Environmental Impact Assessment

Project Number: 53178-001

May 2019

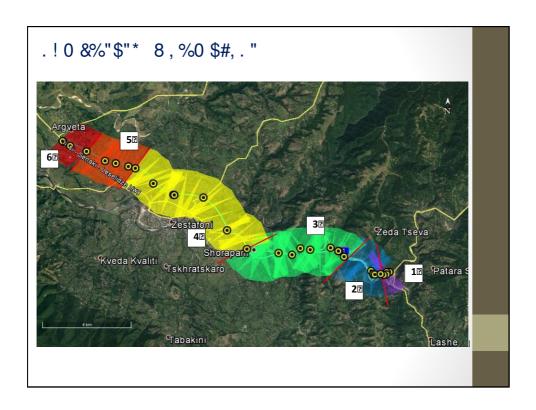
GEO: East–West Highway (Shorapani–Argveta Section) Improvement Project

Part 1GAAppendix D. Ø)

This environmental impact approximent is a document of the horrower. The views expressed
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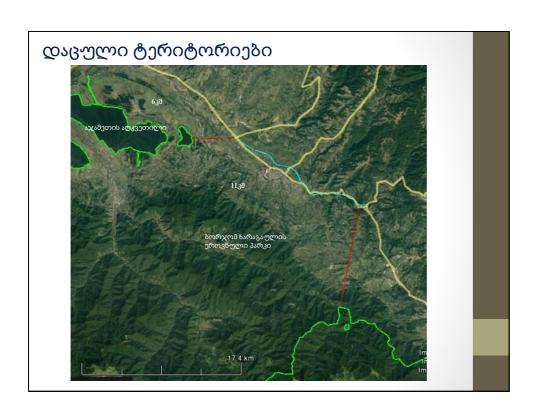


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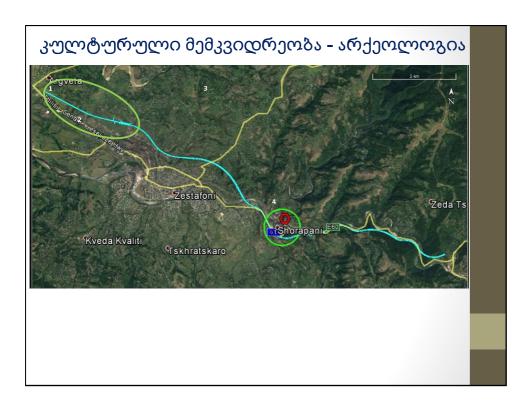
სახეობა	წით. ნუახა	IUCN	სხვა	Section N
კავკასიურ ი ციყვი	VU	LC	EU ჰაზიტატეზის დირექტივა (92/43) IV 21/05/92; ზერნის კონვენცია 01/03/02,	1/2/3
წავი	VU	NT	CITES დანართი I, ბერნის კონვენცია დანართი II, ჰანიტატების დირექტივა დანართი II და IV	4
ხმელთაშუ აზღვის კუ	VU	VU	-	1/4/
			* Ove	migration route ration bottle-nock neutring area oping stone







ყვითელი ექსლკუთხედი - ეკლესია; მწვანე ექვსკუთხედი - ეკლესია და სასაფლაო; ნარინჯისფეი ექვსკუთხედი - სასაფლაო; 1წმ,ნინოს წკლესია,მიახლოებითი მანძილი 260m; 2 – წმ.ნიკოლოზის ეკლესია - მიახლ.მანძილი 650m. 3 – სასაფლაო - მიახლ მანძილი 630m; 4 – შორპმის ციხე - მიახლ. მანძილი 590მ



