in the |
| (1860) | 3 03 3 2 | | Red Data Book |
| () | | | of Azerbaijan. |
| E 1 (' E' 1 ()) | Məxməri gərməşov | - | Included in the |
| Euonymus velutina Fisch. et Mey | | | Red Data Book |
| (1838) | | | of Azerbaijan. |
| A 1 ' 1 1' (F' 1 () A | Şamdanvari öldürgən | - | Included in the |
| Anabasis brachiata Fisch. et Mey. | 3 | | Red Data Book |
| ex Kar. et Kir. (1842) | | | of Azerbaijan. |
| Anabasis eugeniae lljin (1937) | Yevgeni öldürgəni | - | Included in the |
| Timenere engenme iijii (1507) | | | Red Data Book |
| | | | of Azerbaijan. |
| Corylus colurna L.=C. cervorum | Turkish hazelnut (Maral | - | Included in the |
| V.Petrov.(1936) | findiği) | | Red Data Book |
| v.1 cuov.(1930) | Juangi) | | of Azerbaijan. |
| | Date plum (<i>Qafqaz xurması</i>) | _ | Included in the |
| Diospyros lotus L.(1753) | Date plant (Quyquz xurmusi) | | Red Data Book |
| | | | of Azerbaijan. |
| Rhododendron caucasicum Pall. | Qafqaz xanıməli | _ | Included in the |
| (1784) | Qujquz xunimən | _ | Red Data Book |
| (1704) | | | of Azerbaijan. |
| Rhododendron luteum Sweet (1830) | Sarı xanıməli | | Included in the |
| Rhououenuron tuteum Sweet (1650) | Suri xunimoti | - | Red Data Book |
| | | | of Azerbaijan. |
| Europaulia anacalainii Proleh (1020) | Qrossheym süddüyəni | | Included in the |
| Euphorbia grossheimii Prokh.(1930) | Qrossneym sudduyəni | - | Red Data Book |
| | | | of Azerbaijan. |
| Actuaçadus hakumasis Bunga (1969) | Bakı gəvəni | | Included in the |
| Astragalus bakuensis Bunge (1868) | Викі дәуәпі | - | Red Data Book |
| | | | |
| Astragalus nachitschevanicus Rza- | Naxçıvan gəvəni | | of Azerbaijan. Included in the |
| | Naxçıvan gəvəm | - | Red Data Book |
| zade (1954) | | | |
| Astragalus kubensis Grossh. (1933) | Quba gəvəni | | of Azerbaijan. Included in the |
| Astrugutus kuvensis Grossii. (1955) | Quou gəvəni | - | Red Data Book |
| | | | of Azerbaijan. |
| Astugaslus usus danus Propos (1950) | Qəribə gəvəni | | Included in the |
| Astragalus paradoxus Bunge (1859) | Qərtvə gəvəni | - | |
| | | | Red Data Book |
| A 1 1 '1' 1 C 1 | Duilinka assassi | | of Azerbaijan. |
| Astragalus prilipkoanus Grossh. | Prilipko gəvəni | - | Included in the |
| (1936) | | | Red Data Book |
| | | | of Azerbaijan. |
| Castanea sativa Mill. | European chestnut (Adi şabalıd) | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Quercus boissieri Reult.=Q. araxina | Boasiye palıdı, Araz palıdı | - | Included in the |
| (Traulv.) Grossh. (1930) | | | Red Data Book |
| 0 '61' | | | of Azerbaijan. |
| Quercus castaneifolia | Şabalıdyarpaq palıd | - | Included in the |
| C.A.Mey.(1831) | | | Red Data Book |
| | | | of Azerbaijan. |
| Platanus orientalis L. | Oriental planetree (şərq çinarı) | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Gentiana lagodochiana | Laqodex acıçiçəyi | - | Included in the |
| (Kusn.)Grossh. (1932) | | | Red Data Book |

| | | | of Azerbaijan. |
|---|------------------------------|---|----------------------------------|
| Globularia trichosantha Fisch.et | Darləçək qlobulariya | - | Included in the |
| Mey.(1879) | | | Red Data Book |
| Wey.(1077) | | | of Azerbaijan. |
| Parrotia persica (DC.) C.A.Mey. | Dəmirağacı | - | Included in the |
| (1831) | | | Red Data Book |
| • | | | of Azerbaijan. |
| Anogramma leptophylla (l.) Link | Nazikyarpaq anoqramma | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Hypericum formossimum Takht. | Gözəl dazı | - | Included in the |
| , | | | Red Data Book |
| | | | of Azerbaijan. |
| Pterocarya pterocarpa (Michx.) | Qanadmeyvə yalanqoz | - | Included in the |
| Kunth exI.Iljinsk.(1824) | | | Red Data Book |
| , , | | | of Azerbaijan. |
| Acantholimon schemachense | Şamaxı tıs-tısı | - | Included in the |
| Grossh. (1931) | | | Red Data Book |
| G103311. (1731) | | | of Azerbaijan. |
| Acantholimon tenuiflorum Boiss. | Nazikçiçək tıs-tıs | - | Included in the |
| (1846) | | | Red Data Book |
| (====) | | | of Azerbaijan. |
| Alcea kusariensis (Iljin) Iljin ((1949) | Qusar gülxətmi | - | Included in the |
| 1110011 11110111 ((15 15) | 2 | | Red Data Book |
| | | | of Azerbaijan. |
| Alcea lenkoranica Iljin (1949) | Lənkəran gülxətmi | _ | Included in the |
| 1110011 1011110 111111 (15 15) | | | Red Data Book |
| | | | of Azerbaijan. |
| Alcea sachsachanica Iljin (1940) | Sağsağan gülxətmi | _ | Included in the |
| Theen enchancement in it (1) 10) | | | Red Data Book |
| | | | of Azerbaijan. |
| Marsilea strigosa Willd. | Sərttüklü marsiliya | _ | Included in the |
| Transition on Ageon Villan | | | Red Data Book |
| | | | of Azerbaijan. |
| Ficus hyrcana Grossh. | Hirkan ənciri | - | Included in the |
| <i>g</i> | | | Red Data Book |
| | | | of Azerbaijan. |
| Albizia julibrissin Durazz. (1772) | Lənkəran güləbrişini, İpək | - | Included in the |
| 111012m juno1100m Barazz. (1772) | akasiyasi | | Red Data Book |
| | | | of Azerbaijan. |
| Notice the agencies (DC) Finals | Şanagüllə | - | Included in the |
| Nelumbo caspica (DC) Fisch. | 3 | | Red Data Book |
| (Nelumbium caspica (DC.) Fisch.) | | | of Azerbaijan. |
| (1823) | E | | , |
| Nymphaea alba L. (1753) | European white waterlily (Ağ | - | Included in the Red Data Book |
| | suzanbağı) | | |
| N 1 1 1 1 C D 1 | F | | of Azerbaijan. |
| Nymphaea candida J. et C. Persl | Гар сузанбаьы | - | Included in the |
| | | | Red Data Book |
| C 11: 1 1 1: (1000) | D. I | | of Azerbaijan. |
| Calligonum bakuense Litv. (1922) | Bakı cuzqunu | - | Included in the |
| | | | Red Data Book |
| 0.11: 1 11 7 (200-) | | | of Azerbaijan. |
| Calligonum polygonoides L. (1753) | Qırxbuğum cuzqun | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Rheum ribes L. (1973) | Qarağat rəvəndi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |

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|--------------------------------------|--------------------------------|---|-----------------|
| Primula juliae Kusn.(1899) | Yuliya novruzçiçəyi | - | Included in the |
| | | | Red Data Book |
| | 7 | | of Azerbaijan. |
| Cyclamen elegans Boiss. et Buhse | Zərif meşənovruzgülü | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Punica granatum L. | Pomegranate (Adi nar) | - | Included in the |
| | | | Red Data Book |
| | 10 | | of Azerbaijan. |
| Anemone kuznetzowii Woronow | Kuznetsov əsməsi | - | Included in the |
| et Grossh.(1930) | | | Red Data Book |
| | j. 1 1 1 | | of Azerbaijan. |
| Frangula grandiflora (Fisch. el | İriyarpaq kövrək mürdəşir | - | Included in the |
| Mey.) Grub.(1949) | | | Red Data Book |
| C | | | of Azerbaijan. |
| Coteneaster saxatilis Pojark. (1938) | Qaya dovşanalması | - | Included in the |
| | | | Red Data Book |
| | D 1.6 11 | | of Azerbaijan. |
| Laurocerasus officinalis M. | Dərman dəfnəgilənarı | - | Included in the |
| Roem.(1847) | | | Red Data Book |
| | | | of Azerbaijan. |
| Padus avium Miel.=P. racemosa | Quş meşəgilası | - | Included in the |
| (Lam.) Gilib.(1785) | | | Red Data Book |
| | | | of Azerbaijan. |
| Pyrus boissierana Buhse(1860) | Buasiye armudu | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Pyrus eldarica Grossh.(1944) | Eldar armudu | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Pyrus hyrcana Fed.(1952) | Hirkan armudu | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Rosa pulverulenta Bieb. (Rosa | Azərbaycan itburnusu | - | Included in the |
| azerbajdzhanica Novopokr.et Rza- | | | Red Data Book |
| zade(1947)) | | | of Azerbaijan. |
| Pyracantha coccinea (L.) M. Roem. | Scarlet firethorn (Qırmızı | - | Included in the |
| (1847) | tubulğa) | | Red Data Book |
| | | | of Azerbaijan. |
| Rosa karjaginii Sosn.(1944) | Qaryagin itburnu | - | Included in the |
| 1000 10011 (1511) | | | Red Data Book |
| | | | of Azerbaijan. |
| Rosa nisami Sosn.(1944) | Nizami itburnu | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Rosa canina L. (Rosa sosnovskyi | Dog rose (İtburnu) | - | Included in the |
| Chrishan.(1951)) | | | Red Data Book |
| ` '' | | | of Azerbaijan. |
| Salix kuznetzowii Laksch ex | Kuznetsov's willow (Kuznetsov | - | Included in the |
| Goerz. | söyüdü) | | Red Data Book |
| | | | of Azerbaijan. |
| Atropa caucasica Kreyer (1925) | Caucasian belladonna (Qafqaz | - | Included in the |
| , , , | xanımotu) | | Red Data Book |
| | , | | of Azerbaijan. |
| Staphylea colchica Stev. | Kolxida Stafulası | - | Included in the |
| , , | | | Red Data Book |
| | | | of Azerbaijan. |
| Taxus baccata L. | English yew (giləli qaracöhrə) | _ | Included in the |

| | 1 | 1 | Red Data Book |
|-------------------------------------|------------------------------|-----------------------|----------------------------------|
| | | | of Azerbaijan. |
| Daphne transcaucasica Pobed. | Transcaucasian daphne | _ | Included in the |
| Dupline transcaucustea 1 obea. | (zaqafqaziya canavargiləsi). | | Red Data Book |
| | (2aqa)qaziya canarargnosi). | | of Azerbaijan. |
| Stelleropsis magakjanii (Sosn.) | Maqakyan cincilimcəsi | _ | Included in the |
| Pobed (1940) | | | Red Data Book |
| 1 0 2 0 2 1 3 1 3) | | | of Azerbaijan. |
| Trapa hyrcana Woronow(1917) | Hirkan sufındığı | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Zelkova carpinifolia (Pall.) C.Koch | Vələsyapaq azat | LR/nt | Included in the |
| (1892) | | ver 2.3 (1994) | Red Data Book |
| , | | , , | of Azerbaijan. |
| Valeriana alliarifolia Adams (1805) | Sarımsaqyarpaq pişikotu | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Vitis sylvestris C.C.Gmel. (1905) | Meşə üzümü | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Woodsia alpina R. Br. (1823) | Alpine woodsia, Northern | - | Included in the |
| | woodsia, Woodsie alpine (Alp | | Red Data Book |
| | vudyası) | | of Azerbaijan. |
| Lactuca takhtadzhjanii Sosn. (1941) | Taxtacan südləməsi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Salsola tamamsahjanae Iljin (1936) | Tamamşyan şorangəsi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Zeravschania pauciradiata | Azşüalı dağçətiri | - | Included in the |
| (Tamamsch.) M. Pimen. | | | Red Data Book |
| (Peuecedanum paucirodiatum Tam. | | | of Azerbaijan. |
| (1936)) | | | |
| ANIMALS | | | |
| Phylum: Annelida | | | |
| Class: Hirudinoidea | | | |
| Order: Arhynchobdellae | | | |
| Family: Hirudinidae | | | |
| Hirudo medicinalis Linnaeus, 1758 | Tibbi zəli (Medicinal leech) | LR/nt | - |
| | | ver 2.3 (1994) | |
| Phylum: Molluska | | | |
| Class: Gastropoda | | | |
| Order: Stylommatophora | | | |
| Family: Vertiginidae | | | |
| Vertigo angustior Jeffreys, 1830 | Narrow-mouthed Whorl Snail | LR/cd | - |
| | | ver 2.3 (1994) | |
| Vertigo moulinsiana Dupuy, 1849 | Des Moulin's Snail | LR/cd | - |
| DI. 1 4 (1 1 | | <u>ver 2.3 (1994)</u> | |
| Phylum Arthropoda | | | |
| Class Insecta | | | |
| Order Hymenoptera | | | |
| Family Apoidae | | | |
| Bombus (Mg.) portchinsky | Portchinskii's Bumblebee | - | Included in the |
| Radoszkowski, 1883 | (Porçinski zolaqlı arısı) | | Red Data Book |
| | | | of Azerbaijan. |
| Bombus (Th.) mlokosievitzii | Mlokosievitz's Bumblebee | - | Included in the Red Data Book |
| Radoszkowski, 1877 | (Mlokoseviç zolaqlı arısı) | | |

