

622.011.446.3 (477.62)

1, 2

1 / -1, 62483, . . . ,

2 . . . , 20, 72312, . . . ,

” 44 : *Cyanophyta, Chlorophyta, Bacillariophyta, Xanthophyta, Eustigmatophyta.*

$Ch_{14}B_5X_3H_2C_2P_1$ (27), $-Ch_9P_8B_7X_4H_4C_2V_1CF_1$ (36).

[21].

[9].

[5, 20].

[11].

2012 . 133 (2011 .)

” [5, 8]. 5 “

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[1, 6, 7, 13, 14, 16, 18]

[20], [3].

“ ” 44 : Cyanophyta, Chlorophyta, Xanthophyta, Bacillariophyta, Eustigmatophyta (. 1). Chlorophyta. : Chlorococcaceae, Bracteacoccaceae, Phormidiaceae, Klebsormidiaceae, Bacillariaceae Eustigmataceae. Chlorophyta Cyanophyta [5].

1

5 “ ”

Chlorophyta	Volvocales	Chlamydomonadaceae	Chlamydomonas	2
	Chlorococcales	Chlorococcaceae	Chlorococcum	1
			Tetracystis	1
		Chlorosarcinaceae	Chlorosarcinopsis	1
	Scenedesmales	Bracteacoccaceae	Bracteacoccacus	2
	Microthamniales	Leptosiraceae	Leptosira	1
	Trebouxiales	Myrmeciaceae	Myrmecia	1
	Chlorellales	Chlorellaceae	Chlorella	1
	Codiolales	Ulotrichaceae	Ulothrix	1
Klebsormidiales	Klebsormidiaceae	Klebsormidium	2	
Eustigmatophyta	Eustigmatales	Chlorobotrydaceae	Chlorobotrys	1
		Monodopsidaceae	Monodopsis	3
		Eustigmataceae	Eustigmatos	1
Vischeria	1			
Cyanophyta	Oscillatoriales	Phormidiaceae	Microcoleus	1
			Phormidium	5
			Leptolyngbya	3
	Nostocales	Nostocaceae	Nostoc paludosum	1
Xanthophyta	Mischococcales	Botryochloridaceae	Sphaerosorus	1
		Gloeobotrydaceae	Gloeobotrys	2
		Xanthonemataceae	Xanthonema	1
		Heterococcaceae	Heterococcus	1
		Pleurochloridaceae	Ellipsoidion	1
Bacillariophyta	Achnanthes	Achnanthaceae	Planothidium	1
	Naviculales	Diadesmidaceae	Diadesmis	1
			Luticola	1
		Pinnulariaceae	Pinnularia	1
		Naviculaceae	Navicula	2
	Bacillariales	Bacillariaceae	Hantzchia	1
			Nitzchia	1
				44

[17].

(Chlorella, Chlorococcum, Eustigmatos, Botrydiopsis), - Nostoc,

Phormidium,

[2].

$$(= 19 \times 100 / 36 + 28 - 19 = 42 \%)$$

[15].

– 19,

43 %

Chlamydomonas elliptica, *Chlamydomonas macrostellata*, *Chlorococcum* sp., *Tetracystis aggregata*, *Bracteacoccacus minor*, *Bracteacoccacus aerius*, *Leptosira terricola*, *Myrmecia bisecta*, *Chlorella minutissima*, *Klebsormidium flaccidum*, *Chlorobotrys gloeothecae*, *Eustigmatos magnus*, *Sphaerosorus coelastroides*, *Gloeobotrys chlorines*, *Xanthonema exile*, *Planothidium lanceolatum*, *Pinnularia borealis*, *Navicula pelliculosa*, *Hantzchia amphioxys* (. . . 2).

5 “ ”,

36

Chlorophyta –

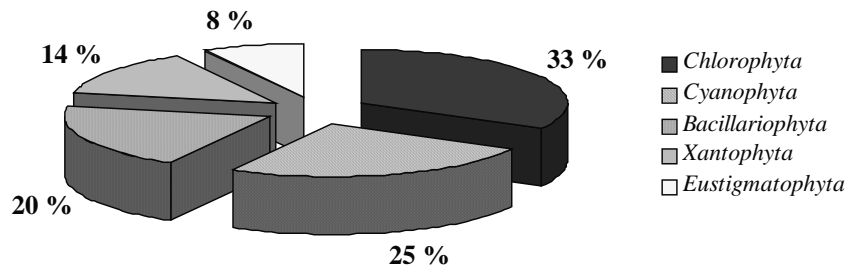
12 (33 %),

Cyanophyta – 9 (25 %)

Bacillariophyta – 7 (20 %),

Xantophyta – 5 (14 %),

Eustigmatophyta – 3 (8 %) (. . . 1).



. 1.

5 “ ”

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[4].

