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Macrofungi of Samsun Province

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Abstract: A total of 169 species of macrofungi were determined in Samsun province between 1997 and 2001, of which 19 belonged to the *Ascomycota*, 149 to the *Basidiomycota* and one to the *Myxomycota*. Among these, 51 species were edible, 67 inedible, 28 edible but not worthwhile or best avoided because of possible confusion with poisonous species, and 12 species were poisonous. The edibility of 11 species was unknown.

Key Words: Macrofungi, mycoflora, taxonomy, Turkey

Samsun İli Makromantarları

Özet: Samsun ilinde 1997-2001 yıllarında yapılan araştırmada, 19 adedi *Ascomycota*, 149 adedi *Basidiomycota* ve 1 adedi *Myxomycota* bölümlerine ait toplam 169 makromantar türü belirlenmiştir. Bunlardan 51'inin yenen, 67'sinin yenmeyen, 28'inin yenen fakat değersiz olan veya zehirli türlerle karıştırılabileceğinden sakınılması tavsiye edilen, 12'sinin ise zehirli tür olduğu saptanmıştır. 11 türün yenme durumu ise bilinmemektedir.

Anahtar Sözcükler: Makromantarlar, mikoflora, taksonomi, Türkiye

Introduction

Macrofungi are important components of forest ecosystems. Although some cause white- or brown-rot on trees, most of them are ectomycorrhizal and are important for their mutualism, since they enhance nutrient uptake from the soil. In addition, with their high contents of minerals and vitamins, some edible species have nutritional value. The cultivated mushroom *Agaricus bisporus* (Lge.) Sing., a humicolous, non-mycorrhizal fungus, is one of the best known species in this group. Determining the mycobiota of a region is very important in order to catalogue potentially parasitic ones and effectively utilise the mycorrhizal and edible ones. A number of studies have been performed to determine the mycobiota of Turkey (Baytop, 1994; Mat, 1998) and a checklist of *Agaricales* found in Turkey was prepared by Sesli & Baydar (1996).

Samsun province has a rich mycobiota because of its mild climate and rich vegetation. In previous studies

conducted in the province, a total of 20 species were recorded, of which 13 are edible, four inedible and three poisonous (Niemala & Uotila, 1977; Watling & Gregory, 1977; Öder 1986; 1988; Gücin & Dülger, 1994; Sesli, 1999). There was no doubt that more species could be found in this area by detailed studies, and our previous studies increased the total number of macrofungus species to 91 (Hatat & Pekşen, 2000; Pekşen & Karaca, 2000). Since one of these papers related only to species of interest and the other to edible fungi, this paper lists all the macrofungi from the province collected between 1997 and 2001.

Materials and Methods

In this study, fungi were collected during field trips carried out around Samsun in different seasons between 1997 and 2001. The habitat and morphological characteristics of the macrofungi found in various localities were recorded and the samples were

photographed for later identification. The microscopic features of the species were determined in the laboratory. The fungi were identified according to the relevant literature (Breitenbach & Kranzlin, 1984; Pacioni, 1985; Arora, 1986; Garnweidner, 1994; Phillips, 1994; Courtecuisse & Duhem, 1995; Bessette et al., 1997). Exsiccatae of the fungal samples were kept in the personal herbaria of the authors. Citations of the authors' names presented are standardised according to Kirk & Ansell (1992).

Results

The species of macrofungi determined during the surveys performed in Samsun province between 1997 and 2001 are listed below. The localities, collection dates, edibility and herbarium numbers of the samples are also given. The taxonomic arrangement follows Ainsworth and Bisby's Dictionary of the Fungi, 8th ed. (Hawksworth et al., 1995).

ASCOMYCOTA

Diatrypales

Diatrypaceae

1. *Diatrype disciformis* (H.Hoffm.) Fr.

Bafra, Aydındere, 20.06.1997, Vezirköprü, Duruçay, 25.10.1998, inedible, AG57.

Hypocreales

Hypocreaceae

2. *Nectria cinnabarina* (Tode.:Fr.) Fr.

Gelemen, Haciosman Nature Protection Area, 01.11.1999, inedible, AG 4.

Leotiales

Geoglossaceae

3. *Spathularia flavida* Pers.:Fr.

Vezirköprü, 12.07.1998, inedible, AG311.

Leotiaceae

4. *Bisporella citrina* (Batsch:Fr.) Korf & S.E.Carp., Syn. *Calycella citrina* ([Hedw.] Fr.) Boud.

Vezirköprü, Kunduz Forest, 24.10.1998, inedible, AG296.

Pezizales

Helvellaceae

5. *Helvella atra* Holmskj.:Fr., Syn. *Leptopodia atra* (J.König:Fr.) Boud.

Gelemen, Haciosman Nature Protection Area, 02.06.1998, 01.11.1999, edibility unknown (possibly poisonous when raw), AG265.

6. *Helvella crispa* (Scop.:Fr.) Fr.

Ondokuz Mayıs University Campus Site, 21.11.1997, 16.11.1998, Gelemen, Haciosman Nature Protection Area, 02.11.1998, 29.11.1999, edible (possibly poisonous when raw), AG216.

7. *Helvella leucopus* Pers.

Ondokuz Mayıs, Yörükler Village, 08.04.1998, edible (possibly poisonous when raw), AG249.

8. *Paxina acetabulum* (L. ex St. Amans) Kuntze, Syn. *Helvella acetabulum* (L.) Fuckel

Ondokuz Mayıs, Yörükler Village, 16.04.1998, edible (possibly poisonous when raw), AG253.

Morchellaceae

9. *Mitrophora semilibera* (DC.:Fr.) Lév., Syn. *Morchella semilibera* DC.:Fr.

Gelemen, Haciosman Nature Protection Area, 29.04.1997, edible (not worthwhile), AG67.

10. *Morchella elata* Fr.

Ondokuz Mayıs, Yörükler Village, 08.04.1998, edible, AG251.

11. *Morchella esculenta* (L.) Pers.

Ondokuz Mayıs, Yörükler Village, 16.04.1998, edible, AG250.

12. *Verpa conica* (O.F.Müll.:Fr.) Swartz

Gelemen, Haciosman Nature Protection Area, 29.04.1997, Ondokuz Mayıs, Yörükler Village, 16.04.1998, edible (possibly poisonous when raw), AG69.

