



"

"

- .

-

2017-2021 .

:.....

/ .

/

2016 .



		. 10
I.		. 11
1.		. 11
1.1.		. 11
1.2.	–	. 12
1.2.1.		. 12
1.2.2.		. 16
1.2.3.		. 17
1.2.4.		. 17
1.2.5.	– , ,	. 18
1.2.6.	(	. 18
1.3.	–	. 18
1.3.1.		. 18
1.3.2.		. 23
1.3.3.	– , ,	. 23
1.3.4.	(
)		. 23
1.4.	–	. 24
1.4.1.		. 24
1.4.2.	–	. 24
1.4.3.	–	. 24
1.4.4.	–	. 25
1.4.5.	(
)		. 27
1.5.		. 27
1.5.1.	– ,	. 27
1.5.2.	–	. 31
1.6.		. 31
2.		. 32
3.		. 33
4.	ТА	. 38
5.	,	. 39
II.		. 40
1.		. 40



2.					. 40
2.1.					. 40
2.2.					. 41
2.3.					. 48
2.4.					. 59
2.5.					. 86
2.6.					. 88
2.7.					. 88
2.7.1.		(Q8)			. 88
2.7.2.		(Q7)			. 88
2.7.3.		(Q3A)			. 88
2.7.4.					. 89
2.8.					. 89
2.9.					. 89
2.10.					. 89
2.11.					. 90
3.					. 90
3.1.					. 90
3.2.					. 91
3.3.				,	. 91
4.					. 91
4.1.					. 91
4.2.				,	
				,	
				,	
				;	
					. 92



6.3.7.	–	. 186
6.3.8.	–	. 186
6.4.	14	. 187
6.5.	14	. 187
7.		. 188
7.1.		. 188
7.2.		. 188
7.2.1.		. 188
7.2.2.	–	. 218
7.2.3.	–	. 222
7.2.4.		. 222
7.2.5.	–	. 223
8.		. 224
8.1.		. 224
8.1.1.	–	. 224
8.1.2.		. 224
8.1.3.		. 224
8.1.4.		. 224
8.2.		. 225
8.2.1.	–	. 225
8.2.2.		. 225
8.2.3.		. 225
8.2.4.		. 225
8.3.		. 226
8.3.1.	–	. 226
8.3.2.		. 226
8.3.3.		. 226
8.3.4.		. 226
9.		. 226
9.1.	EN ISO	. 226
9001:2008		. 226
9.2.	EN ISO	. 226
14001:2004		. 226



	BS OHSAS	
9.3.		
18001:2007		. 226
9.4.		. 226
III.		. 227
1.		. 227
1.1.		
		. 228
1.1.1.		. 228
1.1.2.		. 229
1.1.3.		. 229
1.2.		
		. 230
2.		
		. 230
2.1.		
		. 231
2.2.		
		. 231
2.3.		. 231
2.4.		
		. 231
3.		. 231
3.1.		
		. 232
3.2.		
		. 233
3.3.		
		. 233
4.		. 234
4.1.		
		. 234
4.1.1.		. 234
4.1.2.		. 236
4.1.3.		. 239
4.1.4.		. 243
4.1.5.		
	Q	. 243
4.2.		
		. 243
4.2.1.		. 243
4.2.2.		. 245
4.2.3.		. 247
4.2.4.		. 251



4.2.5.	/ ,	Q	. 251
4.3.			. 252
4.3.1.			. 252
4.3.2.			. 254
4.3.3.			. 258
4.3.4.			. 262
4.3.5.	/ ,	Q	. 262
4.4.			. 263
4.5.			. 264
5.			. 264
6.			. 269
6.1.	/		. 269
6.2.	, . . . ,		. 270
6.3.			. 271
6.4.			. 272
6.5.			. 272
6.6.			. 273
6.7.			. 273
6.8.			. 273
()			. 273
7.	-		. 274
IV.			. 274
1.			. 274
1.1.			. 274
2009-2015 . -			. 274
1.1.1.			. 274
1.1.2.			. 274
1.1.3.			. 274
1.2.			. 288
2009-2015 . -			. 288
1.2.1.			. 288
1.2.2.			. 288
1.2.3.			. 288
1.3.			. 301
2009-2015 . -			. 301
1.3.1.			. 301
1.3.2.			. 301



1.3.3.		. 301
1.4.		
	2017-2021 .	. 315
1.4.1.		. 315
1.4.2.		. 316
1.4.3.		. 317
2.		. 317
2.1.		
(	)	. 317
2.2.	()	. 318
2.3.		. 318
2.4.	-	. 319
2.5.		. 319
2.6.		. 322
2.7.		. 322
3.	,	. 323
4.		. 327
V.		. 331
1.	,	. 331
2.		. 332
3.		. 332
4.		. 332
5.		. 332
6.		. 332
7.		. 332
		. 333
		. 334



(. 22.01.2016 .)
2017-2021 . , .

2 76/19.04.2016 .

_____ ” “
2017-2021 .
, :
;
;
;

2017-2021 . , (.) 76
/19.04.2016 . .2

” “ 2017-2021
” .3 76/ 19.04.2016 .
, .5
76 /19.04.2016 .

” “
,
, ” “
.



I.

1.

1.1.

, :
 :“ : “ .
 : . 5000,
 , ” . . ” 30.
 : , , ,
 / ;
 , .
 , -02-16- -3/21.10.2013 .
 3868 1991 .
 405 1995 .
 49% 304 475 .,
 20.06.1997 .

		/ .
	000133997	6210
	000133933	49710
	000133901	74570
	000133844	37280
	000133778	12430
	000133673	124280
-	831661388	316900
/ .:		621380

- ;
 - ;
 - ;
 :



”

“

104055066 .

➤ :

“

“

BG104055066.

➤

210316.

:

062/618 114, 062/623723,

-mail: iliia_sirmov@vik-vt.com

1.2.

1.2.1.

346

—

204.

80%

”

“

—

,

,

,

,

,

31.12.2015 .

1.1	(/)
1	.
2	" " - , . "
3	.
4	" " , .
5	" " , .
6	" " , .
7	" " , .
8	" " , .
9	" " , .
10	, .
11	- , .
12	" " , .



13	" "
14	" "
15	" "
16	" "
17	" -1" "
18	" "
19	" "
20	" "
21	" "
22	" "
23	" "
24	" "
25	" "
26	" "
27	1, .
28	" "
29	" "
30	1, .
31	" "
32	" "
33	1, .
34	1, .
35	1, .
36	1, .
37	9/2 , .
38	9/2 , .
39	1 2, .
40	.
41	.
42	-2 .
43	" "
44	" "
45	" " " " "
46	" "
47	" " " "
48	.
49	.
50	. -3 .



51	.	.	.
52	.,	.	.
53		.	
54	.	.	.
55			.
56			.
57		- 2	.
58	.2	.	.
59			.
60		.	.
61		.	.
62		.	.
63		.	.
64		.	.
65	.	.1	.
66	.	.4	.
67	.	.3	.
68		..	....
69			.
70	.	.	.
71			-
72	.	.	.
73	.	.	.
74			.
75			.
76			.
77		- 3	.
78			.
79			.
80		.	.
81		.	.
82			.
83			.
84	.	.	.
85	.	.	.
86	.	.-2	.
87			.
88		.	..
89		-	.
90		-	.



50-80

– 85%

2047

1.2.5.

– , , “

113 : – 188 , . –

264 , 77 (126 . 66 .); –

198

74183 3.

1152 .

1.2.6.

()

1.3.

1.3.1.

294 . ,

10 , : . ,

“

”

125 .



12 265 , 9 373 ,

1. 13 340 . .

2.

- Ø 200 20 581 . .
- Ø 500 43 965 . .
- Ø 1000 10 179 . .
- Ø 1000 516 . ;
88 581 . .

- Ø 400 - 232 . .
- Ø 500 - 227 . .
- Ø 800 - 226 . .
- Ø 1000 - 407 . ;
1 092 . .

- Ø 150 - 370 . .

- Ø 200	-	28 444	..
- Ø 250	-	4 689	..
- Ø 300	-	16 230	..
- Ø 350	-	1 077	..
- Ø 400	-	5 349	..
- Ø 550	-	800	..
- Ø 600	-	6 460	..
- Ø 800	-	1 330	..
- Ø 1000	-	516	..
- Ø 1200	-	50	..
- 90/105	-	536	..
- 700/1050	-	1 176	..
- 600/900	-	2 093	..
- 110/165	-	470	..
		69 590	..

- Ø 200	-	3 157	..
- Ø 250	-	1 353	..
- Ø 300	-	4 468	..
- Ø 350	-	797	..
- Ø 400	-	3 090	..
- Ø 450	-	431	..
- Ø 500	-	3 782	..
- Ø 600	-	1 070	..
- Ø 800	-	408	..
- Ø 1000	-	338	..
- Ø 1250	-	77	..
- Ø 1500	-	1 935	..
- Ø 2000	-	776	..
- 90/105	-	536	..
- 700/1050	-	112	..
- 600/900	-	844	..
		23 174	..

- Ø 150	-	224	..
- Ø 200	-	2 302	..
- Ø 250	-	1 632	..
- Ø 300	-	17 365	..
- Ø 350	-	1 025	..
- Ø 400	-	5 916	..
- Ø 450	-	250	..

- Ø 500	- 2 296 . .
- Ø 600	- 886 . .
- Ø 800	- 572 . .
- Ø 1000	- 1 242 . .
- 80/ 120	- 595 . .
- 150/170	- 585 . .
- 150/250	- 39 . .
- 175/200	- 364 . .
- 120/150	- 342 . .
- 700/1050	- 777 . .
- 600/900	- 1 859 . .
	38 271 . .

- Ø 200	- 62 . .
- Ø 250	- 152 . .
- Ø 300	- 2 001 . .
- Ø 400	- 565 . .
- Ø 500	- 244 . .
- Ø 600	- 86 . .
- Ø 1000	- 195 . .
- Ø 1250	- 165 . .
- Ø 1500	- 312 . .
- 250/158	- 301 . .
- 210/140	- 403 . .
-	- 2 347 . .
	6 833 . .

- Ø 200	- 66 . .
- Ø 250	- 265 . .
- Ø 300	- 8 858 . .
- Ø 400	- 4 694 . .
- Ø 500	- 3 233 . .
- Ø 600	- 1 179 . .
- Ø 700	- 1 182 . .
- Ø 800	- 969 . .
- Ø 900	- 918 . .
- Ø 1000	- 1 394 . .
- Ø 1200	- 819 . .
- 800/ 1200	- 60 . .
- 900/1350	- 107 . .
- 100/150	- 668 . .
- 110/165	- 906 . .

- 1200/1800	- 1 244 . .
-	- 264 . .
	26 826 . .

- Ø 200	- 169 . .
- Ø 300	- 1 936 . .
- Ø 400	- 1 924 . .
- Ø 500	- 669 . .
- Ø 600	- 971 . .
- Ø 1000	- 603 . .
- Ø 1200	- 1 460 . .
- 240/ 152	- 2 400 . .
	10 132 . .

- Ø 150	- 326 . .
- Ø 200	- 1 916 . .
- Ø 300	- 6 855 . .
- Ø 400	- 629 . .
- Ø 500	- 2 808 . .
- Ø 600	- 256 . .
- Ø 800	- 445 . .
- Ø 1000	- 620 . .
- Ø 1500	- 139 . .
- 20/ 30	- 861 . .
	14 855 . .

“ ” 294 .

:

-	1960 - 63 .
- 1961	1970 -48 .
- 1971	1980 - 91 .
- 1981	1990 -71 .
- 1991	2000 - 20 .
- 2000	- 1 .



1.3.2.

65

25

1.3.3.

45

, 8

5329

4

1.3.4.

)

1.4.

—

1.4.1.

26

1.4.2.

—

1.4.3.

—



1974 . 1982 .

165 000

37 500 m³.

-
-
-
-
-
-
-
-

/ /



-
-

/II

1993 . / (USAID)

38000 . / - 440 / ,

: „ ”.

1994 . ’ : “

— ”.

(38000

I- 2000 .

II-

1 250 000 .

1.4.4. —



2004 .-2006 .

ISPA
21.12.2007 .

16 028 m³

2030 . 102 550 .
:

- , - , ; ,
- , - ;
- ; - - ;
- , ; -
- , () , , , ;
- , - .

SCADA

2017 .

2019 .



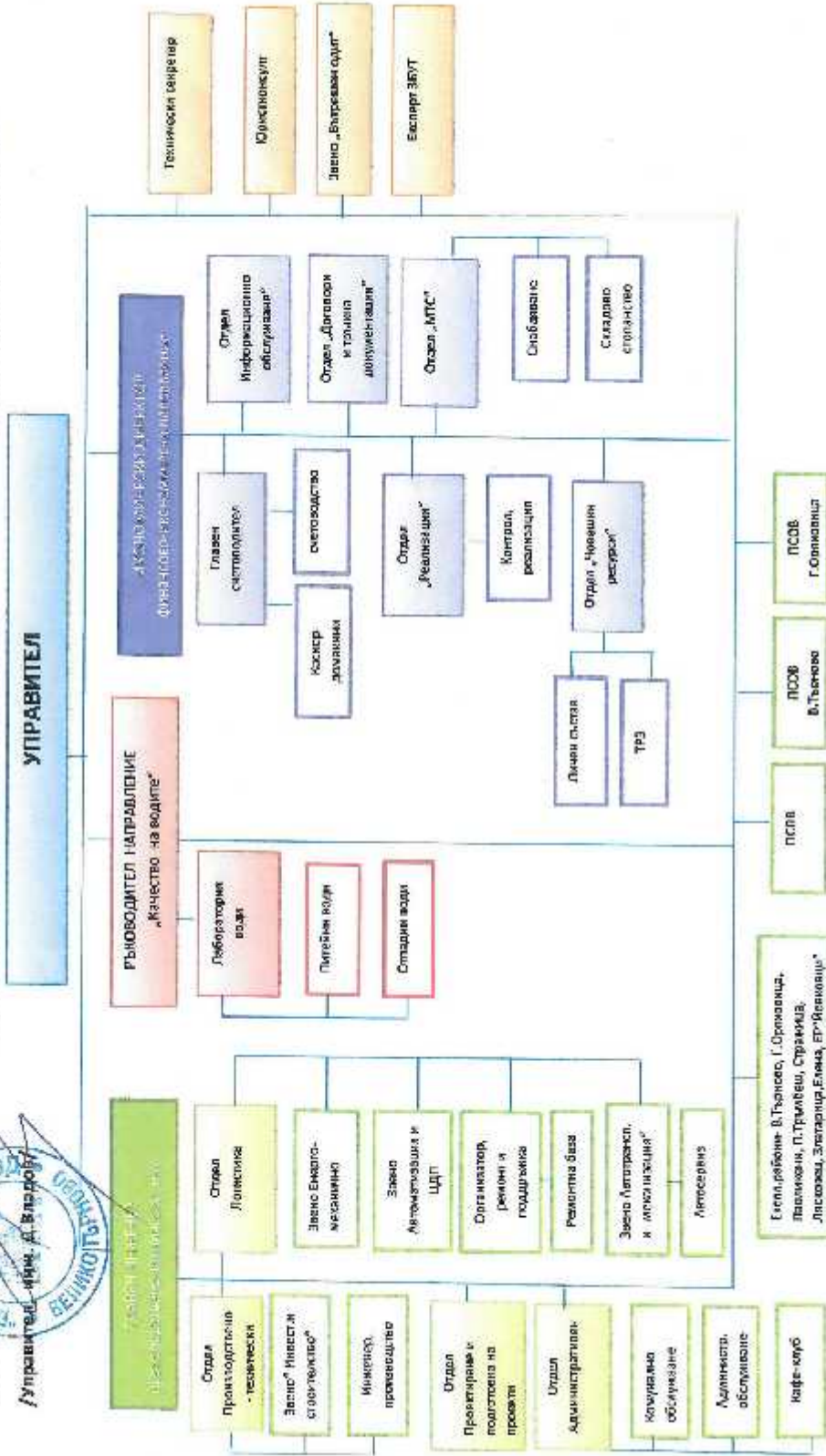
ВОДОСНАБДЯВАНЕ И КАНАЛИЗАЦИЯ - ЙОВКОВЦИ - ООД

5000 В. Търново, ул. "П. К. Яворов" 30, тел: 062/ 62 20 91, факс: 63 98 53, www.vik-vt.com

ВК ВОДОСНАБДЯВАНЕ И КАНАЛИЗАЦИЯ - ЙОВКОВЦИ - ООД

Утвърждавам: *[Signature]* В сила от: 15.04.2015г. приложение №1

Управляем: *[Signature]* ОРГАНИЗАЦИОННО-УПРАВЛЕНСКА СТРУКТУРА





1.5.2.

–

” “

,

().

,

,

,

“ ” “

.

,

.

()

() .

2017 .

,

,

.

1.6.

18/23.01.1998 .

- 64/06.04.2001 .

–

“ ”

,

,

,

,

,

.

–

,

.

,

,

,

.

–

,

.

,

.



“ ’ (%) - ”

()	79,8	82,4
	16,3	25,2
	12,2	27,1
-		
,	6,9	9,3
/	6,6	22,5
	6,3	11,9
/		
	6,2	29,2
	3,3	
	0,5	
	4,0	

	59%	32%	5%	4%	
”					
	36%	42%	18%	4%	
	42%	9%	28%	19%	3%
,		-	-		



(%)

	3,1	3.4
	9,1	4.1
	6,3	15.2
	14,3	11.7
	15,5	-
	2,8	2.8

36-45 18 45 , 1/3 (35,8%)

- 7,3% 18-

25 .

4.

ТА

” : “

” ” ” (727),

” EuropeAid/124337/D/SER/B –

– Europe Aid 120 187/D/SER/BG” –

SCE – PM – WMI –

” –

()



” “ .

()

— ’

5.

’

2017-2021 . ’

”

II

’

”

“

				.
				.
				.
				.

” 2015 . ” 1733990 . . .

”

- 4 :
- ” -
 - ” -
 - ” 2”
 - ” -

1	2	3	4	5
1	.	“ ”		.
		“ ”		
		“ ”		
		” 2”		

3- , -
 4- , ”

- ” - 11510619/24.01.2011 .
 611/15.11.2011 .
- ” - 11510530/23.06.2010 .
 1864/23.03.2016 .
- ” 2” - 11510517/09.06.2010 .
- ” - 11510437/25.11.2009 .

9/16.03.2001 .



2015 . . :

	iD51a	,		261
	iD62a	,	,	85
	iD63a	,	,	85
	iD64a	,	,	87



iD65a	,	,	4
D51a	,	,	265
	.135, .3	.	
D62a		;	87
D63a		;	87
D64a	-	;	87
D65a		.	4

”

98,49 %.

”

99 %.

:

➤ 2- , - ,
 9/16.03.2001 . ,

➤ " 4- , .

➤ , " 9/16.03.2001 .
 " " " " .

➤ . .

2.3.

/22.01.2016 ., "
 1000 . . / , 5000 ,
 84 " , " " .

1	2	3	4	5



13		1		.
14		9/2		..
		9/2		...
				.
				.
15				.
				.
16		" "		.
		" "		
		" "		
		" "		
		" "		
17		" "		.
		.		.
		.		.
				.
18		" "		.
		" "		.
19				.
				.
20		" "		.
		.		.
21		" "		.
				.
22		-2		.
23				.
24		" "		.
25		" "		.
26		" 1"		.



		" 2"		.
27		1 2		.
28		"		.
29		"		.
		" "		.
		" "		.
		" "		.
30	.	1 2		..
31		- 3		.
32				.
33				.
34		1 2		.
35		- 3		.
36				.
37				.
38		- 2		.
39		- 3		.
40		- 2		.
41				.
42		- 2		.
43				.
44				.
45				.
46		- 2		.
47		" "		." "
48		- 3		.
49				.

50				.
51				.
52				.
53				.
54				.
55				.
56				.
57		" "		.
58				.
59				.
60		- 2		.
61		1		.
62		" "		.
63		- 2		.
64		" "		.
65				.
66		- 3		.
67		- 2		.
68		- 2 - 1		.
69				.
70		" ", " "		.
71		1		.
72		" "		.
73		- 2		.
74		" "		.
75		" "		.

76				.
77				.
78		- 4		.
79		- 2		.
80	.	- 3		..
81		" " "	"	.
82		1 2		.
83				.
84	.	" " " "		..

84-
" "

()		
" "	1186/01.10.2002 . 1186/12.05.2004 . 01410001/30.06.2008 .	05.06.2004 . 12.11.2005 . 30.06.2018 .
" " - , .	101015/17.06.2005 . 11510437/25.11.2009 .	17.06.2010 . 18.06.2020 .
.	101182/17.10.2005 . 11510566/18.10.2010 . . 589/27.09.2011 .	17.10.2010 . 31.12.2011 . 01.01.2017 .
" " , .	101183/17.10.2005 . 11510560/12.10.2010 . . 583/26.09.2011 .	17.10.2010 . 31.12.2011 . 01.01.2017 .
" " , .	101189/17.10.2005 . 11510559/12.10.2010 . . 581/21.09.2011 .	17.10.2010 . 31.12.2011 . 01.01.2017 .
" " , .	101306/20.12.2005 . 11510567/18.10.2010 . . 590/27.09.2011 .	20.12.2010 . 31.12.2011 . 01.01.2017 .
" " , .	101334/10.01.2006 .	10.01.2031 .
" " , .	101370/01.02.2006 . 11510588/09.12.2010 . . 585/26.09.2011 .	01.02.2011 . 31.12.2011 . 01.01.2017 .

" "	101377/06.02.2006 11510587/02.12.2010 . 584/26.09.2011	. . . . .	06.02.2011 31.12.2011 01.01.2017
" "	101410/27.02.2006 11510589/09.12.2010 . 587/27.09.2011	. . . . .	27.02.2011 31.12.2011 01.01.2017
" "	101442/22.03.2006 11510619/24.01.2011 . 611/15.11.2011	. . . . .	22.03.2011 23.03.2012 24.03.2017
" "	101493/20.04.2006	. .	20.04.2011
" "	101494/21.04.2006 11510621/27.01.2011 . 696/22.03.2012 . 919/09.11.2012	. . . . . . .	21.04.2011 22.04.2012 23.04.2013 24.04.2018
" "	101502/25.04.2006 11510620/27.01.2011 . 695/22.03.2012 . 920/09.11.2012	. . . . . . .	25.04.2011 26.04.2012 27.04.2013 28.04.2018
" "	101509/28.04.2006 11510590/09.12.2010 . 588/27.09.2011	. . . . .	28.04.2011 31.12.2011 01.01.2017
" -1" "	101550/31.05.2006 . 414/02.03.2011 . 757/18.05.2012 . 1263/14.02.2014	. . . . . . .	31.05.2011 01.06.2012 02.06.2014 03.06.2024
" "	101551/31.05.2006 . 415/07.03.2011 . 753/16.05.2012 . 1261/05.02.2014	. . . . . . .	31.05.2011 01.06.2012 02.06.2014 03.06.2024
" "	101552/31.05.2006 . 416/07.03.2011 . 754/16.05.2012 . 1260/05.02.2014	. . . . . . .	31.05.2011 01.06.2012 02.06.2014 03.06.2024
" "	101560/06.06.2006 11510627/10.02.2011 . 760/19.05.2012 . 1266/21.02.2014	. . . . . . .	06.06.2011 07.06.2012 08.06.2014 09.06.2019
" "	101561/06.06.2006 . 453/06.06.2011 . 759/19.05.2012 . 1264/14.02.2014	. . . . . . .	06.06.2011 07.06.2012 08.06.2014 09.06.2019
" "	101563/06.06.2006 . 405/17.02.2011 . 758/18.05.2012 . 1276/10.03.2014	. . . . . . .	06.06.2011 07.06.2012 08.06.2014 09.06.2024
" "	101571/15.06.2006 11510626/03.02.2011 . 763/22.05.2012 . 1277/11.03.2014	. . . . . . .	15.06.2011 16.06.2012 17.06.2014 18.06.2024
" "	101576/20.06.2006	. .	20.06.2011
" "	101577/20.06.2006	. .	20.06.2011

" "	101787/16.11.2006 . 565/29.08.2011	16.11.2011 . 17.11.2016
" "	101843/18.12.2006 . 577/15.09.2011	18.12.2011 . 19.12.2016
1, .	101919/05.02.2007	05.02.2012
" "	101922/09.02.2007 . 606/02.11.2011	09.02.2012 . 10.02.2017
" "	101923/09.02.2007 . 613/16.11.2011	09.02.2012 . 10.02.2017
" "	101925/09.02.2007 . 600/18.10.2011	09.02.2012 . 10.02.2017
" "	101930/19.02.2007 . 674/01.03.2012 . 921/09.11.2012	19.02.2012 . 20.02.2013 . 21.02.2018
1, .	11510004/22.03.2007 . 947/29.11.2012 . 4- 00024/11.11.2014 . 4- 00146/11.11.2014	22.3.2013 . 23.03.2019 . 23.03.2019 . 23.03.2019
1, .	11510006/26.03.2007 . 949/30.11.2012	26.03.2013 . 27.03.2019
1, .	11510007/26.03.2007	26.03.2013
1, .	11510036/18.04.2007 . 970/10.01.2013	18.04.2013 . 19.04.2019
1, .	11510037/18.04.2007 . 971/11.01.2013	18.04.2013 . 19.04.2019
9/2 , .	11510038/18.04.2007 . 977/15.01.2013	18.04.2013 . 19.04.2019
9/2 , .	11510039/18.04.2007 . 978/15.01.2013	18.04.2013 . 19.04.2019
1 2, .	11510040/18.04.2007 . 981/16.01.2013	18.04.2013 . 19.04.2019
.	11510143/19.12.2007	19.12.2032
.	11510144/19.12.2007	19.12.2032
-2 .	11510517/09.06.2010	09.06.2016
" "	11510530/23.06.2010 . 1864/23.03.2016	23.06.2016 . 23.06.2026
" "	11510534/13.07.2010	13.07.2016
" " " "	11510609/19.01.2011	19.01.2017
" "	11510646/09.06.2011 . 1857/18.03.2016	09.06.2016 . 09.06.2021
" " " "	11510647/09.06.2011 . 1862/22.03.2016	09.06.2016 . 09.06.2026
.	11510792/17.09.2012	17.09.2037
" "	11510964/08.09.2014	08.09.2024

” ”

2015 .
 109266.34 .

- ,

9/16.03.2001 . , - .

,

50 / .

2015 .

:

	2015 .	mg/l	2015 .
1.		63,60	
2.		97,20	
3.		55,00	
4.		56,70	
5.		75,60	
6.		98,65	

2015 .

		mg/l	mg/l
		2014 .	2015 .
1.		80,25	63,60
2.		51,50	38,25
3.		144,00	97,20
4.		61,30	50,00
5.		68,35	40,80

6.		75,00	55,00
7.		63,97	30,40
8.		60,60	56,70
9.		67,95	75,60
10.		56,75	48,10
11.		53,25	49,70
12.		116,40	98,65
13.		121,80	3,6

2015 .

9/16.03.2001 .

2015 . :

	iD51b			413
	iD62b			133

iD63b	,		134
	;		
iD64b	,	-	137
	;		
iD65b	,	.	9
	.		
D51b	,	,	450
	,	,	
	.135, .1, .		
3	.		
D62b	,		147
	;		
D63b	,	;	147
	.		
D64b	,	-	147
	;		
D65b	,	.	9
	.		

” 2015 . 91.78%.”

98%.

→ -

84-

9/16.03.2001



5		

„ „ 2015 . „

		2014 .						
			I	II	III	I	II	III
1	(0 .)	>100 000	3	2	2	III, VI, XI	VI, XI	III, VI
2	- 5 . -	1	3	2	2	III, VI, XI	VI, XI	III, VI
3	- 20 . -		3	2	2	III, VI, XI	VI, XI	III, VI
4	- 25 . -		3	2	2	III, VI, XI	VI, XI	III, VI
5	- 30 . -		3	2	2	III, VI, XI	VI, XI	III, VI
6	1000 .		3	2	2	III, VI, XI	VI, XI	III, VI

„ „

„ „

„ „

1/ .87 2007 .

