

BIBLIOGRAPHY OF TURKISH CARNIVORES (MAMMALIA: CARNIVORA)

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ABSTRACT

In this study, accessible publications on Turkish carnivores up to date were compiled. They were included into three groups selected according to three main topics, namely taxonomy and distribution, ecology, and other biological features.

INTRODUCTION

In Turkey, classis of *Mammalia* is represented by *Insectivora*, *Chiroptera*, *Lagomorpha*, *Rodentia*, *Carnivora*, *Pinnipedia*, *Artiodactyla* and *Cetacea* orders.

A considerable amount of knowledge about the Turkish mammals is merely preserved on the library shelves of various governmental institutions because the results from investigations conducted by those bodies generally appear for the public use only in their local publications which has no easy and academically accustomed access.

Having no planned database, the intermittently issued periodicals do not seem to be sufficient for use as literature sources. Therefore, a literature survey which is essentially made before a scientific research yields only a limited part of the studies (to that date) thus, probably leads to double time and effort cost or so called 'a misapplications' to the researches (in question) which might have been already undertaken or carried out.

A total of 429 literature regarding the studies conducted between 1843-1968 was cited in the work titled 'A Bibliography of the Turkish Fauna' published in 1972 by The Scientific and Technical Research Council of Turkey.

It seems compulsory to organise and elaborate the accumulated information to date because the need is growing to assess the last status of the Turkish carnivores which cannot be properly investigated basing on collected many specimens any more due to marked declines in the populations with many species facing the threat of extinctions.

The aim of this study is to contribute to the researches on *Carnivora* and the formation of the bibliography of Turkish Mammalian Fauna.

MATERIAL AND METHOD

To prepare the bibliography concerning the order *Carnivora* of Turkey, data were gathered by collaborating to libraries and archives of Ankara University Faculty of Science, Faculty of Letters, Faculty of Agriculture, Faculty of Veterinary; Istanbul University Faculty of Science; Gazi University Faculty of Arts and Sciences; National Library; Ministry of Forestry; Ministry of Environment; Ministry of Agriculture and Rural Affairs; The Scientific and Technical Research Council of Turkey; Higher Education Council of Turkey; General Directory of Mineral Research and Exploration of Turkey; Grand National Assembly of Turkey and their relevant institutions to prepare the bibliography concerning order *Carnivora* of Turkey. Each publication was evaluated and included into groups of three main topics as given in Table 1.

RESULTS

Our preliminary evaluation according to literary on Turkish carnivores obtained is given in Table 1.

Table 1. The list of the literature grouped according to the topics relating to Turkish carnivore species (Each figure indicates the number of references cited)

Species	Distribution and Taxonomy	Ecology	Other biological features
<i>Canis lupus</i> Linnaeus, 1758	2,4,5,6,9,13,20,32,35,36,46,47,48,52,56,57,58,59,63,64,65,71,73,77,84,86,87,89,106,110,111,121,123,136,147,148,152,164,167,171,183,200,213,220,224,225,226,229,230,231	86,87,89,121,123,148,220,225,226	2,4,6,59,62,86,87,89,105,123,220,224,226
<i>Canis aureus</i> Linnaeus, 1758	4,6,9,35,36,41,46,47,48,56,57,58,59,71,76,77,84,86,87,89,106,110,111,121,123,129,146,147,148,166,186,200,209,221,225,226,229,230,231	86,87,89,121,123,148,221,225,226	4,6,86,87,89,105,123,142,144,221,226

Table 1. (Continued) The list of the literature grouped according to the topics relating to Turkish carnivore species (Each figure indicates the number of references cited)