| | | | of Azerbaijan. |
|--|--|----------------------------|---------------------------------|
| Bombus (Ev.) persicus | Persian Bumblebee (Fars zolaqlı | d- | Included in the |
| Radoszkowski, 1883 | arısı) | | Red Data Book |
| | | | of Azerbaijan. |
| Order: Odonata | | | |
| Family: Cordulegastridae Cordulegaster mzymtae Bartenev, | - | VU B1+2c | _ |
| 1929 | | ver 2.3 (1994) | |
| Family: Gomphidae | | | |
| Onychogomphus assimilis (Schneider, 1845) | - | VU B1+2c ver 2.3 (1994) | - |
| Order Coleoptera | 10 (1) | | |
| Family Cerambycidae (Longhor | | X77. A.d. | |
| Rosalia alpina Linné, 1758 | Rosalia longicorn (Alp | VU A1c | Included in the |
| | rozaliyası) | ver 2.3 (1994) | Red Data Book of Azerbaijan. |
| Mallosia scovitzi Fald., 1837 | Scovitz's longhorned beetle | _ | Included in the |
| | (Skovitz s ionghorned beene (Skovitz uzunbiği) | - | Red Data Book |
| | (Skoviiz uzunoigi) | | of Azerbaijan. |
| Purpuricenus talyschensis Reitt., | Purple talysh longhorned | | Included in the |
| 1891 | beetle (<i>Tündqırmızı talış</i> | - | Red Data Book |
| 1091 | uzunbığı) | | of Azerbaijan. |
| Danagdian talmahana Cara 1992 | Talysh root-eating longhorned | | Included in the |
| Dorcadion talyschense Gang., 1883 | 3 | - | |
| | beetle (<i>Talış kökyeyəni</i>) | | Red Data Book |
| D 1 ' M 1000 | C : 1 (V | | of Azerbaijan. |
| Parandra caspia Men., 1832 | Caspian parandra (Xəzər | - | Included in the |
| | parandrası) | | Red Data Book |
| Family Carabidae (Ground Bee | Has) | | of Azerbaijan. |
| Carabus clypeatus talyschensis | | | Included in the |
| Men., 1832 | Talysh three-bladed runner | - | Red Data Book |
| Wert., 1652 | (Üçpərli talış qaçağanı) | | |
| Carabus scabrosus caucasicus | Consider and other and its ton | | of Azerbaijan. Included in the |
| Adams, 1817 | Caucasian splashing snaileater | - | Red Data Book |
| Adams, 1817 | (Qafqaz ilbizyeyən fışqırdanı) | | |
| C.1 1 1 1750 | D 11 11 10 | | of Azerbaijan. |
| Calosoma sycophanta L., 1758 | Pretty ground beetle (<i>Qəşəng</i> | - | Included in the |
| | böcək) | | Red Data Book |
|) | F 1 4 /F | | of Azerbaijan. |
| Megacephalus euphraticus Latr., | Euphrates runner (Fərət | - | Included in the |
| 1885 | çapağanı) | | Red Data Book |
| F | 1> | | of Azerbaijan. |
| Family Buprestidae (Jewel Beet | | | T 1 1 1 1 1 |
| Ancylocheria salomoni Thomson, | Solomon's jewel beetle | - | Included in the |
| 1878 | (Solomon qızıl böcəyi) | | Red Data Book |
| 0.10 | | | of Azerbaijan. |
| Order: Orthoptera Family: Tettigonidae | | | |
| Saga pedo (Pallas, 1771) | Predatory bush cricket | VU B1+2bd | - |
| | | ver 2.3 (1994) | |
| Order <i>Lepidoptera</i> – Butterflies an Family <i>Papillonidae</i> | nd moths | | |
| Parnassius apollo L., 1758 | Apollo butterfly (<i>Apollon</i>) | VU A1cde | Included in the |
| 1 | Trono catterny (Tryonon) | ver 2.3 (1994) | Red Data Book |
| | | vei 4.0 (1994) | of Azerbaijan. |
| Damaccine nordmanni Man 1040 | Nordman apollonu | | Included in the |
| Parnassius nordmanni Men., 1849 | тогатин иронони | - | Red Data Book |
| | | | |
| Zamuathara anvinci anva-: T - 1 | Oafaaz zavintinasi | | of Azerbaijan. |
| Zerynthya cericyi caucasica Led., | Qafqaz zerintiyası | - | Included in the |

| 1850 | | | Red Data Book |
|---|----------------------------|---|----------------------------------|
| | | | of Azerbaijan. |
| Papilio alexanor orientalis Rom., | Şərqi aleksanor yelkəncili | - | Included in the |
| 1884 | | | Red Data Book |
| | | | of Azerbaijan. |
| Anthocharis gruneri Chr., 1870 | Şəfəqsaçan | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Zegris menestho Men., 1832 | Eyfema | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Colias thisoa Men., 1832 | Alp sarıcası | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Colias caucasica Strgr., 1871 | Qafqaz sarıcası | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Colias aurorina HS., 1850 | Avrorina sarıcası | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Colias chlorocoma Chr., 1888 | Kürd sarıcası | _ | Included in the |
| Come one occur City 1000 | | | Red Data Book |
| | | | of Azerbaijan. |
| Danais chrysippus L., 1758 | <i>Xrizi</i> p | _ | Included in the |
| Buillio Citi golppuo E., 1700 | 1111211 | | Red Data Book |
| | | | of Azerbaijan. |
| Pararge adrastoides Bien., 1870 | Talış məxməri kəpənəyi | _ | Included in the |
| 1 arange aurasionaes Biett., 1070 | Tung mostmort reopency: | | Red Data Book |
| | | | of Azerbaijan. |
| Melanargia hylata Men., 1882 | Hilata | _ | Included in the |
| ivieumurgiu mytutu ivient., 1662 | Huuu | _ | Red Data Book |
| | | | of Azerbaijan. |
| Satyrus alpina Stgr., 1879 | Alp satiri | _ | Included in the |
| Surgrus uipinu Sigi., 1079 | Tip Suint | _ | Red Data Book |
| | | | of Azerbaijan. |
| Thaleropis jonia Fisch., 1851 | İoniya bərqvuranı | _ | Included in the |
| 11iuie10pis joniu 14sch., 1051 | 10mya oərqvaranı | _ | Red Data Book |
| | | | of Azerbaijan. |
| Argynnis alexandra Men., 1832 | Aleksandra sədəflisi | | Included in the |
| Argynnis mexunuru Men., 1632 | Ateksanara səaəjiisi | _ | Red Data Book |
| | | | of Azerbaijan. |
| II11.:II C 1051 | Oxim qızılı kəpənəyi | | |
| Heodes ochimus HS., 1851 | Oxim qiziti kəpənəyi | _ | Included in the Red Data Book |
| | | | |
| T : Cl 1000 | Domaron tomaroni | | of Azerbaijan. |
| Tomares romanovi Ch., 1882 | Romanov tomaresi | - | Included in the |
| | | | Red Data Book |
|) (1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 | 11 TO 17 1 1 1 1 1 1 C | | of Azerbaijan. |
| Manduca atropos L., 1758 | "Kəllə şəkilli" haf | - | Included in the |
| | | | Red Data Book |
| D 1 | | | of Azerbaijan. |
| Daphnis nerii L., 1758 | Oleandr hafi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Rethera komarovi Chr., 1885 | Komarov hafi | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Hippotion celerio L., 1758 | İri tənək hafı | - | Included in the |
| ., | | | Red Data Book |

| | | | of Azerbaijan. |
|--|---|--|---|
| Rughmana christophi Ctuz 100E | Talış brameyası | | Included in the |
| Brahmaea christophi Strg., 1885 | Tauş orameyası | - | Red Data Book |
| | | | |
| | T. A | | of Azerbaijan. |
| Axiopoena maura Eichw., 1832 | Tutqun ayıca | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Zygaena Tamara Chr., 1889 | Tamara alacası | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Family: Lycaenidae | | | |
| Lycaena dispar (Haworth, 1802) | Large Copper | LR/nt ver 2.3 (1994) | - |
| Maculinea arion (Linnaeus, 1758) | Large Blue | LR/nt ver 2.3 (1994) | - |
| Maculinea nausithous | Dusky Large Blue | LR/nt | - |
| (Bergstrasser, 1779) | , 3 | ver 2.3 (1994) | |
| Order: Sphingidae | | | |
| Hyles hippophaes | - | DD | - |
| (Esper, 1793) | | ver 2.3 (1994) | |
| Proserpinus proserpina (Pallas, | Willowherb Hawkmoth | DD | - |
| 1772) | | ver 2.3 (1994) | |
| Phylum Chordata | | | |
| Pisces - fish | | | |
| | | | |
| Class Cephalaspidomorphi | | | |
| Order Petromyzontiformes | | | |
| Family Petromyzontidae | | | |
| Caspiomyzon wagneri Kessler, 1870 | Caspian Lamprey (İlanbalığı) | - | Included in the |
| | | | Red Data Book |
| | | | Rea Data Dook |
| | | | of Azerbaijan. |
| Class Actinonterugii - rav-1 | inned fishes | | |
| Class Actinopterygii - ray-f | finned fishes | | |
| Order Acipenseriformes | | | |
| Order <i>Acipenseriformes</i> Family <i>Acipenseridae</i> - Sturgeon | 15 | FN A2d | |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, | | EN A2d ver 2 3 (1994) | |
| Order <i>Acipenseriformes</i> Family <i>Acipenseridae</i> - Sturgeon | 15 | ver 2.3 (1994), | |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, | 15 | ver 2.3 (1994), CITES | |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, 1833 | Russian Sturgeon (<i>Rus nərəsi</i>) | ver 2.3 (1994), CITES (appendix II) | of Azerbaijan. |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, | Russian Sturgeon (<i>Rus nərəsi</i>) Fringebarbel sturgeon (<i>Kələmo</i> , | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d | of Azerbaijan. |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, 1833 | Russian Sturgeon (<i>Rus nərəsi</i>) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, 1833 | Russian Sturgeon (<i>Rus nərəsi</i>) Fringebarbel sturgeon (<i>Kələmo</i> , | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES | of Azerbaijan. |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris | Russian Sturgeon (<i>Rus nərəsi</i>) Fringebarbel sturgeon (<i>Kələmo</i> , <i>Qayabalığı</i>) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, 1833 | Russian Sturgeon (<i>Rus nərəsi</i>) Fringebarbel sturgeon (<i>Kələmo</i> , | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris | Russian Sturgeon (<i>Rus nərəsi</i>) Fringebarbel sturgeon (<i>Kələmo</i> , <i>Qayabalığı</i>) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris | Russian Sturgeon (<i>Rus nərəsi</i>) Fringebarbel sturgeon (<i>Kələmo</i> , <i>Qayabalığı</i>) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris | Russian Sturgeon (<i>Rus nərəsi</i>) Fringebarbel sturgeon (<i>Kələmo</i> , <i>Qayabalığı</i>) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris | Russian Sturgeon (<i>Rus nərəsi</i>) Fringebarbel sturgeon (<i>Kələmo</i> , <i>Qayabalığı</i>) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d EN A2d | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 Acipenser stellatus Pallas, 1771 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon Starry sturgeon (Uzunburun) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeon Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 Acipenser stellatus Pallas, 1771 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon Starry sturgeon (Uzunburun) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 Acipenser stellatus Pallas, 1771 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon Starry sturgeon (Uzunburun) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 Acipenser stellatus Pallas, 1771 Acipenser ruthenus Linnaeus, 1758 | Russian Sturgeon ($Rus n \partial r \partial si$) Fringebarbel sturgeon ($K \partial l \partial mo$, $Q a y a b a h \check{g} i$) Persian sturgeon Starry sturgeon ($U z u n b u r u n$) Sterlet ($\ddot{V} \ddot{o} k \partial$) | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 Acipenser stellatus Pallas, 1771 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon Starry sturgeon (Uzunburun) Sterlet (Çökə) Beluga, European Sturgeon, | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) EN A2d | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 Acipenser stellatus Pallas, 1771 Acipenser ruthenus Linnaeus, 1758 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon Starry sturgeon (Uzunburun) Sterlet (Çökə) Beluga, European Sturgeon, Giant Sturgeon, Great Sturgeon | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 Acipenser stellatus Pallas, 1771 Acipenser ruthenus Linnaeus, 1758 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon Starry sturgeon (Uzunburun) Sterlet (Çökə) Beluga, European Sturgeon, | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES | of Azerbaijan. - Included in the Red Data Book |
| Order Acipenseriformes Family Acipenseridae - Sturgeor Acipenser gueldenstaedtii Brandt, 1833 Acipenser nudivetntris Acipenser persicus Borodin, 1897 Acipenser stellatus Pallas, 1771 Acipenser ruthenus Linnaeus, 1758 | Russian Sturgeon (Rus nərəsi) Fringebarbel sturgeon (Kələmo, Qayabalığı) Persian sturgeon Starry sturgeon (Uzunburun) Sterlet (Çökə) Beluga, European Sturgeon, Giant Sturgeon, Great Sturgeon | ver 2.3 (1994), CITES (appendix II) EN A1acde+2d ver 2.3 (1994) CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) VU A1c+2d ver 2.3 (1994), CITES (appendix II) EN A2d ver 2.3 (1994), CITES | of Azerbaijan. - Included in the Red Data Book |

| Salmo trutta fario Linnaeus, 1758 | Brown trout (Qızılxallı) | - | Included in the Red Data Book of Azerbaijan. |
|--|---|---|---|
| Order <i>Clupeiformes</i> Family <i>Clupeidae</i> (Herrings, sha | المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد | | |
| Clupeonella cultriventris Nordmann, 1840 | Black Sea sprat (adi kilkə) | DD ver 2.3 (1994), Not included in the Red book of Azerbaijan | - |
| A. pontica (A. pontica kessleri, A. p. volgensis) | Volqa siyənəyi və Qrabel siyənək (Pontic shad) | DD ver 2.3 (1994) | - |
| Order Cypriniformes | | · · · · · · · · · · · · · · · · · · · | |
| Family Cyprinidae (Minnows an | | | |
| Abramis sapa Pallas, 1814 | White-eye bream (<i>Poru</i>) | - | Included in the Red Data Book of Azerbaijan. |
| Pelecus cultratus Linnaeus, 1758 | Ziege (Qılıncbalıq) | DD ver 2.3 (1994) | Included in the Red Data Book of Azerbaijan. |
| Rutilus frisii (Nordmann, 1840) | Kütüm, ziyad (Black Sea Roach) | DD ver 2.3 (1994) | - |
| Fəsilə: <i>Cobitidae</i> Sabanejewia aurata (De Filippi, 1863) | Qızılı ilişkən (Goldside Loach) | DD ver 2.3 (1994) | - |
| Order Perciformes Family Percidae (Perches) | | | |
| Lucioperca marine Cuvier, 1928 | Marine Zander (Dəniz sıfi) | - | Included in the Red Data Book of Azerbaijan. |
| Class <i>Amphibia -</i> Amphibi Order <i>Caudata</i> Family <i>Salamandridae -</i> Salama | | | |
| Triturus vulgaris Linneus.,1758 (In Azerbaijan Triturus vulgaris lantzi threatened) | Smooth Newt (Adi triton) | - | Included in the Red Data Book of Azerbaijan. |
| Triturus cristatus Laur., 1786 (In | Great Crested Newt (<i>Daraqlı</i> triton) | LR/cd ver 2.3 (1994) | Included in the Red Data Book |
| | , | , | |
| karelini threatened) Order Anura | , | | of Azerbaijan. |
| karelini threatened) Order Anura Family Pelobatidae | Eastern Spadefoot (Suriya sarımsaqiyli qurbağası) | - | of Azerbaijan. Included in the Red Data Book |
| karelini threatened) Order Anura Family Pelobatidae Pelobates syriacus Boettger., 1889 | Eastern Spadefoot (Suriya | ` ' | of Azerbaijan. Included in the |
| karelini threatened) Order Anura Family Pelobatidae Pelobates syriacus Boettger., 1889 Family Hylidae | Eastern Spadefoot (Suriya | ` ' | of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the |
| Azerbaijan Triturus cristatus karelini threatened) Order Anura Family Pelobatidae Pelobates syriacus Boettger., 1889 Family Hylidae Hyla arborea | Eastern Spadefoot (Suriya sarımsaqiyli qurbağası) Common Tree Frog (Adi ağac | LR/nt ver 2.3 (1994) Not in Azerbaijan Red | of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book |