5 “ ”

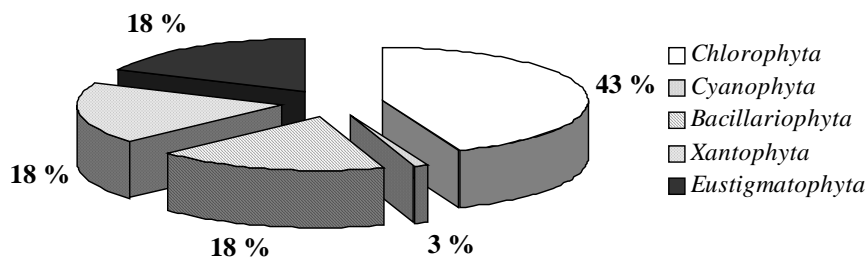
<i>Chlamydomonas elliptica</i> Korschikov in Pascher	+	+
<i>Chlamydomonas macrostellata</i> Lund	+	+
<i>Chlorococcum</i> sp.	+	+
<i>Tetracystis aggregata</i> Brown et Bold	+	+
<i>Bracteacoccacus minor</i>	+	+
<i>Bracteacoccacus aeri</i> Bischoff et Bold	+	+
<i>Leptosira terricola</i> (Bristol) Printz	+	+
<i>Myrmecia bisecta</i> Reisigl	+	+
<i>Chlorella minutissima</i> Fott et Novakova	+	+
<i>Chlorosarcinopsis eremi</i>		+
<i>Dictyochloris pulchrum</i>		+
<i>Ulothrix tenuissima</i> Kützing	+	
<i>Klebsormidium dissectum</i> (Gray) Ettl Gärtner	+	
<i>Klebsormidium flaccidum</i> (Kützing) Silva et al.	+	+
<i>Chlorobotrys gloeotheca</i> Pascher	+	+
<i>Eustigmatorus magnus</i> (B. Petersen) Hibberd	+	+
<i>Vischeria stellata</i> (Chodatex Poulton) Pascher	+	
<i>Monodus dactylococcoides</i>		+
<i>Monodus subteranea</i>		+
<i>Monodus cocomyxa</i>		+
<i>Microcoleus chthonoplastes</i> (Fl. Dan.) Thuret	+	
<i>Phormidium henningsii</i> Lemmermann	+	
<i>Phormidium retzii</i> (Agardh) Gomont	+	
<i>Phormidium paulsenianum</i> B. Petersen Novitschkova	+	
<i>Phormidium autumnale</i> (Agardh) Gomont	+	
<i>Phormidium laminosum</i>		+
<i>Leptolyngbya frigida</i> (Fritsch) Anagnostidis et Komarek	+	
<i>Leptolyngbya fragilis</i> (Gomont) Anagnostidis et Komarek	+	
<i>Leptolyngbya faveolarum</i> (Rabenhorstex Gomont) Anagnostidis et Komarek	+	
<i>Nostoc paludosum</i> Kützing	+	
<i>Sphaerosorus coelastroides</i> Pascher	+	+
<i>Gloeobotrys chlorines</i> Pascher	+	+
<i>Gloeobotrys limneticus</i> (G. M. Smith) Pascher	+	
<i>Xanthonema exile</i> (Klebs) Silva	+	+
<i>Heterococcus</i> sp.	+	
<i>Ellipsoidion oocystoides</i>		+
<i>Planorhynchium lanceolatum</i> (Brebisson in Kützing) Bukhtiyarova	+	+
<i>Diademsia contenta</i> (Grunow ex. Van Heurick) Mann in Round et al.	+	
<i>Luticola cohnii</i> (Hilse) Mann in Round et al.	+	
<i>Pinnularia borealis</i> Ehrenberg	+	+
<i>Navicula pelliculosa</i> (Brebisson) Hilse	+	+
<i>Navicula mutica</i>		+
<i>Hantzchia amphioxys</i> (Ehrenberg) Grunow in Cleve et Grunow	+	+
<i>Nitzschia</i> sp.	+	
	36	27

– 3. *Phormidiaceae* – , *Pseudanabenaceae* – .

Phormidium – (*Phormidium henningsii*, *Phormidium retzii*, *Phormidium paulsenianum*, *Phormidium autumnale*, *Leptolyngbya* – (*Leptolyngbya frigid*, *Leptolyngbya fragilis*, *Leptolyngbya foveolarum*) (. 1).

: *Hantzschia amphioxys*, *Bracteacoccus aeri*, *Klebsormidium flaccidum*, *Phormidium autumnale*, *Pinnularia borealis*, *Planothidium lanceolatum*, *Xanthonema exile*.

28 , : *Cyanophyta* – 1 (3 %), *Chlorophyta* – 12 (43 %), *Xanthophyta* – 5 (18 %), *Bacillariophyta* – 5 (18 %), *Eustigmatophyta* – 5 (18 %) (. 2).



. 2.

5 “ ”

: *Chlorosarcinopsis eremi*, *Dictyochloris pulchrum*, *Monodus dactylococcoides*, *Monodus subteranea*, *Monodus cocomyxa*, *Phormidium laminosum*, *Ellipsoidion oocystoides*, *Navicula mutica*,

: *Monodopsidaceae* (*Monodus dactylococcoides*, *Monodus subteranea*, *Monodus cocomyxa*), *Bracteacoccaceae* (*Bracteacoccus minor*, *Bracteacoccus aeri*), *Chlamydomonadaceae* (*Chlamydomonas elliptica*, *Chlamydomonas macrostellata*), *Naviculaceae* (*Navicula mutica*, *Navicula pelliculosa*).