1		H	6,5 9,5
2		$\mu\text{S.cm}^{-1}$	2000
3		mg-eqv/l	12
4		mg ₂ /l	5
5		mg/l	0,5
6		mg/l	50
7		mg/l	0,5
8		mg/l	250
9		mg/l	250
10		mg/l	0,5
11		mg/l	1,5
12		$\mu\text{g/l}$	50
13		mg/l	200
14		mg/l	150
15		mg/l	80
16		mg/l	1,0
17		mg/l	1,0
18		$\mu\text{g/l}$	1,0
19		$\mu\text{g/l}$	5,0
20		mg/l	0,2
21		$\mu\text{g/l}$	20
22		$\mu\text{g/l}$	10
23		$\mu\text{g/l}$	10
24		$\mu\text{g/l}$	50
25		$\mu\text{g/l}$	200
26		$\mu\text{g/l}$	200
27		$\mu\text{g/l}$	50
28		$\mu\text{g/l}$	5,0
29		$\mu\text{g/l}$	10
30		mg/l	0,06



31		µg/l	1,0
32	()	µg/l	0,01
33	1,2	µg/l	3,0
34		µg/l	0,10
35		µg/l	10
36		µg/l	0,10
37	()	µg/l	0,50
38		µg/l	50
39	-	Bq/l	1,0
40	-	Bq/l	0,5
41		mSv/y	0,1

”

”

:

.					I
.					I
.	- - 2				VI
.	- -				VI
.	" - "	577/15.09.2011 .			III
.	- "	101843/18.12.2006			III
.					III
.					III, VI
.					III
.					III
.	1" - "	101334/10.01.2006			VI
.	" "				III
.	"				II
.	" "				II
.	" "1				III

	" "2				
	1				VIII
	2				VIII
					VIII
					I
	" "	589/27.09.2011 .			VIII
	" "	11510566/18.10.2010			VIII
	<1 l/s				VIII
					IV
					VIII
					VIII
	" 1	981/16.01.2013 .			VIII
	" "	11510040/18.04.2007			VIII
	<1 l/s				VIII
	" 2				VIII
	" "				XI
	<1 l/s				VIII
					VIII
					IX
	" "	584/26.09.2011 .			VIII
	" "	11510587/02.12.2010			VIII
	<1 l/s				VIII
					III
					VIII
					VIII
	" "	581/21.09.2011 .			VIII
	" "	11510559/12.10.2010			VIII
	<1 l/s				VIII
					III
					VIII
					VIII
	" "	590/27.09.2011 .			VIII
	" "				VIII



	<1 l/s	11510567/18.10.2010			VIII III VIII VIII VIII
	"	583/26.09.2011			VIII
	"	11510560/12.10.2010			VIII VIII
	<1 l/s	" " "			III VIII VIII VIII
					III
					V
	/				V
	/				III
					VII
	3 / /				VIII
					XI
					II
	1				VI
	2				VI
					X
					IV
	1				IX
	2				IX
	3				IX
	"	1263/14.02.2014			II
	1 - "	101550/31.05.2006			II
	"				II
	2 - "		x		II, VII
	"				II
	-				II

	""				
.	"	921/09.11.2012 .			VI
	"	101930/19.02.2007		x	VI
	"				VI
	"	600/18.10.2011 .			VI, XI
	"	101925/09.02.2007		x	VI
	"				VI
					VI
.					IX
.					VII
.					IX
.					IV
.					XI
.					XI
.					VII
.	1+ 2/ /				II
.	1+ 2+ 3/ /				VIII
.	1+ 2+ 3/ /				II
.	1+ 2/ /				X
.					IX
.					VIII
.	1+ 2+ 3/ /				V
.					II
.	1+ 2+ 3/ /				III
.	"	919/09.11.2012 .			IV
	"	11510621/27.01.2011			IV
	<1 l/s			x	IV
					IV IX
					IV

	"	1260/05.02.2014 .			IV
	- "				V
	- "	101552/31.05.2006			V
	<1 l/s			x	V
					V IX
					V
					V
	"	1261/05.02.2014 .			V
	- "				
	- "	101551/31.05.2006			V
	<1 l/s			x	V
					V IX
					V
					V
	"	920/09.11.2012 .			IV
	- "				
	- "	11510620/27.01.2011			IV
	<1 l/s				IV
					IV IX
					IV
					IV
					IV
					IV
	"	585/26.09.2011			IX
	- "				
	- "	11510588/09.12.2010			IX
	<1 l/s				IX
					IV IX
					IX
					IX
	" 9/2	977/15.01.2013 .			VII
	- "				
	- "	11510038/18.04.2007			VII
					VII
					VII IX
					VII
					VII
	" 9/2	978/15.01.2013 .			VII
	- "				
	- "				VII
					VII

	"	11510039/18.04.2007			VII IX
					VII
					VII
	" 1	971/11.01.2013 .			II
	- . "				II
		11510037/18.04.2007			II
					II V
					II
					II
					II
					VIII
	"				
	- "	11510143/19.12.2007			IV
					XI
					XI
	" 1	970/10.01.2013 .			II
	- . "				II
	< 1 l/s	11510036/18.04.2007			II
					II V
					II
					II
					X
	"				
	"	11510144/19.12.2007			VII
					III
	" .	587/27.09.2011 .			VIII
	- "				
	<1 l/s	11510589//09.12.2010			VIII
					VIII
					VIII
					VIII
					VIII
					IX
	6				II
	4 .				IV



					X
					X
					VI
					IV
	"	606/02.11.2011			V
	"	101922/09.02.2007		x	V
					V
				x	V, IX
					V
				x	V, IX
	"	613/16.11.2011			V
	"	101923/09.02.2007			V
	<1 l/s			x	V
					V, IX
				x	V
					V, IX
	" 1	949/30.11.2012			V
	"	11510006/26.03.2007			V
	<1 l/s			x	V, IX
					V
				x	V, IX
	" 1	947/29.11.2012			V
	"	11510004/22.03.2007			V
	<1 l/s			x	V, IX
					V
				x	V, IX
	1 +				VIII
	2				VIII
	3				VIII
					IX

					XI
	" "				I
	2				V
					XI
					XII
	" "	611/15.11.2011 .			X
	" "	11510619/24.01.2011			X
	" "				X
	" "			x	IV X
					X
					X
				x	IV X
	" " 1-	11510530/23.06.2010			X
	" "				X
	" "				X
	" "				X
	" "			x	IV X
	" "				X
	" "				X
	" "				X
	" "			x	IV X
	" 2" -	11510517/09.06.2010			VII
	" "				VII
	" "				VII
	" "				VII
	" "				VII
	" "				VII
	" "				VII
	" "				VII
	" "	11510646/09.06.2011			VII
	" "				VII
	" "				VII
	" "			x	VII, XII



					VII
					VII
	"	11510437/25.11.2009			VI
	"				VI
	"				VI
	"				VI
	"				VI
	"				VIII
	"				III
	"				III
	"	565/29.08.2011			III
	"	101787/16.11.2006			III
	<1 l/s			x	III
					III, VI
					III
				x	III, VI
	"	1264/14.02.2014			III
	"	101561/06.06.2006			III
	<1 l/s			x	III
					III, VIII
					III
				x	III, VIII
	"	1266/21.02.2014			VIII
	"	11510627/10.02.2011			VIII
	<1 l/s				VIII
					IV
					VIII
					VIII
					IV
					VIII
	"	11510534/13.07.2010			X
	"				X
	"				X



					X III, X X X X X III, X
					X
					XI
					II
					VI X
		1276/10.03.2014 .			X X VI X X X
		101563/06.06.2006			VI X
	4				V V
		11510964/08.09.2014			V V V, XI V V V, XI
				x	VII
					IX
					VIII
					II
		11510647/09.06.2011			V V V V, IX
				x	



					V
				x	V V, IX
	"	11510609/19.01.2011			X X X IV X X X IV X
	"	1277/11.03.2014			X
	"	11510626/03.02.2011			X X IV X X X IV X
	"	11510590/09.12.2010			X X X IV X X X IV X
	"				VI
	"				VI
	"	11510792/17.09.2012		x	VI VI VI VI, VIII VI VI VI, VIII
	"			x	VI, VIII
	"				X



3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

) :

1		
2		
3		
4		5



		” ” ” ”
5		5 ” ” ” ”
6		5 ” ” ” ”
7	()	5 ” ” ” ”
8		
9		5
10		,
11	1,2-	5 ” ” ” ”
12		,
13		5 ” ” ” ”
14		5 ” ” ” ”
15		



16		5 " " "
17		
18		
19		5 " " "
20		5 " " "
21	()	5 " " "
22		5 " " "
23		5 " " "
24		5 " " "
25	()	5 " " "
26	()	5 28.11.2015 .



27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		5 ” ” ” ”
42		.” ”(V>10000 . / .)
43		
44		
45		,
46		
47		
48		
49		

1	2	3	4	5	6	7	8	9
1	" "		162781					
			68984	7	4	1	8	1
			585	2	1		1	
			554	2	1		1	
			122	1	1		1	
			844	2	1		1	
			491	1	1		1	
			69	1	1		1	
			121	1	1		1	
			158	2	1		1	
			880	2	1		1	
			265	1	1		1	
			1612	2	1		1	
			48	1	1		1	
			134	2	2		1	
			222	1	1		1	
			2199	2	1		1	
			42	2	1		1	
			283	1	1		1	
			225	1	1		1	
			364	2	1		1	
			535	2	1		1	
			759	2	1		1	
			3984	2	1		2	
			37	2	1		1	
			30708	4	1		3	1

		2410	2	1		1	
		1864	2	1		1	
		2661	2	1		1	
		554	2	1		1	
		610	2	1		1	
		601	2	1		1	
		2838	2	1		1	
		787	2	1		1	
		1025	2	1		1	
		8025	2	1		2	1
		316	2	1		1	
		241	1	1		1	
		904	2	1		1	
		1765	2	1		1	
		408	2	1		1	
		857	2	1		1	
		540	2	1		1	
		799	2	1		1	
		2124	2	1		1	1
		96	2	1		1	
		534	2	1		1	
		508	2	1		1	
		5304	4	1		2	
		229	2	1		1	
		93	2	1		1	
		109	2	1		1	
		80	2	1		1	
		9	1	1		1	
			1	1		1	
		12	1	1		1	
		4372	2	1	1	2	
		4190	2	1	1	2	1
		1723	2	1		1	
		1650	2	1		1	
		653	2	1		1	
		707	2	1		1	

118

65

3

75

5

1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---

2			10275	4	2	1	2	1
---	--	--	-------	---	---	---	---	---

4 2 2 1

.1: 122 67 4 77 6

.2

1 000 ³
5 000

1	2	3	4	5))	
					6	7	8	9
1								
			23	2			1	
			11	1				
			9	1				
			3	1				
			7	1				
				1				
				1				
			9	1				
			16	1				
			17	1	1			
			4	1	1			
			34	1			1	
			1	1				
2	" "		31	2	1		1	
			15	1			1	
			3	1				
3			238	1		1	1	
			702	1	1		1	
			207	2	1		1	
4			1014	2	1		1	

			26	1			1	
			221	2			1	
5			47	1	1		1	
			836	2	1		1	
6			10	2	1		1	
				2			1	
7			4	1	1		1	
			5	1	1		1	
8			14	2	1		1	
			1	1			1	
9		" "		1	1		1	
10		" "		1	1		1	
11		" "		1	1		1	
12			352	2	1		1	
			268	2	1		1	
			140	2	1			
13			1305	2	1		2	
14			263	2	1		1	1
			147	2	1		1	
			802	2	1		1	
			764	2	1		1	
15			88	2	1		1	
			40	2	1		1	
16			1753	2	2		2	1
17			156	2	1		1	
			205	2	1		1	
			86	2	1			
18			341	2		1	1	
			1373	2	1		1	
19			191	2	1		1	
			246	1	1		1	
20			391	2	1		1	



		.	890	2	1		1	1
21		.	277	2	1		1	
		.	140	2	1		1	
22		.	1876	2	2		2	1
		.	345	2	1		2	
23		.	366	2	1		1	
		.	173	2	1		1	
24		.	33	1	1		1	
		.	31	2	1		1	
25		.	25	1	1		1	
		.	12	1	1		1	
26		.	306	2	1		2	
		.	296	2	1		1	
27		.	47	2	1		1	
		.		1	1		1	
28		.	13	1			1	
		.	23	1	1		1	
29		.	23	1	1		1	
		.	34	2	1		1	
30		.	54	2	1		1	
	04.	.	101	2	1		1	
31		.	79	1	1		1	
		.	103	2	1		1	
32		.	124	2	1		1	
		.	59	2	1		1	
33		.	65	2	1		1	
		.	65	2	1		1	
34		.	3	1	1		1	
		.	24	2	1		1	
35		.	6	1	1		1	
		.	53	2	1		1	
36		.		1	1		1	
		.		1	1		1	
37		.	128	2	1		1	
		.						
38		.						
		.						
39		.						
		.						
40		.						
		.						
41		.						
		.						
42		.						
		.						
43		.						
		.						
44		.						
		.						
45		.						
		.						
46		.						
		.						
47		.						
		.						
48		.						
		.						



49			8	1	1		1	
50			17	1	1		1	
51			11	1	1		1	
52			6	1	1		1	
53			1	1	1		1	
54			222	2	1		1	
55			1506	2	3		1	
56			100	2	1		1	
			631	2	1			
57			139	2	2		1	
58			368	2	1		2	
59			576	2	1		2	
60			4	1	1		1	
61			169	2	1		1	
62			191	1	1		2	
63			636	2	1		1	
64			280	2	2		1	
65			444	2	2		1	
66			642	2	2		1	
67			866	2	2		1	
68			642	2	1		1	
69			419	2	1		2	
70			555	2	1		1	
71			126	1	1		1	
72			1790	2	2		2	1
73			700	2	1		1	
74			784	2	1		1	
75			397	2	1		1	
76			494	2	1		2	
77			996	2	2	1	2	
78			454	2	3		1	
79			465	2	1		1	
80			97	2	1		1	
81			137	2	1		1	
82			1262	2	2		2	1
83			703	2	1		1	
84			680	2	3		1	

.2 :

199

117

3

119

6

.1 .2: 321 184 7 196 12

2

2015 .

	I		II		III		IV		V		VI		VII		VIII		IX		X		XI		XII			
1	9	0	6	0	5	1	1	0	5	0	5	0	3	0	3	0	3	0	2	0	1	1	2	0	45	2
2	2	0	3	1	3	0	1	0	2	0	1	0	1	0	1	0	0	0	1	0	0	0	1	0	16	1
3	0	0	1	0	1	0	0	0	1	0	1	1	1	0	0	0	1	0	1	0	2	0	1	0	10	1
4	2	0	5	0	3	0	2	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	14	1
5	0	0	6	0	9	0	2	0	3	0	7	0	0	0	0	0	5	0	6	0	3	0	0	0	41	0
6	0	0	3	0	2	0	0	0	1	0	4	1	4	0	1	0	3	0	1	0	2	0	0	0	21	1
7	3	0	2	0	0	0	4	0	0	0	4	0	0	0	0	0	2	0	0	1	2	0	1	0	18	1
8	5	1	4	0	2	1	2	0	2	0	3	1	3	0	3	0	1		2	2	3		1	0	31	5
	21	1	30	1	25	2	12	0	15	0	25	3	12	0	8	0	16	0	13	4	13	1	6	0	196	12

Drinking Water,

2.5.

– , , , ,

1. – ” ” 201 .

) I

- I,

- II III , -

) ()

- ” ”

2. ” ”

- ()

- ,

- ,

3.

-

,

-

,

,

,

4.

-

,

”

”

,

-

,

,

-

,

,

5.

-

,

II III

-

-

,

-

,

-

6.

-

(

)

-

,

,



2.6.

3 8,51,
2021 . 8,00.

2.7.

2.7.1.

(Q8)
2015 . 4,94%.
4,20%.
2021 .

2.7.2.

(Q7)
2015 . 54,4%.
52,50%.
2021 .

5,88 12,62

2.7.3.

(Q3A)

.4

.28, .2 – (Q71 – Q3 Q7 –
 , 0 , –
).

2.7.4.

, , .4 .28,
 .2. .2.7.1 2.7.2.

– 59,3% 4 , 56,71% .

2.8.

, , . 5 60,29
 2021 . 2015 . 70,93 /100 / .

2.9.

28,33%. 6 80,65%
 / , 50 . , 17 2015 .

2.10.

.2.9 ,
 , .
 , ” “ .
 , 10 ,
 , , , , ,
 , , , 33 .



6 . - 21 , . 3 . -
10 . .

2.11.

1,25% 11 0,97%
-

3.

3.1.

2015 . 2017-2021 .

:

			/ .		/ .	%		/ .	%	
1	2015 .	320	206305	9	121720	59.0	311	84585	41.0	95303
2	2016 .	320	204428	9	120613	59.0	311	83815	41.0	95315
3	2017 .	320	202550	11	123555	61.0	309	78995	39.0	96864
4	2018 .	320	200707	11	122431	61.0	309	78276	39.0	97147
5	2019 .	320	198881	14	123306	62.0	306	75575	38.0	98159
6	2020 .	320	197071	14	122184	62.0	306	74887	38.0	98171
7	2021 .	320	195278	14	121072	62.0	306	74206	38.0	98183

62%

2021 .

75%.

”

“



3.2.

9 138,69 2021 . 2015 . 173,47 /100 / .

канализационна мрежа
сътс значителна дължини.

3.3.

10,
0,5, 2015 .
0,31 /10000 .
0,19 2021 . 2020 2021 .
1 .,

4.

4.1.

2015 . 2017-2021 .

			/ .		/ .	%		/ .	%	
1	2015 .	320	206305	3	97582	47.3	317	108723	52.7	79483
2	2016	320	204428	3	96694	47.3	317	107734	52.7	79483
3	2017 .	320	202550	6	114360	56.5	314	88190	43.5	85492
4	2018 .	320	200707	6	113319	56.5	314	87388	43.5	85492
5	2019 .	320	198881	9	114754	57.7	311	84127	42.3	86492
6	2020 .	320	197071	9	113710	57.7	311	83361	42.3	86492
7	2021 .	320	195278	9	112675	57.7	311	82603	42.3	86492

57,7%

2021 .

75%.

4.2.

(

2015 .),
100%.

1.

()
 – 2015 .

	(/)	i(/)									
		1		2		3		4		5	
		1	2	1	2	1	2	1	2	1	2
	6.0-8.5	8.190	8.720	7.750	8.460	7.860	8.250	7.850	8.170	8.000	8.110
	60	98.000	284.000	86.400	67.400	81.200	75.600	75.800	32.800	13.200	88.800
5	25	200.000	480.000	53.000	130.000	120.000	110.000	120.000	65.000	9.000	130.000
	125	390.000	960.000	160.000	290.000	270.000	260.000	260.000	150.000	37.000	280.000
()	1.5	0.074	0.230	0.110	0.140	0.180	0.031	0.039	0.140	0.170	0.080
	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
()	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

	0.05	1.36 0	2.930	0.460	1.670	0.790	1.120	0.820	0.800	0.290	0.990
	3	11.9 00	25.60 0	3.300	8.800	6.200	7.100	<2.0	9.800	5.000	5.000
	0.3	<0.0 2	0.590	<0.02	<0.02	<0.02	0.430	<0.02	<0.02	<0.02	0.680

– 2015 .

	(/)	i (/)			
		I-	II-	III-	IV-
	6.0-8.5	8.690	8.180	8.280	7.900
	35	421.200	432.800	414.400	371.200
5	25	440.000	480.000	250.000	520.000
	125	1000.000	1100.000	720.000	1180.000
	15	124.000	54.000	97.000	66.000
	2	12.450	6.250	10.700	11.500
()	1.5			0.098	
	0.05			<0.005	
	0.2			0.013	
	5			0.540	
	0.01			<0.005	
	0.1			0.047	
()	0.05			<0.05	
()	0.5			<0.05	
	0.5			0.106	
	3	115.000	<2.0	12.400	34.400
	0.3	0.880	<0.02	0.350	<0.02

– 2015 .

	(/)	i (/)			
		I-	II-	III-	IV-
	6.0-8.5	7.73	7.56	7.59	7.97
	35		31.2		1.6
5	25		24		2.6
	125		120		16
()	1.5				0.058
	0.01				<0.005
	0.1				0.018
	0.05				<0.005
()	0.05		<0.05		
	0.2				<0.005
	5				0.045
	0.5		0.019		
	1		0.15		
	0.05		<0.10		
	3				<2.0
	0.3				<0.02

– 2015 .

	(/)	i (/)			
		I-	II-	III-	IV-
	6.0-8.5	7.68	7.63	7.45	7.79
	35		23		6.2
5	25		4.8		3.6
	125		31		28
	3				<2.0
	0.3				<0.02

2015 .

– 2015 .

	(/)	i (/)					
		1		2		3	
		1	2	1	2	1	2
	6.0-8.5	7.73	7.64	7.75	7.75	7.68	7.66
	35	8	<1	28.8	16.4	34	40.8
5	25	8	1.6	19	48	19	17
	125	16	8	80	110	84	87
	15	8	4.6	14.8	14.4	14.6	12
	2	0.4	0.17	1.56	1.98	1.34	1.43
	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
()	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	0.5	<0.05	0.05	<0.05	0.05	<0.05	0.05

()							
	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	0.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	5	<0.005	0.11	0.11	0.044	0.041	0.01
	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	0.1	0.037	0.037	0.048	0.043	0.051	<0.005
()	1.5	0.076	0.17	0.2	0.026	0.058	<0.005
	0.05	<0.10	0.36	<0.10	0.38	<0.10	0.47
	0.5	<0.01	<0.01	<0.01	<0.01	0.055	<0.01
	3	<2.0	<2.0	6.4	<2.0	<2.0	<2.0
	1	0.18	0.11	0.47	0.98	0.51	0.75
	0.3	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

” ”

2.

”

”

,

,

”

”

,

”

 13140130/06.07.2009 .,
 1744/15.10.2015 .

 13140131/06.07.2009 .,
 1883/05.05.2016 .

13140252/09.09.2014 .

) (2015 .
):
) :
 - 2015 .

	2015 .					2015 .				
	105		5	N		105		5	N	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	50,0	115	59	16,8	1,88	3,6	25	2,0	13,4	0,96
	43,2	150	68	18,2	1,73	<1,0	20	1,8	12,4	1,64
	10,8	105	52	13,0	1,85	1,4	23	1,7	11,4	1,16
	74,4	230	100	16,2	1,57	2,0	20	1,2	11,0	0,71
	82,0	265	100	17,4	2,07	1,4	23	1,0	10,4	1,18
	106,0	300	160	19,0	2,18	1,2	19	1,2	5,6	1,02
	35,6	210	100	18,6	2,41	1,8	24	2,1	6,3	0,62
	90,0	230	110	23,8	2,65	1,8	20	1,6	5,2	0,79
	110,4	230	110	20,2	2,47	2,2	25	1,7	2,1	0,51
	42,4	170	98	16,0	1,94	1,4	24	2,8	4,7	0,94
	23,6	160	94	15,6	1,74	<1,0	20	1,7	4,9	1,53
	66,0	250	150	20,0	2,60	1,2	19	1,9	1,0	0,50
	53,6	350	240	19,2	2,63	<1,0	20	1,1	1,9	1,53
	58,0	200	110	12,8	2,72	<1,0	19	0,8	0,8	1,52
	46,8	230	150	14,4	1,92	1,4	12	1,2	0,8	1,14
	330,0	370	190	13,4	2,74	1,2	21	1,9	2,0	1,90
	11,2	170	70	13,8	2,49	<1,0	21	1,4	3,9	1,98
	33,6	165	97	10,2	3,35	1,4	17	1,0	3,5	1,47
	36,4	165	57	15,2	1,84	1,2	20	1,3	8,6	1,77
	61,2	170	86	13,2	2,08	<1,0	20	0,8	8,5	1,27
	52,4	290	140	19,6	2,88	<1,0	16	1,2	2,9	1,26
	74,0	210	97	13,8	2,10	<1,0	20	1,7	3,1	0,86
	54,8	210	100	19,6	2,50	<1,0	16	1,2	8,9	1,48
	56,4	240	120	22,4	2,65	<1,0	20	1,3	5,2	1,44

- 2016 .

	2016 .					2016 .				
	105		5	N		105		5	N	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	48.4	210	100	18.4	1.96	1.2	16	1.3	3.6	0.72
	42.0	150	80	19.0	2.06	1.2	16	1.3	4.9	0.83
	46.8	200	100	19.2	2.65	1.6	20	1.6	9.1	0.94
	62.4	280	130	17.8	2.56	2.6	20	1.3	2.5	0.89

	28.4	280	140	10.2	2.65	1.6	20	1.3	2.4	0.92
	97.2	175	71	12.4	2.69	<1.0	21	1.6	3.7	0.98
	71.6	330	140	14.0	2.73	1.6	16	1.2	1.0	0.99
	47.2	200	100	15.6	1.93	1.6	20	1.5	1.2	0.61
	28.0	160	77	18.8	1.66	1.6	16	1.0	1.8	0.91
	49.6	210	110	20.4	1.68	1.4	20	1.8	1.6	0.94
	50.2	200	100	18.4	1.99	2.0	16	1.6	1.6	0.92
	67.2	180	90	13.2	2.69	1.4	18	1.4	1.8	0.93
	59.6	230	120	18.4	2.73	1.2	22	2.0	1.4	0.90
	58.2	240	130	14.2	2.65	1.6	20	1.6	1.6	0.94
	48.8	175	90	16.6	2.66	1.8	16	1.2	1.8	0.92
	50.2	190	100	15.6	2.22	1.2	16	1.2	2.0	0.96
	51.6	210	110	14.2	2.40	1.4	22	1.8	3.0	0.92
	62.8	200	100	13.6	3.30	1.6	20	1.6	3.2	0.86
	68.6	220	120	15.2	1.80	1.8	18	1.6	3.8	0.88
	75.6	230	120	15.6	2.06	1.6	24	2.0	4.3	0.72
	78.2	200	100	16.2	2.82	1.4	20	1.8	4.2	0.70
	79.2	180	95	16.4	2.16	1.2	18	1.6	6.3	0.82
	88.4	160	85	18.2	2.53	1.6	16	1.3	7.8	0.73
	99.4	180	90	18.8	2.66	1.6	16	1.2	5.6	0.84

- 2017 .

	2017 .					2017 .				
	105		5	N		105		5	N	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	98.8	180	95	18.6	1.90	1.2	15	1.2	3.4	0.70
	86.2	160	85	19.2	2.10	1.2	16	1.3	4.8	0.84
	87.8	210	100	19.0	2.58	1.6	17	1.3	9.0	0.90
	71.4	280	140	17.6	2.52	1.8	19	1.4	2.6	0.86
	77.2	250	130	10.0	2.60	1.8	16	1.5	2.4	0.94
	92.2	180	86	12.6	2.66	2.2	20	1.6	3.8	0.98
	68.8	310	160	12.8	2.76	1.6	20	1.4	1.6	0.96
	68.6	200	110	15.4	1.89	1.8	18	1.3	1.2	0.62
	68.4	170	84	17.8	1.60	2.0	21	2.0	1.6	0.91
	54.2	210	110	18.4	1.58	2.8	24	2.2	1.4	0.96
	50.6	190	96	20.2	1.93	1.6	16	1.1	1.4	0.93
	48.0	200	100	13.8	2.63	1.4	18	1.2	1.6	0.90
	47.8	230	120	17.8	2.68	1.2	18	1.1	1.4	0.92
	50.2	220	110	14.8	2.64	<1,0	16	1.0	1.8	0.96
	57.8	175	93	16.2	2.60	<1,0	18	1.2	1.8	0.92
	61.0	180	90	15.4	2.20	1.0	16	1.2	2.2	0.94
	60.2	210	110	13.2	2.44	1.0	16	1.3	3.2	0.90
	66.2	200	110	13.6	3.28	1.4	18	1.6	3.0	0.83
	69.6	210	120	15.0	1.82	1.4	20	1.8	3.6	0.83
	76.8	230	120	15.8	2.08	1.4	18	1.7	4.2	0.70
	79.4	220	120	15.8	2.80	1.2	18	1.6	4.3	0.72
	78.6	180	90	16.2	2.22	1.6	20	1.6	6.4	0.66

	90.2	180	85	17.2	2.50	1.8	16	1.3	7.8	0.68
	97.8	150	80	18.6	2.60	2.0	16	1.3	5.8	0.80

- 2018 .

	2018 .					2018 .				
	105		5	N		105		5	N	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	99.8	190	100	17.8	2.02	1.2	15	1.1	3.3	0.88
	84.0	150	84	18.6	2.10	1.4	16	1.2	4.5	0.86
	86.8	210	110	19.0	2.60	1.6	16	1.2	9.1	0.88
	90.4	290	140	17.6	2.49	2.0	18	1.4	2.5	0.86
	78.4	240	120	11.2	2.61	1.6	19	1.6	2.3	0.96
	90.2	175	84	12.6	2.63	2.0	20	1.5	3.5	0.96
	69.6	300	150	14.2	2.74	1.8	21	1.0	1.6	0.98
	68.4	200	100	14.6	1.96	1.8	18	1.3	1.3	0.70
	68.0	165	86	17.8	1.62	1.6	20	1.8	1.7	0.92
	62.6	200	100	19.8	1.64	2.0	23	2.0	1.4	0.94
	60.2	180	95	18.6	1.96	1.8	16	1.0	1.6	0.94
	47.2	190	95	13.4	2.58	1.4	18	1.1	1.4	0.90
	48.4	230	110	18.0	2.70	1.6	16	1.1	1.6	0.94
	48.6	230	120	14.4	2.70	1.4	18	1.1	1.8	0.96
	49.6	170	80	16.2	2.65	<1,0	16	1.2	1.6	0.90
	38.4	180	100	15.4	2.20	1,2	16	1.3	2.4	0.94
	50.6	200	110	14.4	2.42	<1,0	18	1.3	3.0	0.92
	58.2	200	100	13.6	3.32	1.4	18	1.7	3.2	0.84
	58.8	210	120	15.4	1.83	1.6	20	1.7	3.4	0.83
	56.6	240	130	15.4	2.10	1.4	18	1.8	4.1	0.72
	77.4	220	120	16.0	2.73	1.4	20	1.5	4.2	0.70
	78.4	170	90	16.6	2.20	1.6	20	1.6	6.2	0.68
	90.4	180	85	17.6	2.54	2.0	16	1.2	7.6	0.76
	98.8	160	90	18.6	2.60	2.2	16	1.3	5.6	0.88

- 2019 .