| Bufo verucosissma (Pallas,1813) | Qafqaz quru qurbağası (Caucasian Toad) | - | Included in the Red Data Book of Azerbaijan. |
|--|---|--|--|
| Class Reptilia - Reptiles Order Testudines Family Testudinidae | | | oi Azerbaijan. |
| Testudo graeca Linnaeus, 1758 | Common Tortoise, Greek Tortoise, Moorish Tortoise, Spur-thigned Tortoise (<i>Aralıq</i> <i>Dənizi Tısbağası</i>) | VU A1cd ver 2.3 (1994) | Included in the Red Data Book of Azerbaijan. |
| Order Squamata Suborder Sauria (Lacertidae)- Li Family Agamidae - Agamas | zards | | |
| Trapelus ruderatus Rastegar- Pouyani, 2000 | Horn-scaled Agama (<i>Xarabalıq</i> kələzi) | - | Included in the Red Data Book of Azerbaijan. |
| Phrynocephalus helioscopus Engelmann et al, 1993 | Sunwatcher Toadhead Agama (Girdabaş yovşanlıq kərtəngələsi) | - | Included in the Red Data Book of Azerbaijan. |
| Family Scincidae - Skinks | | | , |
| Mabuya aurata Greer & Nussbaum, 2000 | Golden Grass Mabuya (<i>Qızılı</i> mabuya) | - | Included in the Red Data Book of Azerbaijan. |
| Ablepharus bivittatus Engelmann et al, 1993 | Twin-striped Skink (Zolaqlı çılpaqgöz kərtəngələ) | - | Included in the Red Data Book of Azerbaijan. |
| Suborder Ophidia (Serpentes) - S | Snakes | | |
| Family Colubridae - Colubrids Coluber longissimus Laurenti, 1768 | Aesculapean Snake (Eskulap ilanı) | - | Included in the Red Data Book of Azerbaijan. |
| Elaphe situla (Linnaeus, 1758) | Leopard snake | DD ver 2.3 (1994) | - |
| Rhynchocalamus melanocephalus Engelmann et al, 1993 | Palestine Kukri Snake (<i>Qarabaş</i> rinxokalamus) | - | Included in the Red Data Book of Azerbaijan. |
| Natrix megalocephala Engelmann et al, 1993 | Bighead-European Grass Snake, Large-headed Water Snake | VU A1d, C1 ver 2.3 (1994) | - |
| Vipera raddei raddei Boettger, 1890 | Caucasus Viper (Kiçik asiya gürzəsi) | - | Included in the Red Data Book of Azerbaijan. |
| Vipera dinniki McDiarmid, Campbell & Toure | Dinnik's Viper | VU C1+2a ver 2.3 (1994) Not included in Azerbaijan red data book | - |
| Class Aves - Birds Order Pelecaniformes Family Pelecanidae - Pelicans | | | |
| Pelecanus onocrotalus Linn.1758 | White pelican (Çəhrayı qutan) | - | Included in the Red Data Book of Azerbaijan. |
| Pelecanus crispus Bruch, 1832 | Dalmatian pelican (<i>Qıvrımlələk</i> qutan) | LR/cd ver 2.3 (1994) | Included in the Red Data Book |

| Phalacrocorax pygmaeus Pall.,1773 | Pygmy cormorant (Kiçik | LR/nt | _ |
|---|---------------------------------------|-------------------------|----------------------------------|
| Transcrocorus pyzmacus I aii.,1775 | qarabatdaq) | ver 2.3 (1994) | |
| | qurusucuiq) | Not included in | |
| | | red data book | |
| Order Ciconiiformes Family Threskiornithidae | | | |
| Platalea leucorodia Linn.,1758 | Spoonbill (<i>Ərsindimdik</i>) | - | Included in the |
| , | | | Red Data Book |
| | | | of Azerbaijan. |
| Family Ciconidae | • | | |
| Ciconia nigra Linn.,1758 | Black stork (Qara leylək) | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Order Ciconiformes Family Phoenicopteridae | | | |
| Phoenicopterus ruber Pall., | Greater flamingo (Qızılqaz) | - | Included in the |
| Linn.,1758 | | | Red Data Book |
| | | | of Azerbaijan. |
| Order Anseriformes Family Anatidae | | | |
| Branta ruficollis Pallas., 1769 | Brent goose (<i>Qırmızıdöş qaz</i>) | VU B1+2c | Included in the |
| | , | ver 2.3 (1994) | Red Data Book |
| | | , , , | of Azerbaijan. |
| Anser erythropus Linnaeus, 1758 | Lesser white-fronted goose | VU A1acd+2bcd | - |
| | (Ağqaş qaz) | ver 2.3 (1994) | |
| | | Not included in | |
| | | red data book | |
| Cygnus olor Gm., 1789 | Mute swan (Fisildayan qu) | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Cygnus columbianus bewickii | Bewick's swan (<i>Kiçik qu</i>) | - | Included in the |
| Varrell, 1830 | | | Red Data Book |
| M |) | 7711 A 1 1 1 0 1 | of Azerbaijan. |
| Marmaronetta angustirostris | Marbled teal (Mərmər cürə) | VU A1cd+2cd, | Included in the |
| Menetr.,1832 | | C1 | Red Data Book |
| Author manage Cold 1770 | Formulain and Analy (4 × a = - | ver 2.3 (1994) | of Azerbaijan. |
| Aythya nyroca Guld., 1770 | Ferruginous duck (<i>Ağgöz</i> | LR/nt ver 2.3 (1994) | - |
| | dalğıc) | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Oxyura leucocephala Scop., 1769 | White-headed duck | EN A1acde | _ |
| Sagara teneocepium Scop., 1709 | (Göydimdik) | ver 2.3 (1994) | |
| | (Soyumum) | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Order Falconiformes | | | |
| Family Accipitridae | Oaman (Can a man) | | Implementation of the character |
| Pandion haliaetus Linn.,1758 | Osprey (Çay qaraquşu) | - | Included in the Red Data Book |
| | | | of Azerbaijan. |
| Haliaeetus albicilla Linn.,1758 | White-tailed (sea) eagle | LR/nt | Included in the |
| 11инисения инненни БПШ.,1/30 | (Ağquyruq dəniz qartalı) | ver 2.3 (1994) | Red Data Book |
| | (Agquyruq uəm2 qurtun) | vei 4.3 (1994) | of Azerbaijan. |
| Accipiter gentilis Linn., 1758 | Goshawk (Tetraçalan) | | Included in the |
| Trecipitet gentino Liiut., 1730 | Gostiawk (Terraçaian) | _ | Red Data Book |
| | | | of Azerbaijan. |
| | | | oi Azervaijan. |

| Accipiter badius Gmelin, 1788 | Shikra (Türküstan tüvüyü) | - | Included in the Red Data Book |
|--|---|--|---|
| | | | |
| Aquila vinglancia Tomana 1929 | Charge and (Cil agetal) | | of Azerbaijan. Included in the |
| Aquila nipalensis Temm.,1828 | Steppe eagle (<i>Çöl qartalı</i>) | - | Red Data Book |
| | | | of Azerbaijan. |
| Aquila clanga Pall.,1811 | Greater spotted eagle (<i>Kiçik</i> | VU C1 | of Azerbaijan. |
| Aquitu ciungu 1 an.,1811 | qartalça) | ver 2.3 (1994) | _ |
| | qurtuiça) | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Aquila heliaca Savigny, 1809 | Imperial eagle (Məzar qartalı) | VU C1 | Included in the |
| Tiquim neimen surigity, 1009 | imperiar eagle (mezar quirtum) | ver 2.3 (1994) | Red Data Book |
| | | (1) | of Azerbaijan. |
| Aquila chrysaetus Linn.,1758 | Golden eagle (Bərqud) | - | Included in the |
| | (= 0.4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4, | | Red Data Book |
| | | | of Azerbaijan. |
| <i>Gypaetus barbatus</i> Linn.,1758 | Lammergeier or Bearded | - | Included in the |
| , | vulture (<i>Toğlugötürən</i>) | | Red Data Book |
| | (3 3 , | | of Azerbaijan. |
| Aegypius monachus Linn., 1758 | Black vulture (Qara kərkəs) | LR/nt | - |
| | , | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Circaetus gallicus Gmelin,1788 | Short-toed eagle (İlanyeyən) | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Circus macrourus Gm., 1771 | Pallid harrier (Çöl belibağlısı) | LR/nt | - |
| | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Family Falconidae | | | |
| | 0.1 (1 (77.7.8) | | T 1 1 1 1 1 1 |
| Falco cherrug Gray., 1834 | Saker falcon (<i>Ütəlgi</i>) | - | Included in the |
| | Saker falcon (Ütəlgi) | - | Red Data Book |
| Falco cherrug Gray., 1834 | , 2, | - | Red Data Book of Azerbaijan. |
| | Saker falcon (<i>Ütəlgi</i>) Peregrine (<i>Şahin</i> , <i>laçın</i>) | - | Red Data Book of Azerbaijan. Included in the |
| Falco cherrug Gray., 1834 | , 2, | - | Red Data Book of Azerbaijan. Included in the Red Data Book |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 | Peregrine (Şahin, laçın) | - VII A1boo±2boo | Red Data Book of Azerbaijan. Included in the |
| Falco cherrug Gray., 1834 | , 2, | - VU A1bce+2bce | Red Data Book of Azerbaijan. Included in the Red Data Book |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 | Peregrine (Şahin, laçın) | ver 2.3 (1994) | Red Data Book of Azerbaijan. Included in the Red Data Book |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 | Peregrine (Şahin, laçın) | ver 2.3 (1994) Not included in | Red Data Book of Azerbaijan. Included in the Red Data Book |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 | Peregrine (Şahin, laçın) | ver 2.3 (1994) Not included in Azerbaijan red | Red Data Book of Azerbaijan. Included in the Red Data Book |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 | Peregrine (Şahin, laçın) | ver 2.3 (1994) Not included in | Red Data Book of Azerbaijan. Included in the Red Data Book |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes Family Tetraonidae | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) Caucasian black grouse | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan Included in the |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes Family Tetraonidae | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. - Included in the Red Data Book of Azerbaijan. |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes Family Tetraonidae Tetrao mlokosiewiczi Taczan., 1875 | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) Caucasian black grouse (Qafqaz tetrası) | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. - Included in the Red Data Book of Azerbaijan. |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes Family Tetraonidae | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) Caucasian black grouse | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. - Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes Family Tetraonidae Tetrao mlokosiewiczi Taczan., 1875 | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) Caucasian black grouse (Qafqaz tetrası) | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. - Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes Family Tetraonidae Tetrao mlokosiewiczi Taczan., 1875 Tetraogallus caspicus Gm.,1784 | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) Caucasian black grouse (Qafqaz tetrası) Caspian snowcock (Xəzər uları) | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes Family Tetraonidae Tetrao mlokosiewiczi Taczan., 1875 | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) Caucasian black grouse (Qafqaz tetrası) Caspian snowcock (Xəzər uları) Caucasian snowcock (Qafqaz | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the |
| Falco cherrug Gray., 1834 Falco peregrinus Tunstall, 1771 Falco naumanni Fleischer, 1818 Order Galliformes Family Tetraonidae Tetrao mlokosiewiczi Taczan., 1875 Tetraogallus caspicus Gm.,1784 | Peregrine (Şahin, laçın) Lesser kestrel (Çöl muymulu) Caucasian black grouse (Qafqaz tetrası) Caspian snowcock (Xəzər uları) | ver 2.3 (1994) Not included in Azerbaijan red data book | Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. Included in the Red Data Book of Azerbaijan. |