Otideaceae

13. *Humaria hemisphaerica* (H.A.Wigg.:Fr.) Fuckel, Syn. *Peziza hemisphaerica* H.A.Wigg. ex S.F.Gray, *Lachnea hemisphaerica* (H.A.Wigg.:Fr.) Gill., *Mycolachnea hemisphaerica* (H.A.Wigg.:Fr.) Maire

Ondokuz Mayıs, Yörükler Village, 05.11.1998, Gelemen, Haciosman Nature Protection Area, 29.11.1999, inedible, AG277.

14. *Scutellinia scutellata* (L.:Fr.) Lambotte

Gelemen, Haciosman Nature Protection Area, 20.05.1997, 02.06.1998, Vezirköprü, Kunduz Forest, 12.07.1998, inedible, AG77.

Sarcoscyphaceae

15. *Sarcoscypha coccinea* Sacc., Syn. *Peziza coccinea* Fr.

Gelemen, Haciosman Nature Protection Area, 22.01.1998, 28.12.1998, edible, AG241.

Xylariales

Xylariaceae

16. *Daldinia concentrica* (Bolt.:Fr.) Ces. & De Not.

Gelemen, Haciosman Nature Protection Area, 29.04.1997, on dead wood, inedible, AG65.

17. *Hypoxylon fragiforme* (Pers.:Fr.) J. Kickx f., Syn. *H. coccineum* Bull.

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, Gelemen, Haciosman Nature Protection Area, 01.03.1998, Vezirköprü, Duruçay, 25.10.1998, on dead wood, inedible, AG161.

18. *Xylaria hypoxylon* (L.) Grev., Syn. *Xylosphaera hypoxylon* (L.) Dumort.

Vezirköprü, Kunduz Forest, 24.10.1998, on dead wood, inedible, AG201.

19. *Xylaria polymorpha* (Pers.:Fr.) Grev.

Gelemen, Haciosman Nature Protection Area, 06.05.1997, 03.08.1998, on dead wood, inedible, AG74.

BASIDIOMYCOTA

Agaricales

Agaricaceae

20. *Agaricus bisporus* (Lge.) Sing.

Ondokuz Mayıs University Campus Site, 31.10.1997, edible, AG212.

21. *Agaricus campestris* L.:Fr.

Ondokuz Mayıs University Campus Site, 31.10.1997, edible, AG211.

22. *Lepiota brunneo-incarnata* Chod. & Mart.

Gelemen, Haciosman Nature Protection Area, 01.11.1999, poisonous, AG147.

23. *Lepiota cristata* (Bolt.:Fr.) P.Kumm.

Bafra, Karaköy, 02.11.1998, inedible, AG167.

24. *Lepiota konradii* Huijsman ex P.D.Orton, Syn. *L. excoriata* var. *konradii* Huijsman, *Macrolepiota konradii* (Huijsman ex P.D.Orton) M.M.Moser

Çarşamba, Tavluk Village, 24.10.1998, edible, AG102.

25. *Lepiota procera* (Scop.:Fr.) S.F.Gray, Syn. *Macrolepiota procera* (Scop.:Fr.) Sing., *Leucocoprinus procerus* (Scop.:Fr.) Pat.

Vezirköprü, Asatderesi, 30.08.1997, Bafra, Karaköy, 21.10.1998, Ondokuz Mayıs, 26.10.1999, 03.11.2000, edible, AG103.

Amanitaceae

26. *Amanita citrina* (Schaeff.:Fr.) S.F.Gray, Syn. *Amanita mappa* (Batsch:Fr.) Quéf.

Ondokuz Mayıs, Yörükler Village, 31.10.1998, 05.11.1998, Gelemen, Haciosman Nature Protection Area, 01.10.1999, inedible, AG306.

27. *Amanita pantherina* (DC.:Fr.) Krmh.

Ondokuz Mayıs, Elmaçukuru, 29.09.1997, Ondokuz Mayıs, Yörükler Village, 05.11.1998, poisonous, AG164.

28. *Amanita phalloides* (Vaill.:Fr.) Link

Ondokuz Mayıs University Campus Site, 05.11.1998, Ondokuz Mayıs, Yörükler Village, 26.11.1998, poisonous, AG308.

29. *Amanita rubescens* (Pers.:Fr.) S.F.Gray, Syn. *A. pseudorubescens* Herrfurth

Salıpazarı, Karaman Village, 09.10.1997, edible when cooked but best avoided due to possible confusion with poisonous species, AG188.

30. *Amanita solitaria* (Bull.:Fr.) Mérat, Syn. *Amanita strobiliformis* (Paulet) Bertillon

Vezirköprü, Kunduz Forest, 12.07.1998, edible but best avoided due to possible confusion with poisonous species, AG275.

31. *Amanita vaginata* (Bull.:Fr.) Lam., Syn. *Amanitopsis vaginata* (Bull.:Fr.) Roze

Vezirköprü, Kunduz Forest, 12.07.1998, Gelemen, Haciosman Nature Protection Area, 02.11.1998, edible but best avoided due to possible confusion with poisonous species, AG276.

Bolbitiaceae

32. *Agrocybe cylindracea* (DC.:Fr.) Maire, Syn. *A. aegerita* (V.Brig.) Sing., *Pholiota aegerita* (V.Brig.) Qué.

Gelemen, Haciosman Nature Protection Area, 06.05.1997, 01.11.1999, Ondokuz Mayıs, Yörükler Village, 16.04.1998, edible, AG257.

Coprinaceae

33. *Coprinus atramentarius* (Bull.:Fr.) Fr., Syn. *C. fuscescens* Schaeff.:Fr.

Gelemen, 05.11.1998, Ondokuz Mayıs, Yörükler Village, 05.11.1998, edible but not to be taken with alcohol, AG190.

34. *Coprinus comatus* (O.F.Müll.:Fr.) S.F.Gray.

Salıpazarı, Çağlayan Village, 09.10.1997, Bafra, Adaköy, 19.11.1997, Ondokuz Mayıs University Campus Site, 20.11.1997, 05.11.1998, 02.11.1999, edible when young, AG157.

35. *Coprinus disseminatus* (Pers.:Fr.) S.F.Gray, Syn. *Psathyrella disseminata* (Pers.:Fr.) Qué.