	2019 .					2019 .				
	105		5	N		105		5	N	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	97.6	180	90	17.6	2.12	1.0	16	1.2	3.2	0.82
	94.8	160	88	18.8	2.14	1.2	16	1.0	4.6	0.88
	86.6	210	120	19.2	2.62	1.4	16	1.2	8.9	0.86
	82.6	280	150	18.2	2.50	1.8	18	1.4	2.9	0.88
	86.4	230	120	12.0	2.60	1.6	17	1.5	2.6	0.98
	92.2	170	84	13.6	2.62	2.2	16	1.5	3.4	0.96
	70.2	300	160	13.8	2.76	1.8	23	2.0	1.8	0.96

	67.4	200	110	14.4	1.98	1.6	18	1.4	1.4	0.72
	68.6	170	90	16.6	1.56	1.4	20	1.0	1.6	0.96
	54.6	210	100	19.2	1.52	1.6	21	1.6	1.4	0.94
	52.2	190	100	18.8	1.98	1.6	16	1.2	1.6	0.90
	48.4	180	90	14.4	2.56	1.2	18	1.1	1.3	0.94
	58.2	220	110	17.8	2.72	1.0	18	1.4	1.4	0.96
	54.6	240	120	14.6	2.71	1.0	18	1.6	1.6	0.92
	48.8	180	85	16.0	2.64	<1,0	16	1.2	1.6	0.92
	51.6	180	90	15.6	2.20	<1,0	16	1.3	2.3	0.94
	62.6	200	110	13.4	2.32	<1,0	17	1.4	3.2	0.90
	68.4	210	110	13.4	3.12	1.4	16	1.6	3.2	0.84
	49.6	200	100	15.6	1.93	1.4	20	1.7	3.6	0.84
	55.6	220	120	15.2	2.12	1.6	18	1.8	4.1	0.76
	78.6	210	120	16.2	2.68	1.4	18	1.4	4.3	0.70
	78.2	180	90	16.4	2.22	1.8	16	1.4	6.2	0.70
	92.4	170	80	17.6	2.58	2.0	16	1.2	7.8	0.72
	96.6	180	95	18.2	2.63	2.0	18	1.4	5.8	0.84

- 2020 .

	2020 .					2020 .				
	105		5	N		105		5	N	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	87.6	160	85	18.4	2.22	1.2	16	1.1	3.0	0.80
	74.8	180	90	18.2	2.34	1.2	15	1.0	4.7	0.87
	90.6	220	120	19.0	2.65	1.5	16	1.3	7.6	0.83
	72.6	290	140	17.8	2.58	1.8	16	1.3	3.2	0.89
	76.4	200	110	12.2	2.60	1.4	18	1.5	2.8	0.97
	92.2	180	90	13.8	2.64	2.0	17	1.6	3.2	0.96
	70.2	280	150	13.6	2.78	1.8	20	1.8	1.6	0.95
	87.4	280	140	14.2	1.96	1.4	20	1.5	1.4	0.70
	88.6	200	100	15.8	1.48	1.4	18	1.0	1.5	0.94
	74.6	20	100	19.0	1.54	1.6	20	1.4	1.3	0.96
	52.2	180	95	17.3	1.88	1.4	18	1.1	1.4	0.92
	48.4	180	90	14.2	2.46	1.2	16	1.1	1.2	0.95
	48.2	210	110	17.0	2.73	<1,0	18	1.5	1.3	0.94
	44.6	250	130	14.4	2.68	1.0	17	1.4	1.5	0.96
	48.8	200	100	16.2	2.64	<1,0	15	1.0	1.5	0.94
	41.6	190	95	15.2	2.22	1.0	16	1.2	2.6	0.94
	52.6	200	100	13.6	2.36	1.0	17	1.0	3.4	0.92
	58.4	210	110	14.4	3.2	1.2	16	1.6	3.6	0.84
	59.6	200	110	15.4	1.86	1.4	20	1.8	3.8	0.80
	65.6	220	120	15.4	2.10	1.4	20	1.7	4.2	0.74
	78.6	210	11	16.0	2.66	1.6	16	1.4	4.4	0.72
	78.2	180	95	15.9	2.20	1.6	15	1.4	6.1	0.68
	92.4	175	85	17.2	2.50	2.2	16	1.3	7.4	0.86
	96.6	160	85	18.0	2.62	1.8	16	1.2	5.6	0.82

- 2021 .

	2021 .					2021 .				
	105		5	N		105		5	N	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	88.4	210	100	17.4	2.00	1.2	16	1.3	3.4	0.70
	82.8	150	80	18.4	2.08	1.1	16	1.3	4.4	0.66
	86.2	200	100	18.2	2.60	1.4	20	1.4	8.4	0.92
	72.8	280	130	18.8	2.58	2.4	18	1.3	2.6	0.90
	68.4	280	140	11.2	2.67	1.8	20	1.1	2.3	0.94
	96.0	175	71	13.6	2.70	1.4	22	1.6	3.0	0.96
	80.6	330	140	15.2	2.78	1.6	16	1.2	1.8	0.96
	62.2	200	100	14.6	1.98	1.6	18	1.4	1.2	0.62
	60.0	160	77	17.8	1.76	1.6	16	1.0	1.4	0.90
	66.2	210	110	19.4	1.68	1.4	20	1.6	1.5	0.93
	50.2	200	100	17.4	1.90	2.0	16	1.5	1.8	0.93
	54.2	180	90	14.2	2.70	1.4	18	1.3	2.0	0.92
	39.6	230	120	17.4	2.73	1.2	20	2.1	1.5	0.90
	42.2	240	130	15.2	2.61	1.6	18	1.4	1.4	0.96
	46.8	175	90	16.2	2.66	<1,0	16	1.0	1.8	0.92
	40.4	190	100	15.4	2.31	1.2	16	1.2	2.1	0.94
	40.6	210	110	14.6	2.44	1.6	22	1.7	3.2	0.90
	44.8	200	100	13.8	3.33	1.6	20	1.6	2.9	0.84
	58.6	220	120	15.6	1.86	1.8	18	1.7	3.6	0.84
	63.4	230	120	18.6	2.16	1.8	23	1.9	4.9	0.70
	89.4	200	100	15.8	2.71	1.4	20	1.8	4.3	0.72
	79.4	180	95	15.4	2.16	1.8	19	1.5	5.9	0.74
	90.4	160	85	18.4	2.50	1.6	16	1.4	7.6	0.81
	99.4	180	90	18.4	2.71	2.0	15	1.2	6.6	0.84

)
 - 2015 .

2015 .														
	5								-					
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	162	20	75	3	20.2	12	2.4	1.25	103	5.2	0.660	0.022		
	254	25	120	3	20.4	11.6	1.95	1.10	117	7.4				

	210	18	100	4	17.6	8.1	1.59	1.05	81	3.8	0.626	0.056		
	180	17	120	4	19.1	13.1	4.16	1.26	127	12.6				
	158	14	80	2	21.5	10.8	2.24	1.22	132	3.4	0.630	0.081	0.01	0.001
	122	18	65	3	13.9	10.7	2.36	1.04	86	3.0				
	213	18	110	3	23.2	10.9	2.50	0.96	101	7.8	0.630	0.040		
	317	20	150	4	20.8	8.6	2.37	0.97	122	4.4				
	430	19	180	4	21.8	7.8	2.45	1.15	184	8.2	0.750	0.016		
	252	16	130	3	23.3	9.6	2.26	1.55	298	11.9				
	211	17	100	3	24.2	10.7	2.57	1.66	108	18.2	0.760	0.078		
	182	16	115	2	19.5	8.2	4.23	1.35	180	13.6				
	259	16	160	3	21.6	9.7	5.08	1.70	226	24.0	0.770	0.080		
	256	19	130	2	20.9	6.4	2.78	1.13	150	13.6				
	218	25	140	4	19.1	9.6	2.12	1.77	195	18.4	0.640	0.010		
	245	22	150	3	21.0	7.6	2.39	1.79	165	1.8				
	355	18	220	5	22.4	7.1	2.75	1.50	110	4.6	1.020	0.012	0.02	0.001
	375	21	210	2	20.5	6.5	5.00	1.01	175	12.0				
	355	21	200	5	26.4	5.0	2.20	0.24	153	14.4	1.410	0.014		
	319	18	200	5	26.1	12.6	3.85	1.89	171	9.8				
	387	24	290	4	22.9	8.0	3.54	1.31	209	14.2	1.250	0.012		
	311	16	150	4	22.4	9.1	2.54	1.51	123	8.4				
	223	30	140	3	22.4	7.6	2.55	1.22	69	20.0	1.130	0.013		
	600	19	320	3	30.6	9.5	3.07	1.51	246	13.8				

- 2016 .

2016 .														
	5					-								
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	275	20	180	3	26,9	11,8	3,09	1,71	138	2,0	1,17	0,012		
	261	19	170	2	20,0	6,7	2,48	0,72	84	7,8				
	166	24	100	3	19,5	6,3	2,74	1,76	117	14	1,07	0,013		
	333	20	150	3	19,4	6,7	2,84	0,72	198	16				
	229	14	160	6	23,7	8,1	2,28	1,38	127	5,4	0,58	0,014	0,01	0,001

	229	15	150	2	18.4	7,7	2.38	1.34	69	4,8				
	151	16	90	3	18.1	7,6	2.03	1,62	121	20,0	0.82	0.010		
	279	18	150	2	25.7	9.6	2.72	1,56	161	4.8				
	224	20	140	3	19.3	8,0	2.72	1.00	110	8.4	0.94	0.010		
	350	25	180	5	9,0	5	2	1.2	140	8				
	300	25	170	5	8,0	5	3	1.2	140	6	0.8	0.02		
	300	25	170	5	8,0	5	3	1.4	140	6				
	200	24	150	4	8,0	4	3	1.4	100	5	0.9	0.03		
	350	25	170	5	8,0	4	3	1.4	100	5				
	300	25	170	5	9,0	5	2.5	1.4	80	3	0.6	0.04		
	200	22	150	3	9,0	5	2.5	1.4	80	3				
	300	25	170	5	10,0	7	2.5	1.3	100	8	1.2	0.04	0.02	0.00
	400	26	200	4	10,0	7	2,5	1.3	100	8				
	400	26	200	5	12,0	8	2.0	1.3	130	8	0.8	0.02		
	300	25	170	4	12,0	8	2,0	1.3	130	8				
	300	25	190	4	12,0	9	2,0	1.5	150	10	0.8	0.02		
	400	25	190	5	12,0	9	2,0	1.5	150	10				
	300	25	170	3	15,0	10	3,0	1.4	200	12	0,5	0.009		
	400	25	190	5	15,0	10	3,0	1.4	200	12				

- 2017 .

2017 .														
	5					-								
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	200	20	110	3	20	12	3,0	1.2	130	10	0.8	0.009		
	200	25	110	3	20	12	2,5	1.1	130	10				
	170	20	100	4	19	11	2,8	1.0	80	5	0.8	0.009		
	200	25	100	4	19	12	3,0	1.2	130	12				
	300	25	120	2	21	10	2,2	1.2	130	10	0.7	0.01	0.02	0.01
	200	25	120	3	18	10	2,3	1.0	100	10				
	320	20	160	3	18	8	2,5	0.9	100	10	0.7	0.01		
	200	20	100	4	20	8	2,3	0.9	130	8				
	300	25	150	4	25	7	2,5	1.1	150	8	0.8	0.009		
	340	20	150	3	20	7	2,2	1.5	150	8				
	300	25	140	3	12	9	2,7	1.06	100	12	0.8	0.01		

	260	25	100	2	12	9	3,0	1.3	100	12				
	200	20	130	3	10	6	3,0	1.0	80	5	0.8	0.009		
	300	25	170	2	10	6	3,0	1.1	80	5				
	200	25	150	4	9	8	3,0	1.07	100	8	0.9	0.01		
	280	20	150	3	9	9	2,4	1.0	100	10				
	300	26	200	5	10	7	2.7	1.0	130	12	1.2	0.01	0.01	0.00
	300	26	180	2	10	6	3.00	1.01	130	12				
	300	25	200	5	12	6	2.8	0.5	150	15	1.4	0.02		
	400	25	200	5	12	10	3.5	1.0	150	15				
	400	26	220	4	20	8	3.5	1.1	170	15	1.2	0.03		
	400	26	220	4	20	9	2.5	1.1	150	12				
	400	26	200	3	20	10	2.5	1.2	200	20	1.1	0.01		
	400	26	260	3	22	10	3.0	1.1	200	20				

- 2018 .

2018 .															
			5												
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
	200	20	120	4	25	12	2.4	1.25	150	6	0.6	0.022			
	220	20	100	4	25	12	2,5	1.10	150	8					
	200	18	100	3	20	9	2,0	1.05	100	5	0.6	0.056			
	200	17	120	3	20	10	2,0	1.26	100	5					
	180	14	100	2	25	10	2,0	1.22	150	6	0.6	0.081	0.01	0.00	
	180	15	100	2	18	12	2,0	1.04	100	5					
	240	18	100	3	25	12	2,0	0.96	100	6	0.6	0.040			
	300	20	160	4	20	9	2.3	0.97	120	7					
	320	25	200	5	20	9	3,0	1.15	200	8	0.7	0.016			
	300	25	160	4	25	10	2,5	1.55	300	12					
	200	17	120	3	25	10	2,0	1.66	100	8	0.7	0.078			
	180	18	100	2	20	8	2,0	1.35	200	8					
	300	20	140	3	20	8	2,5	1.70	250	10	0.8	0.080			
	180	20	160	4	20	7	2.7	1.13	150	8					
	300	22	160	4	20	9	2.5	1.77	100	6	0.7	0.010			
	180	22	150	4	22	8	2.3	1.79	100	6					
	380	25	230	5	22	7	2.7	1.50	150	8	0,8	0.012	0.02	0.01	

	240	25	190	4	20	7	5.00	1.01	200	10				
	340	22	200	4	25	12	3,0	0.24	150	8	1,2	0.014		
	340	22	200	4	25	12	4,0	1.89	180	10				
	400	20	200	4	20	12	4,0	1.31	200	12	1,2	0.012		
	380	22	240	5	20	10	2.5	1.51	100	8				
	300	25	160	2	25	9	2.5	1.22	100	8	1,2	0.013		
	500	25	300	5	25	12	3.00	1.51	300	12				

- 2019 .

2019 .														
	5					-								
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	250	15	150	3	20	10	2.5	1.2	100	8	0.6	0.03		
	250	15	150	4	20	10	2,0	1.1	100	8				
	200	18	100	3	17	8	2,0	1.05	100	8	0.6	0.02		
	200	17	120	4	19	8	3,0	1.2	130	10				
	200	14	80	2	21	7	2.5	1.2	130	12	0.6	0.05	0.02	0.01
	220	15	120	2	13	6	2.3	1.05	100	12				
	160	18	150	3	23	10	2.5	0.95	100	8	0.6	0.04		
	300	20	110	5	20	10	2.3	0.95	120	10				
	400	25	180	5	21	12	2.5	1.1	200	10	0.7	0.01		
	220	22	180	5	23	10	2.3	1.5	300	15				
	200	22	110	4	24	10	2.5	1.3	180	18	0.7	0.07		
	200	16	110	2	19	8	2,3	1.3	180	15				
	230	25	160	3	21	10	3,0	1.50	250	20	0.7	0.080		
	230	25	160	2	20	10	3,0	1.1	150	8				
	240	25	160	3	19	10	3,0	1.5	200	8	0.6	0.01		
	300	22	160	3	21	10	3,0	1.5	150	6				
	300	25	150	5	22	12	3,0	1.3	100	6	1.0	0.01	0.02	0.01
	300	25	150	5	25	12	5.00	1.01	180	12				
	400	25	180	5	26	12	4,0	0.94	150	15	1.4	0.01		
	240	22	180	4	26	110	4,0	1.1	180	10				
	400	25	300	4	23	10	4,0	1.1	200	15	1.2	0.01		

	300	18	140	43	22	9	3,0	1.1	120	10				
	320	20	180	3	23	10	3,0	1.2	100	20	1.1	0.01		
	500	25	180	5	30	12	3,0	1.5	250	15				

- 2020 .

2020 .														
	5					-								
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	230	16	150	4	20	12	2.4	1.0	120	6	0.8	0.02		
	250	18	150	4	20	11.6	1.95	1.10	120	6				
	220	18	100	3	18	8.1	1.59	1.05	100	5	0.8	0.03		
	180	17	120	3	18	13.1	4.16	1.66	130	10				
	200	15	80	3	22	10.8	2.24	1.0	130	5	0.8	0.001	0.01	0.01
	220	15	120	3	16	10.7	2.36	1.04	100	5				
	250	18	130	3	23	10.9	2.50	0.96	100	8	0.8	0.04		
	310	20	150	4	20	8.6	2.37	0.97	120	8				
	420	25	180	5	21	7.8	2.45	1.1	200	8	0.8	0.02		
	220	22	180	4	24	9.6	2.26	1.05	300	10				
	220	17	120	3	24	10.7	2.57	1.06	120	20	0.8	0.03		
	180	16	100	2	20	8.2	4.23	1.05	180	15				
	350	20	200	3	20	9.7	5.08	1.0	220	25	0.8	0.03		
	250	19	180	3	20	6.4	2.78	1.1	150	15				
	300	20	160	4	20	9.6	2.12	1.07	200	18	0.8	0.01		
	240	22	160	4	22	7.6	2.39	1.0	150	5				
	300	25	160	5	22	7.1	2.75	1.0	110	5	1.0	0.01	0.03	0.01
	460	26	180	4	25	6.5	5.00	1.01	150	15				
	330	25	220	4	25	5.0	2.20	1.0	150	15	1.5	0.01		
	310	22	180	4	25	12.6	3.85	1.09	170	15				
	380	25	170	4	23	8.0	3.54	1.01	200	15	1.2	0.01		
	320	22	170	3	23	9.1	2.54	1.1	100	10				
	400	20	180	3	22	7.6	2.55	1.0	100	12	1.2	0.01		
	400	26	200	5	28	9.5	3.07	1.1	300	13				

- 2021 .

	5				-									
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	300	20	140	4	25	10	3,0	1.0	180	10	0.8	0.02		
	200	20	120	4	25	10	3,0	1.0	150	8				
	200	15	100	3	20	8	3,0	1.0	120	5	0.8	0.03		
	220	15	100	3	20	8	3,0	1.0	100	5				
	200	15	100	2	18	6	3,0	1.0	130	6	1,2	0.02	0.01	0.01
	260	15	100	3	18	6	3,0	1.0	100	4				
	300	20	100	3	20	8	3,0	0.9	200	8	1,5	0.04		
	240	20	120	4	22	10	4,0	0.9	150	5				
	450	25	200	4	25	10	4,0	1.0	200	8	0.8	0.01		
	200	20	180	3	22	10	3,0	1.0	200	8				
	300	20	120	3	24	10	3,0	1.0	100	5	0.8	0.05		
	100	20	100	2	20	8	3,0	1.0	150	8				
	320	20	200	2	20	8	3,0	1.0	200	8	0.9	0.08		
	300	20	200	2	20	8	3,0	1.0	150	8				
	300	25	200	4	22	8	4,0	1.0	100	8	0.8	0.01		
	200	25	120	4	22	7	4,0	1.0	100	8				
	300	25	180	5	22	7	4,0	1.0	100	8	1.2	0.01	0.02	0.00
	240	25	120	5	25	10	4,0	1.0	180	10				
	300	25	180	5	25	10	4,0	0.9	150	8	1.4	0.01		
	320	20	180	5	25	10	3,0	1.0	180	10				
	400	25	200	4	28	12	4,0	1.0	200	10	1.3	0.01		
	260	20	140	4	25	10	3,0	1.0	100	5				
	320	20	200	3	25	10	3,0	1.0	100	5	1.5	0.01		
	500	25	200	3	30	12	4,0	1.0	100	5				

5

(2015 .) :

- 2015 .

	m ³			/	5	i= / 5
		mg l/O ₂	mg l/O ₂ ⁵			
	503920	132.5	63.5	2.0866142	0.0551973	0.1151755
	506000	167.5	76	2.2039474	0.0554251	0.1221541
	809180	282.5	130	2.1730769	0.0886342	0.1926090
	856300	220	105	2.0952381	0.0937956	0.1965240
	843000	200	104	1.9230769	0.0923387	0.1775745
	783000	205	122	1.6803279	0.0857666	0.1441160
	771780	275	175	1.5714286	0.0845376	0.1328448
	799840	300	170	1.7647059	0.0876112	0.1546079
	791110	167.5	83.5	2.005988	0.0866549	0.1738287
	855600	167.5	71.5	2.3426573	0.0937189	0.2195512
	810000	250	118.5	2.1097046	0.0887240	0.1871815
	799700	225	110	2.0454545	0.0875958	0.1791733
	9129430				1	1.9953406

- 2016 .

	m ³			=	i /	i
		mg l/O ₂	mg l/O ₂ ⁵			
	650000	137	73	1.876712329	0.0689758	0.1294477
	680000	241	132.5	1.818867925	0.0721593	0.1312482
	809180	292.5	175	1.671428571	0.0858674	0.1435212
	856300	227.5	108	2.106481481	0.0908676	0.1914109
	843000	207.5	102.5	2.024390244	0.0894563	0.1810944
	783000	194	119.5	1.623430962	0.0830893	0.1348897
	771780	275	175	1.571428571	0.0818986	0.1286979
	799840	280	170	1.647058824	0.0848763	0.1397962
	820500	277.5	140	1.982142857	0.0870686	0.1725825
	825000	250	75	3.333333333	0.0875462	0.2918205
	795000	135.5	44.5	3.04494382	0.0843627	0.2568796
	790000	136.5	42.5	3.211764706	0.0838321	0.2692489
	9423600				1	2.1706376

- 2017 .

	m ³			/		/
		mg l/O ₂	mg l/O ₂ ⁵			
	504000	180	80	2.25	0.0552060	0.1242135
	505900	240	120	2.0	0.0554141	0.1108283

	809080	280	140	2	0.0886232	0.1772464
	856200	230	110	2.0909091	0.0937845	0.1960949
	843100	210	105	2.0	0.0923496	0.1846992
	782100	220	110	2	0.0856679	0.1713358
	771900	280	160	1.75	0.0845506	0.1479636
	799320	200	100	2	0.0875541	0.1751082
	791200	180	90	2.0	0.0866647	0.1733294
	855420	180	95	1.8947368	0.0936991	0.1775351
	810220	240	120	2	0.0887481	0.1774961
	801000	230	120	1.9166667	0.0877381	0.1681648
	9129440				1	1.9840151

- 2018 .

	m ³	mg l/O ₂	mg l/O ₂ ^s	/		/
	503440	180	90	2	0.0551383	0.1102765
	506400	200	100	2	0.0554625	0.1109249
	809000	280	150	1.8666667	0.0886041	0.1653944
	856400	220	100	2.2	0.0937955	0.2063501
	843240	210	110	1.9090909	0.0923542	0.1763126
	783600	215	120	1.7916667	0.0858222	0.1537649
	772000	280	150	1.8666667	0.0845518	0.1578300
	799900	200	100	2	0.0876075	0.1752149
	791000	170	90	1.8888889	0.0866327	0.1636396
	855620	180	95	1.8947368	0.0937101	0.1775560
	810100	245	130	1.8846154	0.0887246	0.1672118
	799800	220	110	2	0.0875965	0.1751930
	9130500				1	1.9396686

- 2019 .

	m ³	mg l/O ₂	mg l/O ₂ ^s	/		/
	504020	180	90	2	0.0551997	0.1103995
	506200	190	100	1.9	0.0554385	0.1053331
	808990	275	170	1.6176471	0.0885997	0.1433231
	856320	210	105	2	0.0937833	0.1875665
	843100	220	120	1.8333333	0.0923354	0.1692816
	783400	200	110	1.8181818	0.0857971	0.1559948
	771660	280	160	1.75	0.0845114	0.1478949
	799940	310	160	1.9375	0.0876086	0.1697416
	791210	180	90	2	0.0866525	0.1733050
	854900	185	96	1.9270833	0.0936277	0.1804285
	810400	240	125	1.92	0.0887542	0.1704080

	800700	230	120	1.9166667	0.0876918	0.1680760
	9130840				1	1.8817527

- 2020 .

	m ³	mg l/O ₂	⁵ mg l/O ₂	/		/
	504080	190	80	2.375	0.0552061	0.1311144
	506020	210	110	1.9090909	0.0554185	0.1057990
	809220	290	150	1.9333333	0.0886245	0.1713408
	855800	230	120	1.9166667	0.0937259	0.1796413
	843660	210	120	1.75	0.0923964	0.1616936
	783400	250	130	1.9230769	0.0857968	0.1649938
	772700	290	160	1.8125	0.0846249	0.1533827
	798880	310	170	1.8235294	0.0874921	0.1595444
	791220	175	90	1.9444444	0.0866532	0.1684923
	856200	170	90	1.8888889	0.0937697	0.1771206
	808000	260	140	1.8571429	0.0884909	0.1643403
	801700	240	130	1.8461538	0.0878010	0.1620941
	9130880				1	1.8995573

- 2021 .

	m ³	mg l/O ₂	⁵ mg l/O ₂	/		/
	504100	180	90	2	0.0552078	0.1104156
	506800	200	110	1.8181818	0.0555035	0.1009154
	809200	280	140	2	0.0886216	0.1772431
	856400	220	110	2	0.0937908	0.1875816
	842800	220	115	1.9130435	0.0923014	0.1765765
	783800	240	125	1.92	0.0858398	0.1648125
	771660	285	166	1.7168675	0.0845103	0.1450930
	799780	300	165	1.8181818	0.0875899	0.1592544
	791220	175	90	1.9444444	0.0866524	0.1684909
	854800	170	85	2	0.0936156	0.1872311
	810200	250	130	1.9230769	0.0887311	0.1706367
	800200	230	120	1.9166667	0.0876359	0.1679688
	9130960				1	1.9162195

)
- 2015 .

	m ³	mg l/O ₂	⁵ mg l/O ₂	/	⁵	i= / ⁵

	496062	208	97.5	2.1333333	0.0947850	0.2022079
	418313	195	110	1.7727273	0.0799291	0.1416925
	488916	140	72.5	1.9310345	0.0934196	0.1803964
	508435	265	130	2.0384615	0.0971491	0.1980348
	477303	341	155	2.2000000	0.0912006	0.2006413
	440137	196.5	107.5	1.8279070	0.0840991	0.1537254
	411027	257.5	145	1.7758621	0.0785369	0.1394707
	396121	231.5	145	1.5965517	0.0756888	0.1208410
	379217	365	215	1.6976744	0.0724588	0.1230115
	426434	337	200	1.6850000	0.0814808	0.1372952
	397096	349	220	1.5863636	0.0758751	0.1203654
	394490	411.5	230	1.7891304	0.0753771	0.1348595
	5233551				1	1.8525417

- 2016 .

				$\frac{i}{i}$		
	m^3	mg l/O ₂	⁵ mg l/O ₂	=		i
	400000	300	180	1.6666667	0.0767754	0.1279591
	380000	200	140	1.4285714	0.0729367	0.1041952
	350000	200	140	1.4285714	0.0671785	0.0959693
	450000	250	160	1.5625000	0.0863724	0.1349568
	450000	250	160	1.5625000	0.0863724	0.1349568
	430000	200	140	1.4285714	0.0825336	0.1179051
	450000	280	180	1.5555556	0.0863724	0.1343570
	420000	280	180	1.5555556	0.0806142	0.1253999
	450000	400	220	1.8181818	0.0863724	0.1570407
	480000	280	180	1.5555556	0.0921305	0.1433141
	500000	250	160	1.5625000	0.0959693	0.1499520
	450000	400	220	1.8181818	0.0863724	0.1570407
	5210000				1	1.5830467

- 2017 .

				/		/
	m^3	mg l/O ₂	⁵ mg l/O ₂			
	480000	200	110	1.8181818	0.0864865	0.1572482
	420000	185	100	1.8500000	0.0756757	0.1400000
	490000	250	120	2.0833333	0.0882883	0.1839339
	500000	260	130	2.0000000	0.0900901	0.1801802
	480000	320	150	2.1333333	0.0864865	0.1845045
	440000	280	120	2.3333333	0.0792793	0.1849850

	420000	250	150	1.6666667	0.0756757	0.1261261
	390000	240	150	1.6000000	0.0702703	0.1124324
	450000	300	190	1.5789474	0.0810811	0.1280228
	490000	350	200	1.7500000	0.0882883	0.1545045
	500000	400	220	1.8181818	0.0900901	0.1638002
	490000	400	230	1.7391304	0.0882883	0.1535448
	5550000				1	1.8692826

- 2018 .

	.			/		/
	m ³	mg l/O ₂	⁵ mg l/O ₂			
	470000	220	110	2.0000000	0.0851449	0.1702899
	430000	200	110	1.8181818	0.0778986	0.1416337
	450000	180	100	1.8000000	0.0815217	0.1467391
	490000	270	130	2.0769231	0.0887681	0.1843645
	480000	320	160	2.0000000	0.0869565	0.1739130
	450000	190	110	1.7272727	0.0815217	0.1408103
	420000	240	150	1.6000000	0.0760870	0.1217391
	400000	240	155	1.5483871	0.0724638	0.1122020
	450000	310	210	1.4761905	0.0815217	0.1203416
	480000	340	200	1.7000000	0.0869565	0.1478261
	500000	390	220	1.7727273	0.0905797	0.1605731
	500000	400	230	1.7391304	0.0905797	0.1575299
	5520000				1	1.7779624

- 2019 .