: *Chlorococcum sp.*, *Bracteacoccus minor*, *Bracteacoccus aeri*, *Klebsormidium flaccidum*, *Leptosira terricola*, *Myrmecia bisecta*, *Hantzschia amphioxys*, *Navicula mutica*, *Navicula pelliculosa*, *Pinnularia borealis*, *Eustigmatos magnus*.

5 “ ”

. [19].

Chlorococcaceae, Bracteacoccaceae, Chlorellaceae, Pleurochloridaceae, Heterococcaceae.

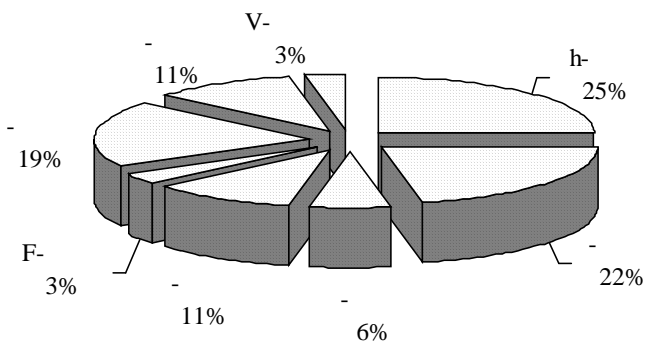
Phormidiaceae.

Цуанопхита – Nostoc paludosum (CF –).

[10],

()
 $Ch_9P_8B_7X_4H_4C_2V_1CF_1$ (36),

(. 3).

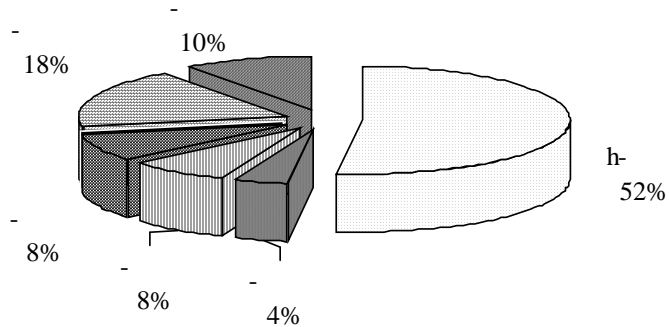


. 3.

5 “ ”

Chlorococcaceae, Bracteacoccaceae, Chlorellaceae, Leptosiraceae, Myrmeciaceae.

Ch₁₄B₅X₃H₂C₂P₁ (27) (. 4).



. 4.

5 “ ”

() ’ ,

(. 3).

Phormidium Kütz.

ex Gom. *Leptolyngbya* Anagh. et Kom.,

hlorococcum Menegh., *Tetracystis* Brown et Bold, *Bracteacoccus* Tereg *Chlorella* Beijer.

3

	P	Ch	CF	H	B	X	M	C	V	amph.	hydr.			
1	8	9	1	4	7	4	-	2	1	-	-	36	0,22	0,47
2	1	14	-	2	5	3	-	2	-	-	-	27	0,40	0,44

. 1, 2 –
 “ ” (1) (2)

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5 44

Cyanophyta, *Chlorophyta*, *Xanthophyta*, *Bacillariophyta*, *Eustigmatophyta*.

: *Hantzschia amphioxys*, *Bracteacoccus aerius*, *Klebsormidium flaccidum*, *Phormidium autumnale*, *Pinnularia borealis*, *Planothidium lanceolatum*, *Xanthonema exile*.

Ch₁₄B₅X₃H₂C₂P₁ (27), – Ch₉P₈B₇X₄H₄C₂V₁CF₁ (36).

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17.04.2013
16.05.2013
17.06.2013

STRUCTURE AND ECOLOGICAL PECULIARITIES OF ALGOFLO OF ROCK-FORMING SOILS OF COAL DUMPS IN DONETSK REGION

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As a result of the investigation of algogroups of coal-mining workings of mine administration “Zahidne” 44 species of algal from five departments (*Cyanophyta*, *Chlorophyta*, *Bacillariophyta*, *Xanthophyta*, *Eustigmatophyta*) were revealed. The coefficients of mesophily and xerophily are calculated. The general spectrum of vital forms of algae species in spring period is represented by formula $Ch_{14}B_5X_3H_2C_2P_1$ (27), in summer period – $Ch_9P_8B_7X_4H_4C_2V_1CF_1$ (36).

Key words: coal dump, soil algae, vital forms.

1, 2
1 / -1, 62483, ,
2 , 20, 72312, ,
“ ”
44 : *Cyanophyta*, *Chlorophyta*, *Bacillariophyta*,
Xanthophyta, *Eustigmatophyta*.
 $Ch_{14}B_5X_3H_2C_2P_1$ (27), – $Ch_9P_8B_7X_4H_4C_2V_1CF_1$ (36).