Vezirköprü, Kunduz Forest, 13.07.1997, Ondokuz Mayıs, Yörükler Village, 25.10.1998, Gelemen, Haciosman Nature Protection Area, 01.10.1999, edible (not worthwhile), AG252.

36. *Coprinus domesticus* (Bolt.:Fr.) S.F.Gray

Samsun City Centre, 05.11.1998, 02.03.1999, inedible, AG258.

37. *Coprinus micaceus* (Bull.:Fr.) Fr.

Vezirköprü, Asatderesi, 30.08.1997, Salıpazarı, Karaman Village, 09.10.1997, Ondokuz Mayıs, Yörükler Village, 16.04.1998, Gelemen, Haciosman Nature Protection Area, 30.04.1998, 29.06.1998, edible (possibly poisonous if taken with alcohol), AG112.

38. *Coprinus plicatilis* (Curtis:Fr.) Fr.

Ondokuz Mayıs, Yörükler Village, 16.04.1998, Gelemen, Haciosman Nature Protection Area, 02.10.1998, edible (not worthwhile), AG132.

39. *Psathyrella lacrymabunda* (Bull.) M.M.Moser, Syn. *Lacrymaria lacrymabunda* (Bull.:Fr) Pat., *Lacrymaria*

velutina (Pers.:Fr.) Kondrad & Maubl., *Psathyrella velutina* (Fr.) Sing., *Hypholoma velutinum* (Pers.:Fr.) P.Kumm.

Ondokuz Mayıs, Yörükler Village, 16.04.1998, Ondokuz Mayıs University Campus Site, 09.06.1997, 23.10.1998, Gelemen, Haciosman Nature Protection Area, 01.11.1999, edible (not good), AG34.

40. *Psathyrella microrhiza* (Lasch:Fr.) Konrad & Maubl., Syn. *Psathyra microrhiza* (Lasch) P.Kumm.

Gelemen, 05.11.1998, edibility unknown, AG305.

Entolomataceae

41. *Clitopilus prunulus* (Scop.:Fr.) P.Kumm., Syn. *Paxillopsis prunulus* (Scop.:Fr.) Lge.

Gelemen, Haciosman Nature Protection Area, 02.11.1998, 01.10.1999, Ondokuz Mayıs, Yörükler Village, 26.11.1998, edible, AG310.

42. *Nolanea lucida* P.D.Orton

Gelemen, Haciosman Nature Protection Area, 31.03.1998, Ondokuz Mayıs, Yörükler Village, 16.04.1998, inedible, AG248.

Galeropsidaceae

43. *Gastrocybe lateritia* Watling, Syn. *Galeropsis lateritia* (Watling) Moreno, Heykoop & Illana

Ondokuz Mayıs University Campus Site, 01.09.1998, 21.06.1999, 16.07.1999, inedible, AG282.

Hygrophoraceae

44. *Camarophyllus virgineus* (Wulf.:Fr.) P.Kumm., Syn. *Hygrocybe nivea* (Scop.) Murrill

Ondokuz Mayıs, 27.11.1997, Gelemen, Haciosman Nature Protection Area, 22.01.1998, 29.11.1999, edible, AG226.

45. *Hygrocybe nigrescens* (Qué.) Kühner, Syn. *H. pseudoconica* Lge. *Hygrophorus nigrescens* (Qué.) Qué.

Gelemen, Haciosman Nature Protection Area, 05.06.1997, Ondokuz Mayıs, 29.09.1997, edible (not good), AG80.

46. *Hygrocybe psittacina* (Schaeff.:Fr.) P.Kumm., Syn. *Hygrophorus psittacinus* (Schaeff.:Fr.) Fr.

Ondokuz Mayıs, 27.11.1997, edible (not good), AG225.

Pluteaceae

47. *Volvariella speciosa* (Fr.:Fr.) Sing., Syn. *V. gloiocephala* (DC.:Fr.) Boekhout & Enderle, *Volvariella speciosa* (Fr.:Fr.) P.Kumm.

Ondokuz Mayıs University Campus Site, 10.11.1998, 22.12.1998, edible (best avoided due to possible confusion with poisonous *Amanita* species), AG307.

Strophariaceae

48. *Hypholoma fasciculare* (Huds.:Fr.) P.Kumm., Syn. *Geophila fascicularis* (Huds.:Fr.) Quél., *Naematoloma fasciculare* (Huds.:Fr.) P.Karst.

Gelemen, Haciosman Nature Protection Area, 05.06.1997, Ondokuz Mayıs University Campus Site, 09.06.1997, poisonous, AG145.

49. *Hypholoma sublateritium* (Schaeff.:Fr.) Quél., Syn. *Naematoloma sublateritium* (Fr.) P.Karst.

Veziirköprü, Kunduz Forest, 24.10.1998, inedible, AG295.

50. *Stropharia aeruginosa* (M.A.Curtis:Fr.) Quél.

Veziirköprü, Asatderesi, 30.08.1997, Kunduz Forest, 24.10.1998, poisonous, AG126.

Tricholomataceae

51. *Armillaria mellea* (Vahl:Fr.) P.Kumm., Syn. *Armillariella mellea* (Vahl:Fr.) P.Karst., *Agaricus melleus* Vahl:Fr., *Clitocybe mellea* (Vahl:Fr.) Ricken

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, Veziirköprü, Duruçay, 25.10.1998, Ondokuz Mayıs University Campus Site, 05.11.1998, edible when cooked, AG172.

52. *Armillaria ostoyae* (Romagn.) Herink, Syn. *Armillariella polymyces* (Pers.) Sing. & Clémençon, *Armillaria obscura* (Pers.) Herink

Veziirköprü, Kunduz Forest, 24.10.1998, Haciosman Nature Protection Area, 02.11.1998, edible, AG152.

53. *Armillaria tabescens* Scop.

Ondokuz Mayıs University Campus Site, 20.10.1998, Ondokuz Mayıs, 17.09.1999, edible, AG151.

54. *Clitocybe geotropa* (Bull.:Fr.) Quél., Syn. *C. maxima* (Fl. Wett.:Fr.) Quél

Veziirköprü, Kunduz Forest, 24.10.1998, Ondokuz Mayıs, 19.11.1999, edible, AG297.

55. *Clitocybe hydrogramma* (Bull.:Fr.) P.Kumm.