	.			/		/
	m ³	mg l/O ₂	⁵ mg l/O ₂			
	450000	250	150	1.6666667	0.0824176	0.1373626
	430000	200	110	1.8181818	0.0787546	0.1431901
	450000	210	100	2.1000000	0.0824176	0.1730769
	480000	230	130	1.7692308	0.0879121	0.1555368
	500000	310	180	1.7222222	0.0915751	0.1577127
	450000	200	110	1.8181818	0.0824176	0.1498501
	430000	230	160	1.4375000	0.0787546	0.1132097
	390000	240	155	1.5483871	0.0714286	0.1105991
	420000	300	150	2.0000000	0.0769231	0.1538462
	470000	320	180	1.7777778	0.0860806	0.1530322
	490000	350	170	2.0588235	0.0897436	0.1847662
	500000	360	180	2.0000000	0.0915751	0.1831502

	5460000				1	1.8153328
--	---------	--	--	--	---	-----------

- 2020 .

	m ³	mg l/O ₂	⁵ mg l/O ₂			
				/		/
	440000	240	150	1.6000000	0.0805861	0.1289377
	450000	200	110	1.8181818	0.0824176	0.1498501
	420000	210	100	2.1000000	0.0769231	0.1615385
	480000	230	140	1.6428571	0.0879121	0.1444270
	500000	320	180	1.7777778	0.0915751	0.1628002
	450000	200	110	1.8181818	0.0824176	0.1498501
	430000	300	190	1.5789474	0.0787546	0.1243493
	400000	270	160	1.6875000	0.0732601	0.1236264
	420000	380	170	2.2352941	0.0769231	0.1719457
	490000	320	180	1.7777778	0.0897436	0.1595442
	470000	350	170	2.0588235	0.0860806	0.1772247
	510000	400	190	2.1052632	0.0934066	0.1966455
	5460000				1	1.8507394

- 2021 .

	m ³	mg l/O ₂	⁵ mg l/O ₂			
				/		/
	450000	250	130	1.9230769	0.0819672	0.1576293
	430000	210	100	2.1000000	0.0783242	0.1644809
	470000	230	100	2.3000000	0.0856102	0.1969035
	480000	270	110	2.4545455	0.0874317	0.2146051
	500000	330	190	1.7368421	0.0910747	0.1581823
	460000	220	110	2.0000000	0.0837887	0.1675774
	430000	310	200	1.5500000	0.0783242	0.1214026
	390000	250	160	1.5625000	0.0710383	0.1109973
	410000	370	150	2.4666667	0.0746812	0.1842137
	490000	310	180	1.7222222	0.0892532	0.1537138
	480000	330	170	1.9411765	0.0874317	0.1697203
	500000	410	200	2.0500000	0.0910747	0.1867031
	5490000				1	1.9861292

K_i , K_i , -

:

		/ 5		
	9129430	1.9953406	0.635622229	1.26828284
	5233551	1.8525417	0.364377771	0.675025015
	14362981		1	1.943307855

2015 .”

:

		(. . .)			
1		2398	1368	5549	9315
2		1027	260	3453	4740
3		276	82	879	1237

2015 .

2015 .

Ки

2016 . :

	m ³	mg l/O ₂	mg ⁵ l/O ₂			
	41800	64	19	3.3684211	0.08444444	0.28444444
	40900	58	21	2.7619048	0.0826263	0.2282059
	35000	75	18	4.1666667	0.0707071	0.2946128
	36200	71	16	4.4375000	0.0731313	0.3245202
	43500	65	19	3.4210526	0.0878788	0.3006380
	41600	67	21	3.1904762	0.0840404	0.2681289
	42000	52	15	3.4666667	0.0848485	0.2941414
	39000	53	14	3.7857143	0.0787879	0.2982684
	55000	62	22	2.8181818	0.11111111	0.3131313
	49000	65	25	2.6000000	0.0989899	0.2573737
	32000	68	19	3.5789474	0.0646465	0.2313663
	39000	67	19	3.5263158	0.0787879	0.2778309
	495000				1	3.3726623

4.3.

„

2016 г.

7/14.11.2000 г.

7/14.11.2000 г.

2015 г.

4, 3

:

		4 3 7/ .28 2000 .	
1.	“ ”	1.	“ ”
2.	“ ”	2.	“ -94”
3.	“ ”	3.	“ ”
4.	“ - ”	4.	“ ”
5.	- ”	5.	“ ”
6.	22060	6.	“ - - ”
7.	“ - ”	7.	“ ”
8.	“ - ”	8.	“ ”
9.	“ - ”	9.	“ ”
10.	“ ”	10.	“ ”
11.	“ ”	11.	“ -91”
12.		12.	“ ”
13.	“ ”	13.	“ ”
14.	“ ”	14.	“ ”
15.	“ ”	15.	“ - 97” (“ ” -)
16.	“ ”	16.	“ ”
17.	“ ”	17.	“ -91”
18.	“ ”	18.	“ ”
19.	“ ”		
20.	“ -1923”	1.	“ 2004”
21.	“ - ”	2.	“ 90”

22.	“ ”	3.	“ ”
23.	“ ”	4.	“ 11”
24.	“ ”	5.	„ ”
25.	“ 2000”		.
26.	“ - ”	1.	“ ”
27.	“ ”	2.	“ ”
28.	„ ”		.
29.	„ 2003”	1.	“ ”
30.	„ - ”		.
31.	„ ”	1.	” -
	.		
1.	“ ”		
2.	“ ”		
3.	“ ”		
4.			
5.	“ ”		
6.	“ ”		
7.	“ ”		
8.	-		

2016 .

7/2000 .

2015 .

	“ - ”
	“ ”
	“ ”
	“ - ”
	“ ” / ” /
	“ - ”
	“ ”
	“ ”

	" "
	" " " "
	" - " "
	" " "
	" " -1923"
	" " "
	" - " "
	" " "
	" " "
	" " " / " /
	" - " "
	" " "
	" " " "
	" - " "
	" " "
	" " -1923"
	" - " "

)

1	" " – " " –		12.03.2015 18.06.2015
2	" – 91"		19.03.2015 25.06.2015
3	" " " " 94"		26.03.2015 02.07.2015
4	" " " "		02.04.2015 09.07.2015
5	" " " " "		09.04.2015 16.07.2015
6	" " " " "		16.04.2015 23.07.2015
7	" - - " " "		23.04.2015 30.07.2015

8	„ „ -96”		30.04.2015 17.09.2015
9	„ „		14.05.2015 24.09.2015

)

10	„ „ 90”		21.05.2015 01.10.2015
11	„ „ -90”		28.05.2015 08.10.2015
12	„ „ - ”		04.06.2015 15.10.2015
13	„ „ -95”		11.06.2015 22.10.2015

2016 .,

e

Ki

- 2015 .

		I 2015		II 2015		2015	2015		/		Ki
		mg l/O ₂	mg l/O ₂	mg l/O ₂	mg l/O ₂		m ³	mg l/O ₂				mg l/O_{2}
1	„ - ”	7200	5200	1940	1000	133944	4570	3100	1.474	0.179773954	0.265021603
2	„ ”	120	39	195	68	9257	157.5	53.5	2.944	0.012424353	0.036576365
3	„ ”	880	630	580	400	26329	730	515	1.417	0.035337667	0.050090285
4	„ - ”	66	32	56	15	64947	61	23.5	2.596	0.087169108	0.226268748
5	„ ”	2200	1400	940	730	100419	1570	1065	1.474	0.134778121	0.198686996
6	„ ”	81	50	720	500	44814	400.5	275	1.456	0.060147449	0.087596558


7	" - "	280	60	960	250	8394	620	155	4.000	0.011266071	0.045064283
8	" "	540	260			4885	270	130	2.077	0.00655644	0.013617221
9	" "	49	18	210	68	9136	129.5	43	3.012	0.012261952	0.036928436
10	" " "	370	170	430	240	47111	400	205	1.951	0.063230385	0.123376362
11	" " "	450	150	700	430	57780	575	290	1.983	0.077549865	0.153762662
12	" "	210	20	480	210	17809	345	115	3.000	0.023902484	0.071707453
13	" - "	21	4.7	69	12	45644	45	8.35	5.389	0.06126144	0.330151474
14	" "	1310 0	2500	1180	130	3660	7140	1315	5.430	0.004912297	0.02667209
15	" "	2200	1250	1320	760	21404	1760	1005	1.751	0.028727541	0.050308927
16	1923"	80	9	8	1.3	2079	44	5.15	8.544	0.002790346	0.023839846
17	" "	12	4	95	30	14069	53.5	17	3.147	0.018882815	0.059425329
18		860	360	115	34	7114	487.5	197	2.475	0.009548109	0.023627935
19	" "	555	340	399	310	21000	477	325	1.468	0.028185309	0.041367361
20	-	59	28	600	360	208	329.5	194	1.698	0.000279169	0.000474155
21	" "	54	19	245	100	6926	149.5	59.5	2.513	0.009295783	0.023356632
22	" "	1622	850	800	680	4425	1211	765	1.583	0.005939047	0.009401551
23	" 95"	274	180	802	580	3477	538	380	1.416	0.004666682	0.006607039
24	" "	3085	1300	3370	290 0	428	3227. 5	2100	1.537	0.000574443	0.000882865
25	" 90"	93	50	140	80	88	116.5	65	1.792	0.00011811	0.000211689
26	" "	998	480	1500	650	2833	1249	565	2.211	0.003802332	0.00840551
27	" -91"	1684	700	421	310	5769	1052. 5	505	2.084	0.007742907	0.016137445
28	" "	1082	500	740	380	42922	911	440	2.070	0.057608087	0.119274926
29	" "	12	4	40	28	7667	26	16	1.625	0.010290322	0.016721773
30	" - -96"	236	110	186	110	2105	211	110	1.918	0.002825242	0.005419327
31	" - - "	103	70	81	55	501	92	62.5	1.472	0.000672421	0.000989804
32	" "	13	3	20	8	4938	16.5	5.5	3.000	0.006627574	0.019882722
33	" "	661	320	1209	750	742	935	535	1.748	0.000995881	0.001740465
34	" "	1381	1250	140	90	1070	760.5	670	1.135	0.001436109	0.00163009
35	" -94"	326	150	994	620	2513	660	385	1.714	0.003372842	0.005782015
36	" "	3400	900	882	650	9917	2141	775	2.763	0.013310177	0.036770436
37	" "	47	17	470	230	848	258.5	123.5	2.093	0.00113815	0.002382281
38	" "	32	7	52	20	117	42	13.5	3.111	0.000157032	0.000488545
39	" -91"	299	180	330	150	846	314.5	165	1.906	0.001135465	0.002164266
40	" " -	1642	1550	1397 0	940 0	2100	7806	5475	1.426	0.002818531	0.00401853
41	" " -	225	140	185	90	2053	205	115	1.783	0.002755449	0.004911888
42	" " -	1020	550	400	220	2781	710	385	1.844	0.00373254	0.006883386


745069

1.88106
5401

1

2.158627274


 промишлени предприятия във
Велико Търново


 I степен на
замърсяване
БПК5 (0-200)

	промишлени предприятия в Лясковец		II степен на замърсяване	БПК5 (201-600)
	промишлени предприятия в Горна Оряховица		III степен на замърсяване	БПК5 (> 600)

		I 2015		II 2015		2015	2015		/ s		Ki
		mg l/O ₂	mg l/O ₂	mg l/O ₂	mg l/O ₂		m ³	mg l/O ₂				mg l/O_{2}
	-										
1	" "	120	39	195	68	9257	157.5	53.5	2.94392 5234	0.044158545	0.129999456
2	" - "	66	32	56	15	64947	61	23.5	2.59574 4681	0.309815819	0.804202765
3	" - "	280	60	960	250	8394	620	155	4	0.040041788	0.160167151
4	" "	540	260			4885	270	130	2.07692 3077	0.023302851	0.048398229
5	" "	49	18	210	68	9136	129.5	43	3.01162 7907	0.043581341	0.131250781
6	" "	210	20	480	210	17809	345	115	3	0.084954038	0.254862115
7	" - "	21	4.7	69	12	45644	45	8.35	5.38922 1557	0.217734972	1.173422007
8	1923"	80	9	8	1.3	2079	44	5.15	8.54368 932	0.009917426	0.084731409
9	" "	12	4	95	30	14069	53.5	17	3.14705 8824	0.067113166	0.21120908
10		860	360	115	34	7114	487.5	197	2.47461 9289	0.033935821	0.083978236
11	-	59	28	600	360	208	329.5	194	1.69845 3608	0.00099222	0.001685239
12	" "	54	19	245	100	6926	149.5	59.5	2.51260 5042	0.033039007	0.083013975
13	" 90"	93	50	140	80	88	116.5	65	1.79230 7692	0.000419785	0.000752384
14	" "	12	4	40	28	7667	26	16	1.625	0.036573789	0.059432407
15	" - -96"	236	110	186	110	2105	211	110	1.91818 1818	0.010041454	0.019261334
16	" - - "	103	70	81	55	501	92	62.5	1.472	0.002389914	0.003517953
17	" "	13	3	20	8	4938	16.5	5.5	3	0.023555676	0.070667029
18	" "	47	17	470	230	848	258.5	123.5	2.09311 7409	0.004045203	0.008467085
19	" "	32	7	52	20	117	42	13.5	3.11111 1111	0.000558124	0.001736384
20	" -91"	299	180	330	150	846	314.5	165	1.90606 0606	0.004035663	0.007692218
21	" " "	225	140	185	90	2053	205	115	1.78260 8696	0.009793399	0.017457798
	-					209631				1	3.355905036
	I -										
1	" "	880	630	580	400	26329	730	515	1.41747 5728	0.102022312	0.144614151
2	" "	81	50	720	500	44814	400.5	275	1.45636 3636	0.173649887	0.252897381
3	" "	370	170	430	240	47111	400	205	1.95121 9512	0.182550538	0.356196173
4	" "	450	150	700	430	57780	575	290	1.98275 8621	0.223891875	0.443923545
5	" "	555	340	399	310	21000	477	325	1.46769 2308	0.081372956	0.119430461
6	" 95"	274	180	802	580	3477	538	380	1.41578 9474	0.013473036	0.019074983
7	" "	998	480	1500	650	2833	1249	565	2.21061 9469	0.010977599	0.024267294
8	" -91"	1684	700	421	310	5769	1052.	505	2.08415	0.022354313	0.04658993

							5		8416		
9	" "	1082	500	740	380	42922	911	440	2.07045 4545	0.166318571	0.344355042
10	" "	661	320	1209	750	742	935	535	1.74766 3551	0.002875178	0.005024843
11	" -94"	326	150	994	620	2513	660	385	1.71428 5714	0.00973763	0.016693081
12	" "	1020	550	400	220	2781	710	385	1.84415 5844	0.010776104	0.019872816
	I-					258071				1	1.792939699
	II-										
1	" - "	7200	5200	1940	100 0	133944	4570	3100	1.47419 3548	0.482912531	0.711906538
2	" "	2200	1400	940	730	100419	1570	1065	1.47417 8404	0.36204379	0.533717137
3	" "	1310 0	2500	1180	130	3660	7140	1315	5.42965 7795	0.013195514	0.071647123
4	" "	2200	1250	1320	760	21404	1760	1005	1.75124 3781	0.077168517	0.135140885
5	" "	1622	850	800	680	4425	1211	765	1.58300 6536	0.015953592	0.025254641
6	" "	3085	1300	3370	290 0	428	3227. 5	2100	1.53690 4762	0.001543082	0.00237157
7	" "	1381	1250	140	90	1070	760.5	670	1.13507 4627	0.003857705	0.004378783
8	" "	3400	900	882	650	9917	2141	775	2.76258 0645	0.035754073	0.09877351
9	" "	1642	1550	1397 0	940 0	2100	7806	5475	1.42575 3425	0.007571196	0.010794659
	II-					277367				1	1.593984846







- 2016 .

		2016 .		2016 .	/ s		
		mg l/O ₂	mg l/O ₂					m^{3}
	-						
1	" - "	72	22	15801	3.272727273	0.073504305	0.240559545
2	" - "	165	23	6906	7.173913043	0.032125861	0.230468135
3	" SMD"	350	170	1713	2.058823529	0.007968665	0.016406075
4	" "	160	78	3997	2.051282051	0.018593552	0.038140619
5	" "	170	81	382	2.098765432	0.001777017	0.003729542
6	" "	68	10	6249	6.8	0.029069578	0.197673131
7	" "	82	14	646	5.857142857	0.003005112	0.017601373
8	" "	70	34	14069	2.058823529	0.065447255	0.134744348
9	" -1923"	80	11	2079	7.272727273	0.009671252	0.070336377
10	" "	130	35	9257	3.714285714	0.043062424	0.159946145

11	" - "	68	16	45637	4.25	0.212297702	0.902265231
12	" - "	210	55	64924	3.818181818	0.302018449	1.153161352
13	" - " - " - " "3	200	100	161	2	0.000748952	0.001497904
14	" "	282	180	845	1.566666667	0.003930836	0.00615831
15	" - " - "	247	150	501	1.646666667	0.00233059	0.003837705
16	" " - "	250	150	120	1.666666667	0.000558225	0.000930375
17	" "	265	170	2444	1.558823529	0.011369187	0.017722556
18	" 90"	230	170	88	1.352941176	0.000409365	0.000553847
19	" "	470	160	485	2.9375	0.00225616	0.006627471
20	" "	460	180	82	2.555555556	0.000381454	0.000974827
21	" . I . - I	20	4.6	1260	4.347826087	0.005861365	0.025484195
22	" . I . -II	20	4.8	352	4.166666667	0.001637461	0.006822753
23	" " -	28	5.4	10	5.185185185	4.65188E-05	0.000241208
24	" "	230	110	401	2.090909091	0.001865403	0.003900387
25	" " - "	140	36	3377	3.888888889	0.015709388	0.061092064
26	" " -	140	36	5759	3.888888889	0.026790158	0.10418395
27	" "	290	120	1080	2.416666667	0.005024027	0.012141398
28	" "	68	22	67	3.090909091	0.000311676	0.000963361
29	" "	180	77	1574	2.337662338	0.007322054	0.01711649
30	" 2000" -	80	23	402	3.47826087	0.001870054	0.006504537
31	" 2000" - .	80	24	26	3.333333333	0.000120949	0.000403163
32	" " -	240	120	169	2	0.000786167	0.001572334
33	" " -I .	240	120	128	2	0.00059544	0.00119088
34	" "	350	120	466	2.916666667	0.002167775	0.006322676
35	" - "	120	49	683	2.448979592	0.003177232	0.007780976
36	" " -	60	18	631	3.333333333	0.002935334	0.009784448
37	" "	310	150	2330	2.066666667	0.010838873	0.022400337
38	" . "	80	27	311	2.962962963	0.001446734	0.004286618
39	" " - " "28	96	34	296	2.823529412	0.001376956	0.003887874
40	" " - " "	150	52	2620	2.884615385	0.012187917	0.035157454
41	" 2003"	145	55	980	2.636363636	0.004558839	0.012018758
42	" "	140	56	609	2.5	0.002832993	0.007082482
43	" "	660	175	1053	3.771428571	0.004898426	0.018474065
44	" " -	180	120	1157	1.5	0.005382221	0.008073332
45	" "	180	110	89	1.636363636	0.000414017	0.000677482
46	" 2001"	190	170	358	1.117647059	0.001665372	0.001861298
47	" "	150	110	1097	1.363636364	0.005103109	0.006958785
48	" "	120	80	761	1.5	0.003540078	0.005310117
49	" "	245	180	539	1.361111111	0.002507362	0.003412798
50	" "	41	30	93	1.366666667	0.000432625	0.000591254
51	" "	145	120	2381	1.208333333	0.011076119	0.013383643
52	" - "	180	130	678	1.384615385	0.003153972	0.004367039

30	" " "	596	450	14	1.324444444	6.2057E-05	8.21911E-05
31	" " "	250	205	99	1.219512195	0.000438832	0.000535161
32	" " "	689	480	10539	1.435416667	0.046715633	0.067056398
33	" " "	585	490	833	1.193877551	0.003692392	0.004408264
34	" " "	290	220	197	1.318181818	0.000873231	0.001151077
35	" " "	432	270	620	1.6	0.002748239	0.004397183
36	" " "	700	520	2074	1.346153846	0.009193303	0.0123756
37	" " "	1164	250	3357	4.656	0.014880385	0.069283073
38	" - -2006"	731	560	243	1.305357143	0.001077132	0.001406043
39	" - "	596	440	48	1.354545455	0.000212767	0.000288202
40	" 9999"	394	250	351	1.576	0.001555858	0.002452032
41	" "	1240	490	1035	2.530612245	0.004587786	0.011609908
42	" -2001" -	412	280	394	1.471428571	0.001746462	0.002569794
	I-			225599		1	2.012091201
	II-						
1	" "	1740	700	758	2.485714286	0.001891557	0.004701871
2	" "	2420	750	2916	3.226666667	0.007276756	0.023479667
3	" " - " -	1300	850	21457	1.529411765	0.053545048	0.081892426
4	" "	8720	4850	41100	1.797938144	0.102563335	0.184402532
5	" "	7100	5000	133944	1.42	0.334251662	0.47463736
6	" "	1120	610	21404	1.836065574	0.053412789	0.098069383
7	" " "	1220	630	100419	1.936507937	0.250591424	0.485272281
8	" "	3200	1300	2609	2.461538462	0.006510651	0.016026217
9	" "	2860	2300	7124	1.243478261	0.017777645	0.022106115
10	" - . 04"	2158	1650	92	1.307878788	0.000229582	0.000300266
11	" "	4810	1900	9917	2.531578947	0.02474746	0.062650148
12	" 94"	1379	1150	2513	1.199130435	0.006271087	0.007519851
13	" 91" -	2091	1650	4957	1.267272727	0.012369987	0.015676147
14	" "	2870	1200	9705	2.391666667	0.024218422	0.057922394
15	" "	6180	4500	1848	1.373333333	0.004611607	0.006333273
16	" 21"	7490	1400	379	5.35	0.000945779	0.005059916
17	" "	5300	3700	428	1.432432432	0.001068056	0.001529918
18	" - "	996	800	554	1.245	0.001382484	0.001721192
19	" "	1324	790	21000	1.675949367	0.052404624	0.087827496
20	" - . "	1900	650	2401	2.923076923	0.005991595	0.017513894
21	" - "	3760	2010	11786	1.870646766	0.029411471	0.055018473
22	" "	1840	700	681	2.628571429	0.001699407	0.004467013
23	" " "	1080	620	701	1.741935484	0.001749316	0.003047196
24	" " " -	1258	1150	408	1.093913043	0.001018147	0.001113764
25	" " " -	1827	1550	996	1.178709677	0.002485476	0.002929655
26	" " " " "	1222	850	254	1.437647059	0.000633846	0.000911247

27	" - "	2810	2000	125	1.405	0.000311932	0.000438265
28	" " -	3540	2600	129	1.361538462	0.000321914	0.000438298
29	" 96"	1380	650	123	2.123076923	0.000306941	0.00065166
II-				400728		1	1.723657918

	промишлени предприятия във Велико Търново		I степен на замърсяване	БПК5 (0-200)
	промишлени предприятия в Лясковец		II степен на замърсяване	БПК5 (201-600)
	промишлени предприятия в Горна Оряховица		III степен на замърсяване	БПК5 (> 600)

2015 .

(Ki=2,158)

(Ki=1.943)

I

(210-280 . . .)

2016 .

.4, .3 7/14.11.2000 .

2016 ,

2016 .

2016 .

2015 .



I

-

, 2016 . ,

, ,

, , 5

:

, (),

:

,

(

.)

4.4.

4.4.1.

;

)

- :
 - 37500 . ./
 - 47500 . ./
 - 5 - 265 ./ .
 - 270 ./ .

5

(60 . 5/

.) - 165625

:

)

102 000 .

:

-

-

-

- -

— () ,
 ,
 ,
 — ,
 , - .
) ,
 ,
 (60 . 5/ .) - 10596
 ,
 ,
 :
 :
 -
 -
 -
 :
 -
 -
 -
 -
 ” ”
 , .
 ,
 .
 ,
 ” ” ” ” .
 :
) 2014 .

1		mg/kg	20.6	5.16
2		mg/kg	<0.05	<0.05
3		mg/kg	7.86	<0.05

4		mg/kg	157	1096
5		mg/kg	56	9.11
6		mg/kg	32.6	27.2
7		mg/kg	205	10.1
8		mg/kg	730	234
9		%	29.09	54.21
10			7.67	7.12
11		%	90.2	27.17
12		mg/kg	< 0.005	< 0.005
13		mg/kg	< 0.01	< 0.01
14	Salmonella spp.	/		
15	. coli	g	1	0.1
16	Clostridium perfringens	g	0.01	0.001

/17.12.2014 .

2574 /17.12.2014 .;

 -
2575

) 2015 .

1		mg/kg	4,08	3,59
2		mg/kg	<0.05	<0.05
3		mg/kg	21.7	3.77
4		mg/kg	151	2453
5		mg/kg	57.8	22.7
6		mg/kg	26.6	66.5
7		mg/kg	268	33.6
8		mg/kg	630	625
9		%	41.29	51,74
10			7.59	7,72
11		%	89.24	31,39
12		mg/kg	<0.005	<0.005
13		mg/kg	<0.01	<0.01
14	Salmonella spp.	/		
15	. coli	g	1,0	0,01
16	Clostridium perfringens	g	0,1	0,01
17	Enterococcus spp	cfu/g	7.0 10 ¹	2,4 10 ²

2572 /04.01.2016 .;

2573 /04.01.2016 .

4.4.2.

)

18 .

:

- 18

)

-

-

-

-

-

-

-

)

4.4.3.

,

”

”

2012-2017 .

. 9222/20.06.2012 .

” ” ,
 , -
 , -
 ,
 ” ,
 ,
 0 . .

2015 .,

,
 ,
 .
 -
) :
) 18 -
 .
)
 - ,
 , -
)
 , -
)
 , -
)
 , -
) (2015 . 2016 .
):
)
 - 2015 .

	2015 .
--	--------

	m ³	%	%
	48	25,7	46
	63	28,4	47
	191	18	48
	199	24,7	49
	270	19	49
	407	23,1	50
	305	37,3	50
	98	33,5	50
	300	25,6	48
	146	21	47
	198	24,1	48
	63	17,7	49
	2288		

- 2016 .

	2016 .		
	m ³	%	%
	50	18,2	52
	223	18,4	54
	121	18,7	52
	149	33,4	50
	205	18,6	51
	390	31	49
	350	35	48
	180	25	51
	250	28	50
	150	20	51
	150	20	49
	80	18	49
	2298		

- 2017 .

	2017 .		
	m ³	%	%
	55	20	50
	145	21	49

	130	20	49
	220	20	49
	310	18	51
	395	35	50
	360	30	51
	150	32	50
	310	33	51
	190	22	50
	210	21	49
	120	18	48
	2595		

- 2018 .

	2018 .		
	m ³	%	%
	75	21	49
	90	22	50
	90	21	49
	270	18	51
	330	19	48
	440	29	49
	380	30	51
	190	32	51
	310	33	51
	210	25	50
	210	22	49
	170	18	49
	2765		

- 2019 .

	2019 .		
	m ³	%	%
	110	19	48
	95	19	49
	225	20	49
	240	20	50
	300	33	50
	420	28	50
	370	34	51

	240	32	51
	320	30	51
	195	25	50
	185	20	49
	165	18	49
	2865		

- 2020 .

	. 2020 .		
	m ³	%	%
	65	23	49
	90	22	48
	150	22	49
	250	20	49
	310	27	51
	480	36	50
	400	28	51
	200	30	51
	300	33	50
	200	26	50
	200	22	49
	150	20	48
	2795		

- 2021 .

	. 2021 .		
	m ³	%	%
	120	22	48
	150	25	49
	150	20	49
	250	20	50
	320	19	50
	460	25	50
	370	30	51
	140	35	51
	320	30	51
	180	25	50
	200	22	49
	120	18	49

	2780		
--	------	--	--

)

- 2015 .

	2015 .		
	m ³	%	%
	77	29.70	66.39
	122.5	29.38	60.57
	185.5	29.92	54.21
	161	29.32	53.89
	150.5	30.21	52.93
	192.5	29.65	50.63
	129.5	29.84	50.43
	178.5	29.80	51.54
	87.5	29.92	51.20
	126	29.88	50.80
	168	30.10	52.49
	101.5	30.06	54.52
	1 680		

- 2016 .

	2016 .				
	(. .)	(%)		(%)	
	80	4.6	29.5	57	52
	130	4.8	29	62	54
	180	5.4	28.7	58	53
	160	4.9	30	56	51
	160	5.3	29	58	49
	180	4.2	28.8	58	49
	150	3.93	29	55	49
	150	4.5	30	57	51
	180	4.2	28	59	52
	150	5.8	29	63	53
	150	5.3	29	65	55

	90	4.9	30	70	56
	1760				

- 2017 .

	2017 .		
	m ³	%	%
	80	30	66
	120	29	60
	185	31	54
	165	29	55
	150	30	52
	190	30	50
	130	31	51
	170	30	52
	90	30	51
	120	31	52
	160	30	53
	100	30	55
	1 680		

- 2018 .

	2018 .		
	m ³	%	%
	70	29	65
	110	29.5	61
	180	30	57
	170	31	55
	160	30	54
	190	30	50
	140	29	52
	170	31	51
	100	30	51
	120	29	50
	170	31	55

	110	30	54
	1 690		

- 2019 .

	. 2019 .		
	m ³	%	%
	90	29	64
	120	30	62
	170	29	56
	190	31	57
	170	30	54
	180	30	52
	140	29	50
	160	31	50
	110	30	51
	120	31	50
	170	29	56
	100	30	54
	1 630		

- 2020 .

	. 2020 .		
	m ³	%	%
	100	30	64
	110	31	66
	160	29	64
	190	31	60
	170	29.5	54
	150	30	55
	140	29.5	53
	160	31	50
	160	31	52

	120	30	50
	170	31	56
	90	30	62

- 2021 .

	2021 .		
	m ³	%	%
	120	31	60
	100	29	65
	170	30	62
	180	31	63
	170	31	55
	160	30	52
	190	29	53
	180	30	53
	160	31	52
	150	31	51
	170	30	56
	100	31	60

)

2015 .,

2015 . 0.

,								
		2015	2016	2017	2018	2019	2020	2012
	. .	0	1021	1031	1018	1040	1031	1031
		0	229	231	228	233	231	231



)

100 %

2004 .

No339 14

1.

2.

3.

4.

I II

5.

6.

7.

6 18-

5.

5.1.

2015 ., 2016 .
 2017-2021 .