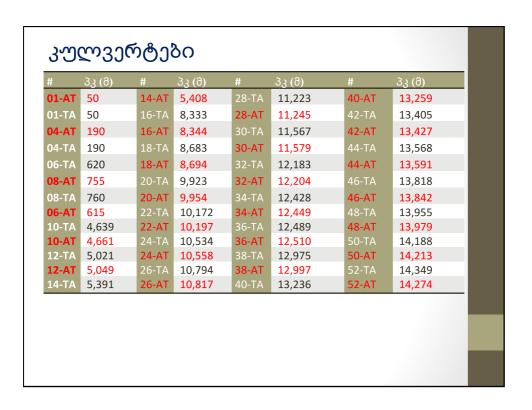
ზემოქმედება	რანგირება
მშენებლობა	
ხარისხის გაუარესება	L-M, S, R, ადგილობრივი.
ხმაური და ვიბრაცია	L-M.S, R, ადგილობრივი
წყლის ხარისხი	L-M, S. R, ადგილობრივი
ნიადაგის ხარისხის	L-M, S, R, ადგილობრივი
გაუარესება	
ზემოქმედება ფლორაზე/ მცენარეულობა ზე	L-M, ადგილობრივი, ტერიტორიებზე, რომელიც გასხვისება არ ხდება მუდმივად - საშუალოდან ხანმოკლე (დროებითი), შექცევადი.
ზემოქმედება ფაუნაზე	L-M, დამოკიდებულია სამარშრუტო მონაკვეთზე, S, R, ადგილობრივი. ეს იქნება - დარჩენილი ხმაურის გავრცელება, გამონაბოლქვი ემისიები, ზემოქმედების გარკვეული რისკი წყალქვეშა ცხოველებზე, დროებითი ზემოქმედება წყლის ხარისხზე(ძირითადად სიმღვრივის მომატება), შეჯახება
ლანდშაფტის და ვიზუალური ცვლილება	L-VL (დამოკიდებულია ადგილმდებარეობაზე), S, R, ადგილობრივი

ფუნქციონირება	
ჰაერის ხარისხის გაუარესება	დაბალიდან საშუალომდე, მოდელირების მონაცემების მიხედვით, ზემოქმედება არ არის მაღალი, შემამსუბუქებელი ზომები არ არის საჭირო
ხმაური და ვიბრაცია	დაბალიდან საშუალომდე .
წყლის ხარისხი	უმნიშვნელო - დაბინძურება ზედაპირული ჩამონარეცხით
ნიადაგის ხარისხის გაუარესება	დაბალიდან უმნიშვნელომდე - დაბინძურება ჩამონარეცხით
გეოლოგიური საშიშროებების განვითარება	უმნიშვნელო.
ზემოქმედება ფლორაზე/ მცენარეულობაზ	უმნიშვნელო.
ზემოქმედება ფაუნაზე	დაბალი. ხმაურის გავრცელება, გამონაბოლქვი ემისიები, ზემოქმედების გარკვეული რისკი წყლის ცხოველებზე წყლის ხარისხის გაუარესების გამო და კოლიზიის რისკე Д 5
ლანდშაფტის და ვიზჟალური ცვლილება	მნიშვნელოვანი ცვლილება გზისა და ხიდების გამო



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დამცავი კედლები

- კმ 0.00 to კმ 0.25
- კმ 4.36 to კმ 4.43 (შორაპანთან)
- კმ 8.63 to კმ 8.71
- 38.84 to 38.94

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APPENDIX E

Chance Find Procedure

Purpose of the chance find procedure

The chance find procedure is a project-specific procedure that outlines actions required if previously unknown heritage resources, particularly archaeological resources, are encountered during project construction or operation. A Chance Find Procedure, as described in IFC Performance Standard 8 and EBRD Performance Requirement 8 and law on Cultural Heritage of Georgia, is a process that prevents chance finds from being disturbed until an assessment by a competent specialist is made and actions consistent with the requirements are implemented.

Scope of the chance find procedure

This procedure is applicable to all activities conducted by the personnel, including contractors, that have the potential to uncover a heritage item/site. The procedure details the actions to be taken when a previously unidentified and potential heritage item/site is found during construction activities. Procedure outlines the roles and responsibilities and the response times required from both project staff, and any relevant heritage authority.

Induction/Training

All personnel, especially those working on earth movements and excavations, are to be inducted on the identification of potential heritage items/sites and the relevant actions for them with regards to this procedure during the Project induction and regular toolbox talks.

