Table 1

Taxonomic structure of myxomycetes of the National Park "Lake Pleshcheyevo"

Class	Orders	Families	Genera
Myxomycetes (98/626)*	Cribrariales (10/33)	Cribrariaceae (10/33)	*Cribraria* (10/33)
	Reticulariales (11/58)	Reticulariaceae (11/58)	*Lycogala* (9/52) *Reticularia* (1/1) *Tubifera* (1/5)
	Liceales (2/2)	Liceaceae (2/2)	*Licea* (2/2)
	Trichiales (29/266)	Arcyriaceae (16/163)	*Arcyria* (12/122) *Hemitrichia* (4/41)
		Dianemataceae (1/4)	*Enteridium* (1/4)
		Trichiaceae (12/99)	*Gulielmina* (1/1) *Metatrichia* (3/36) *Oligonema* (3/20) *Perichaena* (1/2) *Trichia* (4/40)
	Clastodermatales (1/1)	Clastodermataceae (1/1)	*Clastoderma* (1/1)
	Stemonitidales (17/134)	Amaurochaetaceae (6/49)	*Comatricha* (5/27) *Enerthenema* (1/22)
		Stemonitidaceae (11/85)	*Stemonaria* (2/2) *Stemonitis* (4/47) *Stemonitopsis* (5/36)
	Physarales (28/132)	Didymiaceae (9/22)	*Diachea* (1/1) *Diderma* (3/8) *Didymium* (5/13)
		Lamprodermataceae (1/3)	*Collaria* (1/3)
		Physaraceae (18/107)	*Badhamia* (1/1) *Craterium* (2/6) *Fuligo* (2/7) *Leocarpus* (1/3) *Nannengaella* (2/8) *Physarum* (10/82)
Ceratiomyxomycetes (1/17)	Ceratiomyxales (1/17)	Ceratiomyxaceae (1/17)	*Ceratiomyxa* (1/17)

*The first number in brackets is the number of species, the second number is the number of specimens.

Table 2

Distribution of myxomycetes by different types of substrate in the territory of the National Park "Lake Pleshcheyevo"

Substrate type	Number of specimens	% of total specimens (N = 643)	Number of species	% of 99 species found
Dead wood from fallen deciduous trees (d-l-w)	273	42.5	59	59.6
Dead wood from fallen coniferous trees (c-l-w)	146	22.7	43	43.4
Bark of a fallen deciduous trees (d-l-b)	31	4.8	22	22.2
Bark of a fallen coniferous trees (c-l-b)	9	1.4	5	5.1
Wood from fallen branches of deciduous trees (d-br-w)	45	7.0	21	21.2
Wood from fallen branches of a coniferous trees (c-br-w)	59	9.2	21	21.2
Bark of fallen branch of deciduous tree (d-br-b)	19	3.0	13	13.1
Bark of a fallen branches of coniferous trees (c-br-b)	4	0,6	3	3.0
Wood of deciduous tree stump (d-p-w)	6	0.9	4	4.0
Wood of coniferous tree stump (c-p-w)	7	1.1	7	7.1
Bark of deciduous tree stumps (d-p-b)	2	0.3	2	2.0
Wood of standing dead deciduous trees (d-s-w)	2	0.3	2	2.0
Wood and other woody debris of deciduous trees (d-wd-w)	2	0.3	2	2.0
Wood and other woody debris of coniferous trees (c-wd-w)	3	0.5	2	2.0
Fallen bark of deciduous trees (d-db)	2	0.3	2	2.0
Fallen conifer bark (c-db)	4	0.6	3	3.0
Wood of living deciduous trees (d-lt-b)	1	0.2	1	1.0
Root fragments (r)	1	0.2	1	1.0
Leaf of living trees (ll)	15	2.3	11	11.1
Decayed aphyllophoroid fungi (f)	2	0.3	2	2.0
Mosses (m)	8	1.2	6	6.1
Leaf of a living tree (ltl)	1	0.2	1	1.0
Wood from an unknown fallen tree (?-l-w)	1	0.2	1	1.0

Table 3

Statistical data for myxomycete sampling on plots in different forests of the National Park "Lake Pleshcheyevo"

Forest ecosystem	Plot number	Species richness	Shannon's diversity index (H')	Simpson's index (1-D)
Pine forests	1	14	2.6	0.965
	2	13	2.4	0.917
	3	9	2.1	0.915
	6	18	2.5	0.910
	8	20	2.9	0.960
	11	18	2.8	0.978
Spruce forests	7	31	3.2	0.965
	13	16	2.7	0.961
	15	18	2.7	0.957
	17	16	2.7	0.965
Black alder forests	4	19	2.9	0.984
	16	15	2.7	0.980
Oak forests	10	28	3.1	0.964
	20	20	2.8	0.950
Birch forests	12	16	2.6	0.951
	14	14	2.6	0.965
	18	7	1.9	0.964
Willow forests	9	28	3.1	0.960
Lime forests	5	28	3.0	0.949
Larch forests	21	9	2.1	0.939
Elm forest	19	13	2.4	0.927