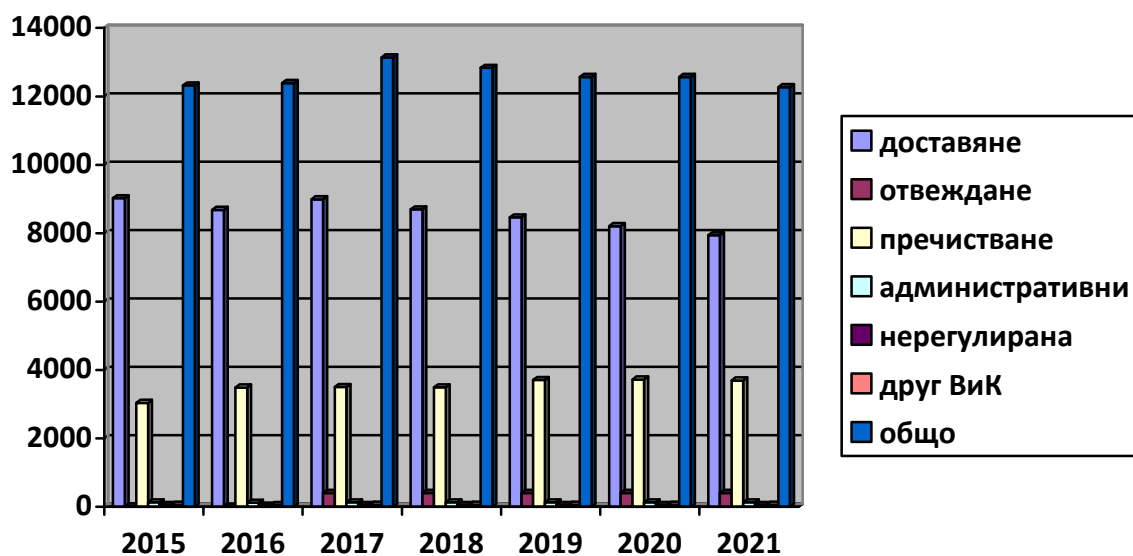
		2015	2016	2017	2018	2019	2020	2021
1		9024	8682	8989	8696	8460	8204	7940

2		17	9	403	403	403	403	403
3		3040	3488	3503	3494	3807	3723	3691
4		130	121	130	130	129	128	127
4		52	37	52	51	51	51	50
5		60	55	60	59	59	59	58
6		12323	12392	13137	12833	12909	12568	12269

:

2015-2021

.



:

”

”

,

-

() .

2015 ., 41,6%

, 57.4%

-

1%

,

”

”

”

“

”

,

“

/

21%

,

-

,

:

•

-

,

;

•

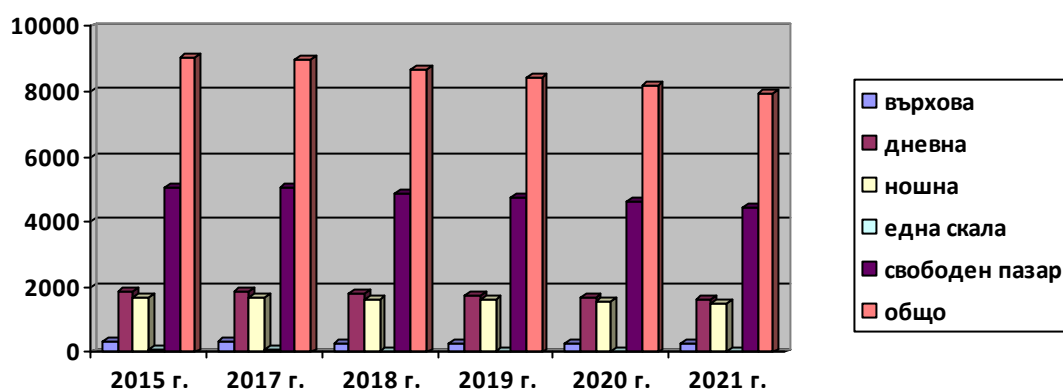
-

;

;

	2015 .		2017 .		2018 .		2019 .		2020 .		2021 .	
		%		%		%		%		%		%
	309	3,4	308	3,4	298	3,4	290	3,4	281	3,4	272	3,4
	1873	20,8	1866	20,8	1805	20,8	1756	20,8	1703	20,8	1648	20,8
	1711	19	1704	19	1648	19	1604	19	1555	19	1505	19
	63	0,7	62	0,7	60	0,7	59	0,7	57	0,7	55	0,7
	5068	56,1	5049	56,1	4885	56,1	4751	56,1	4608	56,1	4460	56,1
0	9024	100	8989	100	8696	100	8460	100	8204	100	7940	100

%



5.2.

2015 .. 2016 .
 2017-2021 .

		2015	2016	2017	2018	2019	2020	2021
		1	17	9	403	403	403	403	403

2017 .
 / / .
 21100
 - 386000
 300000 ; 43800

5.3.

2015 .. 2016 .
 2017-2021 .

		2015	2016	2017	2018	2019	2020	2021
		1 <i>пречистване</i>	<i>3040</i>	<i>3488</i>	<i>3503</i>	<i>3494</i>	<i>3807</i>	<i>3723</i>	3691

2017 .
 / / . 466 . 2019 .-
 91980 kwh 131400 kwh;
 105120 kwh.
 / 2 6/.
 / 3
 9/ .

5.4.

№	Ефективност на разходите	година						
		2015	2016	2017	2018	2019	2020	2021
1	за услугата доставяне на вода на потребителите	1.1	1.0	1.1	1.1	1.1	1.1	1.1
2	за услугата отвеждане на отпадъчни води	0.8	0.8	1.1	1.1	1.2	1.2	1.2
3	за услугата пречистване на отпадъчни води	0.7	0.6	1.0	1.0	1.1	1.1	1.1

5.5.

. 5.4.

5.6.

. 5.4.

5.7.

№	Ефективност на персонала		година						
			2015	2016	2017	2018	2019	2020	2021
1	за услугата доставяне на вода на потребителите	бр/1 000 СВО	6.60	6.67	6.55	6.46	6.40	6.34	6.27
2	за услугите отвеждане и пречистване	бр/1 000 СКО	10.99	12.15	10.60	10.51	9.88	9.88	9.87

/50,18%./



2015 .



4.

10



2015 .



2015 .

80%

2015 .

2016 .

5.8.

. 5.7.

5.9.

5.11.

2015 .

3777 . – . .

2016 .

10 755 .

12 14% 2021 .

		, Dy	
1	2	3	4

1		1500	2015
		FLOWTUF 1500	2018
		400	
1.1		1000	2017
		200	2017
		200	2017
	.	200	2017
		500	2016
		500	2017
1.2		200	2018
	.	150	2018
1.3	.	80	2016
1.4	.	150	2016
1.5	. +	150	2017
1.6		150	2018
	.	50	2015
1.7	.	50	2016
1.8		150	2016
	.	100	2016
1.9		10 3/	2016
	.	50	2018
1.10	.	50	2017
1.11		150	2017
	.	150	2017
1.12	.	150	2017
1.13	.	10 3/	2019
1.14	.	100	2018
1.15	.	100	2018
1.16		80	2017
	.	80	2017
1.17	.	50	2017
1.18	.	100	2018
1.19	.	200	2019
1.20	.	100	2019



1.21	.		
1.22	.	80	2019
1.23	.	80	2018
	+	50	2019
1.24	.	700	2018
		50	2019
		200	2018
		150	2018
		150	2018
		400	2018
1.25	.	100	2018
	+	100	2018
1.26	.	50	2019
1.27	.	200	2018
1.28	.	20 3/	2020
1.29	.	200	2019
1.30	.	200	2019
1.31	.	80	2019
		200	2019
1.32	.	100	2019
1.33	.	150	2018
		150	2018
		200	2019
		150	2019
		400	2020
1.34	.	200	2018
		.100	2018
			2018
1.35	.	100	2015
			2019
1.36	.	150	2019
1.37	.	200	2018
1.38	.	100	2019
		100	2018
1.39	.	100	2019
1.40	.	50	2020
		150	2019
1.41	.	100	2019
		20 3/	2015

1.42	.	200	2019
1.42.1	.	100	2019
1.42.2	.	100	2019
1.43	.	100	2018
1.44	.	200	2019
		200	2019
		150	2019
1.45	.	80	2019
1.46	.	150	2019
1.47	.	150	2019
1.48	.	100	2019
1.49	.	200	2018
		200	2018
1.50	.	400	2018
		200	2018
		200	2018
		100	2017
1.51	.	200	2018
1.52	.		
1.53	.		
1.54	.		
1.55	.		
1.56	.		
1.57	.	30 3/	2018
1.58	.		
1.59	.		
1.60	.		
1.61	.		
1.62	.		
2		100	2017
		100	2017
		80	2017
3		150	2019
		150	2019
4		100	2017
		80	2017
5		100	2016
6		150	2016
7			
8		80	2019
		150	2019

9		100	2019
		20 3/	2020
10			
11			
12			
13			
14			
15		200	2020
16		100	2020
17		150	2019
18	. .	100	2016
19		200	2018
20	. .	50	2020
21		100	2016
		100	2018
		20 3/	2020
22		80	2018
23			
24	1	300	2016
		200	2016
25	3	200	2016
		200	2016
26	2	200	2016
27	-	100	2018
28		150	2017
		150	2017
29		80	2015
			2015
		150	2015
			2015
30		150	2018
		150	2018
		150	2018
31		100	2017
		150	2017
		80	2017
32		150	2018
		50	2020
33		50	2016
34		100	2018
35		150	2016
36		200	2018
37		150	2015

		150	2017
38		150	2018
		200	2018
39		100	2018
40		150	2017
41		150	2018
42	.	150	2016
43		80	2016
	.	150	2016
44		150	2016
45		100	2016
46		200	2015
			2018
		100	2015
			2018
		20 3/	2015
			2020
47	.	80	2018
48		100	2018
49	.	100	2016
50	.	50	2016
51			
52		80	2016
		100	2016
53		80	2018
54	. .	100	2018
55		100	2017
56	.	50	2017
57		20 3/	2015
			2020
58			
59		20 3/	2017
		20 3/	2017
60		20 3/	2015
			2020
			2020
			2020
		10 3/	2019
		10 3/	2019
61		10 3/	2017
62		50	2017
63	.	20 3/	2017
64		150	2018

65		150	2019
	.	150	2019
		150	2019
66	.	80	2016
67		200	2019
68		100	2017
		100	2017
69		150	2016
		20 3/	2016
		20 3/	2016
70		100	2017
		100	2017
71		100	2016
		100	2016
72		80	2017
73		150	2016
74	.	100	2017
75	.	100	2016
76	.	100	2016
77		20 3/	2015
			2020
78		50	2016
		200	2016
	.	150	2016
		150	2016
		80	2016
79		100	2017
	.	10 3/	2019
80		150	2016
81		150	2018
		150	2018
82		100	2017
83		100	2016
84		100	2017
85		200	2017
86	.	200	2016
87		80	2018
88		80	2018
89		80	2018
90		150	2018
		20 3/	2017
		20 3/	2017
91		10 3/	2017



		50	2017
		100	2016
92		20 3/	2016
		20 3/	2019
93			
94		20 3/	2018
95			
96			
97		100	2016
98		20 3/	2019
		20 3/	2019
99		20 3/	2016
		100	2016
100		20 3/	2019
101		20 3/	2019
			2019
102		50	2016
103		100	2016
104			
105			
106			
107			
108			
109			
110			
111		20 3/	2019
112		20 3/	2016
113		20 3/	2016
114			
115		10 3/	2016
116		20 3/	2016

5.12.



➤ ,

➤ , ;

➤ ;

➤ ,

➤ ;

➤ , , ;

➤ - , ,

➤ , ;

➤ ;

➤ ;

➤ ;

➤ .

➤ « » .

➤ - ,

➤ ,

➤ ,

➤ , -

➤ ,

➤ ,

➤ ,

➤ « » .

I.

:

1.

- :
- , , ,
- ;
- ;
- ;
- - ,
- .
- ” “ , ,
- .
- . 2015 .
- -
- ,
- - .

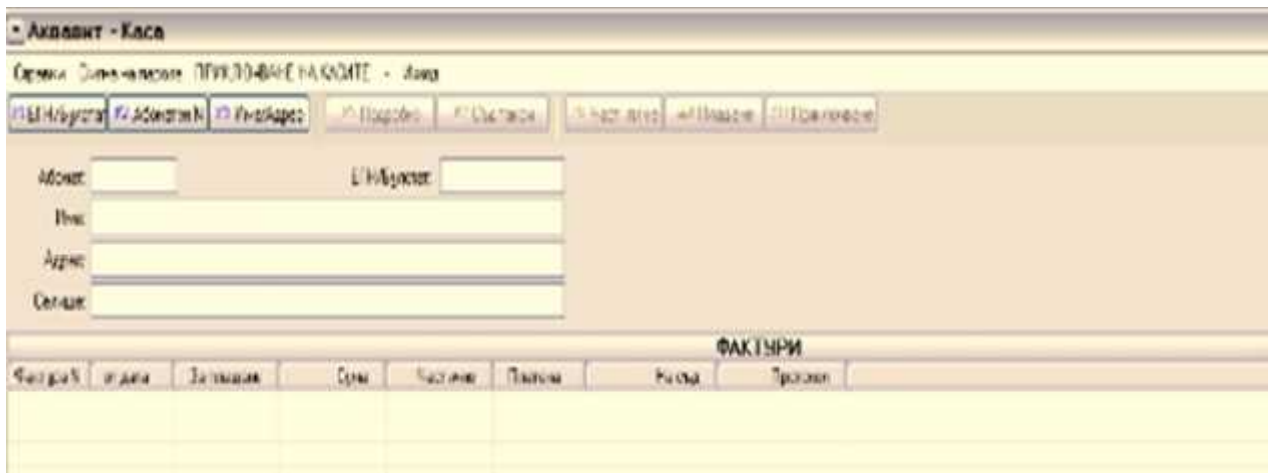
II.

-

· : ·

24

LAN-



✓

14

1.

2.

3.

✓

3

✓

ePay, eBay,

✓

✓

✓

✓

()

“ ”

” “

167

2015–2016 .

✓

✓

✓

✓

(4
).

✓

✓

✓

✓

✓

“ ”

(. . .)

.

.

— , “ ”

,

➤ .

,

➤ .

“ ” , .

.

➤ .

“ ” , .

✓ :

✓ ;

✓ :

✓ :

,

✓

✓

✓

№
№
№
№
№
№

(SMS;)



- ;
- - , ;
- ;
- ;
- .

„ ” “

- ;
- ;
- ;

- 1. , :
- 1.1 ;
- 1.2 - , ;
- 1.3 ;
- 1.4 ;
- 1.5 ;

6.

6.1.

,

6.2.

6.2.1. SCADA

SCADA

SKADA

() “ ” (1987 .) .

2010 .

(. 30, .)

(- , -)

GSM

GSM

GSM

GSM

GSM

- 1. „ ”
- 2. „ 4000”
- 3. „ ”
- 4. „ 1000”
- 5. „ ”

- 1. „ ”
- 2. „ ”
- 3. „ ”
- 4. „ ”
- 5. „ ”

- 1. „ ”
- 2. „ ”
- 3. „ ”
- 4. „ ”

- ()
- ” –
1. ” ”
 2. –
 3. ” ”
 1. ” ”
 2. ” ”
 3. ” ”
 4. ” ”
 5. ” ”

2014 .
:

GSM

-
1. ” 350”
 2. ” 450”
 3. ” ”

- ()
-
1. ” ”
 2. ” ”
 3. ” ”
 - 4.

-
1. ” ”
 2. ” ”
 3. ” ”
 4. ” ”
 5. ” ”
 6. ” ”
 7. ” ”
 8. ” ”

9. „ ”

10. „ ”

11. „ ”

12.

13.

GSM

3300 .

GSM

GSM

(,).

2014 .

4 . : 1.

2.

3.

4.

2015 . 11 .

6.2.3.

() –

()

6.2.4.



2018 .

6.2.8.

6.2.9.

6.2.10.

24

a

LAN-

- 7

6.2.11.

ERP)

2004 .

ERP

✓

✓

✓

✓

✓

✓

✓



6.3.

6.3.1.

6.3.2.



6.3.3.

,

. 23 (3)

SQL

Unix

”

”

6.3.4.

Java /EReports/
a

6.3.5.

,

”

“

6.3.6.

,

—

6.4.

14

2015 . 147 . ,
 - 150 . ,
 , 14
 100% .
 ,
 “ ”

6.5.

14

2015 . 12 . ;
 12 . ,
 - .

100%

7.

7.1.

7.2.

7.2.1.

31.12.2015 .

1.1	(/)
1	.

2	" - , . "
3	.
4	" ", .
5	" ", .
6	" ", .
7	" ", .
8	" ", .
9	" ", .
10	, .
11	- , .
12	" ", .
13	" ", .
14	" ", .
15	" ", .
16	" ", .
17	" -1" " -2", .
18	" ", .
19	" ", .
20	" ", .
21	" ", .
22	" ", .
23	" ", .
24	" ", .
25	" ", .
26	, .
27	1, .
28	" ", .
29	" ", .
30	1, .
31	" ", .
32	" ", .
33	1, .
34	1, .
35	1, .
36	1, .
37	9/2 , .
38	9/2 , .

39	1 2, .
40	.
41	.
42	-2 .
43	" "_
44	" "
45	" ", " " " " .
46	" " "
47	" " " " .
48	.
49	. . .
50	. . -3 .
51	. . .
52	., . .
53	.
54	. . .
55	.
56	.
57	- 2 .
58	.2 . .
59	.
60	. . .
61	.
62	.
63	.
64	.
65	. .1 .
66	. .4 .
67	. .3 .
68	. . . . .
69	.
70	. . .
71	-
72	. . .
73	. . .
74	.
75	.

76	.
77	- 3 .
78	.
79	.
80	. . .
81	.
82	.
83	.
84	. . .
85	. . .
86	. -2 . . .
87	.
88	. . .
89	- .
90	- .
91	. .
92	. . .
93	. . . .
94	. . .
95	. . . . .
96	. . .
97	.
98	.
99	2 . . .
100	.
101	.
102	.
103	.
104	- 2 . . .
105	.
106	.
107	.
108	.
109	.
110	.
111	. 2 .
112	. . .
113	. 2 .
114	. . . . .

115	. . . . .
116	. . . . .
117	. . . . .
118	. . . . .
119	. . - 4
120	. . - 2
121	. . . . .
122	. . . . .
123	. . 2
124	. . . . .
125	. . . . .
126	. . . . .
127	. . . . .
128	. . . . .
129	. - 3
130	. - 2
131	. . . . .
132	. . . . .
133	. . . . .
134	. . . . .
135	. . . . .
136	. . . . .
137	. . . . .
138	. . . . .
139	. . . . .
140	. . . . .
141	. . . . .
142	. - 3
143	. . . . .
144	. . . . .
145	. . . . .
146	. . . . .
147	. . . . .
148	. - 3
149	. . . . .
150	. . . . .
151	. - 2
152	. . . . .
153	. - 2

154	.-2	.
155		.
156		.
157		.
158		.
159		.
160		.
161		.
162		.

” ”
 ” ”
 , , , , , , , , , ,
 , , , , , , , , , ,
 9,18 . 3. ” ” 92,18 . 3, . . .
 . 25
 . - 1968 . 1981 .
 - ,
 . . .
 1500 ,
 2500 / .
 4995 . = =1,80
 =2,1 =2,3 .
 1500 ,
 1300 .
 -
 - .
 . , , , , , , , , , ,
 . 900, , , , 630
 546. - , , , , , , , , , ,
 - , , , , , , , , , ,
 , , , , , , , , , ,
 900, 800 720 1200, 1000,

		50 . ,	538 .	
1937.				
		-	-	
		1210	,	: 273 . ,
-696 . ,	-241 .			1 .
3 .				
			4337	200 -
		1309		200 -
2250	150 -			
				970
125 -				
		1010		125 -
	: 1962, 1968, 1992, 1994 .			
	: . 307 . , 4252 ; .	258 . , 3368 ; .		306
., 3749 .				
	365 .		2	
		391 . ,	6877 .	
	: 1946, 1976 .			
	1962 .			+
				795 . ,
10860 .		: 1946, 1965 .		
	382 .			
			1030	150 -

280	200	-		795	„	10860	.
.	:	1961, 1969	.			437	„
5433	.						
	41	.					.
			30			80	-
						676	
						80	-
			223			20	80
-							.
”	”	.					.
.	78	„	682	.		:	1940, 1970
							.
	136	.					.
			2540			273	-
						735	.
150	-	.					.
			200	„		2496	.
							.
							-
							,
<hr/>							
						4	.
						:	,
		()	“	”	.	.
							.
	2968	.	822	,		416	.
	-		Ø125	,	3230	.	.
							-
			823	,		L=530	.
	4342	.				587	.
	Ø273	,	L=530	.		570	Ø300
			636	.		Ø100	, L=2900
							.

	1499.		
Ø200	Ø200 , L=3200 , L=700 1969, 1985, 1986 .	484	3859
		107,	55 .
			Ø159 , L=2200 Ø159 , L=2800 Ø159 , L=1700
108	Ø159 , L=2300 1958, 1969, 1973, 1992 .		172 – 819 ,
			1027 .
	399.		
Ø150	Ø150 , L=1380 L=1590 1969, 1985, 1986 .	440	3381
			Ø200 ,
	174.		
L=200			Ø100 ,
			Ø100 , L=1600 Ø80 , L=200
1964, 1968, 1989 .		198	2152
			1954,
	252.		
	Ø200 , L=2600 Ø150 , L=450 1969 .	343	2845 .



146.

Ø100 , L=770
L=370

Ø125 ,

1993 .

13

99 .

3.

80 , 250 Ø80 , 52 .

Ø80 , L=200

Ø100 , L=100

1995 .

5

22 .

568.

L=2740

Ø150 ,

Ø100 , L=1200

Ø125 , L=600

1950 .

410

6332 .

8637 .

5579

“ ”

60

80 .

3/4" 2".

- 160 . .

328.

Ø100 , L=480

Ø200 , L=2026

Ø150 , L=2049

	1957	1987 .		
	418		2402 .	
	1070.			
			Ø80 , L=200	
			Ø150 , L=986	
			Ø200 , L=493	
”	1954	1985 .		
	558		5044 .	
	296.			
			Ø100 , L=53	
			Ø150 , L=166	
	1972, 1973, 1985	1994 .		
	243		3146	
	2469.			
L=200	Ø100	, L=304		Ø80 ,
				Ø100 , L=650 ,
			Ø200 , L=5000	
			Ø250 , L=318	
			”	
	1945, 1970, 1971, 1988 , 2009 .			
	1310		10553 .	
			2971,	794.
	Ø219	, L=3290		
	Ø300	, L=418		

Ø100 , L=2400

Ø150 , L=239

1945, 1975, 1974 .

1378 ” ” .

11267 ,

-353

7248

4359,

774.

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

2

Ø125 , L=370 ;

Ø150 , L=380 ;

Ø273 , L=2 170 ;

Ø200 , L=3 350

4

Ø273 , L=120 -

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

3

Ø150 , L=1 100 ;

Ø150 , L=5 000

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

”

1960, 1970, 1968, 1971, 1986, 1991, 1993 .

1 792 .

20 950 .

382 .

4 084 .

547 .

5 574 .

501 .

5492 .

194.

L=300

Ø100 ,

L=300

Ø80 ,

Ø80

L=500

Ø125

1953, 1969, 1992.

345

5 106 .

	920.			
	L=1 800	Ø125	L=1 900	Ø125
Ø150			L=1280	Ø125
Ø200				L=380
	1932, 1967, 1968.			
	654		8 543	
	146.			
	L=605	Ø125		
	L=100	Ø200		
	1970.			
	195		2 789	
	609.		2	
	L=1 800	Ø150		
	L=840	Ø125		
	L=650	Ø200		
				L=1 00
Ø150	1965, 1968, 1981, 1984.			
	517		4 873	
	465.			
			L=1 800	Ø150
				L=620
Ø80			L=850	Ø125
	1982, 1987.			
	471		5 838	
	302.			



L=900 Ø110

1985.

495 . 7 425 .

719.

2 , ,

L=1 700 Ø125 , L=100 Ø200 , L=1 200 Ø150 .

L=720 Ø100 , L=1 400 Ø125

1968, 1971, 1986.

659 . 3 910 .

0, 12.

57.

3 . ,

L=152 L=600 Ø80
Ø80

1983, 1987.

548.

L=3037 Ø100 ,

L=33 Ø125

1961, 1974.

481 . 4504 .

132.

4 ,



Ø80

1988.

23. 2

L=1025 Ø80
L=650

1965.

15 398

36.

: L=50 Ø80 ; L=700 Ø80 ;

: L=300 Ø80 ; L=200 Ø80

1965 1987.

48.

1963 1966.
8 98

96.

L=3600 Ø80

L=900 Ø80

523.

L=60 Ø100

L=1430 Ø80

, L=744 Ø125
 1961 1987.
 342 . 2881 .
 120, - -11.
 , .
 L=1720 Ø100 ,
 L=2500 Ø80 .
 1968.
 : 298 . 2405 .
 : 11 . 113 .
 79. ,
 .
 1978.

 . 10671. 4 1
 . ” ”
 , L=2600 Ø300
 L=900 Ø300
 1974.
 “ ” L=2000 Ø200
 , .
 1974, 1993.
 L=1150 Ø250 L=1400 Ø175
 “ ” .
 1980.
 (), ,
 , L=3250 Ø250 ,
 2,

		L=1400	Ø350		
		1974,	1987,	1989.	
		1 727		18 332	
		1810.		5	1
		“	”		
		L=1450	Ø125		
				“	”
					L=2650
Ø200					
L=200	Ø219				
“	”				1964,
1974.					
1987.					
		“	”		
		L=2100	Ø80		
			1936.		
		“	”		
		L=830	Ø80		
			1926.		
		“	”	“	”
		L=970	Ø175		
				1936.	
		1087		7534	
		:	-410	- 888.	
			L=4680	Ø200	
					L=1367
					Ø150
		344	3737		
					L=3823
					Ø150
					L=1000
Ø200					
		280		2095	
1970.					



1976.

1103.

L=1989 Ø200

L=1500 Ø150

L=422 Ø250

1974.

774

9915

752.

1968.

454

4331

1882.

Ø200

1951, 1964.

328

3658

217.

Ø150

L=400

Ø150

L=240

1950.

345

3528

	417.			
			L=1900	Ø125
			L=2650	Ø219
				L=1400
Ø200				
		1947, 1988.		
		564	4864	
		350,	-1333.	
L=420	L=2273	Ø200		L=280
Ø200	Ø125			
			L=2760	Ø150
			L=378	Ø150
		1923, 1928, 1970, 1974 –		1928, 1970 –
			: 332	3282
			: 496	5138
	726.			
				L=1000
Ø200			L=500	Ø125
			L=350	Ø150
			L=200	Ø150
		1960, 1963, 1987.		
		724	9271	

562.

L=1400 Ø125
 L=1500 Ø150
 L=650 Ø150

1971.

475 . 6184 .

113.

3 .

L=1470 Ø125

L=1400 Ø150
 L=226 Ø125

1969, 1985.

233 . 613 .

162.

L=175 Ø100
 L=190 Ø80

9 . Ø150

1947, 1987.

94 . 646 .

149.



1955, 1957, 1960, 1962.

330 . 1425 .

91. ,

1942, 1945, 1965.

122 . 917 .

” . ” .
L=1500 Ø80 .

493.

L=1000 Ø100 .

1937, 1951, 1974, 1987.

434 . 2954 .

757.

L=840 Ø160 .

L=2600 Ø80 .

L=400 Ø150

1956, 1993.

800 . 5379 .

512. -

L=430 Ø 150

1951, 1987.

663 . 5335 .

792. ,

L=300 Ø150 ,

L=550 Ø 100

1943, 1955, 1960, 1974.

421 . 4061 .

3 ,

L=240 Ø125 Ø100 , L=2800 .

L=6000 Ø100

L=320 Ø80

L=400 Ø80 ,

1971.

48. 8 148

783. 129

1100 .

3 ,

L=400

Ø60 , L=460 Ø60 , L=400 Ø60

L=1100 Ø60
L=400 Ø60

L=700 Ø60 . . " "

2012

1985, 1987.



117	.	12.	11	
.	.	2.	3	40
.	.	7.	7	50
.	.	-	-	-
.	.	2	,	
Ø80	.			L=9300
.	.	2	.	.
.	.	1958, 1960.	.	.
1818	.	68.	144	
.	.	3,	- 12,	- 5
.	.	-		
L=650	Ø60		3	
	, L=292	Ø60		L=810
	L=1100	Ø60		Ø 1 ½",
.	.			
.	.		L=340	Ø60
.	.	"	"	
153.		1958, 1960, 1985, 1987.	154	1584
.	.	1.	,	
.	.		L=25	Ø60
.	.		L=470	Ø60
.	.	1958.		
.	.	5	50	
.	.	(-	-
.	.	,	.	.
Ø125	.			L=1200
.	L=350	Ø80	3	:
.	.			
.		L=1000	Ø125	
.	.		L=3800	Ø100



L=1300 Ø 80

1987.

66 . 373 .

75.

L=2300 Ø 60

L=150 Ø 100

1951, 1974.

134 . 1635 .

L=1000 Ø 60

L=1000 Ø 60

1972.

4.

1

52 .

5.

2

140 .

” ”.

50.

2

L=2700 Ø 80

L=2000 Ø

60

1955, 1983.

94 . 1157 .

L=3900 Ø 80

L=260 Ø 125

1975.

28. 96
 1189 .
 76 . 15+2. 66
 -
 L=1424 Ø 1"
 L=380 Ø 1 1/2".
 L=1218 Ø 1" 1942.
 6. 10.
 47 759 .
 " ,
 100% .
 250 .
 PEND 114000 .
 700 .
 40 70 / .
 () .
 2 500 . .
 " , . " 400 " . .
 ()
 10 / .
 270 . .
 240 . .
 " " - ,
 2 4000 . . ,
 80 . / 98% /,
 3/4" 2". 175, 150
 125 . 29086 .