Chance find procedure

If any person discovers a physical cultural resource, such as (but not limited to) archaeological sites, historical sites, remains and objects, or a cemetery and/or individual graves during excavation or construction, the following steps shall be taken:

- 1. Stop all works in the vicinity of the find, until a solution is found for the preservation of these artefacts, or advice from the relevant authorities is obtained;
- 2. Immediately notify a foreman. The foreman will then notify the Construction Manager and the Environment Officer (EO)/Environmental Manager (EM);
- 3. Record details in Incident Report and take photos of the find;
- 4. Delineate the discovered site or area; secure the site to prevent any damage or loss of removable objects. In cases of removable antiquities or sensitive remains, a night guard shall be arranged until the responsible local authorities take over;
- 5. Preliminary evaluation of the findings by archaeologists. The archaeologist must make a rapid assessment of the site or find to determine its importance. Based on this assessment the appropriate strategy can be implemented. The significance and importance of the findings should be assessed according to the various criteria relevant to cultural heritage such as aesthetic, historic, scientific or research, social and economic values of the find:
- 6. Sites of minor significance (such as isolated or unclear features, and isolated finds) should be recorded immediately by the archaeologist, thus causing a minimum disruption to the work schedule of the Contractor. The results of all archaeological work must be reported to the Ministry/Agency, once completed.
- 7. In case of significant find the Agency/Ministry (Agency for Protection of National Heritage or Archaeological Research Centre, hereinafter referred to as Heritage team) should be informed immediately and in writing within 7 days from the find (ref.law on heritage protection).
- 8. The onsite archaeologist provides the Heritage team with photos, other information as relevant for identification and assessment of the significance of heritage items.

- 9. The Ministry must investigate the fact within 2 weeks from the date of notification and provide response in writing.
- 10. Decisions on how to handle the finding shall be taken by the responsible authorities. This could include changes in the layout (such as when finding an irremovable remain of cultural or archaeological importance) conservation, preservation, restoration and salvage;
- 11. Construction works could resume only after permission is granted from the responsible authorities.
- 12. In case no response received within the 2 weeks period mentioned above, this is considered as authorisation to proceed with suspended construction works.

One of the main requirements of the procedure is record keeping. All finds must be registered. Photolog, copies of communication with decision making authorities, conclusions and recommendations/guidance, implementation reports – kept.

Additional information

Management options for archaeological site

- <u>Site avoidance.</u> If the boundaries of the site have been delineated attempt must be made to redesign the proposed development to avoid the site. (The fastest and most cost-effective management option)
- <u>Mitigation.</u> If it is not feasible to avoid the site through redesign, it will be necessary to sample it using data collection program prior to its loss. This could include surface collection and/or excavation. (The most expensive and time-consuming management option.)
- <u>Site Protection</u>. It may be possible to protect the site through the installation of barriers during the time of the development and/or possibly for a longer term. This could include the erection of high visibility fencing around the site or covering the site area with a geotextile and then capping it with fill. The exact prescription would be site-specific.

Management of replicable and non-replicable heritage

Different approaches for the finds apply to replicable and non-replicable heritage.

Replicable heritage

Where tangible cultural heritage that is replicable¹ and not critical is encountered, mitigation measures will be applied.

The mitigation hierarchy is as follows:

- Avoidance;
- Minimization of adverse impacts and implementation of restoration measures, in situ;
- Restoration of the functionality of the cultural heritage, in a different location;
- Permanent removal of historical and archaeological artefacts and structures;
- Compensation of loss where minimization of adverse impacts and restoration not feasible.

Non-replicable heritage

Most cultural heritage is best protected by in situ preservation, since removal is likely to result in irreparable damage or even destruction of the cultural heritage.

¹ Replicable cultural heritage is defined as tangible forms of cultural heritage that can themselves be moved to another location or that can be replaced by a similar structure or natural features to which the cultural values can be transferred by appropriate measures. Archaeological or historical sites may be considered replicable where the particular eras and cultural values they represent are well represented by other sites and/or structures.

Nonreplicable cultural heritage² must not be removed unless all of the following conditions are met:

- There are no technically or financially feasible alternatives to removal;
- The overall benefits of the project conclusively outweigh the anticipated cultural heritage loss from removal; and

Any removal of cultural heritage must be conducted using the best available technique advised by relevant authority and supervised by archaeologist.

Human Remains Management Options

The handling of human remains believed to be archaeological in nature requires communication according to the same procedure described above.