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, Ondokuz Mayıs University Campus Site, 25.05.1998, Gelemen, Haciosman Nature Protection Area, 02.11.1998, edibility unknown, AG180.

56. *Clitocybe odora* (Bull.:Fr.) P.Kumm.

Ondokuz Mayıs University Campus Site, 18.10.1999, edible, AG319.

57. *Clitocybe phyllophila* (Fr.) P.Kumm.

Veziirköprü, Asatderesi, 30.08.1997, edibility unknown, AG130.

58. *Collybia dryophila* (Bull.:Fr.) P.Kumm.

Gelemen, Haciosman Nature Protection Area, 30.04.1998, 01.10.1999, Ondokuz Mayıs University Campus Site, 18.10.1999, edible (not worthwhile), AG263.

59. *Flammulina ononidis* Arnolds

Gelemen, Haciosman Nature Protection Area, 22.01.1998, inedible, AG242.

60. *Laccaria amethystina* Bull. ex Hooker, Syn. *Laccaria laccata* var. *amethystina* ([Huds.] Cooke) Rea]

Salıpazarı, Karaman Village, 09.10.1997, Veziirköprü, Ondokuz Mayıs University Campus Site, 13.11.1997, 05.11.1998, Kunduz Forest, 12.07.1998, edible, AG169.

61. *Laccaria laccata* (Scop.:Fr.) Berk. & Broome, Syn. *Clitocybe laccata* (Scop.:Fr.) P.Kumm.

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, Yörükler Village, 31.10.1998, Gelemen, Haciosman Nature Protection Area, 02.06.1998, 02.11.1998, edible, AG170.

62. *Lepista nuda* (Bull.:Fr.) Cooke, Syn. *Tricholoma nudum* (Bull.:Fr.) P.Kumm., *Rhodopaxillus nudus* (Bull.:Fr.) Maire

Ondokuz Mayıs, 26.11.1997, Yörükler Village, 26.11.1998, 07.12.1998, edible when cooked, AG233.

63. *Lepista sordida* (Schum.:Fr.) Sing., Syn. *Tricholoma sordidum* (Fr.) P.Kumm.

Ondokuz Mayıs, Yörükler Village, 16.04.1998, Gelemen, Haciosman Nature Protection Area, 28.12.1998, 01.11.1999, edible, AG256.

64. *Lyophyllum decastes* (Fr.:Fr.) Sing., Syn. *Clitocybe decastes* (Fr.:Fr.) P.Kumm., *Tricholoma aggregatum* (Schaeff. ex Secr.) Gill.

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, Gelemen, Haciosman Nature Protection Area, 01.11.1999, edible, AG174.

65. *Marasmius calopus* (Pers.:Fr.) Fr.

Havza, Orhangazi, 14.09.1997, Ondokuz Mayıs University Campus Site, 31.10.1997, inedible, AG144.

66. *Marasmius candidus* [(Bolt.)] Fr., Syn. *Marasmiellus candidus* (Fr.) Sing.

Gelemen, Haciosman Nature Protection Area, 26.08.1997, 02.06.1998, 29.06.1998, 01.09.1998, inedible, AG82.

67. *Marasmius oreades* (Bolt.:Fr.) Fr.

Ondokuz Mayıs, 29.09.1997, Gelemen, 27.10.1997, Ondokuz Mayıs University Campus Site, 20.11.1997, 22.11.1999, edible, AG179.

68. *Marasmius rotula* (Scop.:Fr.) Fr., Syn. *Androsaceus rotula* (Scop.:Fr.) Pat.

Gelemen, Haciosman Nature Protection Area, 20.05.1997, 30.04.1998, 01.09.1998, 01.10.1999, inedible, AG78.

69. *Marasmius wynnei* Berk. & Br., Syn. *Marasmius globularis* Fr. apud Qué. l.

Vezirköprü, Duruçay, 30.08.1997, Salıpaazarı, Çağlayan Village, 09.10.1997, inedible, AG109.

70. *Mycena galopus* (Pers.:Fr.) P.Kumm.

Vezirköprü, Kunduz Forest, 24.10.1998, Gelemen, Haciosman Nature Protection Area, 02.11.1998, edible (reported to be poisonous in some studies), AG303.

71. *Mycena inclinata* (Fr.) Qué. l.

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, inedible, AG183.

72. *Mycena leucogala* (Cooke) Sacc., Syn. *M. galopus* var. *nigra* Rea

Gelemen, Haciosman Nature Protection Area, 01.11.1999, edible (not worthwhile), AG39.

73. *Oudemansiella mucida* (Schrad.:Fr.) Hoehnel, Syn. *Mucidula mucida* (Schrad.:Fr.) Pat., *Collybia mucida* (Schrad.) Qué. l., *Armillaria mucida* (Schrad.:Fr.) Qué. l.

Vezirköprü, Asatderesi, 30.08.1997, Duruçay, 25.10.1998, edible, AG135.

74. *Oudemansiella radicata* (Relhan:Fr.) Sing., Syn. *Collybia macroua* (Scop.) Fr.

Gelemen, Haciosman Nature Protection Area, 02.06.1998, 29.06.1998, Havza, Kılavuz Forest, 13.07.1998, Vezirköprü, Kunduz Forest, 12.07.1998, edible (not worthwhile), AG268.

75. *Tricholoma fracticum* (Britzelmayr) Kreisel

Ondokuz Mayıs University Campus Site, 27.11.1997, 15.12.1998, edibility unknown, AG221.

76. *Tricholoma scalpturatum* (Fr.) Qué. l.

Gelemen, Haciosman Nature Protection Area, 30.04.1998, 01.11.1999, edibility unknown, AG236.

77. *Tricholoma sejunctum* var. *coniferarum* Bon

Ondokuz Mayıs, 27.11.1997, 23.10.1998, 26.11.1999, 22.11.2000, inedible, AG227.

78. *Tricholoma squarrulosum* Bres.

Ondokuz Mayıs, 26.11.1997, Gelemen, Haciosman Nature Protection Area, 02.11.1998, edible, AG264.

79. *Tricholoma sulphureum* (Bull.:Fr.) P.Kumm., Syn. *T. bufonium* (Pers.:Fr.) Gill.

Ondokuz Mayıs University Campus Site, 05.11.1998, inedible, maybe poisonous, AG309.

80. *Tricholoma terreum* (Schaeff.:Fr.) P.Kumm.