				36500 .
“	”			
		3/4"	250, 200 2".	125 .
”	”			
“	”			14130 .
		3/4"	250, 200 2".	125 .
“	”			14054 .
		3/4"	200, 2".	125 100 .
“	”			10700 .
			150, 3/4"	125 100 .
		- 60		
“	”			8434 .
		100		
		3/4"	2".	

7.2.2.

	()		
	" "	1186/01.10.2002 . 1186/12.05.2004 . 01410001/30.06.2008 .	05.06.2004 . 12.11.2005 . 30.06.2018 .
"	"- , .	101015/17.06.2005 . 11510437/25.11.2009 .	17.06.2010 . 18.06.2020 .
		101182/17.10.2005 . 11510566/18.10.2010 . . 589/27.09.2011 .	17.10.2010 . 31.12.2011 . 01.01.2017 .
	" , .	101183/17.10.2005 . 11510560/12.10.2010 . . 583/26.09.2011 .	17.10.2010 . 31.12.2011 . 01.01.2017 .
	" , .	101189/17.10.2005 . 11510559/12.10.2010 . . 581/21.09.2011 .	17.10.2010 . 31.12.2011 . 01.01.2017 .
	" , .	101306/20.12.2005 . 11510567/18.10.2010 . . 590/27.09.2011 .	20.12.2010 . 31.12.2011 . 01.01.2017 .
	" , .	101334/10.01.2006 .	10.01.2031 .
	" , .	101370/01.02.2006 . 11510588/09.12.2010 . . 585/26.09.2011 .	01.02.2011 . 31.12.2011 . 01.01.2017 .
	" , .	101377/06.02.2006 . 11510587/02.12.2010 . . 584/26.09.2011 .	06.02.2011 . 31.12.2011 . 01.01.2017 .
		101410/27.02.2006 . 11510589/09.12.2010 . . 587/27.09.2011 .	27.02.2011 . 31.12.2011 . 01.01.2017 .
"	"- , .	101442/22.03.2006 . 11510619/24.01.2011 . . 611/15.11.2011 .	22.03.2011 . 23.03.2012 . 24.03.2017 .
	" , .	101493/20.04.2006 .	20.04.2011 .
	" , .	101494/21.04.2006 . 11510621/27.01.2011 . . 696/22.03.2012 . . 919/09.11.2012 .	21.04.2011 . 22.04.2012 . 23.04.2013 . 24.04.2018 .
	" , .	101502/25.04.2006 . 11510620/27.01.2011 . . 695/22.03.2012 . . 920/09.11.2012 .	25.04.2011 . 26.04.2012 . 27.04.2013 . 28.04.2018 .
	" , .	101509/28.04.2006 . 11510590/09.12.2010 . . 588/27.09.2011 .	28.04.2011 . 31.12.2011 . 01.01.2017 .

" -1" " -2", .	101550/31.05.2006 . 414/02.03.2011 . 757/18.05.2012 . 1263/14.02.2014 .	31.05.2011 . 01.06.2012 . 02.06.2014 . 03.06.2024 .
" , .	101551/31.05.2006 . 415/07.03.2011 . 753/16.05.2012 . 1261/05.02.2014 .	31.05.2011 . 01.06.2012 . 02.06.2014 . 03.06.2024 .
" , .	101552/31.05.2006 . 416/07.03.2011 . 754/16.05.2012 . 1260/05.02.2014 .	31.05.2011 . 01.06.2012 . 02.06.2014 . 03.06.2024 .
" , .	101560/06.06.2006 . 11510627/10.02.2011 . 760/19.05.2012 . 1266/21.02.2014 .	06.06.2011 . 07.06.2012 . 08.06.2014 . 09.06.2019 .
" , .	101561/06.06.2006 . 453/06.06.2011 . 759/19.05.2012 . 1264/14.02.2014 .	06.06.2011 . 07.06.2012 . 08.06.2014 . 09.06.2019 .
" , .	101563/06.06.2006 . 405/17.02.2011 . 758/18.05.2012 . 1276/10.03.2014 .	06.06.2011 . 07.06.2012 . 08.06.2014 . 09.06.2024 .
" , .	101571/15.06.2006 . 11510626/03.02.2011 . 763/22.05.2012 . 1277/11.03.2014 .	15.06.2011 . 16.06.2012 . 17.06.2014 . 18.06.2024 .
" , .	101576/20.06.2006 .	20.06.2011 .
" , .	101577/20.06.2006 .	20.06.2011 .
" , .	101787/16.11.2006 . 565/29.08.2011 .	16.11.2011 . 17.11.2016 .
, .	101843/18.12.2006 . 577/15.09.2011 .	18.12.2011 . 19.12.2016 .

1, .	101919/05.02.2007 .	05.02.2012 .
" ", .	101922/09.02.2007 . . 606/02.11.2011	09.02.2012 . 10.02.2017 .
" ", .	101923/09.02.2007 . . 613/16.11.2011	09.02.2012 . 10.02.2017 .
" ", .	101925/09.02.2007 . . 600/18.10.2011	09.02.2012 . 10.02.2017 .
" ", .	101930/19.02.2007 . . 674/01.03.2012 . 921/09.11.2012	19.02.2012 . 20.02.2013 . 21.02.2018 .
1, .	11510004/22.03.2007 . . 947/29.11.2012 . 4- 00024/11.11.2014 . . 4- 0146/11.11.2014 .	22.3.2013 . 23.03.2019 . 23.03.2019 . 23.03.2019 .
1, .	11510006/26.03.2007 . . 949/30.11.2012	26.03.2013 . 27.03.2019 .
1, .	11510007/26.03.2007 .	26.03.2013 .
1, .	11510036/18.04.2007 . . 970/10.01.2013	18.04.2013 . 19.04.2019 .
1, .	11510037/18.04.2007 . . 971/11.01.2013	18.04.2013 . 19.04.2019 .
9/2 , .	11510038/18.04.2007 . . 977/15.01.2013	18.04.2013 . 19.04.2019 .
9/2 , .	11510039/18.04.2007 . . 978/15.01.2013	18.04.2013 . 19.04.2019 .
1 2, .	11510040/18.04.2007 . . 981/16.01.2013	18.04.2013 . 19.04.2019 .
.	11510143/19.12.2007 .	19.12.2032 .
.	11510144/19.12.2007 .	19.12.2032 .
-2 .	11510517/09.06.2010 .	09.06.2016 .
" "_	11510530/23.06.2010 . . 1864/23.03.2016	23.06.2016 . 23.06.2026 .
" "	11510534/13.07.2010 .	13.07.2016 .
" ", " " "	11510609/19.01.2011 .	19.01.2017 .
" "	11510646/09.06.2011 . . 1857/18.03.2016	09.06.2016 . 09.06.2021 .
" ", " "	11510647/09.06.2011 . . 1862/22.03.2016	09.06.2016 . 09.06.2026 .

	11510792/17.09.2012	17.09.2037
" "	11510964/08.09.2014	08.09.2024

7.2.3.

— 23 , " "

80%

2 , ,

7.2.4.

80% , " "

—

20 .

40 .

" "

8 " 01.05.1979 .,

95%

2500 / , 550-1200 / ,

0,3-0,4 / —

7.2.5.

1		1006/13.08.2003 1006/27.07.2006 13140130/06.07.2009 406/23.02.2011 1744/15.10.2015	25.08.2006 26.08.2009 27.08.2015 27.08.2015 28.08.2025
2		100936/25.04.2005 13140078/08.09.2008 13140202/28.08.2012 4-00109/28.04.2015	25.04.2008 08.09.2014
3		101157/26.09.2005 101157/12.10.2005 13140085/01.10.2008 1422/24.09.2014	26.09.2008 12.10.2008 13.10.2014 13.10.2020
4		101842/14.12.2006 13140131/06.07.2009 183/08.12.2009 1883/05.05.2016	14.12.2009 15.12.2015 15.12.2015 15.12.2025
5		13140010/27.04.2007 1029/26.03.2013 1541/20.01.2015 1863/23.03.2016	27.04.2013 30.12.2015 30.12.2015 01.01.2022
6		13140137/15.09.2009 1397/08.09.2014 1457/03.11.2014	31.12.2014 31.12.2014 31.12.2020
7		13140170/30.03.2011 383/15.07.2014 13140252/09.09.2014	30.03.2021 30.03.2021
8		13140196/30.05.2012	30.05.2018

8.

2 8

8.1

8.1.1

8.1.2

✓

✓

✓

✓

✓

✓

✓

8.1.3

8.1.4

8.2

8.2.1

8.2.2

✓

✓

✓

✓

✓

✓

8.2.3

8.2.4

8.3

8.3.1

8.3.2

8.3.3

8.3.4

9.

9.1. **EN ISO 9001:2008**

9.2. **EN ISO 14001:2004**

9.3. **BS OHSAS 18001:2007**

9.4.

✓

✓

✓

✓



✓

✓

✓

I.

1.

3

1. /

10

3.

- ;
- ;
- ;
- ;
- ;
- ;
- ;
- ;
- ;
- ;
- ;

2016 .

2016 .

2017-2021 .

2017-2021 .

1.1.

1.1.1.

2017-2021 .

Инвестиции в собствени активи	година						
	2015	2016	2017	2018	2019	2020	2021
общо:	590	117	270	287	325	366	393
Водоснабдяване:	264	99	131	134	149	167	178
Отвеждане:	252	12	104	112	124	136	142
Пречистване:	74	5	35	41	52	63	73

1.1.2.

2017-2021 .

	година					
	2015	2017	2018	2019	2020	2021
Инвестиции в публични активи	388	4104	3397	3519	3776	4302
Водоснабдяване	341	3222	1756	1830	1968	1932
Отвеждане	32	665	1305	1289	1342	1717
Пречистване	15	217	335	400	465	652

Разходи за амортизации на публични активи	година				
	2017	2018	2019	2020	2021
общо:	4249	4263	4301	4342	4362

1.1.3.

	11		130	120	125	125	130
			50	70	70	70	110
			20	30	30	30	30
			30	60	70	70	80
			180	10			
Проучване и модернизиране на канализационна мрежа			65	65	60	55	65
Скада за пречистване на отпадъчни води				41	11	90	



1.2.

9/

/

3,

2.

Възможност за изпълнение на инвестиционната програма

Годи на										1			2			3		
	-		- / .	-		- / .	-		- / .	-		- / .	-		- / .	-		- / .
2017	10270435	1.28	13146157	6988979	0.11	768788	4601765	0.08	368141	965596	0.59	569702	117965	0.73	86114	310979	0.81	251893
	10270435	1.36	13967792	6988979	0.25	1747245	4601765	0.32	1472565	965596	0.51	492454	117965	0.64	75498	310979	0.80	248783
			821635			978457			1104424			-77248			-10617			-3110
2018	10062053	1.28	12879428	6818665	0.11	750053	4501677	0.08	360134	944594	0.59	557310	115399	0.73	84241	304215	0.81	246414
	10062053	1.46	14690597	6818665	0.37	2522906	4501677	0.35	1575587	944594	0.56	528973	115399	0.7	80779	304215	0.87	264667
			1811170			1772853			1215453			-28338			-3462			18253
2019	9980550	1.28	12775104	6857300	0.11	754303	4559079	0.08	364726	936943	0.59	552796	114465	0.73	83559	301751	0.81	244418
	9980550	1.49	14871020	6857300	0.39	2674347	4559079	0.37	1686859	936943	0.59	552796	114465	0.74	84704	301751	0.93	280628
			2095916			1920044			1322133			0			1145			36210
2020		1.28	12671626	6801756	0.11	748193	4522150	0.08	361772	929354	0.59	548319	113537	0.73	82882	299307	0.81	242439
	9899708	1.53	15146553	6801756	0.42	2856738	4522150	0.39	1763639	929354	0.62	576199	113537	0.78	88559	299307	0.98	293321
			2474927			2108544			1401867			27881			5677			50882
2021	9819520	1.28	12568986	6746662	0.11	742133	4485521	0.08	358842	921826	0.59	543877	112618	0.73	82211	296882	0.81	240474
	9819520	1.55	15220256	6746662	0.50	3373331	4485521	0.43	1928774	921826	0.69	636060	112618	0.86	96851	296882	1.07	317664
			80345304			2631198			1569932			92183			14640			77189

Годи на	Разходи без амортизации /хил.лв	увеличение разходи спрямо 2015г. /хил.лв.	инвестиции/хил.лв.	заем /хил.лв.	увеличение на приход /хил.лв.	покриване на заем - главница и лихва	печалба след покриване на увеличение разходи и инвестиции
	13213						
2017	13982	-769	-4377	2160	2814	-165	-337
2018	13949	-736	-3674		4786	-495	-119
2019	13994	-781	-3844		5375	-495	255
2020	14023	-810	-4142		6070	-495	623
2021	14059	-846	-4695		7036	-495	1000
общо:		-3942	-20732	2160	26081	-2145	1422

2.1.

Инвестиции в собствени активи	година						
	2015	2016	2017	2018	2019	2020	2021
общо:	590	117	270	287	325	366	393
Водоснабдяване:	264	99	131	134	149	167	178
Отвеждане:	252	12	104	112	124	136	142
Пречистване:	74	5	35	41	52	63	73

2017-2021 .

2.2.

2021 .

2017-

2.3.

Инвестиции в публични активи	година						
	2015	2016	2017	2018	2019	2020	2021
общо:	388	817	1944	3396	3519	3740	4247
Водоснабдяване:	341	552.04	1066.5	1756.31	1829.785	1968.776	1933.247
Отвеждане:	32	185.38	661.63	1305.47	1288.98	1306.715	1660.999
Пречистване:	15	79.582	215.86	334.215	400.2353	464.5091	652.7546

2.4.

Инвестиции в публични активи	година						
	2015	2016	2017	2018	2019	2020	2021
общо:	0	840	2160	0	0	0	0
Водоснабдяване:	0	840	2160	0	0	0	0
Отвеждане:	0	0	0	0	0	0	0
Пречистване:	0	0	0	0	0	0	0

3.

11

11.2
2017-2021 .

31.12.2015 .

:



		31.12.2015 .			
		-	-		:
1		3553758.11	3262271.80		6816029.91
2			942853.72		942853.72
3			353131.6		3531319.6
4			3480898.91		3480898.91
5			3254889.84		32514889.84
6			3650225.54		3650225.54
7			794909.32		794909.32
8			16619422.19		16619422.19
9		16845514.53	20218340.46		37063854.99
		20399272.64	115615131.38	0.00	136014404.02
10	" "	10546092.55	20820138.67	8776755.91	40142987.13
		30945365.19	136435270.05	8776755.91	176157391.15
11				5647664.8	5647664.80
		30945365.19	136435270.05	14424420.71	181805055.95

3.1.

/

11, I,
2017-2021 .

31.12.2015 .

/ .

--	--	--	--	--	--

	32000	8639861	3803934	1469504	479122	14424421
	1000	127711	139877	49838	12371	331517
	25000	2107865	2858286	1164522	243553	6399225
	7000	6531996	945648	304982	235569	8025195

3.2.

,

2015 .

.

2016-2017 .

,

11, II,
2017-2021 .

3.3.

,

,

(

2015 .,

-

,

/ /

11, III,
2017-2021 .

31.12.2015 .

/ .

	727000	42864559	96280860	27507983	234	167380635
	24000	848496	2120845	1039976	8	4033325
	563000	14296996	11165027	7089300	216	33114540
	164000	28567562	85115832	20418682	17.521348	134266095



4.

4.1.

4.1.1.



2015 .

2015 .

Вид разход		година					
		2015	2017	2018	2019	2020	2021
- за обеззаразяване	хил.лв.	70	2	-4	-6	-8	-10
- за коагуланти	хил.лв.	12	1	-2	-3	-4	-5
- за флокуланти	хил.лв.	9	1	-2	-3	-4	-5
- за ЛТК (лабораторно-технологични комплекси)	хил.лв.	26	1	-2	-3	-4	-5

Вид разход		година					
		2015	2017	2018	2019	2020	2021
- за обеззаразяване	хил.лв.	70	72	66	64	62	60
- за коагуланти	хил.лв.	12	13	10	9	8	7
- за флокуланти	хил.лв.	9	10	7	6	5	4
- за ЛТК (лабораторно-технологични комплекси)	хил.лв.	26	27	24	23	22	21



6
2017 .

2015 .



2021 . 30.06.2016 . 2018-

2015 .

Вид разход		година					
		2015	2017	2018	2019	2020	2021
електроенергия за технологични нужди	хил.лв.	1 458	11	37	75	117	160

Вид разход		година					
		2015	2017	2018	2019	2020	2021
електроенергия за технологични нужди	хил.лв.	1 458	1 469	1 421	1 383	1 341	1 298



2017-2021 . / 2015 .



2015 . 2017-2021 . /



,

,

2015 .

Вид разход		година					
		2015	2017	2018	2019	2020	2021
материали за оперативен ремонт		781	-250	-250	-250	-250	-250

Вид разход		година					
		2015	2017	2018	2019	2020	2021
материали за оперативен ремонт	хил.лв.	781	531	531	531	531	531



2017-2021 . / 2015 .



		/ . .
1.1		77
1.2		15
1.3		11
1.4		
1.5		13
	:	116

4.1.2.



, ,
, ,
, ,
/ 2015 .

		/ . .
2.1		57
2.2		11
2.3		2
2.4		19
2.5		14
2.6		13
2.7		5
2.8		5
2.9	.	7
2.1		2
2.11		1
2.12		1
2.13		6
2.14		1
2.15		3
2.16		1
2.17	.	1
2.18		
2,19		1
2.2		2
	:	152



Вид разход		година					
		2015	2017	2018	2019	2020	2021
застраховки	хил.лв.	14	14	14	14	14	14
разходи за доставяне на вода на входа	хил.лв.	1	1	1	1	1	1
наеми, в т.ч. и оперативен лизинг	хил.лв.	39	39	39	39	39	39
съобщителни услуги	хил.лв.	57	57	57	57	57	57
разходи за публикации	хил.лв.	26	26	26	26	26	26
консултантски услуги	хил.лв.	18	18	18	18	18	18
- юридически	хил.лв.	10	10	10	10	10	10
- финансово-счетоводни и одиторски	хил.лв.	7	7	7	7	7	7
- технически	хил.лв.	1	1	1	1	1	1
- други консултантски услуги	хил.лв.	0	0	0	0	0	0
въоръжена и противопожарна охрана	хил.лв.	330	330	330	330	330	330
проверка на измервателни уреди	хил.лв.	14	14	14	14	14	14
обучения на персонала	хил.лв.	9	9	9	9	9	9
други разходи за външни услуги	хил.лв.	152	152	152	152	152	152



		година					
		2015	2017	2018	2019	2020	2021
		334	284	284	284	274	274

2015 .

		година					
		2015	2017	2018	2019	2020	2021
		334	-50	-50	-50	-60	-60



01.01.2012 ./

№	Показател		година						
			2015	2016	2017	2018	2019	2020	2021
1 Добити водни к-ва общо									
1.1	от повърхностни водоизточници	м3	21323790	20046050	21721000	20915000	20350100	19805000	19185000
1.2	от подземни водоизточници	м3	5463317	5135950	5455000	5455000	5450000	5440000	5430000
общо:		м3	26787107	25182000	27176000	26370000	25800100	25245000	24615000
В т.ч. за									
1.2.1	ВС Йовковци	м3	25053117	23435500	25040000	24290000	23765000	23240000	22685000
1.2.2	ВС Др.ВиК оператор	м3	1733990	1746500	2136000	2080000	2035100	2005000	1930000
общо:		м3	26787107	25182000	27176000	26370000	25800100	25245000	24615000
2 Такса водоползване									
2.1	ВС Йовковци	лв.	501062	468710	500800	485800	475300	464800	453700
2.2	ВС Др.ВиК оператор	лв.	34680	34930	42720	41600	40702	40100	38600
общо:		лв.	535742	503640	543520	527400	516002	504900	492300

	Показател		година						
			2015	2016	2017	2018	2019	2020	2021
1	Фактурирани количества	м3	10195670	9964100	10270435	10062053	9980550	9899708	9819520
		лв.			49821	51352	50310	49903	49499
		лв.			2000	2000	2000	2000	2000
2	Стойност общо:	лв.			51821	53352	52310	51903	51499
Стойност общо:		хил.лв.	51	52	52	53	52	52	52

№	Дейност		година					
			2015	2017	2018	2019	2020	2021
1	Доставяне вода на потребителите	хил.лв.	42	43	44	43	43	43
2	Отвеждана на отпадъчни води	хил.лв.	3	3	3	3	3	3
3	Пречистване на отпадъчни води	хил.лв.	6	6	6	6	6	6
общо:			51	52	53	52	52	52

10%			475782.14
1%	2016 .	2017 .	9515.64
	/	.	-2.0
			491.8
			483370.91
2015 .			493.8
			838836.55
10%			922720.20
	/	.	-2.0
			491.8
			918983.28
		2015 .	493.8
			26498.35
10%			29148.19
	/	.	-2.0
			491.8
			29030.14
		2015 .	493.8
			109929.23
10%			120922.15
			-2.0
			491.8
			120432.43
	/ :		4922661.44
/ . .			4923
			-45
/ .			
	/ . .		
			4878

2018 .			
			- / .
	2017 .		491.8
			3289252.572
1%			32892.52572
	/	.	-2.0
			489.8
			3308769.802
		2017 .	491.8
	/	.	-2.0
			489.8
			81592.10215
			-331.7831089
			489.8
			81260.31904
		2017 .	491.8
			483370.911
1%			4833.70911
	/	.	-2.0
			489.8
			-1965.56161
			486239.0585
2017 .			491.8
	/	.	-2.0
			489.8
			918983.2843
			-3736.919666
			489.8
			915246.3646
		2017 .	491.8
	/	.	-2.0
			489.8
			29030.13792
			-118.04708
			489.8
			28912.09084
		2017 .	491.8
			120432.431
			-2.0
			-489.7219869
			489.8
			119942.709
	/ :		4940370.344



/ . .		4940
		-48
/ .		
/ . .		4892

2019 .		
	.	- / .
2017 .	489.8	3308769.80
1%		33087.70
/ .	-3.0	-20264.39
	486.8	3321593.11
2018 .	489.8	81260.32
/ .	-3.0	-497.67
	486.8	80762.64
2018 .	489.8	486239.06
1%		4862.39
/ .	-3.0	-2977.95
	486.8	488123.50
2018 .	489.8	915246.36
/ .	-3.0	-5605.38
	486.8	909640.99
2018 .	489.8	28912.09
/ .	-3.0	-177.07
	486.8	28735.02
2018 .	489.8	119942.71
/ .	-3.0	-734.58
	486.8	119208.13
/ :		4948063.39
/ . .		4948
		-50
/ .		
/ . .		4898

2020 .		
	.	- / .
2019 .	486.8	3321593.11
1%		33215.93
/ .	-3.0	6825.76
	483.8	3361634.80
2019 .	486.8	80762.64
/ .	-3.0	-497.67
	483.8	80264.97
2019 .	486.8	488123.50
1%		4881.24
/ .	-3.0	-3007.91



	483.8	489996.83
2019 .	486.8	909640.99
/ .	-3.0	-5605.38
	483.8	904035.61
2019 .	486.8	28735.02
/ .	-3.0	-177.07
	483.8	28557.95
2019 .	486.8	119208.13
/ .	-3.0	-734.58
	483.8	118473.54
/ :		4982963.70
/ . .		4983
		-50
/ .		
/ . . .		4933

2021 .		
	.	- / .
2020 .	483.8	3361634.80
1%		33616.35
/ .	-3.0	6950.82
	480.8	3402201.97
2020 .	483.8	80264.97
/ .	-3.0	-497.67
	480.8	79767.30
2020 .	483.8	489996.83
1%		4899.97
/ .	-3.0	-3038.17
	480.8	491858.62
2020 .	483.8	904035.61
/ .	-3.0	-5605.38
	480.8	898430.23
2020 .	483.8	28557.95
/ .	-3.0	-177.07
	480.8	28380.88
2020 .	483.8	118473.54
/ .	-3.0	-734.58
	480.8	117738.96
/ :		5018377.96
/ . .		5018
		-52
/ .		
/ . . .		4966

4.1.4.

- , ,
/ , , 2015 .
- ,
300,00 . /
/ ,
.

			година					
			2015	2017	2018	2019	2020	2021
1.1	300 .	. .	26	11	11	11	11	11
1.2		. .	10	10	10	10	10	10
1.3		. .	2	2	2	2	2	2
1.4	,	. .	7	7	7	7	7	7
	:	. .	45	30	30	30	30	30

4.1.5.

- / , Q
- 2017-2021 .
- Q /

4.2.

4.2.1.

- ,
- ,
- 2015 .
- .
- .

6
 2017-2021 . 2015 . :
 ✓
 30.06.2016 . 2018-2021 .
 ✓
 / . -2 . 4 . -2 ./.
 / .5.2.
 /.

		2015	2017	2018	2019	2020	2021
	. .	3	64	63	63	63	63

2015 .

		2015	2017	2018	2019	2020	2021
	. .	3	61	60	60	60	60

➤
 2017-2021 . / 2015 .

➤
 2017-2021 . /
 2015 .

➤
 , , .
 2015 .

		2015	2017	2018	2019	2020	2021



		57	-30	-30	-30	-30	-30
--	--	----	-----	-----	-----	-----	-----

		2015	2017	2018	2019	2020	2021
	..	57	27	27	27	27	27



2017-2021 . / 2015 .

		/ ..
1.1		1
1.2		1
	:	2

4.2.2.



, ,
 , ,
 , ,
 / 2015 .

		/ ..
2.1		3
2.2		30
2.3		1
2.4		4
2.5		1
2.6		1
	:	40



, / /
 , ,
 .
 2015 .

		2015	2017	2018	2019	2020	2021
--	--	------	------	------	------	------	------

		7	5	5	5	5	5
--	--	---	---	---	---	---	---

		2015	2017	2018	2019	2020	2021
	..	7	12	12	12	12	12



2015 .

		2015	2017	2018	2019	2020	2021
	..	80	-18	-18	-18	-18	-18

		2015	2017	2018	2019	2020	2021
	..	80	62	62	62	62	62



/ 01.01.2012 ./.

	Показател		година						
			2015	2016	2017	2018	2019	2020	2021
1	Фактурирани количества	м3	10195670	9964100	10270435	10062053	9980550	9899708	9819520
		лв.			49821	51352	50310	49903	49499
		лв.			2000	2000	2000	2000	2000
2	Стойност общо:	лв.			51821	53352	52310	51903	51499
	Стойност общо:	хил.лв.	51	52	52	53	52	52	52

		2015	2017	2018	2019	2020	2021
--	--	------	------	------	------	------	------



1	.	.	42	43	44	43	43	43
2	.	.	3	3	3	3	3	3
3	.	.	6	6	6	6	6	6
:			51	52	53	52	52	52



, 4 . / . - 2 .
-2 ./

2015 .

		2015 .					
		2015	2017	2018	2019	2020	2021
.	.	6	2	2	2	2	2

		2015 .					
		2015	2017	2018	2019	2020	2021
.	.	6	8	8	8	8	8

4.2.3.

1% 10% / /.

,
2007 .

		2015 .					
		2015	2017	2018	2019	2020	2021
.	.	36,1	+4	+2	+3	-	-



:

2015 .		
	.	- / .
	36.1	320935.04
		216351.18
		5974.48
		36141.50
		62466.67
		2532.31
		2793.51
/ :		326260.86
/ . .		326
		-4
/ . .		322

2017 .		
	.	- / .
2015 .	36.1	216351.18
10%		237986.30
1% 2016 . 2017 .		4759.73
/ . .	4.0	26369.67
	40.1	269115.70
2015 .	36.1	5974.48
10%		6571.93
/ . .	4.0	728.19
	40.1	7300.12
2015 .	36.1	36141.50
10%		39755.65
1% 2016 . 2017 .		795.11
/ . .	4.0	4405.06
	40.1	44955.82
2015 .	36.1	62466.67
10%		68713.34
/ . .	4.0	7613.67
	40.1	76327.00
2015 .	36.1	2532.31
10%		2785.54
/ . .	4.0	308.65
	40.1	3094.19
2015 .	36.1	2793.51
10%		3072.86
/ . .	4.0	340.48
	40.1	3413.34
/ :	40.1	404206.18
/ . .		404

		-26
/ .		
/ . .		
		378

2018 .		
	.	- / .
2017 .	40.1	269115.70
1%		2691.16
/ .	2.0	13422.23
	42.1	285229.08
2017 .	40.1	7300.12
/ .	2.0	364.10
	42.1	7664.22
2017 .	40.1	44955.82
1%	0.4	449.56
/ .	2.0	2242.19
	42.5	47647.57
2017 .	40.1	76327.00
/ .	2.0	3806.83
	42.1	80133.84
2017 .	40.1	3094.19
/ .	2.0	154.32
	42.1	3248.51
2017 .	40.1	3413.34
/ .	2.0	170.24
	42.1	3583.59
/ :	42.1	427506.80
/ . .		428
		-30
/ .		
/ . .		398

2019 .		
	.	- / .
2018 .	42.1	285229.08
1%		2852.29
/ .	3.0	20325.11
	45.1	308406.48
2018 .	42.1	7664.22
/ .	3.0	546.14
	45.1	8210.36
2018 .	42.5	47647.57
1%		476.48
/ .	3.0	3363.28



	45.5	51487.32
2018 .	42.1	80133.84
/ .	3.0	5710.25
	45.1	85844.09
2018 .	42.1	3248.51
/ .	3.0	231.49
	45.1	3480.00
2018 .	42.1	3583.59
/ .	3.0	255.36
	45.1	3838.95
/ :	45.1	461267.20
/ . .		461
		-32
/ .		
/ . .		429

2020 .		
		- / .
2019 .	45.1	308406.48
1%		3084.06
/ .		
	45.1	311490.55
2019 .	45.1	8210.36
/ .		
	45.1	8210.36
2019 .	45.1	51487.32
1%		514.87
/ .		
	45.1	52002,19
2019 .	45.1	85844.09
/ .		
	45.1	85844,09
2019 .	45.1	3480.00
/ .		
	45.1	3480.00
2019 .	45.1	3838.95
/ .		
	45.1	3838.95
/ :	45.1	464866.14
/ . .		465
		-32
/ .		
/ . .		433

2021 .		
--------	--	--

			- / .
2020 .	45.1		311490.55
1%			3114.91
/ .			
	45.1		314605.45
2020 .	45.1		8210.36
/ .			
	45.1		8210.36
2020 .	45.1		52002.19
1%			520.02
/ .			
	45.1		52522.22
2020 .	45.1		85844.09
/ .			
	45.1		85844.09
2020 .	45.1		3480.00
/ .			
	45.1		3480.00
2020 .	45.1		3838.95
/ .			
	45.1		3838.95
/ :	45.1		468501.07
/ . .			469
			-26
/ .			
/ . .			443

4.2.4.