There are two possible courses of action:

- **Avoid.** The development project is redesigned to completely avoid the found remains. An assessment should be made as to whether the remains may be affected by residual or accumulative impacts associated with the development, and properly addressed by a comprehensive management plan.
- **Exhumate.** Exhumation of the remains in a manner considered appropriate by decision makers. This will involve the predetermination of a site suitable for the reburial of the remains. Certain ceremonies or procedures may need to be followed before development activities can recommence in the area of the discovery.

EMERGENCY CONTACTS

Ministry of Culture and Monument Protection

Address: 4 Sanapiro Street, 0105, Tbilisi, Georgia; Fax: 995 32 2999966, 2932235;

E-Mail: culturegovge@gmail.com

National Agency for Cultural Heritage of Georgia

27 Atoneli street, 0105 Tbilisi, Georgia: tel/fax: +(99532) 2932411

E mail: info@heritagesites.ge

Archaeological Research Centre under the Georgian National Museum

3, Rustaveli Avenue0105 Tbilisi, Georgia

Tel: +(995 32) 2998022; Fax: +(995 32) 2982133

E-Mail: info@museum.ge

² Nonreplicable cultural heritage may relate to the social, economic, cultural, environmental, and climatic conditions of past peoples, their evolving ecologies, adaptive strategies, and early forms of environmental management, where the (i) cultural heritage is unique or relatively unique for the period it represents, or (ii) cultural heritage is unique or relatively unique in linking several periods in the same site. Examples of non-replicable cultural heritage may include an ancient city or temple, or a site unique in the period that it represents.

APPENDIX F State Forest Fund

Wood Resource Listing

Forest Fund Territorial Authority with the right of management - LEPL Imereti Forestry Service of National Forestry Agency

Forest district - Zestaponi - Kharagauli , forest district - Satsable

Quarter_31, district - former Sak.forest; area _5086m2,

Slope inclination (degree)-15.

Quantity of the wood resources of 8 cm and more taxation diamter subject to recording (in

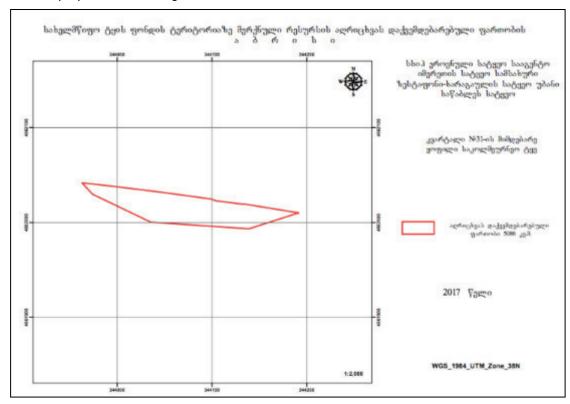
pieces), volume (m3), according to the diameters and varieties of wood resources

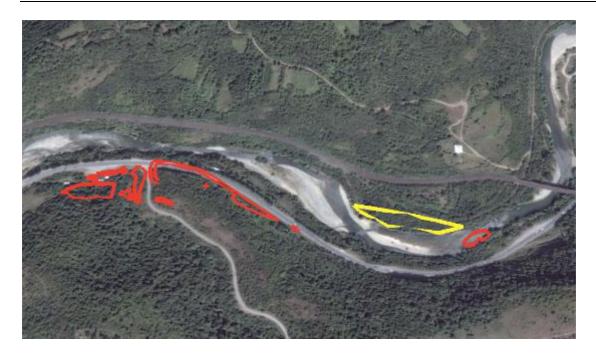
#	Species (variety)	species (Latin)	Diameter (D)	Number of trees	Volume (v)	Note
1	2	3	4	5	6	7
1	zelkova		8	9	0.135	VI-rank
			10	6	0.21	(Red list)
		olia	12	14	0.714	
		Zelkova carpinifolia	14	13	0.975	
		arp	16	12	1.188	
		va c	18	2	0.27	
		Ko	20	5	0.85	
		Ze	24	3	0.78	
			32	1	0.5	
Total	zelkova:			65	5.622	
2	Acacia	ig.	8	16	0.336	IV-rank
		lbat	10	9	0.369	
		dea	12	15	0.96	
		cia	16	1	0.123	
		Acacia dealbata	20	1	0.21	