| Francolinus francolinus Linn.,1758 | Black francolin, black partridge | - | Included in the |
|---|---|-----------------|-----------------|
| | (Turac) | | Red Data Book |
| D1 ' 11' (1' 1 ' | Pl +/O I +/ | | of Azerbaijan. |
| Phasianus colchicus talischensis | Pheasant (<i>Qırqovulun talış</i> | - | Included in the |
| Lor.,1888 | yarımnövü) | | Red Data Book |
| 0.1.6.76 | | | of Azerbaijan. |
| Order Gruiformes Family Gruidae | | | |
| Grus leucogeranus Pall., 1773 | Siberian crane (Ağ durna) | CR A2cde | - |
| | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Crex crex Linn.,1758 | Corn crake (Civdimdik) | VU A2c | - |
| | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| F '1 D 11'1 | | data book | |
| Family Rallidae | Dumle cellined (C. L | <u> </u> | Included in the |
| Porphyrio porphyrio Linn.,1758 | Purple gallinule (Sultan toyuğu) | - | Red Data Book |
| | | | |
| Family Otididae | | | of Azerbaijan. |
| Otis tarda Linn.,1758 | Great bustard (Dovdaq) | VU A2c | Included in the |
| Ous turau Emm.,1738 | Great bustard (Dovady) | ver 2.3 (1994) | Red Data Book |
| | | Ver 2.3 (1994) | of Azerbaijan. |
| Otis tetrax Linn.,1758 | Little bustard (Bəzgəg) | LR/nt | Included in the |
| Ous tetrux Liiit.,1736 | Little bustaru (Bə2gəg) | ver 2.3 (1994) | Red Data Book |
| | | Ver 2.3 (1994) | of Azerbaijan. |
| Chlamydotis undulata Jacuin, 1784 | Houbara bustard (Gəşəng | LR/nt | Included in the |
| | dovdaq, Cek) | ver 2.3 (1994) | Red Data Book |
| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | of Azerbaijan. |
| Order Charadriformes Family Charadriidae | | | , |
| Vanellus gregarius Pall., 1771 | Sociable plover (<i>Çökükburun</i> | VU A1ac+2bc, | _ |
| vanetius gregariae i aii., 1771 | cüllüt) | C1 | |
| | Cuitary | ver 2.3 (1994) | |
| Vanellus (= Chettusia) leucura | White-tailed lapwing | - | Included in the |
| Licht., 1823 | (Ağquyruq çökükburun) | | Red Data Book |
| , | , | | of Azerbaijan. |
| Family Scolopaciadae | | | , |
| Numenius tenuirostris Vieillot, | Slender-billed curlew (Kiçik | CR C2b, D | - |
| 1718 | kronşnep) | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Gallinago media Latham, 1787 | Great snipe (<i>Təmbəl bekas</i>) | LR/nt | - |
| | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| F :1 C1 1: 1 | | data book | |
| Family Glareolidae | Distriction of the Control | DD | To al., de 11 d |
| Glareola nordmanni Nordm., 1842 | Black-winged pratincole (<i>Çöl</i> | DD | Included in the |
| | haçaquyruq cüllütü) | ver 2.3 (1994) | Red Data Book |
| Oudou Colombif- | | | of Azerbaijan. |
| Order Columbiformes | | | |

| Pterocles orientalis Linn., 1758 | Black-belled Sandgrouse (Qaraqarın bağrıqara) | - | Included in the Red Data Book of Azerbaijan. |
|--|---|--|--|
| Order Passeriformes Family Turdidae | | | , |
| Irania gutturals Guerin, 1843 | White-throated Robin (Ağboğaz bülbül) | - | Included in the Red Data Book of Azerbaijan. |
| Family Parinae | | | |
| Parus hyrcanus Loscot, 1977 | Hircan tit (Hirkan arıquşu) | - | Included in the Red Data Book of Azerbaijan. |
| Rhodopechys githaginea (= Bucanetes githagineus) Licht., 1823 | Trumpeter finch (Səhra qarquşu) | - | Included in the Red Data Book of Azerbaijan. |
| Class Mammalia - Mamma Order Chiroptera - Bats | als | | , |
| Rhinolophus euryale Blasius, 1835 | Mediterranean horseshoe bat (cənub nalburunu) | VU A2c ver 2.3 (1994) | Included in the Red Data Book of Azerbaijan. |
| Rhinolophus mehelyi Matschie, 1901 | Mehely's horseshoe bat (<i>Meheli</i> nalburunu) | VU A2c ver 2.3 (1994) Not included in Azerbaijan red data book | - |
| Rhinolophus blasii Peters, 1866 | Blasius's horseshoe bat | LR/nt ver 2.3 (1994) Not included in Azerbaijan red data book | - |
| Rhinolophus ferrumequinum Schreber, 1774 | Greater horseshoe bat | LR/nt ver 2.3 (1994) Not included in Azerbaijan red data book | - |
| Rhinolophus hipposideros Bechstein, 1800 | Lesser horseshoe bat | VU A2c ver 2.3 (1994) Not included in Azerbaijan red data book | - |
| Miniopterus schreibersi Kuhl, 1817 | Common bentwing bat, Schreiber's long fingered bat | LR/nt ver 2.3 (1994) | Included in the Red Data Book of Azerbaijan. |
| Nyctalus lasiopterus Schreber, 1780 | Giant noctule | LR/nt ver 2.3 (1994) Not included in Azerbaijan red data book | - |
| Nyctalus leisleri Kuhl, 1817 | Lesser noctule | LR/nt ver 2.3 (1994) Not included in Azerbaijan red data book | - |
| Tadarida teniotis Rafinesque, 1814 | European fretailed bat (Böyükdodaq enliyarpaq) | - | Included in the Red Data Book of Azerbaijan. |

| Barbastella barbastellus Schreber, | Western barbastelle | VU A2c | |
|---|--------------------------------------|-----------------------------------|-----------------|
| , | western barbastelle | | - |
| 1774 | | ver 2.3 (1994) Not included in | |
| | | | |
| | | Azerbaijan red | |
| | | data book | |
| Myotus bechsteini Kuhl, 1817 | Bechstein's bat (Berşteyn | VU A2c | - |
| | şəbpərəsi) | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Myotus emarginatus É. Geoffroy, | Geoffroy's bat (Üçrəng şəbpərə) | VU A2c | - |
| 1806teniotis | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Order Carnivora | | | |
| Suborder Feliformia | | | |
| Family Felidae - Cats | | | |
| Panthera tigris virgata Illiger, | Tiger, turan tiger (<i>Pələng</i>) | EN C2a(i) | Included in the |
| 1815 ⁶⁷ | | ver 3.1 (2001) | Red Data Book |
| 1013° | | VCI 3.1 (2001) | of Azerbaijan. |
| Lumbur Linnague 1750 | Essencian Issues (Magage) | LT | Included in the |
| Lynx lynx Linnaeus, 1758 | Eurasian lynx (<i>Vaşaq</i>) | | |
| | | ver 3.1 (2001) | Red Data Book |
| D 4 1 1 1 4550 | T 1/D 1: / // // / | | of Azerbaijan. |
| Panthera pardus Linnaeus, 1758 | Leopard (Bəbip (xallı pələng) | | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Felis silvestris Schreber, 1775 ⁶⁸ | Wild cat (<i>çöl pişiyi</i>) | - | Included in the |
| | | | Red Data Book |
| | | | of Azerbaijan. |
| Otocolobus manul Pallas, 1776 | Pallas' cat (<i>Manul pişiyi</i>) | NT | Included in the |
| | | ver 3.1 (2001) | Red Data Book |
| | | , , | of Azerbaijan. |
| Sub-order Pinnepedia | | | |
| Family Phocidae | | | |
| Phoca caspica Gmelin, 1788 | Caspian Seal (Xəzər suiti) | VU B1+2e | - |
| · | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Family Hyaenidae - Hyaenas | | | |
| Hyaena hyaena Linnaeus, 1758 | Striped hyaena (Zolaqlı kaftar) | LR/nt | Included in the |
| | | ver 2.3 (1994) | Red Data Book |
| | | \ | of Azerbaijan. |
| Family Mustelidae - Mustelids | <u></u> | | |
| Vormela peregusna Güldenstädt, | Marbled Polecat (Safsar | - | Included in the |
| 1770 | (sarıqlı)) | | Red Data Book |
| 1//0 | (suriqu)) | | of Azerbaijan. |
| Lutra lutra L., 1758 | Common Otter (Çay samuru) | VU A2cde | - |
| Lutin tutin L., 1750 | Common Otter (Çuy sumuru) | ver 2.3 (1994) | _ |
| | | VEL 4.3 (1994) | |

⁶⁷ The last recorded Turan tiger was killed in the Talysh region (Prishib village) in 1932. Reports of tigers in the Lenkoran region persisted since 1950, however there was thought to be some confusion with observation of leopards, and the tiger was listed in the Red Book subsequent to its extinction in Azerbaijan.

⁶⁸ The steppe form of wild cat, which is distributed across Africa and Asia, is protected in Azerbaijan

| Order Rodentia - Rodents | | | |
|--------------------------------------|---------------------------------|-----------------|-----------------|
| Family Hystricidae - Scirtidae | | ID / 1 | |
| Sciurus anomalus Güldenstädt, | Caucasian Squirrel, Persian | LR/nt | - |
| 1785 | Squirrel (Zaqafqaziya sincabı) | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| F '1 D'1 1'1 | | data book | |
| Family Didodidae | N. d. D. 1.34 | ID / (| |
| Sicista betulina Pallas, 1779 | Northern Birch Mouse | LR/nt | - |
| | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| F '1 16 1 | | data book | |
| Family Myxodae | 1 | | |
| Glis glis Linnaeus, 1766 | Fat dormoise | LR/nt | - |
| | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| - 15 15 | | data book | |
| Family Muridae | | | |
| Apodemus hyrcanicus Vorontsov, | Caucasus field mouse | DD | - |
| Boyeskorov & Mezhzherin, 1992 | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Calomyscus urartensis Vorontsev | Urartsk mouse-like hamster | LR/nt | - |
| & Kartavseva, 1979 | | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Chionomys nivalis Martins, 1842 | European snow vole, snow | LR/nt | - |
| | vole | ver 2.3 (1994) | |
| | | Not included in | |
| | | Azerbaijan red | |
| | | data book | |
| Order Artiodactyla Family Bovidae | | | |
| Gazella subgutturosa Güldenstädt, | Goitred Gazelle, Sand Gazelle | NT | Included in the |
| 1780 | (Ceyran) | ver 3.1 (2001) | Red Data Book |
| | | , , | of Azerbaijan. |
| Capra cylindricornis Blyth, 1841) | Eastern Caucasian Tur (Dağıstan | VU A1d+2de, | Included in the |
| | turu, Dağ kəli) | C1 | Red Data Book |
| | , , | ver 2.3 (1994) | of Azerbaijan. |
| Capra aegagrus Erxleben, 1777 | Wild goat (Bezoar keçisi, Qaya | VU A2cde | Included in the |
| | keçisi) | ver 2.3 (1994) | Red Data Book |
| | , , | | of Azerbaijan. |
| Rupicapra rupicapra L., 1758 | Alpine chamois (Kögər | - | Included in the |
| | (Qarapaça)) | | Red Data Book |
| | (2. 2.3.7) | | of Azerbaijan. |
| Ovis orientalis Gmelin, 1774 | Mouflon (Kiçik Asiya Muflonu, | VU A2cde | Included in the |
| , | Vəhşi qoyun) | ver 2.3 (1994) | Red Data Book |
| | | | of Azerbaijan. |

Appendix 2. Land use in Azerbaijan

| Region | Human | | | | Area | (ha) | | | |
|----------------------|------------|------------|--------------------|---------------|-----------------|------------------|---------|-----------|-----------------------|
| | population | Total area | Total agricultural | Annual plants | Perenial plants | Ploughed land | Gardens | Arable | Meadow and pasture |
| | | | land | | | | | | |
| Absheron | 30,200 | 525,500 | 187,800 | 20,1000 | 3,800 | 6,000 | 5,800 | 35,700 | 152,100 |
| Guba-Khachmaz | 312,900 | 801,000 | 446,500 | 126,700 | 28,200 | 200 | 15,300 | 170,500 | 276,000 |
| Zakatala-Balakan | 401,400 | 987,700 | 462,300 | 178,200 | 41,900 | 2,300 | 18,900 | 241,200 | 221,100 |
| Shirvan | 523,600 | 1196,400 | 752,400 | 298,600 | 15,400 | 11,200 | 37,200 | 362,300 | 390,100 |
| Ganja-Gazakh | 602,700 | 1,249,400 | 792,200 | 188,100 | 4,100 | 7,200 | 42,500 | 242,000 | 550,200 |
| Gasabag-Mil | 545,800 | 886,800 | 570,500 | 262,300 | 18,200 | 4,100 | 29,800 | 314,300 | 256,200 |
| Mugan-Salyan | 484,300 | 776,800 | 579,300 | 282,200 | 400 | 5,700 | 39,500 | 327,800 | 251,500 |
| Lenkoran-Astara | 455,300 | 493,700 | 197,800 | 65,800 | 9,300 | 3,400 | 14,000 | 92,400 | 105,400 |
| Nakhichevan | 267,400 | 536,300 | 170,800 | 28,400 | 700 | 12,600 | 12,900 | 54,600 | 116,200 |
| Total | 3,623,600 | 7,453,500 | 4,159,700 | 1,450,400 | 122,000 | 52,700 | 215,700 | 1,840,900 | 2,318,800 |
| Occupied territories | 387,700 | 1,188,000 | 581,300 | 171,400 | 38,000 | 7,100 | 8,300 | 224,900 | 356,400 |
| Total | 4,011,300 | 8,641,500 | 4,741,000 | 1,621,900 | 160,000 | 59,900 | 224,000 | 2,65,700 | 2,675,200 |

Source: State Committee of Land and Cartography. Figures shown from "Azerbaijan agriculture 2001", from State Statistic Committee, p.61-70.