2015 .

		/ . .
2.1	300 .	1
2.2		1
:		2

4.2.5.

Q

Нови активи	година				
	2017	2018	2019	2020	2021
1.Помпени станции с. Първомайци, гр.Долна Оряховица					

ел.енергия	61	61	61	61	61
Данък сгради, такса смет	2	2	2	2	2
ФРЗ - 4 бр. служители –поддръжка нова канализационна мрежа и ПС	53	53	54	55	55
2 .Поддръжка нова канализационна мрежа-ФРЗ и социални					
гр.Килифарево и гр.Златарица -2бр. служители		27	27	27	27
с Камен, с Кесарево и с.Сушица -3бр. служители			40	40	40

4.3.

4.3.1.



2015 .

		година					
		2015	2017	2018	2019	2020	2021
за обеззаразяване	хил.лв.	0	1	1	1	1	1
за коагуланти	хил.лв.	0	15	15	15	15	15
за флокуланти	хил.лв.	31	5	5	5	5	5
за ЛТК	хил.лв.	6	0	0	0	0	0

		година					
		2015	2017	2018	2019	2020	2021
за обеззаразяване	хил.лв.	0	1	1	1	1	1
за коагуланти	хил.лв.	0	15	15	15	15	15
за флокуланти	хил.лв.	31	36	36	36	36	36
за ЛТК	хил.лв.	6	6	6	6	6	6



		година					
		2015	2017	2018	2019	2020	2021

електроенергия за технологични нужди	хил.лв.	403	487	486	529	518	513
--------------------------------------	---------	-----	-----	-----	-----	-----	-----

2015 .

		година					
		2015	2017	2018	2019	2020	2021
електроенергия за технологични нужди	хил.лв.	403	84	83	126	115	110

6
 2017 . 2015 . 30.06.2016 . 2018-
 2021 .

“ 20172021 . : ”
 ➤ 2017 . :
 485 000 65 . / . (,
). . 5.3.
 ➤ 2019 . :
 45 . / . (,
). . 5.3.

➤
 ✓ 2017-2021 . :
 17 . / . 2015 .
 ()
 ✓ 10 . / . 2015 .

➤
 2015 . 2017-2021 . /



2015 .

		година					
		2015	2017	2018	2019	2020	2021
материали за оперативен ремонт	хил.лв.	51	-15	-15	-15	-15	-15

		година					
		2015	2017	2018	2019	2020	2021
материали за оперативен ремонт	хил.лв.	51	36	36	36	36	36



2017-2021 . / 2015 .

		/ . .
1.1		2
1.2		3
1.3		3
1.4		2
	:	10

4.3.2.



/ 2015 .

		/ . .
2.1		8
2.2		9
2.3		2

2.4		1
2.5		2
2.6		1
2.7		1
:		24



/ /

2015 .

		2015 .					
		2015	2017	2018	2019	2020	2021
	..	16	7	7	7	7	7

		2015 .					
		2015	2017	2018	2019	2020	2021
	..	16	23	23	23	23	23



2015 .

		2015 .					
		2015	2017	2018	2019	2020	2021
	..	24	-10	-10	-10	-10	-10

		2015 .					
		2015	2017	2018	2019	2020	2021
	..	24	14	14	14	14	14



/ 01.01.2012 ./

:

	Показател		година						
			2015	2016	2017	2018	2019	2020	2021
1	Фактурирани количества	м ³	10195670	9964100	10270435	10062053	9980550	9899708	9819520
		лв.			49821	51352	50310	49903	49499
		лв.			2000	2000	2000	2000	2000
2	Стойност общо:	лв.			51821	53352	52310	51903	51499
	Стойност общо:	хил.лв.	51	52	52	53	52	52	52

			2015	2017	2018	2019	2020	2021	
1		.	42	43	44	43	43	43	
2		.	3	3	3	3	3	3	
3		.	6	6	6	6	6	6	
	:		51	52	53	52	52	52	



2017-2021 .

01.01.2012 .



Такса заустване											
	фактурирано к-во питейна вода 2011-2015г.	средно количество 2011-2015г.		2017г. ст-ст лв.	к-во на маление спрямо 2017	к-во увеличние спрямо 2017	общо к-во за 2018			2018г. ст-ст лв.	
Велико Търново	20210828	4042166	0.005	20210.83	-91959	4042	3954248	0.005		19771.242	
Горна Оряховица	7050657	1410131	0.005	7050.66	-32080	1410	1379461	0.005		6897.3052	
Лясковец	2231600	446320	0.005	2231.60	-10154	446	436613	0.005		2183.0627	
Павликени	2300584	460117	0.005	2300.58	-10468	460	450109	0.005		2250.5463	
Елена	1419624	283925	0.005	1419.62	-6459	284	277749	0.005		1388.7472	
Стражица	1120603	224121	0.005	1120.60	-5099	224	219246	0.005		1096.2299	
Сухиндол	351920	70384	0.005	351.92	-1601	70	68853	0.005		344.26574	
Полски Тръмбеш	928239	185648	0.005	928.24	-4223	186	181610	0.005		908.0498	
ПСВ Йовковци по разрешено к-во от разрешително		364490	0.005	1822.45			364490	0.005		1822.45	
всичко:		7487301		37436.51			7332380			36661.899	

	общо к-во за 2018	к-во на маление спрямо 2018	к-во увеличние спрямо 2018	общо к-во за 2019		2019г. ст-ст лв.	к-во на маление спрямо 2019	к-во увеличние спрямо 2019	общо к-во за 2020		2020г. ст-ст лв.
Велико Търново	3954248	-35983.7	3954.248	3922219	0.005	19611.1	-35692.2	3922.219	3890449	0.005	19452.25
Горна Оряховица	1379461	-12553.1	1379.461	1368287	0.005	6841.437	-12451.4	1368.287	1357204	0.005	6786.021
Лясковец	436612.5	-3973.17	436.6125	433076	0.005	2165.38	-3940.99	433.076	429568.1	0.005	2147.84
Павликени	450109.3	-4095.99	450.1093	446463.4	0.005	2232.317	-4062.82	446.4634	442847	0.005	2214.235
Елена	277749.4	-2527.52	277.7494	275499.7	0.005	1377.498	-2507.05	275.4997	273268.1	0.005	1366.341
Стражица	219246	-1995.14	219.246	217470.1	0.005	1087.35	-1978.98	217.4701	215708.6	0.005	1078.543
Сухиндол	68853.15	-626.564	68.85315	68295.44	0.005	341.4772	-621.488	68.29544	67742.24	0.005	338.7112
Полски Тръмбеш	181610	-1652.65	181.61	180138.9	0.005	900.6946	-1639.26	180.1389	178679.8	0.005	893.399
ПСВ Йовковци по разрешено к-во от разрешително	364490			364490	0.005	1822.45			364490	0.005	1822.45
всичко:	7332380			7275940		36379.7			7219957		36099.79

	общо к-во за 2019	к-во на маление спрямо 2020	к-во увеличние спрямо 2020	общо к-во за 2021		2021г. ст-ст лв.
Велико Търново	3784109	-34435.4	3784.109	3753458	0.005	18767.29
Горна Оряховица	1320107	-12013	1320.107	1309414	0.005	6547.071
Лясковец	417826.4	-3802.22	417.8264	414442	0.005	2072.21
Павликени	430742.4	-3919.76	430.7424	427253.4	0.005	2136.267
Елена	265798.7	-2418.77	265.7987	263645.8	0.005	1318.229
Стражица	209812.5	-1909.29	209.8125	208113	0.005	1040.565
Сухиндол	65890.61	-599.605	65.89061	65356.89	0.005	326.7845
Полски Тръмбеш	173795.8	-1581.54	173.7958	172388.1	0.005	861.9405
ПСВ Йовковци по разрешено к-во от разрешително	364490			364490	0.005	1822.45
всичко:	7032573			6978561		34892.81

➤ , 2017 40 /
 ➤ , , 2019 4
 /
 2015 .

	2015	2017	2018	2019	2020	2021
.	15	40	40	44	44	44

2017 .		
	.	- / .
2015 .	66.9	409003.69
10%		449904.06
1% 2016 . 2017 .		8998.08
/ .	9.0	60525.21
	76	519427.35
2015 .	66.9	10139.57
10%		11153.53
/ .	9.0	1500.48
	76	12654.01
2015 .	66.9	68571.84
10%		75429.02
1% 2016 . 2017 .		1508.58
/ .	9.0	10147.40
	76	87085.01
2015 .	66.9	119174.50
10%		131091.95
/ .	9.0	17635.69
	76	148727.64
2015 .	66.9	4214.87
10%		4636.36
/ .	9.0	623.73
	76	5260.08
2015 .	66.9	10841.12
10%		11925.23
	9.0	1604.29
	76	13529.52
/ :	76	786683.61
/ . .		787
		-28
/ .		
/ . .		
		759

2018 .		
	.	- / .
2017 .	76	519427.353
1%		5194.274
/ .		
	76	524621.627
2017 .	76	12654.007
/ .		
	76	12654.007
2017 .	76	87085.008



1%		870.850
/ .	76	87955.858
2017 .	76	148727.639
/ .	76	148727.639
2017 .	76	5260.082
/ .	76	5260.082
2017 .	76	13529.523
	76	13529.523
/ :	76	792748.736
/ . .		793
		-30
/ .		
/ . .		763

2019 .		
		- / .
2018 .	76	524621.63
1%		5246.22
/ .	76	529867.84
2018 .	76	12654.01
/ .	76	12654.01
2018 .	76	87955.86
1%		879.56
/ .	76	88835.42
2018 .	76	148727.64
/ .	76	148727.64
2018 .	76	5260.08
/ .	76	5260.08
2017 .	76	13529.52
	76	13529.52
/ :	76	798874.51
/ . .		799
		-32
/ .		
/ . .		767



2020 .		
	.	- / .
2019 .	76	529867.84
1%		5298.68
/		
	76	535166.52
2019 .	76	12654.01
/		
	76	12654.01
2019 .	76	88835.42
1%		888.35
/		
	76	89723.77
2019 .	76	148727.64
/		
	76	148727.64
2019 .	76	5260.08
/		
	76	5260.08
2019 .	76	13529.52
	76	13529.52
/ :	76	805061.54
/ . .		805
		-32
/ .		
/ . .		773

2021 .		
	.	- / .
2020 .	76	535166.52
1%	76	5351.67
/		
	76	540518.19
2020 .	76	12654.01
/		
	76	12654.01
2020 .	76	89723.77
1%		897.24
/		
	76	90621.01
2020 .	76	148727.64
/		
	76	148727.64

ФРЗ и социални- 9бр.служители	126	127	128	129	130
2 .ПСОВ с Камен, с Кесарево и с.Сушица					
Данък сгради, такса смет			4	4	4
ел.енергия			45	46	45

4.4.

4.4.1.



,

2015 .



6

/

2015 .



2017-2021 .

/

2015 .



,

,

2015 .

2017-2021 .

/

4.4.2.

/

2015 .

2017-2021 .

4.4.3.

/

01.01.2012 ./.

:

№	Показател		година						
			2015	2016	2017	2018	2019	2020	2021
1 Добити водни к-ва общо									
1.1	от повърхностни водоизточници	м3	21323790	20046050	21721000	20915000	20350100	19805000	19185000
1.2	от подземни водоизточници	м3	5463317	5135950	5455000	5455000	5450000	5440000	5430000
общо:		м3	26787107	25182000	27176000	26370000	25800100	25245000	24615000
в т.ч. за									
1.2.1	ВС Йовковци	м3	25053117	23435500	25040000	24290000	23765000	23240000	22685000
1.2.2	ВС Др.ВиК оператор	м3	1733990	1746500	2136000	2080000	2035100	2005000	1930000
общо:		м3	26787107	25182000	27176000	26370000	25800100	25245000	24615000
2 Такса водоползване									
2.1	ВС Йовковци	лв.	501062	468710	500800	485800	475300	464800	453700
2.2	ВС Др.ВиК оператор	лв.	34680	34930	42720	41600	40702	40100	38600
общо:		лв.	535742	503640	543520	527400	516002	504900	492300

4.4.3.

10%

1% / /.

2007 .

4.5.

5.



- - ;
 - ;
 - , ”
 - “ , . ;
 - , ;
 - , .
 - :
1. .
 2. .
 3. () .
 4. .
 5. .
 6. , . , .

5.1. - .

. 294

,

2015 .	
	451 . .
	218 . .
	6 . .
	147 . .
	25 . .
	3 . .
	9 . .

201792021 .

5.3.

-
-

:
 ()

“ ‘ ”

.

’ ,

.

’ .

;

;

;

;

;

;

” ”.

;

’

” “

”

’

;

;

” “

-

6.2.

„ 60 „ ”, 61
” „ 60 „ ”
61 „ ”
.
.
,
,
,
,
,
-
,
,
,
,
-
,
,
,
,
/
,
:
/
;
-
-
;

_____:

- , , ; ,
- , , ,

6.6.

- ;
- ;
- ;
- ;
- ;
- - , ;
- - , ;
- - , , ;
- .

6.7.

60 „ „ „ **61**
” „ ” **60** „ ”
61 „ ”

6.8.

()

559/21.06.2016 .
01.01.2017 . 4 , 12.



7.

–

: , .38 .39
 (),
 ,
 , / , .60 .64 ;
 () ;
 ;
 ; ()
 „ “; .10, .7 .

IV.

1.

1.1.
2015 .–

2009-

1.1.1.

1.1.2.

1.1.3.

I. - / / / 3

			2009	2010	2011	2012	2013	2014	2015
1			2512468	2485826	2435585	2454019	2413554	2400762	2284601
			1895635	1767927	1760457	1676676	1609533	1504217	1719271
		o :	4408103	4253753	4196042	4130695	4023087	3904979	4003872
2			147106	136417	142346	147289	138638	136487	143451
			30613	31171	32512	29477	24181	26965	30043
		o :	177719	167588	174858	176766	162819	163452	173494
3			30087	28291	33074	31471	27770	24341	27244
			34872	34356	38083	47032	40279	38518	47782

	o :	64959	62647	71157	78503	68049	62859	75026
4		22134	19401	19501	21354	17873	16147	17857
		9122	9451	6744	8512	7513	5767	6069
	o :	31256	28852	26245	29866	25386	21914	23926
5		42257	36964	38958	45693	40333	36622	39775
		4346	4056	2923	3236	2573	3132	2880
	o :	46603	41020	41881	48929	42906	39754	42655
6		4116	2996	3695	4564	4008	2791	3778
		32	20	26	28	21	22	8
	o :	4148	3016	3721	4592	4029	2813	3786
7		12322	10107	11909	15157	13182	10096	13150
		1718	1353	1175	885	1116	826	1022
	o :	14040	11460	13084	16042	14298	10922	14172
8		24267	18831	19967	20700	19729	14776	23231
		695	361	390	302	791	302	450
	o :	24962	19192	20357	21002	20520	15078	23681
9		15847	14613	16020	15388	13835	12668	12952
		3271	2891	3128	2504	2778	2402	2955
	o :	19118	17504	19148	17892	16613	15070	15907
10		6969	6691	6839	6870	6557	5592	6181
		200	396	160	120	238	134	173
	o :	7169	7087	6999	6990	6795	5726	6354
11		14835	12072	13708	15888	12885	11377	14678
		2141	921	1022	1038	822	1131	704
	o :	16976	12993	14730	16926	13707	12508	15382
12		34498	31682	31750	34968	32202	32073	34565
		27684	22982	28279	27918	28397	28659	21416
	o :	62182	54664	60029	62886	60599	60732	55981
13		14320	11987	14665	16146	14886	12012	14436
		9788	6095	4420	6365	4921	2843	3365
	o :	24108	18082	19085	22511	19807	14855	17801
14		14215	11930	12099	15045	14787	10580	12790
		3634	4995	4825	3752	3247	3096	3736
	o :	17849	16925	16924	18797	18034	13676	16526
15		9885	8338	8955	11021	8999	10125	9907
		8293	6765	6413	9042	8105	7329	7207
	o :	18178	15103	15368	20063	17104	17454	17114
16		19726	17513	19061	19007	17085	14255	14746
		2756	4063	6800	2101	1167	2139	2317
	o :	22482	21576	25861	21108	18252	16394	17063
17		24317	20969	21889	24593	21354	19708	21552
		5779	4566	3047	4318	4652	2451	3608
	o :	30096	25535	24936	28911	26006	22159	25160

18			39742	35717	37731	40778	40689	37579	43376
			683	1715	873	1186	1057	935	1053
		o :	40425	37432	38604	41964	41746	38514	44429
19			11491	9120	10232	11209	10394	8677	9546
			388	228	242	591	190	144	257
		o :	11879	9348	10474	11800	10584	8821	9803
20			22790	19325	19968	23717	20750	18854	21031
			18109	15404	15161	16020	17272	16701	20180
		o :	40899	34729	35129	39737	38022	35555	41211
21			62356	58791	60213	62097	59666	58270	57864
			9416	15745	9766	10647	10868	11703	12233
		o :	71772	74536	69979	72744	70534	69973	70097
22			10880	9988	9741	10176	9590	8923	9003
			453	458	636	514	594	1053	2038
		o :	11333	10446	10377	10690	10184	9976	11041
23			95273	84415	85158	91137	81226	73611	78816
			4016	2523	3014	3922	3289	2456	3187
		o :	99289	86938	88172	95059	84515	76067	82003
24			22906	17969	20342	20901	18957	16676	17426
			622	506	480	689	770	730	1066
		o :	23528	18475	20822	21590	19727	17406	18492
25			15698	11978	13633	15668	13187	11707	14012
			19734	24953	21982	24434	20754	19025	17657
		o :	35432	36931	35615	40102	33941	30732	31669
26			10687	8229	7343	8690	8361	7504	8097
			7851	6605	6595	7000	4952	4516	4731
		o :	18538	14834	13938	15690	13313	12020	12828
27			1154841	1118226	1101901	1103890	1060289	1046249	1059766
			387536	357741	362134	352715	333464	315049	317639
		o :	1542377	1475967	1464035	1456605	1393753	1361298	1377405
28			98869	95511	99730	102882	96887	96981	95770
			7833	8058	7860	8539	13642	14517	11492
		o :	106702	103569	107590	111421	110529	111498	107262
29			21005	19448	20541	21434	18875	27094	20951
			996	1383	1565	1681	1478	1835	1990
		o :	22001	20831	22106	23115	20353	28929	22941
30			4777	3739	4163	4157	2965	3232	3209
			3692	2701	3238	1640	1686	1778	2249
		o :	8469	6440	7401	5797	4651	5010	5458
31			11067	8061	9047	10272	8359	7540	9692
			1755	905	818	990	1048	1204	1326
		o :	12822	8966	9865	11262	9407	8744	11018
32			67080	64206	68550	72104	69985	66584	67167

			4970	3890	3422	4723	5007	5554	5580
		о :	72050	68096	71972	76827	74992	72138	72747
33			10102	9903	10786	11727	11364	10689	12012
			516	414	373	487	420	310	653
		о :	10618	10317	11159	12214	11784	10999	12665
34			20947	16329	22989	22444	21932	19703	21463
			706	647	757	663	651	540	556
		о :	21653	16976	23746	23107	22583	20243	22019
35			100881	94166	96219	102291	92312	87189	88813
			10183	11572	13489	14729	15662	19020	20040
		о :	111064	105738	109708	117020	107974	106209	108853
36			20211	20364	21069	23788	20115	19801	20844
			1087	1286	1250	1486	1510	2191	1491
		о :	21298	21650	22319	25274	21625	21992	22335
37			64316	63856	66845	66282	61723	63275	67451
			5974	4336	3801	3697	4040	3401	3235
		о :	70290	68192	70646	69979	65763	66676	70686
38			13890	11972	12776	14520	12347	11054	12045
			225	234	176	545	219	81	130
		о :	14115	12206	12952	15065	12566	11135	12175
39			10189	8687	8236	8009	7523	7000	20731
			437	483	350	504	357	317	2707
		о :	10626	9170	8586	8513	7880	7317	23438
40			194760	188337	189774	191695	183274	170319	184559
			117993	102001	93280	94076	98442	113981	110045
		о :	312753	290338	283054	285771	281716	284300	294604
40.1			538	537	572	754	541	513	
			170	117	89	77	200	146	
		о :	708	654	661	831	741	659	0
40.2			592	533	493	618	587	493	
		о :	592	533	493	618	587	493	0
40.3			2834	2748	2852	3253	2576	2175	
			0		16	135	166	192	
		о :	2834	2748	2868	3388	2742	2367	0
40.4			396	402	498	536	564	505	
		о :	396	402	498	536	564	505	0
40.5			1110	484	319	618	570	610	
		о :	1110	484	319	618	570	610	0
40.6			662	409	510	531	522	321	
		о :	662	409	510	531	522	321	0
40.7			1018	848	1031	1234	1022	955	
		о :	1018	848	1031	1234	1022	955	0
40.8			572	706	567	1036	696	469	

		о :	572	706	567	1036	696	469	0
40.9			3122	2142	2173	2363	2599	2189	
		о :	3122	2142	2173	2363	2599	2189	0
41			2500	2594	3370	3531	3379	1326	2708
			4	10	15	57	95	401	492
		о :	2504	2604	3385	3588	3474	1727	3200
42			6404	6211	5823	5797	5210	5065	5765
			466	723	353	231	257	196	279
		о :	6870	6934	6176	6028	5467	5261	6044
43			1788	1928	1197	1879	1348	1608	2420
			20	8	10	11	17	8	22
		о :	1808	1936	1207	1890	1365	1616	2442
44			1936	1590	1718	2139	2013	1737	2027
			9	6	2	7	18	45	22
		о :	1945	1596	1720	2146	2031	1782	2049
45			4058	3279	3053	3042	2904	2448	3328
			334	211	320	277	1220	1855	1367
		о :	4392	3490	3373	3319	4124	4303	4695
46			1097	1400	1130	1145	787	1290	977
			2	7	4	8	4	1	10
		о :	1099	1407	1134	1153	791	1291	987
47			693	499	514	528	547	453	467
			316	292	162	116	265	79	60
		о :	1009	791	676	644	812	532	527
48			4559	3401	3686	4860	4049	3243	3477
			91	97	95	123	262	307	321
		о :	4650	3498	3781	4983	4311	3550	3798
49			4462	3731	3765	4324	4112	2950	3757
			2114	3163	2817	2262	1916	1589	1646
		о :	6576	6894	6582	6586	6028	4539	5403
50			7600	7110	7617	8155	7131	6233	6915
			207	138	177	158	117	151	204
		о :	7807	7248	7794	8313	7248	6384	7119
51			621	555	501	697	634	623	667
			27	21	24	9	4	7	9
		о :	648	576	525	706	638	630	676
52			25728	24052	23764	24523	21536	20211	20164
			2295	1184	979	1301	913	844	541
		о :	28023	25236	24743	25824	22449	21055	20705
53			5625	5793	5685	5012	5238	4640	5600
			87	94	25	1565	749	52	1202
		о :	5712	5887	5710	6577	5987	4692	6802
54			12531	14295	14797	18072	19367	20625	23708

			410	457	519	591	746	961	873
		o :	12941	14752	15316	18663	20113	21586	24581
55			5252	4602	4878	5627	5288	4574	5131
			9	30	14	58	61	15	73
		o :	5261	4632	4892	5685	5349	4589	5204
56			4558	3346	3419	4604	4022	2765	3150
			240	395	283	350	290	614	575
		o :	4798	3741	3702	4954	4312	3379	3725
57			5077	4518	5041	6395	5787	4929	6053
			81	40	90	58	45	68	37
		o :	5158	4558	5131	6453	5832	4997	6090
58			4784	3327	4798	4351	4123	3089	3741
			214	320	314	103	88	256	413
		o :	4998	3647	5112	4454	4211	3345	4154
59			2681	2705	2388	3148	2497	2152	2277
			102	69	6	46	67	240	410
		o :	2783	2774	2394	3194	2564	2392	2687
60			3988	3805	3543	3367	3147	2663	2592
			14	20	27	46	20	13	10
		o :	4002	3825	3570	3413	3167	2676	2602
61			622	532	530	614	514	479	584
		o :	622	532	530	614	514	479	584
62			1476	1229	1109	1325	1109	956	914
			158	234	121	110	92	174	692
		o :	1634	1463	1230	1435	1201	1130	1606
63			4523	3563	4386	4615	4228	3739	3962
			265	477	510	240	393	302	424
		o :	4788	4040	4896	4855	4621	4041	4386
64			65075	58321	63762	71169	67409	60578	65419
			8970	10804	14428	14345	11905	9807	9745
		o :	74045	69125	78190	85514	79314	70385	75164
65			26060	20942	24003	27277	24375	19899	23259
			1598	1272	1400	1269	1201	1303	1215
		o :	27658	22214	25403	28546	25576	21202	24474
66			1578	1329	1528	1480	1176	934	1770
			7	12	12	14	14	12	5
		o :	1585	1341	1540	1494	1190	946	1775
67			2353	1543	1829	2147	1876	2141	2610
			80	59	119	93	149	20	18
		o :	2433	1602	1948	2240	2025	2161	2628
68			4802	3844	4622	4885	4472	3713	4474
			181	223	334	313	325	49	54
		o :	4983	4067	4956	5198	4797	3762	4528



69			1846	1518	1381	1433	1412	1307	1520
			0	3	1	4			0
		o :	1846	1521	1382	1437	1412	1307	1520
70			2927	2614	2869	3108	2694	2562	3164
			24	18	55	85	30	18	15
		o :	2951	2632	2924	3193	2724	2580	3179
71			18337	13628	16188	16821	14737	12372	14006
			576	449	342	385	324	384	186
		o :	18913	14077	16530	17206	15061	12756	14192
72			4415	4020	3591	4248	4225	3030	3412
			76	200	222	315	262	128	222
		o :	4491	4220	3813	4563	4487	3158	3634
73			8700	5452	6097	7879	6407	4428	5779
			422	464	421	117	1582	1583	1030
		o :	9122	5916	6518	7996	7989	6011	6809
74			2755	2484	2799	3162	2952	2655	3096
			295	471	712	626	420	269	378
		o :	3050	2955	3511	3788	3372	2924	3474
75			1509	958	1113	1429	1295	954	1144
			447	50	90	142	247	160	243
		o :	1956	1008	1203	1571	1542	1114	1387
76			90834	80666	88141	90579	83317	76190	80824
			16837	13025	11308	13421	13991	11409	9830
		o :	107671	93691	99449	104000	97308	87599	90654
77			9153	7316	7429	8282	7097	7426	7350
			1063	1148	2566	3696	5948	3493	4147
		o :	10216	8464	9995	11978	13045	10919	11497
78			1757	1971	1871	1565	1910	1426	1558
			218	214	163	192	96	67	176
		o :	1975	2185	2034	1757	2006	1493	1734
79			9109	9141	9833	11068	13397	9182	10386
			9881	9982	17915	16323	19085	17121	18573
		o :	18990	19123	27748	27391	32482	26303	28959
80			2624	2681	2166	2935	3369	2202	3686
			2851	4009	3495	4572	1479	1221	1235
		o :	5475	6690	5661	7507	4848	3423	4921
81			1458	852	937	893	654	655	975
			8	7		8			
		o :	1466	859	937	901	654	655	975
82			13620	11745	13445	14070	12250	9881	12347
			11297	11124	11586	11026	11511	10533	6677
		o :	24917	22869	25031	25096	23761	20414	19024
83			454	550	479	509	842	532	525