Total	Acacia:			42	1.998	
3	ashtree	s Z	8	2	0.024	IV-rank
		kinu Sisic	10	3	0.114	
		Fraxinus excelsior	12	1	0.056	
		<u> </u>				
Total	ashtree:			6	0.194	
4	alder	æ	8	1	0.019	V-rank
		bata	10	1	0.038	
		Alnus barbata	12	1	0.058	
		ns	14	1	0.088	
		Aln	16	3	0.36	
			20	2	0.4	
Tota	ıl alder:			9	0.963	
5	willow		12	3	0.153	VI-rank
			14	2	0.15	
			16	2	0.198	
		<u>c</u>	18	2	0.27	
		Salix magnifica	20	12	2.04	
		Пас	24	5	1.3	
		<u>×</u>	28	1	0.37	
		Sa	32	1	0.5	
			36	1	0.67	
Total	willow:			29	5.651	
	oriental					
6	hornbeam		8	14	0.238	VIII-ran
		Ø	10	10	0.3	
		ıtali	12	12	0.516	
		rien	14	10	0.62	
		<u>8</u>	16	3	0.246	
		Jin u	18	2	0.222	
		Carpinus orientalis	20	2	0.288	
		J				
otal orien	tal hornbeam:			53	2.43	
Gran	nd total:			204	16.858	
Gran	iu iuiai.			204	10.030	

was also	was also recorded with the following quantity:								
zelkova	150	unit	0.01	m3	Red list				
Acacia	110	unit	0.008	m3					
oriental hornbeam	80	unit	0.01	m3					
oak Geo.	15	unit	0.001	m3					
hawthorn	40	unit	0.002	m3					
holly	22	unit	0.001	m3					
total	417	unit	0.032	m3					
grand total	621	unit	16.89	m3					

Date of preparation of listing: 20.12.2017.





Wood Resource Listing

Forest Fund Territorial Authority with the right of management - LEPL Imereti Forestry Service of National Forestry Agency

Forest district - Zestaponi - Kharagauli , forest district - Satsable

Quarter_34, district - former Sak.forest; area _34869 m2,

Slope inclination (degree) -15-25.

Quantity of the wood resources of 8 cm and more taxation diamter subject to recording (in

pieces), vol	ume (m3),accord	ding to the dia	amters and var	ieties of woo	d resources	3
#	Species (variety)	Species (variety)	Diameter (D)	Number of trees	Volume (v)	Note
1	2	3	4	5	6	7
1	hornbeam		8	18	0.27	VI-rank
			10	7	0.231	
			12	24	1.224	
		, g	14	6	0.45	
		Carpinus caucasica	16	16	1.584	
		anc	18	16	2.16	
			20	31	5.27	
		pint	24	8	2.08	
		Carl	28	6	2.22	
			32	2	1	
			36	2	1.34	
			40	1	0.84	
	_					
Total h	ornbeam:			137	18.669	
	0.1.0				0.00)/I I
2	Oak Geo.	_	12	2	0.09	VI-rank
		rica	14	1	0.068	
		ibe	16	1	0.09	
		cus	20	1	0.157	
		Quercus iber	24	1	0.256	
		G	28	1	0.356	
			32	2	1	

7	oriental hornbeam	Carpinu s orientali s	8 10	31 17	0.527 0.51	VIII-rani
rotal co	mmon pear:			6	1.931	
T		Py			4 004	
		Pyrus communis	36	1	0.67	
		COU	32	1	0.5	
		חשר	28	1	0.37	
-	pear	nis	12 20	2	0.34	
6	common		10		0.051	VI-rank
				50	1.0.0	
Tota	l Il hazel:	ပိ		50	1.816	
		Corylus avellana	20	2	0.04	
		is a	12	14	0.714	
		velk	10	14	0.462	
5	hazel	ana	8	20	0.3	vi-rank
5	hazol		^		0.3	VI-rank
Iota	al alder:			70	10.525	
	<u> </u>				10	
		36	1	0.73		
			32	1	0.55	
			28	5	2.05	
		Ar	24	1	0.3	
		Snr	20	16	3.2	
		Alnus barbata	18	13	2.08	
		bata	16	4	0.48	
			12	14	0.812	
			10	2	0.076	
4	alder		8	13	0.247	V-rank
Total v	vild apple:			2	0.269	
		Malus sylvestris				
		alus	20	1	0.17	
3	crab apple	. <u>s</u>	16	1	0.099	VI-rank
Tot	al oak:			11	3.767	
			44	1	0.57	
		-	40 44	1	0.78 0.97	