Appendix 3. Environmental NGO's in Azerbaijan

| English Name | Contact person | Phone/Fax | E-mail | Address |
|--|--|-------------------------------|---|---|
| Alive Nature Azerbaijan Flora and Fauna Founders Club | Aynur Surkhayeva | 69504 <i>,</i> 722771 | | Sumgayit, 23, 17th District, apt. 34 |
| Ana Kur International Ecological Society | Israil Aliyev | 567901 | | Ganja, 273, Ataturk Avenue |
| Association for Control of the Human and Animal's Protozoons | Hamida Gayibova, Mehdi Aliyev | 935773 | gamida_gaib@ho tmail.com | Baki, 27, Azerbaijan av., apt.22 |
| Azerbaijan Center for Protection of Birds | Elchin Sultanov | 927052, 3161651 | sultanov@azeuro tel.com | Baki, 370073, passage 1128, mehelle 504 |
| Azerbaijan Demographers Association (ADA) | Niyazi Mursagulov | 711909 | mursakulovnn@ aznet.org, mursakulov@hot mail.com | Baki, 63 a , M.Hadi, apt. 97 |
| Azerbaijan Ecological Union | Manaf Suleymanov | 396123 | | Baki, 28a, Inshaatchilar av., apt. 43 |
| Azerbaijan Green Movement | Farida Huseynova, Khalid Aliyev | 3299391, 958939 | Guseynovafk@a znet.org | Baki, 370001, 47/17, Istiglaliyyet str. Branches in Mingechevir and Sumgayit. |
| Azerbaijan National Committee on International Hydrologist Program | Magbet Mamedov, Farda Imanov | 474068, 390501, 673156 | farda@azerin.co m | Baki, 370148, 23 Khalilov academician str., Baki State University |
| Azerbaijan Society of Study of Local Lore | Aydin Eyvazov, Seyran Veliyev | 920882, 987903, 987903 | | Baki, 27 U.Hajibeyov str. |
| Azerbaijan Society of Zoologists | Musa Musayev, Barat Akhmedov, Tahir Kerimov | 397371, 397359, 917783 | zoology@deacs.a b.az | Baki, 370073, 1128 block, pass 504 |
| Azerbaijan Society for Protection of Animals | Azer Garayev, Gunduz Rahimov | 940304, (850) 125089 | aspa@azintex.co m | Baki, 370014, 53, Fizuly str., apt. 96; Branch in Kazahstan |
| Caucasus Int'l Center of Study of Local Lore & Ecotourism | Elchin Orujev | 712468, 3271273 | cavcin@azdata.n et | Baki, 370123, 26, R.Mamedov, apt.154 |
| Cultural Ecological Center Goy Gurshagy | Ismayil Sadikhly | 42294 | | Sheki 20, 5 Sary Torpag str., pereulok 4 |
| Dalga Charitable Society | Seyidzadeh M., Ahmedov I. | 766365 | | Baki, 95, Babek av., apt. 54. Branch in Mingechevir |
| Eco-TES | Chingiz Nazarov | 61598 | ekotes@mail.ru | Mingechevir, 1, Y. Mansurov str., apt. 16 |
| Ecolex - Azerbaijan Environmental Law Center | Samir Isayev, Sevil Isayeva | 683359, 3121439, 683359 | Ecolex@azdata.n et | Baki, 4th district, 29a, Javadkhan str., apt. 99 |
| Ecological Biophysics | Ralfrid Hasanov | 398608 | | Baki, 40, Patamdar road (2, Metbuat av.), Botany Institute |
| International Youth Ecological Center | Valida Khanbabayeva, Ali Azimov | 776184, 204537 | azimovar@aznet. org | Baki, 370001, 47, Istiglaliyat str., apt. 17 |
| Ecological Fund | Elshad Mamedov | (22) 573578, | azti@ganca.net | Ganja, 103, 28 May str. |

| | | 575660 | | |
|--|--|---|--------------------------------|--|
| Ecological Problems Research | Kamran | 760042 | ngo@isar-az.org | Baki, 36, Ganja av., |
| Center | Mahmudov | | | apt. 35 |
| Ecology and Health | Gulnara Agarahimova | 33827, 34461 | | Khachmaz, 74, Narimanov str. |
| Ecology Teachers Charitable Society | Suveyrat Hasanova, Elmira Gabulova | 710609 | | Baki, 22b, Zikh road, apt. 129 |
| Ecopark Organization | Hikmet Salahov, Arif Islamzade | | sum@sec.sumgai t.az | Sumgayit, 373200, 16, Nizamy str. |
| Ecores Information Analytic Environmental Agency | Rafig Verdiyev | 958368, 951223, 983181, 929961 | ecores@iatp.bak u.az | Baki 370002, 157 Sh. Azizbekov str., apt. 23 |
| ECOS - Ecological Stability | Ayten Poladova | 951247, 316589 | fidan8@azintex.c om | Baki, 370014, 54, Bul- Bul Avenue |
| Ecosaf | Rasim Aliyev | 237778, 552783, (855) 7781923 | rasim- aliyev@yahoo.co m | Baki, 14, A.Manafov str., apt.36 |
| Ecosphere Social Ecological Center | Firuza Sultanzade, Zuleykha Aliyeva | 924348, 3320034 | ecosphera@azeu rotel.com | Baki, 3, Lermontov str., apt. 61 |
| Ekoil - Scientific Ecological Society | Muslim Gurbanov | 941214 | mgurbanov@hot mail.com | Baki, 370014, 31a, H. Javid av. |
| Elsevenler Society | Chingiz Verdiyev | 32145 | | Ganja, 80, Ozan str. |
| Fevgal Association of Specialists on Emergency Situations and Security of Human Life Activity | Habib Ojagov, Gayibeli Hajimetov | 390775, 395452 | Fovgal@azeronli ne.com | Baki, 370073, 5, Ayna Sultanova |
| For Clean Caspian Sea | Yegana Mehdi | 758946 | Yeganam@yahoo .com | Baki, 21, Hojaly str., apt.6 |
| Public Ecological Foundation named after Gasan Aliyev | Garib Mamedov | 392261 | | Baki 370073, 31 G. Javid av. |
| Golden Beehive Beekeepers Society | Yevdokiya Khanbeyova, Kh. Aliyev, G. Huseynzade | 924686, 3468917 | goldenhive@hot mail.com | Baki, 370004, 15, 1st Yasr povorot, apt. 2 |
| Gyulyum | Irada Guliyeva | 975291, 902292 | 21century@azdat a.net | Baki, 2 bulvar, 5b Mamedyarov str., apt.18 |
| Healthy Society Group | Aydin Samedov | 614540 | | Baki, 3a S.Akhundov str., apt. 7 |
| Human and Environment | Ismayil Ismayilov | 973867 | ismayilov@bak.n et.az | Baki, 370001, 29/3, Mukhtarov str. |
| Independent Ecology & Economics Organization | Tural Jamalov, Asif Makhmudov | 267057, 268578 | max- asif@usa.net | Baki, Bakikhanov settlement., bloc # 4083, 2, apt.27 |
| Intellect Regional Humanitarian Ecological Education Center | Tahir Novruzov, Zahid Abbasov | 25773, 25165 | | Shamkir, 8 M. Sabir str. |
| Kur-Khazar Charity Society | T. Mehdiyeva, B. Mikayilov | 663156, 981179, 907227 | | Baki, 38, Gadirbeyova str. Branches in Neftchala, Ganja, Salyan |
| Lapirchy | Alkhan Garayev | 973103 | | Shamakhy region, Galaybugurd village school |
| Mother nature Natural Hygiene Center | Arshad Azimov | 52137, 3168197 | | Guba, 2a, Fatalykhan str., apt 39 |

| National Center of | Telman Zeynalov | 945342 | | Baki, 13, Mirza Aga |
|--|--|--|--|--|
| Environmental Forecasting Nature and Society | Sammadin | 52232 | | Aliyev str., apt. 14 Guba, 21, Fataly khan |
| | Hajialiyev | | | str. |
| Our House Caucasus International Children Ecological Union | Firuza Amirova, Rufat Alekperov | 406330, 955994, (855) 7826165, 922327 | ourhome@azdat a.net; www.azer.web.c om/ourhome/ | Baki 370025, 45/57, Nobel av. Branches in Ali-Bayramli and Nakhichevan. |
| Piligrim | Yuriy Valuyev | 405819, (850) 3434589 | piligrim@azdata. net; website: http://www.aze rweb.com/direct ories/director.cf m | Baki, 370007, 56 Sarabskogo str., apt. 36 |
| Protection of the Natural Resources Society | Reyhan Aslanova | 660 | | Khachmaz, Yalama village |
| Rostok (Sprout) | Garib Akhmedov | 315575 | | Baki, 4 microrayon, 13, Jabiyev str., apt. 6 |
| Ruzgar Ecological Social Union Azerbaijan Society for Protection of Nature | Islam Mustafayev Sabir Israfilov, Chingiz Mageramov, Samir Isayev | 769801, 394113 697357, (850) 3396998 | IMustafaev@iatp .baku.az isabir@azdata.ne t | Baki, 370119, 124/128, G.Garayev str. Baki, 7 M/district, 5, S.Sani Akhundov str., 5. Branches in 36 regions of Azerbaijan. |
| Society for Protection of Farmers Rights | Solmaz Asadova, Eyvaz Javadov, Hadija Eldarova | (172) 71292, 33025 | | Khachmaz, Resource Center, Gimil Gimlag village |
| Chinar Society for Protection of Flora and Fauna | Vugar Mehdiyev | 714022 | | Baki, 36 Abilov str., apt.1 |
| Sorge Children Care Charity Society | Tamara Dadasheva, Aygun Shahbazova, Valida Aliyeva | 312201, 943810, 300034, (850) 3137299 | azsorge@bakinte r.net | Baki, 79, Zardabi str. |
| South Eco-SOS Society for Nature Protection | Elvin Sadigov | (171) 47907, (850) 3642899 | el_len_eco@yaho o.com | Lenkoran, 90, Nizami str. |
| TETA Hazri Public Association for Development and Research | Lydiya Gulizadeh | 680351, 3362648 | azgeog@geo.ab.a z | Baki, 3 microrayon, 28, Javadkhan str., apt. 37 |
| World is our home Peace and Travelling Center | Haji Hajiyev, Orkhan Eyyubov | 931438 | far@monitor.bak u.az | Baki, 3, R.Behbutov str. |
| Yashil Dalga Youth Ecological Center | Salman Suleymanov | 235121 | | Baki, B. Chobanzadeh, 41-2 |
| Yashil Dunya (Green World) | Elmar Babayev, Ilgar Zeynalov | 319128, 2131652, 3208683 | L- bey@excite.com | Baki, 68 A. Maharramov Str., apt. 102 |
| Young Agrobusiness Association | Azer Humbetov | 67652, 57838 | | Ganja, 15, Ganja str. |
| International Youth Environmental Center | Vafa Jafarova, Rasim Ashumov | 776184, 204537, 677791 | | 370001, Baki, 31 Istiglaliyyet str., 5-th floor |
| Human and Peace | Irada Mikayilova | 51450, (850) 3281381 | | Guba city, 68, Sulh Avenue |
| Ozone Social Ecological Public Union | Azad Allahverdiyev | (850) 3350174 | | Guba region, Hajigayib village |
| Damiragach Public Ecological Union | Sabir Suleymanov, Novruz Guliyev | 42445 | | Lenkoran, 63, Koroglu Street |
| Mammalogists of Azerbaijan | I. Rakhmatulina, E. Askerov | 953312 | zoology@dcacs.a b.az | Baki, 127, S. Askerova Street |

| Development of Mountain | Jahangir Najafov, | 948654, | adria@yahoo.co | Baki, 56, J. |
|----------------------------------|-------------------------|---------------|-----------------------------|--------------------------|
| Regions of Azerbaijan | Dilara Veliyeva | 978775, | m | Mamedguluzade |
| riegione of Hizerburjun | 2 mara , en y e ca | 3219880, | | Street, apt. 9 |
| | | 958662 | | outed, up a s |
| Public Union For the Sake of | Rahim | 54264 | | Lenkoran, 31, Mir |
| Health Environment | Kalantarov, | 01201 | | Mustafa-han Street, |
| | Vugar Aliyev, | | | apt. 6 |
| | Enver Rustamov | | | ap a c |
| Scientific Research Institute on | Elchin Khalilov, | 981415, | enitech@yahoo.c | Baki, Nasimi district, |
| Prognosis and Studying of | Abbas Guvalov | 938400 | om | 18, Mardanov |
| Earthquakes | | | | gardashlary Street |
| Public Union of Information | Anar Garibov, | 931153 | sitiyar@hotmail.c | Baki, 16/7, U. |
| and Technical Support to the | Fahraddin | | om | Hajibeyov Street |
| Development of | Ibrahimov | | | , , |
| Entrepreneurship | | | | |
| Public Union of Creative | Gurban Dostali- | 399838 | | Baki, N. Narimanov |
| Intelligentsia Seyyah RITM | zade, Rafail | | | Street, house 2, tupic 1 |
| | Hasanov | | | - |
| Public Union of Assistance to | Ilgar Namazov | (22) 562346, | ilgarn@mail.ru | Ganja, 90/81, |
| the Development of | | 564259, | | S.I.Khatai Avenue |
| Entrepreneurship Eko-Ay | | 561677, (22) | | |
| | | 532346 | | |
| Public Union for Protection of | Natig Hatamov | (154) 55537, | | Imishli region, 25, |
| Nature Dalga | | (850) 3455842 | | Fizuli Street |
| Public Union Health | Zemfira | 624880 | | Baki, 33/40 Ataturk |
| Environment | Sadikhova | | | Avenue |
| Sheki branch of the Union of | Nazim Yusifov, | 43894, 48891 | | Sheki city, 175, |
| Afghanistan Veterans of The | Vugar Ilyasov | | | M.E.Rasulzade Street |
| Republic of Azerbaijan | | | | |
| Nature and Person | Kamil Ilyasov | 54105, (850) | | Guba, 2a, Vagif Street |
| | | 3146358 | | |
| Shafag Ecoturism Union | Ali Dovlatov | 40731 | | Lenkoran, 48, |
| | | | 1 1 2 2 1 | Sattarhan Street |
| Objective Public Organization | Heydar | (850) 3284457 | obyektiv@yahoo. | Lenkoran, 3, Tofik |
| of Artists | Gasimov, Nazim | | com | Ismayilov Street, Floor |
| | Gubadov | | | 4 |
| Dirchelish | Eynulla Kheyrullayev | 51450 | | Guba, 68 Sulh Avenue |
| Caspian Children Ecological | Elnara | 766306, | | Baki, 6, Ahmed Javad |
| Club | Asadullayeva | 388580 | | Street, apt. 58 |
| Union of Women-Journalist | Gulnaz | 396072 | | Baki, 87a, Javid |
| Ecologists | Bagvanova | 0,00,2 | | Avenue, apt. 740 |
| Hayajan Nature Protection | Tahir Aydinov | 924591 | zootair@baku- | Baki, 39, Bakihanov |
| and Rehabilitation | 1ami riyamov | 721071 | az.net | Str. |
| Organization | | | | Ju. |
| Organization of Protection of | Hikmat | (171) 53104 | hikmat- | Lenkoran city, 18, M.E. |
| Environment "Soil" | Mamedov | (171) 00101 | bodybuilder@ho tmail.com | Rasulzade Street |
| Social Ecological Association | Vadim Garayev, | 936111, (850) | anun.com | Baki, 130, M. Alizade |
| Green Way | N. Mustafayev, | 3126905 | | Str. |
| | R. Ahmedov | | | * |
| Ganja Agrobusiness | Amin Babayev, | 569400 | gaba@ganca.net | Ganja, 24, Ganja Street |
| Association | Vugar Babayev, | 207100 | g Sameaniet | Sarga, 21, Sarga Street |
| | Vugar Agayev | | | |
| | | | 1 | |