Ondokuz Mayıs University Campus Site, 20.11.1997, 15.12.1998, 22.11.2000, Vezirköprü, Duruçay, 25.10.1998, Ondokuz Mayıs, Yörükler Village, 05.11.1998, 26.11.1998, edible, AG3.

Auriculariales

Auriculariaceae

81. *Auricularia auricula-judae* (Bull.:Fr.) Wettst., Syn. *Auricularia auricula* Hook. Underwood

Gelemen, Haciosman Nature Protection Area, 02.11.1998, edible, AG312.

82. *Auricularia mesenterica* (Dicks.:Fr.) Pers.

Gelemen, Haciosman Nature Protection Area, 29.04.1997, Ondokuz Mayıs, Yörükler Village, 14.03.1998, inedible, AG66.

Boletales

Boletaceae

83. *Boletus erythropus* (Fr.) Krmbh., Syn. *Boletus luridus* var. *erythropus* (Fr.), *B. luridiformis* Rostk., *B. miniatoporus* Secr.

Veziroköprü, Duruçay, 30.08.1997, Ondokuz Mayıs, Yörükler Village, 21.10.1998, Ondokuz Mayıs University Campus Site, 23.10.1998, edible (reported to be poisonous in some studies), AG111.

84. *Boletus porosporus* (Imler) Watling, Syn. *Xerocomus porosporus* Imler

Veziroköprü, Kunduz Forest, 12.07.1998, edible (not good), AG286.

85. *Boletus satanas* Lenz

Veziroköprü, Asatderesi, 30.08.1997, poisonous, AG105.

86. *Suillus collinitus* Fr., Syn. *S. flurji* Huijsman

Ondokuz Mayıs University Campus Site, 21.11.1997, 25.11.1998, edibility unknown, AG198.

87. *Suillus granulatus* (L.:Fr.) Kuntze

Veziroköprü, Asatderesi, 30.08.1997, edible, AG108.

Gomphidiaceae

88. *Chroogomphus rutilus* (Schaeff.:Fr.) O.K.Miller, Syn. *Gomphidius rutilus* (Schaeff.) Lund. & Nannf., *Gomphidius viscidus* (L.) Fr., *Agaricus rutilus* Schaeff.

Veziroköprü, Kunduz Forest, 24.10.1998, edible, AG195.

Omphalotaceae

89. *Omphalotus olearius* (DC.:Fr.) Sing., Syn. *Pleurotus olearius* (DC.:Fr.) Gill, *Clitocybe olearia* (Fr. ex DC.) Maire, *Omphalotus illudens* (Schwein.) Sacc.

Ondokuz Mayıs, 17.09.1999, poisonous, AG318.

Paxillaceae

90. *Paxillus atrotomentosus* (Batsch:Fr.) Fr.

Ondokuz Mayıs, 23.10.1998, inedible, AG302.

91. *Paxillus involutus* (Batsch:Fr.) Fr.

Veziroköprü, Asatderesi, 30.08.1997, Ondokuz Mayıs, Yörükler Village, 21.10.1998, Gelemen, Haciosman Nature Protection Area, 01.11.1999, poisonous, AG122.

Cantharellales

Cantharellaceae

92. *Cantharellus cibarius* Fr.

Salıpazarı, Karaman Village, 09.10.1997, Veziroköprü, 07.06.1998, Çarşamba, 17.06.1998, edible, AG186.

93. *Cantharellus ferruginascens* P.D.Orton, Syn. *C. cibarius* var. *ferruginascens* (P.D.Orton) Courtec.

Veziroköprü, Asatderesi, 01.09.1997, Kunduz Forest, 12.07.1998, edible, AG117.

Clavariaceae

94. *Clavulinopsis corniculata* (Fr.) Corner, Syn. *Clavaria corniculata* Fr.

Gelemen, Haciosman Nature Protection Area, 22.01.1998, 01.11.1999, Ondokuz Mayıs, 26.10.1999, 29.11.1999, edible, AG240.

95. *Clavulinopsis helvola* (Pers.:Fr.) Corner, Syn. *Clavaria helvola* Fr.

Gelemen, Haciosman Nature Protection Area, 02.11.1998, inedible, AG300.

Clavariadelphaceae

96. *Clavariadelphus pistillaris* (L.:Fr.) Fr., Syn. *Clavaria pistillaris* Fr.

Veziroköprü, Asatderesi, 30.08.1997, edible, AG113.

Clavulinaceae

97. *Clavulina cinerea* (Bull.:Fr.) Schroet., Syn. *Clavaria cinerea* Fr.

Gelemen, Haciosman Nature Protection Area, 01.11.1999, edible, AG271.

Craterellaceae

98. *Craterellus cornucopioides* (L.) Pers., Syn. *Cantharellus cornucopioides* L.:Fr.

Salıpazarı, Karaman Village, 09.10.1997, Veziroköprü, Kunduz Forest, 12.07.1998, Duruçay, 25.10.1998, edible, AG187.

99. *Pseudocraterellus undulatus* var. *crispus* (Sowerby) Courtec.

Salıpazarı, Karaman Village, 09.10.1997, edible, AG185.

Hydnaceae

100. *Hydnum repandum* L.:Fr.

Veziroköprü, Kunduz Forest, 12.07.1998, edible, AG279.

101. *Hydnum rufescens* Fr.

Veziroköprü, Asatderesi, 01.09.1997, edible, AG116.

Cortinariales

Cortinariaceae

102. *Gymnopilus junonius* (Fr.) P.D.Orton, Syn. *G. spectabilis* var. *junonius* (Fr.) Kühner & Romagn., *Pholiota spectabilis* (Fr.) P.Kumm.

Ondokuz Mayıs, Yörükler Village, 23.10.1998, 31.10.1998, inedible, AG304.

103. *Inocybe geophylla* (Sowerby:Fr.) P.Kumm.

Ondokuz Mayıs, 23.10.1999, poisonous, AG291.

104. *Inocybe geophylla* var. *lilacina* Gill.

Ondokuz Mayıs, 23.10.1999, poisonous, AG294.

Dacrymycetales

Dacrymycetaceae

105. *Dacrymyces stillatus* Nees:Fr., Syn. *D. deliquescens* (Mérat) Duby

Gelemen, Haciosman Nature Protection Area, 02.09.1998, inedible, AG283.