			12	8	0.344	
			14	4	0.248	
			16	1	0.082	
Total orie	ntal hornbeam:			61	1.711	
8	chestnut		8	13	0.156	VI-rank
			10	8	0.184	(red list)
		-	12	3	0.135	
		-	14	2	0.136	
			16	6	0.54	
			18	8	0.992	
		<u>≤</u> .	20	11	1.727	
		sat	24	7	1.792	
		леа	28	6	2.136	
		Castanea sativa	32	2	1	
		ပိ	36	3	1.869	
			40	8	6.24	
			48	4	4.76	
			52	2	2.84	
			56	2	3.34	
Total	chestnut:			85	27.847	
9	Lime tree	-	8	1	0.012	V-rank
		-	10	1	0.034	
		-	12	7	0.392	
		-	14	2	0.168	
		_	16	2	0.224	
		- ra	18	3	0.45	
		Tilia caucasica	20	7	1.323	
		_ ca	28	1	0.412	
		Ca	32	1	0.556	
		Ë	36	1	0.723	
			40	3	2.736	
			44	1	1.134	
			56	1	1.93	
		_	60	1	2.26	
Total	lime tree:			32	12.354	
10)	_		0.010	\/I ====!-
10	maple	er ca mp	8	1	0.012	VI-rank

			20	3	0.471	
			24	1	0.256	
			32	1	0.5	
			36	2	1.246	
			52	1	1.42	
Tota	al maple:			9	3.905	
11	taller ash		8	9	0.108	V-rank
		. _	12	4	0.224	
		sior	14	4	0.336	
		le Ce	16	5	0.56	
		ê S	18	3	0.45	
		Fraxinus excelsior	24	1	0.279	
		·rax	36	1	0.723	
		ш	40	3	2.736	
			52	1	1.64	
total	taller ash:			31	7.056	
12	bladder nut		8	7	0.126	VII-ran
		lea ca	10	8	0.248	(red lis
		phy Ichi	12	18	0.846	
		Staphylea colchica	14	5	0.335	
Total b	oladder nut:			38	1.555	
	1			36		
13			10		0.031	VII-ran
13	yew-tree	s nta	10	1	0.031	1
13		axus accata	10		0.031	1
13		Taxus baccata	10		0.031	1
13		Taxus baccata	10		0.031	1
		Taxus baccata	10		0.031	1
Total	yew-tree		10	1	0.031	(red lis
	yew-tree		10	1		(red lis
Total	yew-tree			1	0.031	(red lis
Total	yew-tree		8	1 1 4	0.031	(red lis
Total	yew-tree	Zelkova Taxus carpinifolia baccata	8 10	1 1 4 4	0.031 0.072 0.124	(red lis
Total	yew-tree		8 10 12	1 1 4 4 4 2	0.031 0.072 0.124 0.094	VII-ran (red lis

15	Wild plum	:E	8	2	0.03	VI-rank
		sitii	10	4	0.132	
		i.	12	1	0.051	
		Prunus insititia	16	2	0.198	
		Pr	32	1	0.5	
total v	vild plum:			10	0.911	
16	hawthorn	_	8	2	0.036	VII-rank
		Crataegus microphylla	10	4	0.124	
		aec abh	12	1	0.047	
		Crat	16	2	0.18	
		E	32	1	0.466	
			02			
Total	hawthorn:			10	0.853	
				10		
17	cedar		16	5	0.35	VI-rank
		Cedrus deodara	20	19	4.56	
			24	15	11.55	
			28	22	13.64	
			32	29	25.81	
			36	15	12.45	
		dr.	40	5	5.35	
		ŏ	44	6	8.04	
			48	4	6.6	
			52	1	1.99	
			52	'		
Tota	l cedar:			121	90.34	
				121		
18	Acacia		8	37	0.777	IV-rank
			10	16	0.656	
			12	41	2.624	
			14	11	1.034	
		<u>ta</u>	16	22	2.706	
		l pa	18	25	4.25	
		Acacia dealbata	20	84	17.64	
			24	83	25.73	
		Aca	28	47	20.21	
		Ì	32	19	10.83	
			36	8	6	
			40	2	1.84	
			411		1.0-	