Appendix 4 Species found in captivity or in *ex situ* conditions in Azerbaijan⁶⁹

| Scientific name | Common name(s) | IUCN listing | CITES status | National Threat Status |
|--|---|----------------------|-----------------|------------------------------|
| Mammals | | | | |
| Panthera leo (Linnaeus, 1758) | Lion (<i>Afrika Aslanı</i>) | VU C2a(i) | II | - |
| Panthera tigris longipilis (Fitzinger, 1868) | Siberian tiger, Siberian tiger (<i>Amur pələngi</i>) | EN C2a(i) | I | - |
| Puma concolor (Linnaeus, 1771) | Mountain lion, Puma (Puma) | NT | II | - |
| Felis chaus (Schreber, 1777) | Jungle cat (<i>Qamış pişiyi</i>) | - | II | - |
| Ursus arctos (Linnaeus, 1758) | Brown bear (Qonur ayı) | - | II | - |
| Ursus americanus (Pallas, 1780) | American black bear, black bear (<i>Qara ayı</i>) | - | II | - |
| Canis lupus (Linnaeus, 1758) | Gray Wolf (Boz canavar) | - | II | - |
| Papio hamadryas (Linnaeus, 1758) | Hamadryas baboon, Sacred baboon (<i>Pavian-qamadril</i>) | LR/nt | II | - |
| Chlorocebus aethiops (Linnaeus, 1758) | Green monkey, Vervet monkey (<i>Yaşıl meymun</i>) | - | II | - |
| Macaca mulatta (Zimmermann, 1780) | Rhesus macaque, Rhesus monkey (Makaka rezus) | LR/nt | II | - |
| Cercopithecus cephus (Linnaeus, 1758) | Moustached monkey (Mavisifət meymun) | - | II | - |
| Capra cylindricornis (Blyth, 1841) | East Caucasian tur (<i>Dağıstan</i> turu) | VU A1d+2de, C1 | - | - |
| Gazella subgutturosa (Güldenstädt, 1780) | Goitred gazelle, Sand gazelle (Ceyran) | NT | - | Endangered |
| Lama guanacoe | Llama (Lama quanako) | - | II | - |
| Sciurus anomalus (Güldenstädt, 1785) | Caucasian squirrel, Persian squirrel (<i>Qafqaz</i> (<i>fars</i>) <i>sincabi</i>) | LR/nt | - | - |
| Sciurus vulgaris (Linnaeus, 1758) | Eurasian red squirrel, Red squirrel (<i>Adi sincab</i>) | NT | - | - |
| Birds | | | | |
| Struthio camelus (Linnaeus, 1758) | Ostrich (<i>Afrika dəvəquşu</i>) | - | I | - |
| Pelecanus crispus (Linnaeus, 1758) | Dalmatian pelican (<i>Qıvrımlələk</i> qutan) | LR/cd | I | Rare, declining |
| Platalea leucorodia leucorodia | Spoonbill (<i>Ərsindimdik</i>) | - | II | Rare, declining. |
| Phoenicopterus roseus(Pall., 1758) | Flamingo (Qızıl qaz) | - | II | Rare, declining |
| Alopochen aegyptiacus (Linnaeus, 1766) | Nil qazı | - | - | - |
| Aix galericulata (Linnaeus, 1758) | Mandarin ördək | - | - | - |
| Branta canadensis (Linnaeus, 1758) | Canada goose (Kanada kazarkası) | - | I | - |
| Porphyrio porphyrio (Linnaeus, 1758) | Purple swamphen, purple gallinule (<i>Sultan toyuğu</i>) | - | - | Rare species. |
| Circus cyaneus (Linnaeus, 1766) | Hen harrier (<i>Çəmənlik belibağlısı</i>) | = | II | - |
| Circus aeruginosus | Marsh harrier (Bataqlıq belibağlısı) | - | II | - |
| Aythya nyroca (Guldenstadt, 1770) | Ferruginous duck, Ferruginous pochard, White-eyed porchard (<i>Ağgöz dalğıc</i>) | LR/nt | III | - |

⁶⁹ Includes a number of foreign species which are of conservation importance, with nationally threatened species are identified in the final column.

| Aegypius monachus (Linnaeus, 1766) | Black vulture, Cinereous Vulture (<i>Qara grif</i>) | LR/nt | II | - |
|--|---|-----------------------|-----|--------------------------------|
| Aquila chrysaetus (Linnaeus, 1758) | Aigle royal, golden eagle (Berkut) | - | II | Rare, declining |
| Aquila heliaca (Savigny, 1809) | Spanish imperial eagle (<i>Məzar qartalı</i>) | VU C1 | I | Rare, declining |
| Aquila nipalensis (Hodgson, 1833) | Çöl qartalı | - | II | - |
| Gyps fulvus (Hablizl, 1783) | Griffon vulture (Ağbaş kərkəs) | - | II | - |
| Gypaetus barbatus (Linnaeus, 1758) | Lammergeier, bearded vulture (Toğlugötürən) | - | II | Endangered |
| Falco peregrinus (Tunstall, 1771) | Peregrine falcon (<i>Adi şahin</i> (<i>sapsan</i>)) | - | I | Rare, declining |
| Buteo buteo (Linnaeus, 1758) | Buzzard (Adi sar) | - | II | - |
| Neophron percnopterus (Linnaeus, 1758) | Egyptian vulture (<i>Leşyldən</i> qartal) | - | II | - |
| Ara ararauna (Linnaeus, 1758) | Ara (Ara tutuquşu) | | II | - |
| Amazona albifrons (Sparrman, 1788) | Ağbaş amazon | - | | - |
| Psittacula eupatria (Linnaeus, 1766) | Böyükxaltalı tutuquşu | - | II | - |
| Psittacula krameri (Scopoli, 1769) | Rose-ringed parakeet (Kiçik xaltalı tutuquşu) | - | III | - |
| Poicephalus senegalus (Linnaeus, 1766) | Seneqal tutuquşu | - | II | - |
| Eos histrio (Muller, 1776) | Red and blue lory (Göy-qırmızı lori tutuquşu) | EN A2cd, B1+2abcde | II | - |
| Psittacus erithagus Linnaeus, 1758 | Jako tutuquşusu | - | II | - |
| Psephotus haematonotus (Gould, 1838) | Oxuyan tutuquşu | - | II | - |
| Chrysolophus pictus (Linnaeus, 1758) | Qızıl qırğovul | - | - | - |
| Chrysolophus amherstiae (Leadbeater, 1829) | Almas qırğovulu | - | - | - |
| Lophura swinhoii (Gould, 1863) | Swinhoe's Pheasant (<i>Tayvan</i> qurğoiulu (<i>Svayno</i>)) | LR/nt | I | - |
| Lophura leucomelana (Latham, 1790) | Nepal qırğovulu | - | - | - |
| Bubo bubo (Linnaeus, 1758) | Eagle owl (<i>İri yapalağ</i>) | - | II | - |
| Reptiles and amphibians | | | | |
| Python molurus bivittatus (Kuhl 1820) | Asian rock python, Burmese python (<i>Tündpələngi piton</i>) | LR/nt | Ι | - |
| Eunectes notaeus (Cope 1862) | Yellow anaconda (<i>Paraqvay</i> anakondası) | - | II | - |
| Boa constrictor (Linnaeus, 1758) | Boa constrictor (İmperator udavı) | - | II | - |
| Varanus niloticus (Fitzinger, 1826) | Nile monitor (Nil varanı) | - | II | - |
| Testudo graeca ibera (Pallas, 1814) | Common tortoise, Greek Tortoise (Aralıq dənizi tısbağası) | VU A1cd | I | Declining range and population |
| Emys orbicularis (Blanford, 1876) | European pond turtle (<i>Bataqlıq</i> tısbağası) | - | - | - |
| Caiman crocodilus (Conant & Collins, 1991) | Common caiman (<i>Timsahvari</i> kayman) | - | II | - |

Appendix 5. Rare plant species listed in the Red Book of Nakhichevan Autonomous Republic⁷⁰

| Latin name | Status | Localities |
|---|-----------------------------------|------------------------------------|
| Nektaroskordum tripedale (Trautv) Grossh. | Population declining, endemic | Demirlidag, Soyugdag |
| Carapodium platicarpum (Boiss. et Hausskn.) Schischk. | Rare, at risk of extinction | Kuku, Arafsa, Nasirvaz, Nusnus |
| Dorema glabrum Fisch. et Mey. | Rare, at risk of extinction | Duzdag, Daridag, Nehramdag |
| Ferula oopoda (Boiss. et Buhse) Boiss | Rare, in danger of disappearing | Duzdag |
| Ferula persica Willd. | Rare, habitat declining | Sederek, Validag |
| Ferula szowitsiana DC. | Rare, habitat declining | Duzdag, Validag, Nehramdag |
| Peucedanum pauciradiatum Tamamsch. | Rare, endemic | Ordubad, Genze, Saridag |
| Smyrniopsis oneberi Boiss. | Rare, limited habitat | Kechli, Bijenek, Kuku, Nurs |
| Stenotaenia daralaghezica Takth. | Rare, Caucasus habitat | Arinch, Kuku, Upper Remeshen |
| Aristolochia bottaee Jaub. et Spach | Rare, reducing | Within Garababa village |
| Gundelia tournefortii L. | Rare, Eurasian species | Bashkend, Gazanchi, Hanaga, Aza |
| Lactuca takhtadzhianii Sosn. | Rare, population declining | Novruz village, Garababa |
| Pyrethrum komarowii Sosn. | Rare, endemic | Ordubad, Paraga, Nasirvaz |
| Scorzonera pusilla Pall. | Rare, habitat declining | Duzdag, Sahtaxti |
| Physoptychis gnaphaloides (DC.) Boiss. | Rare, small population | Demirlidag, Gemigaya |
| Sampanula radula Fisch. et Tchih | Rare, restricted habitat | Aznaburd, (now Chalhangala) |
| Anabasis eugeniae Iljin | Rare, restricted habitat | Kirna, Diza, Daridag |
| Salsola tamamschjanae Iljin | Rare, restricted habitat | Velidag |
| Juniperus foetidissima Willd. | Rare, small population | Batabat, Bijanak, Ilanlidag |
| Eurhorbia grosshejmii Pokh. | Rare, endemic | Julfa, Ordubad, Kotam, Kilit |
| Astragalus nachitsceanicus | Rare, endemic, restricted habitat | Garababa, Kotam, Kechili |
| Astragalus paradoxus Bunge | Rare, restricted habitat | Nehrem, Jannab, Alinchachay |
| Astragalus prilipkoana Grossh. | Endemic, restricted habitat | Bilev, Paraga |
| Globularia trichosantha Fisch. et Mey | Rare, low-numbered | Garagurd, Garagush mountains |
| Hypericum formosissimum takht. | Rare, endemic, restricted habitat | Aznaburd (Chalhangala) |
| Iris grosshejmii Woronow ex | Rare, restricted habitat | Shixyurdu, Soyugdag |

 $^{^{70}\,53}$ species are listed in the Red Book

| Grossh. | | |
|---|---|---------------------------------|
| Iris elegantissima Sosn. | Rare, endemic | Around Sederek |
| Iris lycotis Woronow | Rare, endemic | Aznaburd , Daridag, |
| ····g·····g | , | Aza, Arafsa |
| Iris paradoxa Stev. | Rare, endemic | Around Nahchivan |
| Iris prilipkoana KemNat. | Rare, endemic | Bijanak, Batabat, Kuku |
| Iridodictium reticulate Bieb. | Rare, small population | Arafsa (Hazina) |
| Scilla atropatana Qrossh. | Rare, small population | Dirnis, Nusnus |
| Tulipa eichlnri Regel. | Rare, endemic, restricted habitat | Nusnus (Sari |
| Tumpu etemin Regen | rare, enderme, restricted nastat | mountains) |
| Tulipa karabachensis Qrossh. | Rare, endemic, restricted habitat | Kotam, Kilit, |
| Timpu, minucuencine i Qiesein | Twice, crisicalize, resurrevest rate rate | Horhatdag |
| Tulipa florenskyi Woronow | Rare, habitat declining | Nusnus, |
| Thing in greeners green exercise is | Time, time time decimaling | Galaguney, Dirnis |
| Tulipa julija C. Koch. | Rare, restricted habitat | Bijenek, Arachidag, |
| | | Goydag Goydag |
| Tulipa schmidtii Fomin | Endemic species | Nusnus (Diah, |
| 1 1 | Entiremite of ceres | Fahladarasi) |
| Platanus orientalis L. | Population declining, relict specie | Nahchivan, Ordubad, |
| 1 mmm orientime 1. | 1 op unation decimang, renet specie | Nusnus |
| Avena ventricosa Bal. ex Coss. | Rare, small population | Payiz, Chalhangala |
| Triticum monococcum L. | Rare, at risk of extinction | Chalhangala, |
| | | Garagush, Payiz |
| Calligonum polygonoides L. | Rare, declining and at risk of extinction | Velideg, Kotam-Kilit |
| Rheum ribes L. | Rare, at risk of extinction | Duzdag, Daridag, |
| | | Kolani ,Kuku |
| Punica granatum L. | Reducing in numbers | Around Kotam, Kilit, |
| , | | Nehrem |
| Coteneaster saxatilis Pojark | Rare, endemic | Around Ahura, |
| | | Hemzeli, Havus |
| Padus avium Mill. | Declining and at risk of extinction, | Ahura-Havus, Bijenek, |
| | rare | Batabat |
| P. racemosa (Lamp.) Gilib. | Declining and at risk of extinction, | Ahura-Havus, Bijenek, |
| | rare | Batabat |
| Rosa azerbajdzhanica Novopokr et Rzazade | Rare, endemic | Around Kuku |
| Rosa karjaginii Sosn. | Rare, small population | Around Urmis |
| Rosa nizami Sosn. | Rare, endemic | Kuku, Bijenek |
| Rosa sosnowskyi Chrshan. | Rare, endemic | Batabat, Bicenek |
| Daphne transcaucasica Pobed. | Rare, declining habitat | Payiz, Chalhangala, Bijenek |
| Stelleropsis magakjanii (Sosn.) Pobed. | Rare, endemic | Around Kuku |
| Valeriana alliarifolia Adam. | Rare, habitat specific | Hurs, Nurgut, Kuku, Bayahmed |