Fistulinales

Fistulinaceae

106. *Fistulina hepatica* Schaeff.:Fr., Syn. *F. buglossoides* (Huds.) Fr. Berk.

Havza, Orhangazi, 28.08.1998, Ondokuz Mayıs, Yörükler Village, 03.10.1998, edible when young, AG158.

Ganodermatales

Ganodermataceae

107. *Ganoderma adspersum* (S.Schulzer) Donk.

Gelemen, Haciosman Nature Protection Area, 06.05.1997, inedible, AG73.

108. *Ganoderma applanatum* (Pers. ex Wallr.) Pat., Syn. *Boletus applanatus* Pers., *Polyporus applanatus* Pers. ex Wallr., *Fomes applanatus* (Pers. ex Wallr.) Gill., *Polyporus megaloma* Lév., *Polyporus vegetus* Fr., *Elfvigia megaloma* (Lév.) Murrill

Gelemen, Haciosman Nature Protection Area, 29.04.1997, 22.01.1998, Ondokuz Mayıs, Yörükler Village, 14.03.1998, inedible, AG98.

109. *Ganoderma lucidum* (Leyss.:Fr.) P.Karst., Syn. *Boletus lucidus* Leyss., *Polyporus lucidus* Leyss.:Fr.

Gelemen, Haciosman Nature Protection Area, 06.05.1997, 29.06.1998, 28.04.1999, Ondokuz Mayıs, Yörükler Village, 14.03.1998, 31.10.1998, inedible, AG76.

Gomphales

Ramariaceae

110. *Ramaria aurea* (Schaeff.) Quél., Syn. *Clavaria aurea* Fr.

Veziirköprü, Kunduz Forest, 12.07.1998, edible (may have a laxative effect on some people), AG278.

111. *Ramaria flava* (Schaeff.:Fr.) Quél.

Veziirköprü, Asatderesi, 01.09.1997, edible (may have a laxative effect on some people), AG114.

112. *Ramaria formosa* (Pers.:Fr.) Quél., Syn. *Clavaria formosa* Fr.

Veziirköprü, Asatderesi, 01.09.1997, poisonous, AG115.

Hymenochaetales

Hymenochaetaceae

113. *Hymenochaeta rubiginosa* (Dicks.:Fr.) Lév., Syn. *Stereum rubiginosum* (Dicks.:Fr.) Fr., *Auricularia ferruginea* Bull., *Hymenochaete ferruginea* (Bull.:Fr.) Massee

Ondokuz Mayıs University Campus Site, 04.03.1997, inedible, AG12.

114. *Phellinus igniarius* (L.:Fr.) Quél., Syn. *Polyporus igniarius* L., *Fomes igniarius* (L.:Fr.) J.Kickx f., *Phellinus igniarius* (L.:Fr.) Quél., *Ochroporus igniarius* (L.) Schroet.

Gelemen, Haciosman Nature Protection Area, 29.04.1997, inedible, AG68.

Lycoperdales

Geastraceae

115. *Geastrum coronatum* Pers., Syn. *G. limbatum* Fr.

Ondokuz Mayıs, 23.10.1998, inedible, AG293.

116. *Geastrum sessile* (Sowerby) Pouzar, Syn. *G. fimbriatum* Fr.

Haciosman Nature Protection Area, 02.11.1998, inedible, AG299.

Lycoperdaceae

117. *Bovista plumbea* Pers.:Pers.

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, Veziirköprü, Kunduz Forest, 12.07.1998, Duruçay, 25.10.1998, Ondokuz Mayıs University Campus Site, 31.10.1997, 13.07.1998, 05.11.1998, edible when young, AG159.

118. *Calvatia excipuliformis* (Pers.) Perdék, Syn. *Lycoperdon excipuliformis* Schaeff.:Pers.

Kocadağ, 17.10.1997, edible when young, AG194.

119. *Lycoperdon perlatum* Pers.:Pers.
Ondokuz Mayıs, Yörükler Village, 03.10.1998, 25.10.1998, Ondokuz Mayıs University Campus Site, 05.11.1998, edible when young, AG160.
120. *Lycoperdon umbrinum* Pers.:Pers.
Ondokuz Mayıs University Campus Site, 21.11.1997, 27.11.1997, edibility unknown, AG219.
121. *Vascellum pratense* (Pers.:Pers.) Kreisel, Syn. *V. depressum* (Bon.) Smarda, *Lycoperdon depressum* Bon., *L. hiemale* Vitt.
Ondokuz Mayıs University Campus Site, 27.10.1997, 22.10.1998, Havza, Kılavuz Forest, 13.07.1998, Ondokuz Mayıs, 26.10.1999, edible, AG101.
- Nidulariales**
- Nidulariaceae**
122. *Crucibulum laeve* (Bull.) Kambly
Ondokuz Mayıs, 19.11.1999, inedible, AG19.
123. *Cyathus olla* Pers.
Kocadağ, 17.10.1997, Ondokuz Mayıs University Campus Site, 31.10.1997, inedible, AG199.
124. *Cyathus striatus* Huds.:Pers.
Ondokuz Mayıs, 5.11.2001, inedible, AG287.
- Phallales**
- Clathraceae**
125. *Clathrus ruber* (Micheli:Pers.) Pers.
Haciosman Nature Protection Area, 05.06.1997, 02.11.1998, 31.05.1999, 01.10.1999, inedible, AG79.
- Phallaceae**
126. *Mutinus caninus* (Huds.:Pers.) Fr.
Haciosman Nature Protection Area, 01.11.1999, inedible, AG43.
127. *Phallus impudicus* L.:Pers., Syn. *Ithyphallus impudicus* (L.) Fr.
Vezirköprü, Asatderesi, 30.08.1997, edible (not good), AG100.
- Poriales**
- Coriolaceae**
128. *Corirolellus albidus* (Fr.:Fr.) Bond.
Bafra, İnözü Village, 27.05.1997, inedible, AG28.
129. *Coriolus hirsutus* (Wulfen:Fr.) Quél., Syn. *Trametes hirsuta* (Wulfen:Fr.) Pilat, *Polyporus hirsutus* Wulfen:Fr., *Boletus hirsutus* Wulfen, *Boletus nigromarginatus* Schwein., *Coriolus nigromarginatus* (Schwein.) Murrill
Haciosman Nature Protection Area, 22.01.1998, 28.12.1998, Ondokuz Mayıs, Yörükler Village, 14.03.1998, 26.11.1999, inedible, AG224.
130. *Daedaleopsis confragosa* (Bolt.:Fr.) Schroet.
Haciosman Nature Protection Area, 29.11.1999, inedible, AG35.
131. *Fomes fomentarius* (L.:Fr.) Fr., Syn. *Polyporus fomentarius* (L.) Fr., *Ochroporus fomentaria* (L.) Schoet., *Ungulina fomentaria* (L.:Fr.) Pat.
Bafra, Yündağı, 27.05.1997, Ondokuz Mayıs, Yörükler Village, 14.03.1998, inedible, AG24.
132. *Laetiporus sulphureus* (Bull.:Fr.) Murrill, Syn. *Polyporus sulphureus* Bull.:Fr.
Terme, Karamahmut Village, 21.09.1997, 01.08.1998, Çarşamba, Aşıklı Village, 23.10.1999, edible (maybe poisonous if eaten raw), AG238.
133. *Lenzites betulina* (L.:Fr.) Fr., Syn. *Lenzites variegata* Lloyd, *Trametes betulina* (L.:Fr.) Pilat
Haciosman Nature Protection Area, 01.03.1998, inedible, AG247.
134. *Pseudotrametes gibbosa* (Pers.:Pers.) Bond. & Sing., Syn. *Trametes gibbosa* (Pers.:Pers.) Fr.
Kocadağ, 17.10.1997, inedible, AG246.
135. *Rigidoporus ulmarius* (Sowerby:Fr.) Imazeki, Syn. *Fomes ulmarius* (Sowerby:Fr.) Gill.
Haciosman Nature Protection Area, 06.05.1997, Ondokuz Mayıs, Yörükler Village, 16.04.1998, inedible, AG72.
136. *Trametes versicolor* (L.:Fr.) Lloyd, Syn. *Coriolus versicolor* (L.:Fr.) Quél., *Polystictus versicolor* (L.) Fr., *Boletus versicolor* L., *Polyporus versicolor* (L.) Fr., *P. hirsutulus* Schwein.
Bafra, Göltepe Village, 13.01.1997, Kocadağ, 30.08.1998, Vezirköprü, Duruçay, 25.10.1998, Ondokuz Mayıs, 26.11.1999, inedible, AG11.
- Lentinaceae**
137. *Lentinus tigrinus* (Bull.:Fr.) Fr.