			56	1	1.84	
tota	al Acacia:			398	98.357	
19	tree of heaven	la	8	11	0.242	V-rank
		sim	12	14	0.798	
		altis	16	11	1.21	
		ns s	18	4	0.56	
		ailanthus altissima	20	10	1.8	
		aila	24	3	0.84	
			28	1	0.4	
Total tr	ee of heaven:			54	5.85	
20	Elm		8	2	0.036	VII-rank
		Ulmus foliacea	12	1	0.047	
		olia	20	5	0.725	
		us 1	24	2	0.466	
		Ulm	28	2	0.666	
			32	1	0.466	
To	otal elm:			13	2.406	
21	Circassian walnut	aja —	8	1	0.015	VI-rank
	Wallut	re(20	1	0.17	(red list)
		lans regia	40	1	0.84	(100 1101)
		jug	40	'	1 0101	
Total Circ	cassian walnut:			3	1.025	
22	Fig-tree	g	12	2	0.094	VII-rank
		Ficus carica	16	2	0.198	
) sn				
		Fic				
Tota	al fig-tree:			4	0.292	
23	honey-locust	<u>.a</u>	12	1	0.047	VI-rank
		sch oica	20	1	0.17	
		gleditschia caspica				
Total h	oney-locust:			2	0.217	
	-					

24	mulberry tree	_	8	6	0.108	VII-rank
		morus alba	16	3	0.27	
		ns s	24	3	0.699	
		nor	28	1	0.333	
		_				
Total m	nulberry tree:			13	1.41	
25	asp		56	1	2.02	V-rank
	цор	Populus alba	36	I	2.02	· rank
		ns a				
		Ind				
		8				
To	otal asp:			1	2.02	
				-		
26	willow	g	20	1	0.145	VII-rank
		Salix magnifica				
		nag				
		×				
		Sal				
Tot	al willow:			1	0.145	
27	persimmon		8	13	0.234	VII-rank
			10	4	0.124	
		ž	12	9	0.423	
		Diospyros kaki	14	5	0.335	
		Уrо	16	4	0.36	
		dso	18	4	0.48	
		ق	20	8	1.16	
			24	1	0.233	
			28	1	0.333	
Total	no roim m c = -				2 600	
ıotal	persimmon:			49	3.682	
G=4	and total:			1224	299.414	
Gra	מווע נטנמו.			1224	233.414	

In addition to the above, the wood resource of less than 8 cm diamter was also recorded with the following quantity:						
hornbeam	25	unit	0.001	m 3		
Oak Geo.	5	unit	0.001	m		

]	3	
hazel		1550	unit	0.4	m 3	
blackberry		900	unit	0.002	m 3	
persimmon		13	unit	0.001	m 3	
bladder nut		250	unit	0.005	m 3	
Fig-tree		7	unit	0.001	m 3	
elm		51	unit	0.002	m 3	
tree of heav	ven	80	unit	0.005	m 3	
mulberry tre	ее	41	unit	0.002	m 3	
maple		12	unit	0.001	m 3	
oriental hor	nbeam	550	unit	0.03	m 3	
pine-tree.		2	unit	0.001	m 3	
crab apple		5	unit	0.001	m 3	
wild plum		10	unit	0.002	m 3	
ash-tree		15	unit	0.001	m 3	
wild cherry		5	unit	0.001	m 3	
hawthorn		335	unit	0.05	m 3	
cornel		135	unit	0.005	m 3	
laurel cherr	у	50	unit	0.004	m 3	
winterberry		55	unit	0.001	m 3	
greenbrier		1160	unit	0.03	m 3	
Acacia		100	unit	0.02	m 3	
zelkova		9	unit	0.001	m 3	red list
chestnut tre	е	22	unit	0.002	m 3	red list
					m	
	otal	5387	unit	0.57	3	
_		6611		299.984	m	
Grar	nd total:	30	unit		3	

Date of preparation of the listing: 20.12.2017.