Appendix 6. Endemic plant species recorded in Nakhichevan Autonomous Republic ⁷¹

| | | Endemism | | | |
|--|----------------|------------|-------------------|--------------------------|--|
| Latin plant names | Caucasus | Azerbaijan | Nakhichevan AR | neighbouri ng regions | |
| Allium dictyoprasum C.A.Mey.ex Kunth. | + | | | | |
| A. affine Ledeb.(A.transcaucasium Grossh.) | + | | | | |
| A. pseudoampeloprasum Miscz. ex Grossh. | + | | | | |
| A. leucanthum C. Koch | + | | | | |
| A. mariae Bordz. | | + | + | | |
| A .woronowii Miscz.ex Grossh. | | + | + | | |
| A. leonidii Grossh. | | + | + | | |
| A. kunthianum Vved. | + | | | + | |
| A. syntamanthum C.Koch | + | | | + | |
| A. materculae Bordz. | | + | | + | |
| A. viride Grossh. | + | | | + | |
| Alchimilla sedelmeyeriana Juz. | + | | | + | |
| A. amicta Juz. | | + | + | | |
| A. grossheimii Juz. | + | | | | |
| A. ortotricha Juz. | + | | | | |
| A. epipsila Juz. | + | | | | |
| A. smirnovii Juz. | + | | | | |
| A. venosa Juz. | + | | | | |
| Aethionema diastropis Bunge | + | | | | |
| Anabasis eugeniae Iljin | | + | + | | |
| Asparagus persicus Baker (A.leptophyllus Schischk.) | + | | • | | |
| Aconitum nasutum Fisch.ex Reichenb. | + | | | | |
| Atropatenia rostrata (N. Busch.) F. K. Mey. | ' | + | + | | |
| Arabis carduchorum Boiss.(A. armena N. Busch) | + | ' | ' | | |
| Amyqdalus natrica Fed. et Takht. | + | | | | |
| Androsace kozo-poljanskii Ovez (A. barbulata Ovez.) | + | | | | |
| A. raddeana Somm.et Levier | + | | | | |
| A. lehmanniana Sprang. | + | | | | |
| Arctium transcaucasium Sosn. | + | | | | |
| Astragulus cancellatus Bunge (A. perrarus Boiss.) | + | | | + | |
| Astragalus szovitsii Fisch. | | + | | + | |
| A. shelkovnikovii Grossh. | | + | | + | |
| A. conspicus Boriss. | + | ' | | + | |
| 1 | + | 1 | 1 | + | |
| A. aznabjurticus Grossh. A. schachbuzensis Rzazade | | + + | + | | |
| A. nachitschevanicus Rzazade | | | + | | |
| A. nacnuschevanicus Rzazade A. euoplus Trautv. | + | + | | | |
| A. insidiosus Boriss. | 1 | + | + | | |
| A. Instatosus Bottss. A. badamlensis Chalilov | 1 | + | + | | |
| | | + | + | | |
| Astragalus karakuschensis Gontsch. A. regelii Trautv. | | + | + | | |
| A. regetti Trautv. A. gezeldarensis Grossh. | | + | + | | |
| A. gezetaarensis Grossn. A. kochianus Sosn. | + + | | | | |
| A. kocntanus Sosn. A. hajastanus Grossh. | + | | | | |
| | + | | | | |
| A. goktschaicus Grossh. | + | | 1 | | |
| A. chalilovii Grossh. et Fed. | . | + | + | | |
| A. ordubadensis Grossh. | + | 1 | + | | |

⁷¹ 331 species are listed as endemic

| A muilimha anns Craagh | | | | |
|---|---|-----|-----|---|
| A. prilipkoaunus Grossh. | + | | + + | |
| A. achundovii Grossh.ex Fed. | | + | + | |
| A. erivanensis Bornm.et Woronow | + | | + | |
| A. montis-aqulis Grossh. A. johannis Rzazade | | + + | + | + |
| Astracantha barba-carpinus (AI. Theod., Fed. et Rzazade) | | ' | | ' |
| Podlech | | + | + | |
| A.vedicus (Takht.) Czer. (Astragalus vedicus Takht) Podlech | + | | | |
| A. jucundus (AI. Theod., Fed. et Rzazade) Podlech | | + | + | |
| A. gudrathi (AI. Theod., Fed. et Rzazade) Podlech | + | | + | |
| A. flavirubens (AI. Theod., Fed. et Rzazade) Podlech | + | | | |
| Alyssum stapffii Vierh.(A. buschianum Grossh.) | | + | + | |
| Aphanopleura trachysperma Boiss. | + | | | |
| Bellevalia longistila (Miscz.) Grossh. | | + | + | |
| B. pycantha (C. Koch) Losinsk | + | | | |
| B. zygomorpha Woronow. | | + | | |
| Bromus tzvelevii Musayev et Sadichov | | + | + | |
| Camelina sativa (L.) Grantz. | + | | | |
| Carlina acaulis L. | + | | | |
| Cymatocarrus grossheimii N Busch. | | + | + | |
| Cirsium tricholoma Fisch. ex C. A. Mey. | | + | | + |
| C. sinuatum (Trautv.) Boiss. | + | | | + |
| C. megricum Charadze | + | | | |
| C. schelkownikowii Petrak. | + | | | |
| Carum caucasicum (Bieb.) Boiss. | + | | | + |
| Crataegus caucasica C. Koch. | + | | | + |
| C. armena Pojark. | + | | | |
| C. cynovskisii Kassumova | | + | + | |
| Colutea komarovii Takht. | | + | + | |
| Cephalaria nachiczevanica Grossh. | | + | + | |
| C. armeniaca Bordz. | + | | | |
| Cephalorrynchus kirpicznikovii Grossh. | | + | + | |
| Campanula karakuschensis Grossh.(C.minsteriana Grossh) | | + | + | |
| C. bayerniana Rupr.(C. elegantissima Grossh.) | + | | | |
| C. daralaghezica (Grossh.) Kolak. et Serdjukova | + | | | + |
| (Symphyandra daralaqhezica Grossh.) | | | | T |
| C. zangezura (Lipskyi) Kolak et Serdjukova (Symphyandra zangezura Lipsky) | + | | | + |
| C. trautvetteri Grossh. ex Fed. | + | | | |
| Chamerion transcaucasicum Manden | + | | | |
| Ch. caucasicum (Willd.) Boiss. | + | | | |
| Chamaemelum nobile (L.) All. | + | | | |
| Colchicum szovitsii Fisch. et C. A. Mey. | + | | | |
| C. zangezurum Grossh. | + | | | |
| Celtis caucasica | + | | + | + |
| Carduus seminudus Bieb. | + | | | |
| Cousinia lomkinii C. Winkl. | + | | | |
| Centaurea fischeri Schlecht | | + | + | |
| Coteneaster saxatilis Pojark | | + | + | |
| Crepis karakuschensis Czer. | | + | + | |
| Draba bruniifolia Stev. | + | | | |
| D. bryoides DC. | + | | | |
| D. siliguosa Bieb. | + | | | + |
| Dianthus raddeanus Vierh. | + | | | + |
| D. subulosus Freyn et Conrath | + | | | |
| Delphinium foetidium Lomak. | + | | | |

| | 1 | 1 | 1 | |
|--|-----|-----|-----|---|
| D. flexuosum Bieb. | + | | | |
| D. buschianum Grossh. | + | | | |
| D. caucasicum C. A. Mey. | + | | | |
| D. lomakinii KemNath. | | + | + | |
| Doronicum macrophyllus Fisch.ex Hornem. | + | | | |
| D. oblongifolium DC. | + | | | |
| Dorema glabrum Fisch. et C.A.Mey. | | + | + | |
| Dracocephalum botryoides Stev. | + | | | + |
| D. multicaule Montbr. | + | | | + |
| Echinops orientalis Trauty.(E.arachinus Mulk.) | + | | | + |
| E. polygamus Bunge (E. grossheimii Iljin) | + | | | ' |
| | ' | + | + | |
| Elytrigia heydemaniae Tzvel. | | | Т | |
| Eurhrasia georgica KemNath. | + | | | |
| E. caucasica JuzQafqaz g. | + + | | | |
| Euphorbia leucographus Bunge | + | | | + |
| E. marschalliana Boiss. | | | | |
| E. nutans Lag. | | -1 | 1 | + |
| E. grossheimii Prokh Eryngium wanaturi Woronow | + | + | + | + |
| | | | | + |
| Erysimum chazarjurti N. Busch. | + | | | |
| E. lilacinum Steinb. | + | 1 | 1 | |
| E. leptophyllum (BIeb.) Andrz. (E. feodorovii M. Kassumov) E. buschii M. Kassumov | | + | + + | |
| E. subulatum J. Gay (E. Iljinii M. Kassumov) | | + | + | |
| E. crassipes Fisch.et C. A. Mey.(E. transcaspium M. | | | | |
| Kassumov) | + | | + | |
| E. wagifii M. Kassumov | | + | + | |
| E. nachiczevanicum M. Kassumov | | + | + | |
| | | ' | , | |
| Fritillaria caucasica Adams | + | | | + |
| Fuernrohria setifolia C, Koch. | + | | | |
| Ferula oopoda (Boiss.et Buhse) Boiss. Gagea alexeenkoana Miscz. | + | + | + | + |
| G. caroli-kochii Grossh. | + | | | + |
| G. improvisa Grossh. | | 1 | 1 | |
| Galium czerepanovii Pobed. | | + + | + | |
| G. consanguineum Boiss.(G. majmechense Bordz.) | + | Т | T | |
| G. achurense Grossh. | ' | + | + | |
| G. atropatanum Grossh. | | + | + | |
| G. bulbatum Lipsky | | + | + | |
| G.hyrcanum C.A.Mey (G.grossheimii Pobed.) | | + | + | |
| Gypsophila szovitsii Fisch.etC.A.Mey.ex Fenz | + | | · | + |
| G. stevenii Fisch.ex Schrank | + | | | |
| G. lipsky Schischk. | + | | | |
| Dianthus caucasicus Smith.(G.discolor Smith.) | + | | | |
| D. raddeanus Vierh. | + | | | |
| D. subulosus Freun et Conrath. | + | | | |
| Hylotelephium caucasicum H. Ohba.(Sedum caucasicum | | | | |
| Grossh.) | + | | | |
| Hypericum formosissimum Takht. | | + | + | |
| H. atropatanum Rzazade | | + | + | |
| H. helianthomoides (Spach)Boiss. | + | | + | |
| Haplophyllum villosum (Bieb.)G.Don fil. | + | | | + |
| H.schelkovnikovii Grossh. | | + | + | + |
| Hedysarum ibericum Bieb. | + | | | + |
| H. cericeum Bieb. | + | | | + |
| H. caucasicum Bieb. | + | | | |
| | · | + | + | + |
| Helichrisum araxinum Takht.et Kirp. | + | | | |
| Hieracium cincinnatum Fries. H. perileucum(Schischk. et Zahn.)Juxip | + | | | + |
| H. akinfiewii Woronow et zahn. | + | | | + |
| 11. annyiewn worthow of Zami. | L ' | i | j | |

| | T | | 1 | 1 |
|--|--|---|-----|-------------|
| Heracleum pastinacifolium C.Koch. | + | | | + |
| H. schelkownikovii Woronow | + | | | |
| Iris spuria subsp.I.musulmanica Fomin | + | | | + |
| I. paradoxa Stev. | + | | | + |
| I. iberica Hoffm. | + | | | + |
| I. prilipkoana Kem Nat. | + | | | |
| I. grossheimii Woronow ex Grossh. | | + | + | |
| I. limbata Lindl.(I.sulphurea C.Koch.) | + | | | |
| I. lycotis Woronow | | + | + | |
| Irydodictyum hyrcanum (Woronow ex Grossh.) Rodionenko | | + | | |
| Juno schischkini (Grossh.)Czer. | | + | + | |
| I. caucasica (Hoffm) Klatt. | + | | | |
| I. pseudocaucasica (Grossh.) | + | | | + |
| Inula mariae Bordz. | + | | | |
| Jurinea spectabilis Fisch.etC.A.Mey. | + | | | |
| Lathyrus rotundifolius Willd. | + | | | + |
| L. atropatanus (Grossh/.)Sirj.(Orobus atropatanus Grossh.) | | + | + | |
| Lactuca georgica Grossh. | + | | | |
| Lotus caucasicus Kuprian.ex Juz | + | | | |
| Limonium fischeri (Trautv.) Lincz. | | + | + | |
| Linum subbiflorum Juz. | | + | + | |
| L. hypericifolium Salisb. | | + | + | |
| Linaria zangezura Groosh. | + | | | |
| L. megrica Tzvel.(L.ordubadica Tzvel.) | + | | | |
| L. schelkownikowii Schischk. | + | | | |
| Cardaria propingua Fisch.et C.A.Mey.(Lepidium | | | | |
| propinguum Fisch.) | + | | | |
| Medicago caucasica Vass. | + | | | + |
| Melica schischkinii Iljinsk. | | + | + | |
| Milium transcaucasium Tzvel. | | + | + | |
| Muscari leicostomum Woronow ex Gzerniak | | + | | |
| Malabaila sulcata Boiss. | + | | | |
| Marrubium nanum Knorr. | | + | + | |
| Melampurum chlorostachyum Beauverd | + | | | |
| M. caucasicum Bunge. | + | | | |
| Melilotoides biflora (Griseb.) Czer.(Melissitus biflorus | | | | |
| Griseb.) | + | | | |
| Nepeta stricitifolia Pojark.(N.grossheimii Poyark.) | | + | + | |
| N. zangezura Groosh. | + | | | + |
| N. mussinii Spreng.(N.transcaucasica Grossh.) | + | | | |
| N. noraschenica Grossh . | | + | + | |
| N. trautvetteri Boiss.et Buhse (N. velutina Pojark) | + | | | |
| N. schischkinii Pojark. | | + | | + |
| N. betonicifolia C.A.Mey. | | + | | + |
| N. erivanensis Pojark. | + | | | |
| Neurotropis armena (N.Busch) Czer.(Thlaspi armena | | | | |
| N.Busch) | | + | + | |
| I N.Dusciii | | , | | + |
| | | + | + | |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) | | | | |
| | + | | + + | |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae | + + | | | + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. | | | | + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) | + | | | |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. | + + | | | + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. | + + + | | | + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. | + + + + + + + | | | + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. O. cyri Grossh | + + + + + + + + + | | | + + + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. O. cyri Grossh Orobanche raddeana G.Besk | + + + + + + + | | | + + + + + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. O. cyri Grossh Orobanche raddeana G.Besk Ornithogalum brachystachys C.Koch. | + + + + + + + + | | | + + + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. O. cyri Grossh Orobanche raddeana G.Besk Ornithogalum brachystachys C.Koch. O. schelcovnikovii Groossh | + + + + + + + + + | | | + + + + + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. O. cyri Grossh Orobanche raddeana G.Besk Ornithogalum brachystachys C.Koch. O. schelcovnikovii Groossh O. balansae Boiss.(Schmalhausenii Albov) | + + + + + + + + + + | | | + + + + + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. O. cyri Grossh Orobanche raddeana G.Besk Ornithogalum brachystachys C.Koch. O. schelcovnikovii Groossh O. balansae Boiss.(Schmalhausenii Albov) O. trancaucasicum Miscz.ex Grossh. | + + + + + + + + + | | | + + + + + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. O. cyri Grossh Orobanche raddeana G.Besk Ornithogalum brachystachys C.Koch. O. schelcovnikovii Groossh O. balansae Boiss.(Schmalhausenii Albov) | + + + + + + + + + + | | | + + + + + + |
| N. szovitsiana (Boiss.)C.A.Mey.(Thlaspi szovitsianum Boiss) Noccaea tatianae (Bordz.) F.K.Mey.(Thlaspi tatianae Bordz.) Nonnea rosea (Bieb.) Link. Onobrychis transcaucasica Grossh. O. hajastana Groosh. O. heteropylla C.A.Mey. O. radiata (Desf.)Bieb. O. cyri Grossh Orobanche raddeana G.Besk Ornithogalum brachystachys C.Koch. O. schelcovnikovii Groossh O. balansae Boiss.(Schmalhausenii Albov) O. trancaucasicum Miscz.ex Grossh. | + + + + + + + + + + | | | + + + + + + |