Haciosman Nature Protection Area, 06.05.1997, 30.04.1998, 01.11.1999, Ondokuz Mayıs, Yörükler Village, 08.04.1998, 03.10.1998, Çarşamba, Tavluk Village, 23.10.1998, Terme, Sancaklı Village, 13.04.2000, edible, AG70.

138. *Lentinus torulosus* (Pers.:Fr.) Lloyd, Syn. *Panus torulosus* Pers.:Fr.

Ondokuz Mayıs, Yörükler Village, 21.10.1998, inedible, AG314.

139. *Pleurotus cornucopiae* (Paulet.:Pers.) Rolland Haciosman Nature Protection Area, 05.06.1997, 02.06.1998, 29.06.1998, edible, AG267.

Polyporaceae

140. *Polyporus leptcephalus* (Jacq.:Fr.) Fr., Syn. *P. varius* Pers.:Fr.

Vezirköprü, Asatderesi, 30.08.1997, Kunduz Forest, 12.07.1998, Duruçay, 25.10.1998, inedible, AG124.

141. *Polyporus squamosus* (Huds.:Fr.) Fr., Syn. *Melanopus squamosus* (Huds.) Pat., *Polyporellus squamosus* (Huds.:Fr.) P.Karst., *Boletus squamosus* Huds.

Haciosman Nature Protection Area, 29.04.1997, 20.05.1997, 30.04.1998, 28.04.1999, Ondokuz Mayıs, Yörükler Village, 08.04.1998, 07.12.1998, edible, AG64.

Russulales

Russulaceae

142. *Lactarius azonites* (Bull.) Fr.

Ondokuz Mayıs University Campus Site, 05.11.1998, edibility unknown, AG290.

143. *Lactarius circellatus* Fr.

Haciosman Nature Protection Area, 02.06.1998, edibility unknown, AG269.

144. *Lactarius controversus* (Pers.:Fr.) Fr.

Terme, İmanalısı Village, 21.09.1997, Taşpınar Village, 03.10.1997, Bafra, Cerekli Village, 29.09.1997, edible (not good), AG154.

145. *Lactarius deliciosus* (L.:Fr.) S.F.Gray

Ondokuz Mayıs, 26.11.1997, 23.10.1998, Vezirköprü, Kunduz Forest, 26.10.1998, edible, AG229.

146. *Lactarius fluens* Boud.

Vezirköprü, Asatderesi, 30.08.1997, edibility unknown, AG119.

147. *Lactarius fuliginosus* (Fr.:Fr.) Fr.

Samsun City Market, 13.06.1998, edible, AG244.

148. *Lactarius pallidus* (Pers.:Fr.) Fr.

Havza, Orhaniye Village, 11.09.1997, edible when cooked, AG153.

149. *Lactarius pyrogalus* (Bull.:Fr.) Fr.

Çarşamba, Muratlı Village, 08.10.1997, Salıpazarı, Yavaşbey Village, 07.10.1997, Karaman Village, 09.10.1997, Samsun City Market, 23.10.1998, 09.10.1999, edible, AG173.

150. *Lactarius semisanguifluus* R.Heim & Leclair

Vezirköprü, Asatderesi, 30.08.1997, 07.06.1998, Kunduz Forest, 24.10.1998, edible, AG104.

151. *Lactarius subsericatus* (Kühner & Romagn.) ex Bon.

Ondokuz Mayıs, 23.10.1998, 19.11.1999, inedible, AG315.

152. *Lactarius vellereus* (Fr.:Fr.) Fr.

Vezirköprü, Duruçay, 30.08.1997, inedible, AG118.

153. *Lactarius vinosus* Barla ex Bataille.

Ondokuz Mayıs, 26.11.1997, 23.10.1998, 26.10.1999, 26.11.1999, Bafra, Bengü Village, 13.11.1999, edible, AG230.

154. *Lactarius zonarius* (Bull.:Fr.) Fr.