<i>Vulpes vulpes</i> (Linnaeus, 1758)	4,6,9,15,18,32,35,36,40,41,43,46,47, 48,52,54,55,56,57,58,59,63,71,77,84, 86,87,89,92,111,121,123,129,147,148, 164,189,190,192,193,200,209,214, 215,219,225,226,228,230,231	86,87,89, 92,121,123, 148,219, 225,226, 228	4,6,59,62,86,87, 89,92,105,123, 139,140,141, 144,219,226
<i>Ursus arctos</i> Linnaeus, 1758	4,6,9,13,19,29,32,35,36,39,42,46,47, 48,52,56,57,58,59,71,76,77,84,86,87, 89,90,91,106,110,111,121,123,136, 147,164,167,171,172,178,179,181, 188,195,200,209,210,225,226,229, 230,231,232,236,240	86,87,89, 91,123,172, 225,226	4,6,17,59, 62,86,87,89,91, 105,121,123, 172,226
<i>Mustela erminae</i> Linnaeus, 1758	6,32,147,152,155,163,164,165,222, 225,226,228,231	222,225, 226,228	6,105,222,226
<i>Mustela nivalis</i> Linnaeus, 1766	4,6,31,32,35,36,52,56,57,58,66,77,99, 100,111,121,123,147,160,166,177, 189,194,222,225,226,228,231	123,222, 225,226, 228	4,6,105,222, 226
<i>Mustela putorius</i> Linnaeus, 1758	6,9,46,56,86,87,89,111,117,118,121, 123,127,147,189,222,225,226,231	86,87,89, 127,222, 225,226	6,86,87,89,105, 127,144,222, 226
<i>Vormela peregusna</i> Guldenstäedt,1770	4,6,14,35,36,56,57,58,77,86,87,89, 111,114,115,121,123,129,130,146, 148,158,159,165,185,189,200,226, 228,230,231	86,87,89, 121,123, 226,228	4,6,226
<i>Martes martes</i> (Linnaeus, 1758)	3,4,6,9,13,16,35,36,40,41,46,47,48, 56,57,58,59,71,86,87,89,90,96,111, 121,123,147,152,166,174,200,225, 226,228,230,231,235	86,87,89, 174,225, 226,228	4,6,59,86,87,89, 105,141,144 166,174,226
<i>Martes foina</i> (Erxleben, 1777)	1,3,4,5,6,9,24,35,36,40,41,44,46,47, 48,52,56,57,58,59,71,77,86,87,89,90, 116,118,121,123,130,147,162,163, 164,174,189,200,225,226,228,230, 231	86,87,89, 121,123, 174,225, 226,228	4,6,86,87,89, 105,140,144, 174,226
<i>Meles meles</i> (Linnaeus, 1758)	1,4,5,6,9,24,27,35,36,40,46,47,48,52, 56,57,58,59,71,77,84,86,87,89,90,110, 111,121,123,126,130,136,147,166, 177,200,209,223,225,226,228,230, 231,241,242	121,123, 225,226, 228	4,6,59,86,87,89 126,144,223, 226
<i>Lutra lutra</i> (Linnaeus, 1758)	4,6,9,35,36,44,46,47,48,52,56,57,58, 59,71,77,84,86,87,89,90,111,121,123, 136,147,149,151,152,164,200,225, 228,230,231	86,87,89, 121,123, 149,225, 228	4,6,44,59,86,87 89,105
<i>Herpestes ichneumon</i> (Linnaeus, 1758)	4,5,6,26,41,52,53,56,70,77,106,110, 111,121,123,225,226,228	70,225,226, 228	4,6,70,226

Table 1. (Continued) The list of the literature grouped according to the topics relating to Turkish carnivore species (Each figure indicates the number of references cited)

<i>Hyaena hyaena</i> (Linnaeus, 1758)	4,6,9,29,30,38,41,52,56,57,58,59,64,65,68,71,77,83,84,93,95,111,121,123,135,147,168,169,170,173,182,191,199,200,225,226,229,230,231,232	93,225,226	4,6,16,93,94,169,173,226
<i>Felis silvestris</i> (Schreber,1777)	4,6,9,19,27,30,32,35,36,41,46,47,48,52,56,57,58,59,71,74,75,76,77,83,90,106,110,111,121,123,131,146,147,148,152,165,169,170,175,177,189,200,201,203,225,226,229,230,231	121,123,175,225,226	4,6,143,144,145,175,226
<i>Felis lynx</i> Linnaeus, 1758	4,5,6,9,16,30,32,41,44,46,47,48,52,56,57,58,59,68,71,77,83,84,86,87,89,90,93,106,110,111,121,123,134,136,147,155,176,177,200,218,225,226,229,230,231	86,87,89,93,121,176,225,226	4,6,17,86,87,89,93,105,176,226
<i>Felis caracal</i> Schreber,1776	4,6,9,45,46,47,48,52,56,59,77,83,84,86,87,89,111,113,118,121,123,147,152,200,202,226,229,230,231	86,87,89,226	4,6,226
<i>Panthera pardus</i> (Linnaeus, 1758)	4,6,7,9,19,21,29,30,32,33,34,38,40,41,43,46,47,48,51,52,56,57,58,59,67,68,71,72,76,77,78,82,83,84,86,87,89,91,106,107,108,109,110,111,118,119,121,122,123,136,137,147,152,165,184,200,202,206,213,225,226,229,230,231,233,234,237	86,87,89,91,121,123,225,226	4,6,17,62,91,226

CONCLUSION

Although it is known that 18 carnivore species exist in Turkey, there are some additional records (6, 8, 22, 23, 25, 41, 52, 53, 56, 62, 64, 65, 78, 79, 80, 81, 83, 97, 105, 111, 120, 121, 123, 133, 138, 145, 180, 187, 198, 208, 226) about occurrence of *Panthera tigris*, *Panthera leo*, *Felis manul*, *Martes zibellina*, *Acinonyx jubutatus* and *Genetta genetta* in Turkey in the past.

Because the literature themselves (10,12, 28, 29, 37, 69, 85, 88, 98, 102, 103, 112, 132, 150, 151, 156, 157, 196, 197, 204, 205, 207, 211, 216, 238, 239) could not be obtained but their citation in relevant publications to Turkish carnivores, we were unable to include them into groups in terms of their topics.

Moreover we did also not take some other literature (11, 49, 50, 60,

61, 104, 124, 125, 128, 153, 154, 212, 217, 227) into consideration which were far from giving sufficient information referring no more than some general attributions.

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