| Onosma gracilis Trautv | + | | | |
|---|--------------|----------|---|---|
| Pimpinella aromatica Bieb. | | + | | |
| | + , | - | | |
| Populus canascens (Ait.)Smith (P.hibrida Bieb.) P. sosnovskvi Grossh. | + + | | | |
| P. gracilis Grossh. | + | | | |
| Pyrus zangezura Maleev | + | | | |
| P. voronovii Rubtz. | + | | | |
| P. nutans Rubtz. | + | | | |
| P. medvedevii Rubtz. | + | | | |
| P. raddeana Woronow | + | | | |
| Potentilla lomakinii Lomakini | + | | | |
| P. conferta Bunge (P.agrimonioides Bieb.) | + | | | + |
| P. szovitsii Th. Wolf | + | | | + |
| Pyrethrum ordubadense Manden | + | + | + | + |
| P. komarovii Sosn. | | + | + | |
| | | ' | ı | |
| P. punctatum (Desr.)Bordz.ex Schischk. | + | | | |
| Polygala hohenaskeriana Fisch.et C.A.Mey. | + | | | + |
| Polygonum bellardii All.(P.tiflisensis Kom.) | + | | | |
| Peducularis crassirostris Bunge. | + | | | |
| Peltariopsis grossheimii N.Busch. | | + | + | |
| Ribes biebersteinii Berl.ex DC. | | + | | |
| Rubus ibericus Juz. | + | | | |
| Rosa tuschetica Boiss. | + | | | |
| R. nizami Sosn. R. sachokiana P.Jarosch. | + | + | + | |
| R. karjaginii Sosn. | + | + | + | |
| R. marschalliana Sosn. | + | Т. | Т | |
| R. zangezura P.Jarosch | + | | | |
| R. sosnovskyana Tamamsch. | + | | | |
| R. kazarjanii Sosn. | + | | | |
| R. hracziana Tamamsch. | + | | | |
| R. sosnovskiana Chrshan. | + | | | |
| R. brotherorum Chrshan. | + | | | |
| R. pulvurulenta Bieb.(R.azerbajdzhanica Novopokr et Rzazade) | | + | + | |
| R.buschiana Chrshan. | + | | | |
| | | | | |
| R. orientalis Duront ex Ser (R.vanheurckiana Crep.) | + | | | |
| Ranunculus grandiflorus L.(R.elegans C.Koch) | + | | | |
| Rhynchocorys orientalis (L)Benth. | + | | | |
| Salsola cana C.Koch | + | | | |
| S. futilis Iljin | | + | + | |
| S. tomentosa (Mog.) Spach, (S. flavovirens Iljin, S. takhtadzijani Iljin) | | + | + | |
| S. nitraria Pall.(S.macera Litv.) | + | | | |
| S. tamamschjanae Iljin | + | | | + |
| S. dzulphensis Grossh. | ' | + | + | ' |
| S. nodulosa (Mog.)Iljin | + | 1 | 1 | + |
| Salvia pachystachya Trautv. | + | | | + |
| S. limbata C.A.Mey.(S. prilipkoana Grossh., S. fominii | | | | |
| Grossh.) | + | | | + |
| S. suffruticosa Montbr.et Auch,ex Benth.(S. alechandrii Pobed) | | + | + | |
| S. reuteriana Boiss.(S. nachiczeanica Pobed.) | | + | + | |
| S. andreji Pobed. | | + | + | |
| Scilla mischtchenkoana Grossh.(S. zangezura Grossh.) | | + | + | |
| S. sibirica Haw. | + | <u> </u> | | |
| S. armena Grossh. | + | | | |
| Scorzonera czerepanovii R.Ram.(S. lanata (L)Hoffm | + | | | + |
| Scrophularia atropatana Groosh. | 1 | + | + | + |
| | | | | |

| | | 1 | | 1 |
|--|---|----------|---|----------|
| S. cinerascens Boiss.(S. grossheimii Schischk.) | + | | | |
| S. thesoides Boiss.et Buhse. | | + | + | |
| S. variegata BiebAla q. | + | | | + |
| Sedum corymbosum Grossh. | + | | | + |
| Silene prilipcoana Schischk. | | + | + | + |
| S. depressa Bieb. | + | | | |
| S. caucasica (Bunge)Boiss. | + | | | |
| S. tatjanae Schischk. | + | | | |
| S. longipetala Vent.(S./chloropetala Rupr.) | + | | | |
| S. iberica Bierb. | + | | | |
| Smyrniopsis aucheri Boiss. | + | | | + |
| Swertia iberica Fisch.et C.A.Mey. | + | | | |
| Stachys fruticulosa Bieb.(S. grossheimii Kapell.) | | + | + | |
| S. intlata Benth. | | + | | |
| S. fomini Sosn. | | + | + | |
| Symphytum asperum Lepech. | + | | | + |
| S. caucasicum Bieb. | + | | | |
| Sameraria glastifolia (Fisch.et C.A, Mey.) Boiss. | | + | + | |
| Senecio lipsky Lomak. | + | | | |
| Stenotaenia macrocarpa Freyn et Sinth. | | + | + | |
| Stipa issaevii Musayev et Sadychov | | + | + | |
| S. karjaginii Musayev et Sadychov | | + | + | |
| S. gaubae Bor. (S. nachiczevanica Musayev et Sadychov) | | + | + | |
| S. olosericea Trin.et Rupr. | + | | | |
| Salix aegyptiaca L.(Phlomoides Bieb.) | + | | | |
| Seseli grandivittatum (Somm.et Levier.) Schischk. | + | | | |
| Scutellaria karjaginii Grossh. | | + | + | |
| S. rhomboidalis Grossh. | | + | + | |
| S. darriensis Grossh. | | + | + | |
| S. sevanensis Sosn.et Grossh. | + | | | |
| Saxifraqa pontica Albov | + | | | |
| S. juniperifolia Adams | + | | | |
| Solidago armena Kem-Nath.ex Grossh. | + | | | |
| Serratula haussknechtii Boiss. (S. trancaucasica Bornm.) | + | | | |
| S. serratuloides (Fich. et C.A.Mey.) Takth. | + | | | |
| Stizolophus balsamita (Lam.) Cass.ex Takht. | + | | | |
| Thesium szovitsii A.DC. | + | | | + |
| Thymus migricus Klok.et Shost. | + | | | + |
| Th. nummularies Bieb. | + | | | + |
| Th. collinus Bieb. | + | | | |
| Tragopogon marginatus Boiss. | + | | | + |
| T. nachitschevanicus (Kunth) N.Pop. | | + | + | |
| T. sosnowskyi Kuth. | + | | | |
| Taraxacum desertorum Schischk. | | + | + | |
| T. prilipkoi Czer. (T.praticola Schischk.) | + | | | |
| Tomanthea daralaghezica (Fomin) Takht. | + | | | |
| Trinia leiogona (C.A.Mey.) B.Fedtsch. | + | | | + |
| Tulira eichleri Regel | | + | | <u> </u> |
| Trifolium fontanum Bobr. | + | | | |
| Vicia anatolica Turrill. (V. hajastana Grossh.) | + | | | + |
| V. ciceroidea Boiss.(V. rafigae Tamamsch) | + | <u> </u> | | + |
| V. grossheimii Ekvtim | + | | | |
| Vavilovia formosa (Stev.)Fed. | | + | + | |
| Verbascum erivanicum E.Wulf | | + | + | |
| V. georgicum Benth. | + | 1 | | 1 |
| V. paniculatum E.Wulf | | + | + | |
| Zeravschanica pauciradiata (Tamamsch.) M.Pimen | | + | + | |
| Zizirhora denticulate Juz. | + | | | |
| | | | | |

Appendix 7. Rare animal species recorded in Nakhichevan Autonomous Republic

| Latin name of species | Status in Nackchivan | Localation |
|---|--|---|
| Aquila nipalensis Temm, 1828 | Rare, small population, declining | Nachichevan suburbs |
| Aquila heliaca Savigny, 1809 | Rare, declining | Serur, Ordubad |
| Aquila chrysaetos L., 1758 | Rare | Shahbuz, Ordubad |
| Ancylocheria salomoni Thomson, 1878 | Declining | Around Shahbuz |
| Anthocharis gruneri Chr., 1870 | Rare, Transcaucasian endemic | Around Serur and Ordubad |
| Axiopoena maura Eichw., 1832 | Disappearing specie | Around Ordubad |
| Bombus (Mg) portschinsky Rad., 1883 | Transcaucasian endemic | Around Ordubad |
| Bombus daghestanicus Rad., 1877 | Caucasus endemic | Shahbuz mountain, Kukudag, Kechaldag |
| Bombus (Th.) mlokosievitzii Rad., 1877 | Transcaucasian endemic | Serur, Julfa, Ordubad mountains |
| Bombus persicus Rad., 1884 | Rare transcaucasian endemic | Serur, Julfa, Ordubad mountains |
| Colias thisoa Men., 1832 | Rare | Serur, Gelingaya |
| Colias aurorina H.S., 1850 | Rare | Serur, Shahbuz, Ordubad mountains |
| Colias chlorosoma Chr., 1888 | Transcaucasian endemic | Serur mountains |
| Carabus scabrosus caucasicus Adams, 1817 | Transcaucasian endemic | Shahbuz mountains |
| Calosoma sycophanta L., 1758 | Rare | Serur mountains |
| Circaetus gallicus Gmel., 1788 | Rare, declining | Serur, Julfa |
| Capra aegagrus Erxleben, 1777 | Rare, declining habitat | Ilanlidag, Nehremdag, Zengezur |
| Chlamydotis undulata Jacuin, 1784 | Rare, rapidly declining | River-bed and plains of Araz |
| Chettusia gregaria Rall., 1771 | Rare, declining | Araz river-bed, Serur, Julfa |
| Felis silvestris Schreber, 1775 | Declining, rare | Araz river-bed |
| Haliaeetus albicilla L. 1758 | Rare, | Nachichevan suburbs |
| Hyaena hyaena (Linneus, 1758) | Rare, threatened with extinction | Araz river-bed |
| Irania gutturals Guerin., 1843 | Restricted ed habitat, rare | Araz river-bed, |
| Lynx lynx (Linnaeus, 1758) | Small population | Ordubad, Shahbuz, Zengezur |
| Miniopterus schreibersi (Kühl, 1819) | Restricted habitat, declining | Kilit |
| Mallosia skovitzi Fald., 1837 | Transcaucasian endemic | Around Ordubad |
| Manduca atropos L., 1758 | Declining | Lower and middle mountain ranges |
| Mabuya aurata Linneus, 1758 | Rare | Around Ordubad, Kotam, Kilit |
| Ovis orientalis Gmelin, 1774 | Declining, small population | Zengezur, Daralayaz, Ilanlidag |
| Parnassius apollo L., 1758 | Declining, rare | Around Serur |
| Papilio alexanor orientalis Rom., 1884 | Rare, declining | Araz river-bed – Ordubad |
| Panthera pardus (Linnaeus, 1758) | Rare, declining | Zengezur, top of Daralayaz mountain |
| Pterocles orientalis L., 1758 | Rare, rapid decling | Up to mid-mountain zone |
| Phodopechys gitadineus Licht, 1758 | Restricted habitat, rare | Julfa region, Daridag |
| Phrynocephalus helioscopus Engelmann et al, 1993 | Declining population, restricted habitat | Uzunoba, around Ordubad |
| Pelobates syriacus Boettger, 1889 | Rare, declining, endemic | Within the Arazsu reservoir |
| Rethera komarovi Chr., 1885 | Rare | Nahchivan regions, mountains |
| Rosalia alpina L., 1758 | Declining, relic species, | Serur, Shahbuz mountains |
| Rhinolophus euryale Blasius, 1853 | Restricted habitat, rare | Near Ordubad |
| Rhynchocalamus melanocephalus Engelmann et al, 1993 | Restricted habitat, rare | Around Ordubad, Kotam, Kilit |
| Salmo trutta fario Linneus, 1758 | Rare, declining population | Goy Gol, Sakkarsu, Ayrichay* |
| Thaleropis jonia Fisch., 1851 | Declining | Serur, Ordubad |
| Tomares romanovi Chr., 1882 | Transcaucasian sub-endemic | Serur, Shahbuz, Julfa, Ordubad |
| Testudo graeca iberica Pallas, 1814 | Small population, declining habitat | Mountains ranges |
| Tetraogallus caspicus Gmel., 1784 | Declining | Shahbuz, Ordubad, Culfa mountains |
| Vormela peregusna (Güldenstaeedt, 1770) | Rare | Araz plain |
| Vipera raddei raddei Boettger, 1890 | Restricted habitat, endemic | Ordubad, Kotam, Kilit, Nushnush mountain |
| Zegris menestho Men., 1832 | Transcaucasian endemic | Around Serur and Ordubad |
| Zygaena tamara Chr., 1889 | Declining, Transcaucasian | Serur, Julfa, Ordubad mountains |
| 20 - 9 | endemic | , |