Havza, Kılavuz Forest, 12.07.1998, Ondokuz Mayıs, Yörükler Village, 21.10.1998, inedible, AG316.

155. *Russula delica* Fr.

Vezirköprü, Kunduz Forest, 12.07.1998, Ondokuz Mayıs, 23.10.1998, 19.11.1999, Haciosman Nature Protection Area, 29.11.1999, edible (not good), AG281.

Schizophyllales

Schizophyllaceae

156. *Schizophyllum commune* Fr., Syn. *S. alneum* (L.) Schroet.

Haciosman Nature Protection Area, 06.05.1997, 02.06.1998, 02.11.1998, Havza, Orhaniye Village, 14.09.1997, Ondokuz Mayıs, Yörükler Village, 14.03.1998, 31.10.1998, inedible, AG20.

Sclerodermatales**Astraeaceae**

157. *Astraeus hygrometricus* (Pers.) Morgan, Syn. *Geastrum hygrometricum* Pers.

Ondokuz Mayıs University Campus Site, 01.12.1997, 16.11.1998, 18.10.1999, inedible, AG1.

Sclerodermataceae

158. *Scleroderma areolatum* Ehrenb, Syn. *S. lycoperdoides* Schwein.

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, Salıpazarı, Karacaören Village, 09.10.1997, inedible, AG162.

159. *Scleroderma cepa* (Vaill.) Pers.

Gelemen, 27.10.1997, poisonous, AG205.

160. *Scleroderma citrinum* Pers.:Pers., Syn. *S. aurantium* (Vaill.) Pers., *S. vulgare* Horn

Ondokuz Mayıs University Campus Site, 09.07.1998, inedible, AG274.

161. *Scleroderma verrucosum* (Bull.) Pers.

Balaç Village, 29.06.1997, inedible, AG60.

Stereales**Meruliaceae**

162. *Merulius tremellosus* Schrad.:Fr.

Havza, Orhaniye Village, 14.09.1997, Haciosman Nature Protection Area, 01.03.1998, inedible, AG245.

Stereaceae

163. *Stereum gausapatum* (Fr.:Fr.) Fr., Syn. *S. spadiceum* (Fr.) Fr.

Haciosman Nature Protection Area, 06.05.1997, 01.09.1998, Ondokuz Mayıs, Yörükler Village, 14.03.1998, 31.10.1998, inedible, AG75.

164. *Stereum hirsutum* (Willd.:Fr.) S.F.Gray, Syn. *S. necator* Viala

Haciosman Nature Protection Area, 02.06.1998, 29.06.1998, Havza, Kılavuz Forest, 13.07.1998, Vezirköprü, Asatderesi, 25.10.1998, inedible, AG16.

Thelephorales**Thelephoraceae**

165. *Thelephora palmata* (Scop.) Fr.

Ondokuz Mayıs University Campus Site, 27.11.1997, inedible, AG232.

166. *Thelephora spiculosa* (Fr.) Burt., Syn. *Phylacteria spiculosa* (Fr.) Bourd. & Maire

Ondokuz Mayıs, 23.10.1998, 26.10.1999, inedible, AG301.

Tremellales**Exidiaceae**

167. *Exidia glandulosa* Fr., Syn. *Tremella nigra* Bon, *T. glandulosa* Mérat

Bafra, Yündağı, 27.05.1997, Haciosman Nature Protection Area, 27.08.1997, 22.01.1998, inedible, AG25.

Tremellaceae

168. *Tremella mesenterica* Retz.:Fr.

Ondokuz Mayıs, Yeşiltepe, 29.09.1997, Haciosman Nature Protection Area, 01.04.1998, inedible, AG166.

MYXOMYCOTA**Liceales****Lycogalaceae**

169. *Lycogala epidendrum* (L.) Fr.

Gelemen, Haciosman Nature Protection Area, 06.05.1997, 31.03.1998, Vezirköprü, Duruçay, 25.10.1998, inedible, AG71.

Discussion

In this study, a total of 169 macrofungi from 54 families belonging to 26 orders were recorded for Samsun province. The numerical distributions of the species to the orders are as follows: Diatrypales: 1, Hypocreales: 1, *Leotiales*: 2, *Pezizales*: 11, *Xylariales*: 4, *Agaricales*: 61, *Auriculariales*: 2, *Boletales*: 9, *Cantharellales*: 10, *Cortinariales*: 3, *Dacrymycetales*: 1, *Fistulinales*: 1, *Ganodermatales*: 3, *Gomphales*: 3, *Hymenochaetales*: 2, *Lycoperdales*: 7, *Nidulariales*: 3, *Phallales*: 3, *Poriales*: 14, *Russulales*: 14, *Schizophyllales*: 1, *Sclerodermatales*: 5, *Stereales*: 3, *Thelephorales*: 2, *Tremellales*: 2, and *Liceales*: 1.

Among these, 51 species were edible, 67 inedible, 28 edible but not worthwhile or best avoided because of possible confusion with poisonous species, 12 poisonous and 11 species whose edibility was unknown. Some of the edible species, such as *Morchella elata* (Kuzu göbeği), *M. esculanta* (Kuzu göbeği), *Cantharellus cibarius* (Sarı

mantar), *C. ferruginascens* (Sarı mantar), *Hydnum repandum* and *H. rufescens*, are known to be exported. In respect to other edible species, *Agrocybe cylindracea*, *Clitocybe geotropa*, *Marasmius oreades* (Mih tepesi, Cincile), *Tricholoma terreum* (Karaoğlan, Karaca), *Clavulina cinerea* (Gelin tırnağı, Pirpirim), *Lactarius controversus* (Söğüt mantarı), *L. delicious* (Kanlıca), *L. pyrogalus* (Fındık mantarı, Tirit), *L. semisanguifluus* (Kanlıca), *L. vinosus* (Kanlıca), *Laetiporus sulphureus* (Et mantarı) and *Polyporus squamosus* (Aladana) have commonly been sold in local markets. Some species such as *Agaricus* sp. (Top top mantarı), *Coprinus comatus*

(Kumyaran), *Fistulina hepatica* (Öküz dili), *Lactarius fuliginosus* (Tirit), *Lepiota kondradii*, *Macrolepiota procera* (Dede mantarı) and *Russula delica* are also known and consumed by people in the province (Pekşen & Karaca, 2000).

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