			143	222	117	116	173	29	82
		o :	597	772	596	625	1015	561	607
84			4349	2352	3363	4527	2932	2305	2725
			53	15	14	39	71	27	62
		o :	4402	2367	3377	4566	3003	2332	2787
85			295228	286667	286445	293236	277070	266004	282835
			168427	210822	168234	159693	136640	161674	199770
		o :	463655	497489	454679	452929	413710	427678	482605
86			68055	59398	60306	62861	60330	56372	58944
			9566	8640	8683	9489	8137	7635	9525
		o :	77621	68038	68989	72350	68467	64007	68469
87			35062	29928	31887	32453	30669	26534	28087
			3009	3923	4547	4538	3117	2589	2734
		o :	38071	33851	36434	36991	33786	29123	30821
88			26103	24711	35695	35913	30577	29024	33557
			8641	7608	9421	10872	12012	9333	10380
		o :	34744	32319	45116	46785	42589	38357	43937
89			30741	26030	28337	29587	28215	26916	28525
			3321	3732	3329	3938	3554	3157	4547
		o :	34062	29762	31666	33525	31769	30073	33072
90			27114	24923	26277	27868	24651	23500	25687
			1186	1365	758	956	917	757	1348
		o :	28300	26288	27035	28824	25568	24257	27035
91			396505	386707	376938	383683	366231	355547	358090
			95785	94860	86925	98036	89094	84537	101491
		o :	492290	481567	463863	481719	455325	440084	459581
92			54060	47757	50584	53271	53561	50250	50497
			3834	4152	4544	4676	3332	2464	2475
		o :	57894	51909	55128	57947	56893	52714	52972
93			20706	19398	20282	19787	18621	17603	20605
			435	594	770	1111	878	865	1541
		o :	21141	19992	21052	20898	19499	18468	22146
94			25403	23828	24301	26020	23454	21241	22805
			1143	996	958	976	941	1258	763
		o :	26546	24824	25259	26996	24395	22499	23568
95			19234	15106	17117	22309	18524	15598	16580
			485	174	182	215	158	219	1161
		o :	19719	15280	17299	22524	18682	15817	17741
96			30442	28992	29111	31501	29740	28680	29104
			1385	1396	1816	1561	1400	1277	1284
		o :	31827	30388	30927	33062	31140	29957	30388
97			28893	26323	25185	27546	24877	20674	21904
			1233	1329	1099	2777	1037	1563	1781

		o :	30126	27652	26284	30323	25914	22237	23685
98			14410	12560	13530	13727	12029	10404	11614
			222	1169	236	268	340	304	332
		o :	14632	13729	13766	13995	12369	10708	11946
99			17449	16028	14742	16712	16081	16029	13328
			1969	1536	2629	4698	3530	3088	3334
		o :	19418	17564	17371	21410	19611	19117	16662
100			39552	37889	40846	37767	35216	31404	35572
			7422	8197	8942	7386	6170	6210	5412
		o :	46974	46086	49788	45153	41386	37614	40984
101			21721	19464	19802	19784	19368	19411	19506
			3129	3153	2689	4308	2973	2958	3287
		o :	24850	22617	22491	24092	22341	22369	22793
102			26118	24039	24566	24907	23462	21158	22773
			4210	5256	5236	3922	2769	3312	1504
		o :	30328	29295	29802	28829	26231	24470	24277
103			11622	8808	8628	9649	8521	7936	8401
			535	1229	738	538	674	505	1081
		o :	12157	10037	9366	10187	9195	8441	9482
104			40312	37413	36799	34868	33990	32613	34865
			1524	1527	1484	1539	1405	1302	5637
		o :	41836	38940	38283	36407	35395	33915	40502
105			15358	10713	11604	12323	10606	9539	10552
			2682	638	1116	1366	931	983	1377
		o :	18040	11351	12720	13689	11537	10522	11929
106			22003	20546	19962	21028	17535	16806	18592
			197	134	140	416	273	398	408
		o :	22200	20680	20102	21444	17808	17204	19000
107			5664	5176	5373	6245	5046	4292	4818
			90	29	48	124	182	150	181
		o :	5754	5205	5421	6369	5228	4442	4999
108			16424	15616	14703	17241	16107	12594	13212
			427	480	403	502	426	365	415
		o :	16851	16096	15106	17743	16533	12959	13627
109			22542	21655	20213	21099	19509	18247	18849
			951	884	806	1136	1232	1306	1072
		o :	23493	22539	21019	22235	20741	19553	19921
110			164045	158180	157311	156716	153801	146984	158200
			34237	33594	30610	31256	36323	29780	27258
		o :	198282	191774	187921	187972	190124	176764	185458
111			7340	6870	6639	6588	5782	3961	4832
			1474	4415	5505	4659	3126	484	380
		o :	8814	11285	12144	11247	8908	4445	5212

112	.		11998	10170	9875	11525	10153	8333	9021
			1093	786	880	737	1042	1259	391
		o :	13091	10956	10755	12262	11195	9592	9412
113			28396	25587	25325	25383	24034	19530	21102
			763	1076	1422	872	660	662	573
		o :	29159	26663	26747	26255	24694	20192	21675
114			17576	16692	17616	17548	14873	13710	14084
			1064	736	720	839	854	826	1503
		o :	18640	17428	18336	18387	15727	14536	15587
115			15396	13572	15186	14907	13025	11236	13616
			328	381	263	159	108	95	143
		o :	15724	13953	15449	15066	13133	11331	13759
116			24074	22869	24847	27532	25718	23871	24585
			6580	10997	9326	9541	7640	7280	7223
		o :	30654	33866	34173	37073	33358	31151	31808
117			28121	26175	25795	27325	21958	19999	23351
			2265	2246	2682	2706	3149	2102	3385
		o :	30386	28421	28477	30031	25107	22101	26736
118			25205	23792	23523	23843	20289	18950	22426
			1568	1196	1305	1657	1000	1234	1444
		o :	26773	24988	24828	25500	21289	20184	23870
119			13302	11816	12905	13039	12782	10069	12008
			728	434	295	211	193	246	340
		o :	14030	12250	13200	13250	12975	10315	12348
120			27447	25418	25624	26156	24112	19775	22668
			1604	1474	1674	2047	2114	2495	808
		o :	29051	26892	27298	28203	26226	22270	23476
121			33484	31050	31133	32023	30966	27810	29493
			3769	2820	1828	2108	3938	3437	3667
		o :	37253	33870	32961	34131	34904	31247	33160
122			47479	44713	47931	48450	46436	44623	47848
			2298	2465	2655	2474	1848	1507	1681
		o :	49777	47178	50586	50924	48284	46130	49529
123			50447	48112	50149	53520	50303	48701	51493
			4178	3699	4541	3732	1449	962	1165
		o :	54625	51811	54690	57252	51752	49663	52658
124			32163	31519	33147	35247	31384	27895	31937
			3629	2566	3220	2489	2736	3144	2150
		o :	35792	34085	36367	37736	34120	31039	34087
125			0		0	185	344	269	267
		o :	0	0	0	185	344	269	267
126			160002	155742	159032	161742	151407	152412	152104

			55798	64604	64221	69194	67535	70390	72581
		o :	215800	220346	223253	230936	218942	222802	224685
127			16234	14557	15630	17415	16269	15320	17465
			2504	1953	1114	733	648	1351	958
		o :	18738	16510	16744	18148	16917	16671	18423
128			7129	5302	6581	6825	6036	4719	6245
			1492	1541	2077	2383	2666	2551	2376
		o :	8621	6843	8658	9208	8702	7270	8621
129			11677	10274	11013	11499	9751	8942	9264
			868	734	1277	1901	1920	2024	2140
		o :	12545	11008	12290	13400	11671	10966	11404
130			15623	14083	15348	17946	14890	13530	15182
			845	979	1652	3394	953	977	1061
		o :	16468	15062	17000	21340	15843	14507	16243
131			14804	13631	13907	14134	12874	11658	12449
			502	788	990	976	886	852	804
		o :	15306	14419	14897	15110	13760	12510	13253
132			6905	5639	6493	6291	5323	5217	5560
			339	137	98	180	167	111	146
		o :	7244	5776	6591	6471	5490	5328	5706
133			152	44	0	69	18	75	50
			38	223	88	105	48	130	9
		o :	190	267	88	174	66	205	59
134			6636	5569	5235	6152	5768	5718	6370
			4644	2820	3366	3875	2903	2491	1281
		o :	11280	8389	8601	10027	8671	8209	7651
135			2407	1930	1981	2236	1781	1291	1610
			3	2	46	108	194	99	200
		o :	2410	1932	2027	2344	1975	1390	1810
136			30254	28461	29265	31675	28946	27742	31661
			9624	5627	4818	3992	4193	4284	4643
		o :	39878	34088	34083	35667	33139	32026	36304
137			37931	32310	35138	36952	32127	30010	34397
			1558	1184	1389	2175	2587	3430	2336
		o :	39489	33494	36527	39127	34714	33440	36733
138			13751	12506	12234	14304	13338	11276	12243
			786	675	1191	391	585	1124	1968
		o :	14537	13181	13425	14695	13923	12400	14211
139			6560	5038	5425	6055	5644	4866	6120
			49	72	50	29	23	24	18
		o :	6609	5110	5475	6084	5667	4890	6138
140			3449	3404	3629	3312	3284	2504	2282
			90	47	7	293	281	536	1709

		o :	3539	3451	3636	3605	3565	3040	3991
141			11699	9193	10252	10616	9220	7053	8634
			699	727	819	697	277	524	384
		o :	12398	9920	11071	11313	9497	7577	9018
142			4749	3292	4032	5139	3483	2513	3195
			50	37	163	95	653	1449	1501
		o :	4799	3329	4195	5234	4136	3962	4696
143			4440	3590	3651	4255	4005	3402	4018
			303	309	471	335	355	362	246
		o :	4743	3899	4122	4590	4360	3764	4264
144			23426	19376	20418	22706	20044	17739	19315
			11828	3471	5483	5766	1980	1618	1514
		o :	35254	22847	25901	28472	22024	19357	20829
145			20107	17534	18608	19704	18742	19119	18142
			433	382	604	984	651	658	682
		o :	20540	17916	19212	20688	19393	19777	18824
146			66454	61850	67200	70645	63513	56409	63455
			9320	6351	5836	6296	6041	6187	6338
		o :	75774	68201	73036	76941	69554	62596	69793
147			6955	6769	6921	7670	6714	5514	6413
			302	465	1785	2403	4158	2579	527
		o :	7257	7234	8706	10073	10872	8093	6940
148			6496	5424	5950	6682	5506	4809	4802
			988	1697	1741	1611	576	323	518
		o :	7484	7121	7691	8293	6082	5132	5320
149			7222	6497	6488	6869	6580	6417	6398
			5077	5705	4650	5348	5587	6037	5330
		o :	12299	12202	11138	12217	12167	12454	11728
150			9400	8601	9255	8652	7528	6525	7882
			145	97	168	206	358	305	788
		o :	9545	8698	9423	8858	7886	6830	8670
151			3241	3529	3547	3475	3168	3348	2859
			832	977	765	1066	287	80	50
		o :	4073	4506	4312	4541	3455	3428	2909
152			2268	2859	2356	3175	2421	2686	2652
									67
		o :	2268	2859	2356	3175	2421	2686	2719
153			509	1322	577	560	635	676	931
		o :	509	1322	577	560	635	676	931
154			26630	25107	25837	25854	24414	21980	23383
			592	670	540	757	663	268	309
		o :	27222	25777	26377	26611	25077	22248	23692
155			112	95	177	191	151	304	263

	о :	112	95	177	191	151	304	263
156		491	592	602	518	468	274	433
	о :	491	592	602	518	468	274	433
157		426	534	385	387	201	496	480
	о :	426	534	385	387	201	496	480
158		324	263	322	347	348	355	383
	о :	324	263	322	347	348	355	383
159		426	345	295	198	376	379	316
	о :	426	345	295	198	376	379	316
160		417	393	242	297	309	284	326
		0	44	67		99	53	7
	о :	417	437	309	297	408	337	333
161		672	517	768	918	815	505	766
	о :	672	517	768	918	815	505	766
162		656	491	553	369	433	275	291
	о :	656	491	553	369	433	275	291
163		3500	3328	3481	4522	3966	3414	3713
		10	6	6	3	4	44	10
	о :	3510	3334	3487	4525	3970	3458	3723
164		126	146	126	131	222	216	89
		0		0		275	382	218
	о :	126	146	126	131	497	598	307
165		716	640	746	548	986	532	816
	о :	716	640	746	548	986	532	816
166		937	1032	865	1016	1031	1003	1194
	о :	937	1032	865	1016	1031	1003	1194
167		653	666	1036	1387	839	859	960
		6	4	9	3	2	1	0
	о :	659	670	1045	1390	841	860	960
168		401	309	347	307	352	242	279
	о :	401	309	347	307	352	242	279
169		137	129	105	270	90	65	221
	о :	137	129	105	270	90	65	221
170		6477	6082	6155	5818	4459	4163	4678
	о :	6477	6082	6155	5818	4459	4163	4678
171		1910	1215	1995	1937	1568	1170	1820
		86	56	30	76	43	50	62
	о :	1996	1271	2025	2013	1611	1220	1882
172		2233	1606	2143	1773	1355	1661	1383
		220	134	75	130	133	97	138
	о :	2453	1740	2218	1903	1488	1758	1521
173		833	172	798	865	758	275	253
		275	142	173	183	455	985	809

	o :	1108	314	971	1048	1213	1260	1062
174		1257	1004	895	957	796	424	557
		27						
	o :	1284	1004	895	957	796	424	557
175		288	216	293	296	250	233	207
	o :	288	216	293	296	250	233	207
176		1940	1463	1626	1596	1382	1117	1269
	o :	1940	1463	1626	1596	1382	1117	1269
177		221	162	230	249	280	257	309
	o :	221	162	230	249	280	257	309
178		2255	1985	2168	2734	3478	1821	2600
		351	606	673	539	305	394	700
	o :	2606	2591	2841	3273	3783	2215	3300
179		728	729	809	955	818	749	853
	o :	728	729	809	955	818	749	853
180		18695	18105	20160	21149	20301	18421	19903
		9564	5274	3220	3203	3284	3760	3593
	o :	28259	23379	23380	24352	23585	22181	23496
181		299	156	77	185	112	107	97
	o :	299	156	77	185	112	107	97
182		987	643	733	842	615	521	533
		0		20	4	0	1	4
	o :	987	643	753	846	615	522	537
183		535	616	430	479	237	386	213
		85	52	121	72	126	197	421
	o :	620	668	551	551	363	583	634
184								
		40	34	38	46	6	393	487
	o :	40	34	38	46	6	393	487
	:	7844205	7453043	7524985	7732422	7346267	7057393	7205470
		3216175	3069375	3016438	2959904	2814733	2703966	2989933
	o :	11060380	10522418	10541423	10692326	10161000	9761359	10195470

2011-2015 .						51351	5	10270
-------------	--	--	--	--	--	-------	---	-------

II.

1	.		1522918	1364572	1283215	1069074	830511	761836	757174
---	---	--	---------	---------	---------	---------	--------	--------	--------

2011-2015 .	.	3					4701	5	940
-------------	---	---	--	--	--	--	------	---	-----

2009 . 2015 .

 1.2.
2015 .--

2009-

1.2.1.

1.2.2.

1.2.3.

I. - / / / 3									
			2009	2010	2011	2012	2013	2014	2015
1			2487222	2462985	2411206	2418373	2377256	2654144	2679460
			1674085	1549420	1514513	1429375	1373730	1068443	1089675
		o :	4161307	4012405	3925719	3847748	3750986	3722587	3769135
2			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
3			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
4			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
5			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
6			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
7			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
8			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0

9			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
10			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
11			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
12			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
13			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
14			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
15			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
16			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
17			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
18			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
19			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
20			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
21			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
22			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
23			0	0	0	0	0		

			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
24			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
25			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
26			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
27			1122083	1087715	1070958	1067044	1029325	1056540	1060867
			348253	311095	295211	283819	300434	212672	225860
	o :		1470336	1398810	1366169	1350863	1329759	1269212	1286727
28			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
29			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
30			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
31			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
32			0	70	0	0	0		
			0	0	0	0	0		
	o :		0	70	0	0	0	0	0
33			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
34			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
35			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
36			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
37			9	1	0	0	0		



			0	0	0	0	0		
		о :	9	1	0	0	0	0	0
38			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
39			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
40			166787	162092	163022	165505	158585	148147	176593
			27008	23077	22952	24898	26947	25047	0
		о :	193795	185169	185974	190403	185532	173194	176593
40.1			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
40.2			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
40.3			0	0	0	0	0		
					0	0	0		
		о :	0	0	0	0	0	0	0
40.4			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
40.5			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
40.6			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
40.7			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
40.8			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
40.9			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
41			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
42			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
43			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
44			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0

45			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
46			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
47			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
48			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
49			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
50			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
51			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
52			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
53			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
54			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
55			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
56			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
57			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
58			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
59			0	0	0	0	0		

			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
60			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
61			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
62			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
63			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
64			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
65			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
66			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
67			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
68			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
69			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
70			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
71			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
72			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
73			0	0	0	0	0		
			0	0	0	0	0		

	o :	0	0	0	0	0	0	0
74		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
75		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
76		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
77		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
78		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
79		0	0	0	0	0	0	0
		1624	1665	1681	1564	1182	1245	821
	o :	1624	1665	1681	1564	1182	1245	821
80		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
81		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
82		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
83		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
84		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
85		290240	281801	280089	285277	270713	270952	293647
		71915	70877	60327	67593	61457	58357	64701
	o :	362155	352678	340416	352870	332170	329309	358348
86		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0
87		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	o :	0	0	0	0	0	0	0



88			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
89			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
90			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
91			389821	381162	371330	377981	361182	350805	502279
			128760	138988	126828	140013	136117	128013	0
		o :	518581	520150	498158	517994	497299	478818	502279
92			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
93			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
94			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
95			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
96			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
97			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
98			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
99			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
100			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
101			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
102			0	0	0	0	0		

			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
103			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
104			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
105			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
106			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
107			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
108			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
109			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
110			104459	104515	105526	103215	102158	99271	126204
			39972	35772	33187	34685	37001	27524	
	o :		144431	140287	138713	137900	139159	126795	126204
111			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
112			0	1	0	0	0		
			0	0	0	0	0		
	o :		0	1	0	0	0	0	0
113			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
114			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
115			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
116			0	0	0	0	0		

			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
117			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
118			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
119			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
120			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
121			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
122			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
123			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
124			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
125					0	0	0		
	o :		0	0	0	0	0	0	0
126			156734	152998	155960	160293	150401	150644	525514
			222722	235743	309139	312379	341691	368520	0
	o :		379456	388741	465099	472672	492092	519164	525514
127			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
128			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
129			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
130			0	0	0	0	0		
			0	0	0	0	0		

	о :	0	0	0	0	0	0	0
131		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
132		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
133		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
134		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
135		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
136		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
137		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
138		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
139		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
140		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
141		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
142		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
143		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0
144		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0

145			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
146			32151	29530	30562	33427	30077	27016	32938
			5099	4613	3786	3565	2851	2900	0
		o :	37250	34143	34348	36992	32928	29916	32938
147			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
148			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
149			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
150			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
151			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
152			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
153			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
154			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
155			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
156			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
157			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
158			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
159			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
160			0	0	0	0	0		
				0	0		0		
		o :	0	0	0	0	0	0	0

161			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
162			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
163			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
164			0	0	0	0	0		
							0		
	o :		0	0	0	0	0	0	0
165			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
166			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
167			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
168			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
169			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
170			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
171			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
172			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
173			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
174			0	0	0	0	0		
			0						
	o :		0	0	0	0	0	0	0
175			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
176			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
177			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
178			0	0	0	0	0		
			0	0	0	0	0		

	о :	0	0	0	0	0	0	0	0
179		0	0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0	0
180		0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0	0
181		0	0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0	0
182		0	0	0	0	0	0	0	0
				0	0	0			
	о :	0	0	0	0	0	0	0	0
183		0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0	0
184									
		0	0	0	0	0	0	0	0
	о :	0	0	0	0	0	0	0	0
	:	4749506	4662870	4588653	4611115	4479697	4757519	5397502	
		2519438	2371250	2367624	2297891	2281410	1892721	1381057	
	о :	7268944	7034120	6956277	6909006	6761107	6650240	6778559	

2011-2015 .	. 3				34055	5	6811
-------------	-----	--	--	--	-------	---	------

1.3. 2015 .--

2009-

1.3.1.

1.3.2.

1.3.3.

I. - /			/ 3						
			2009	2010	2011	2012	2013	2014	2015
1			2354338	2331138	2280953	2288289	2246765	2469549	2494234
			1532749	1480539	1468795	1375410	1321646	1068443	1089675
	о :		3887087	3811677	3749748	3663699	3568411	3537992	3583909
2			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0



3			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
4			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
5			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
6			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
7			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
8			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
9			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
10			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
11			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
12			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
13			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
14			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
15			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
16			0	0	0	0	0		
			0	0	0	0	0		
		о :	0	0	0	0	0	0	0
17			0	0	0	0	0		

			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
18			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
19			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
20			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
21			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
22			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
23			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
24			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
25			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
26			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
27			1109163	1074981	1062242	1065385	1027740	1053545	1058736
			348077	310917	295144	283819	300434	212672	225860
	o :		1457240	1385898	1357386	1349204	1328174	1266217	1284596
28			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
29			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
30	..		0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
31	..		0	0	0	0	0		

			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
32			0	70	0	0	0		
			0	0	0	0	0		
	o :		0	70	0	0	0	0	0
33			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
34			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
35			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
36			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
37			9	1	0	0	0		
			0	0	0	0	0		
	o :		9	1	0	0	0	0	0
38			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
39			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
40			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
40.1			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
40.2			0	0	0	0	0		
			0	0	0	0	0	0	0
40.3			0	0	0	0	0		
					0	0	0		
	o :		0	0	0	0	0	0	0
40.4			0	0	0	0	0		
			0	0	0	0	0	0	0
	o :		0	0	0	0	0	0	0
40.5			0	0	0	0	0		
			0	0	0	0	0	0	0
	o :		0	0	0	0	0	0	0
40.6			0	0	0	0	0		
			0	0	0	0	0	0	0
	o :		0	0	0	0	0	0	0

40.7			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
40.8			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
40.9			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
41			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
42			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
43			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
44			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
45			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
46			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
47			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
48			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
49			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
50			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
51			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
52			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
53			0	0	0	0	0		



			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
54			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
55			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
56			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
57			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
58			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
59			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
60			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
61			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
62			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
63			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
64			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
65			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
66			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
67			0	0	0	0	0		
			0	0	0	0	0		

	о :	0	0	0	0	0	0	0
68		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
69		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
70		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
71		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
72		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
73		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
74		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
75		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
76		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
77		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
78		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
79		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
80		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
81		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0

82			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
83			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
84			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
85			290411	281955	280242	285451	270899	269593	293800
			71915	70877	60127	67093	61057	58357	64701
		o :	362326	352832	340369	352544	331956	327950	358501
86			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
87			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
88			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
89			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
90			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
91			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
92			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
93			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
94			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
95			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
96			0	0	0	0	0		



			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
97			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
98			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
99			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
100			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
101			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
102			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
103			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
104			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
105			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
106			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
107			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
108			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
109			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
110			0	0	0	0	0		
			0	0	0	0	0		

		о :	0	0	0	0	0	0	0
111			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
112			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
113			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
114			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
115			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
116			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
117			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
118			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
119			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
120			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
121			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
122			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
123			0	0	0	0	0	0	
			0	0	0	0	0	0	
		о :	0	0	0	0	0	0	0
124			0	0	0	0	0	0	
			0	0	0	0	0	0	

	о :	0	0	0	0	0	0	0
125				0	0	0		
	о :	0	0	0	0	0	0	0
126		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
127		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
128		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
129		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
130		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
131		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
132		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
133		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
134		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
135		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
136		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
137		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
138		0	0	0	0	0		
		0	0	0	0	0		
	о :	0	0	0	0	0	0	0
139		0	0	0	0	0		

			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
140			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
141			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
142			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
143			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
144			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
145			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
146			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
147			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
148			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
149			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
150			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
151			0	0	0	0	0		
			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
152			0	0	0	0	0		
	o :		0	0	0	0	0	0	0
153			0	0	0	0	0		
	o :		0	0	0	0	0	0	0

154			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
155			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
156			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
157			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
158			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
159			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
160			0	0	0	0	0		
				0	0		0		
		o :	0	0	0	0	0	0	0
161			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
162			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
163			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
164			0	0	0	0	0		
							0		
		o :	0	0	0	0	0	0	0
165			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
166			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
167			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
168			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
169			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
170			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
171			0	0	0	0	0		
			0	0	0	0	0		
		o :	0	0	0	0	0	0	0
172			0	0	0	0	0		

			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
173			0	0	0	0	0		
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
174			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
175			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
176			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
177			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
178			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
179			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
180			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
181			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
182			0	0	0	0	0		
					0	0	0		
	о :		0	0	0	0	0	0	0
183			0	0	0	0	0		
			0						
	о :		0	0	0	0	0	0	0
184									
			0	0	0	0	0		
	о :		0	0	0	0	0	0	0
	:		3753921	3688145	3623437	3639125	3545404	3792687	3846770
			1952741	1862333	1824066	1726322	1683137	1339472	1380236
	о :		5706662	5550478	5447503	5365447	5228541	5132159	5227006

2011-2015 .							26400.66	5	5280.131
-------------	--	--	--	--	--	--	----------	---	----------

1.4.

2017-2021 .

1.4.1.

2	Фактурир ани водни к- ва		2015	2016		Среден размер 2011- 2015г.	намале ние от бр.обслу жвано населен ие	увели чение от търгов ски загуби	увели чение от нови потреб ители		2018г.	намале ние от бр.обсл ужвано наसेле ние	увели чение от търго вски загуб и		2019г.	намале ние от бр.обсл ужвано наसेле ние	увели чение от търго вски загуб и	2020	намале ние от бр.обсл ужвано наसेле ние	увели чение от търго вски загуб и	2021
2.1	Вик Йовковци	м3	10195670	9964100		10270435					10062053				9980550			9899708	-90087	9900	9819520
2.1.1	битови потребит ели	м3	7205670	7079100		7373627	-167750	7374	15000		7228251	-65777	7228		7169702	-65244	7170	7111627	-64716	7112	7054023
2.1.2	обществе ни и търговск и	м3	1474000	578000		1428126	-32490	1428			1397064	-12713	1397		1385748	-12610	1386	1374523	-12508	1375	1363390
2.1.3	стопанск и потребит ели	м3	1516000	2307000		1468682	-33413	1469			1436738	-13074	1437		1425101	-12968	1425	1413557	-12863	1414	1402107
2.2	Др.Вик оператор	м3	757174	762500		940360	-21393	940			919907	-8371	920		912456	-8303	912	905065	-8236	905	897734

2017 .

2011-2015 .

2018-2021 .



/ - I-
- 0,91% /;



1.4.2.

Фактурирани отведени количества	2015г.	2016г.	увеличение от нови потребители	2017г.	намаление от бр.обслужвано население	увеличение от търговски загуби	увеличение от нови потребители	2018г.	намаление от бр.обслужвано население	увеличение от търговски загуби	увеличение от нови потребители	2019г.	намаление от бр.обслужвано население	увеличение от търговски загуби	2020г.	намаление от бр.обслужвано население	увеличение от търговски загуби	2021г.	
1.1 население	м3	4410326	5146391	4431457	-100816	4431		4335073	-39449	4335		4299959	-39130	4300	4265129	-38813	4265	4230582	
1.2 Долна Оряховица	м3			95770	-2179	96		93687	-853	94		92928	-846	93	92175	-839	92	91429	
1.3 С.Първомайци	м3			67444	-1534	67		65977	-600	66		65443	-596	65	64913	-591	65	64387	
1.4 гр.Килифарово							4050	4050	-37	4		4017	-37	4	3985	-36	4	3952	
1.5 гр.Златарица							11000	11000	-100	11		10911	-99	11	10823	-98	11	10735	
1.6 Сушица	м3									19315		19315	-176	19	19159	-174	19	19003	
1.7 Камен	м3									31664		31664	-288	32	31408	-286	31	31153	
1.8 Кесарево	м3									34394		34394	-313	34	34115	-310	34	33839	
общо:	м3	4410326	5146391	163214	4431457	-104529	4595	15050	4509787	-41039	4510	85373	4558631	-41484	4559	4521706	-41148	4522	4485080
1.2 промишленост	м3	1932556	1504309		1941816	-44176	1942		1899582	-17286	1900		1884195	-17146	1884	1868933	-17007	1869	1853795
2.2 Долна Оряховица	м3			11493	-261	11		11243	-102	11		11152	-101	11	11062	-101	11	10972	
2.3 С.Първомайци	м3			3235	-74	3		3165	-29	3		3139	-29	3	3114	-28	3	3088	
2.4 Сушица	м3									1514		1514	-14	2	1502	-14	2	1490	
2.5 Камен	м3									4643		4643	-42	5	4605	-42	5	4568	
2.6 Кесарево	м3									2336		2336	-21	2	2317	-21	2	2298	
общо:	м3	1932556	1504309	14728	1941816	-44511	1957	1913989	-17417	1914	8493	1906979	-17354	1907	1891532	-17213	1892	1876211	
1.3 бюджет	м3	435677			437764	-44846	1971		394889	-3593	395		391690	-3564	392	388518	-3536	389	385371

2017 .

2011-2015 .

2018-2021 .



/

- I-

- 0,91% /;



;

1.4.3.

Фактурирани пречистени количества	2015г.	2016г.	2017г.	намаление от бр.обслужвано население	увеличение от търговски загуби	увеличение от нови потребители	2018г.	намаление от бр.обслужвано население	увеличение от търговски загуби	увеличение от нови потребители	2019г.	намаление от бр.обслужвано население	увеличение от търговски загуби	2020г.	намаление от бр.обслужвано население	увеличение от търговски загуби	2021г.	
1.1 население	3541414	3812473	3577278	-81383	3577		3499472	-31845	3499		3471126	-31587	3471	3443010	-31331	3443	3415122	
1.2 население-ПСОВ Павлиkenи			538400	-12249	538.4		526690	-4793	526.7		522424	-4754	522	518192	-4716	518.2	513995	
1.3 Долна Оряховица			95770	-2179	95.77		93687	-852.6	93.69		92928	-845.6	92.9	92175	-838.8	92.18	91429	
1.4 С.Първомайци			67444	-1534	67.44		65977	-600.4	65.98		65443	-595.5	65.4	64913	-590.7	64.91	64387	
1.5 Сушица							0	0	0	19315	19315	-175.8	19.3	19159	-174.3	19.16	19003	
1.6 Камен							0	0	0	31664	31664	-288.1	31.7	31408	-285.8	31.41	31153	
1.7 Кесарево							0	0	0	34394	34394	-313	34.4	34115	-310.5	34.12	33839	
1.8 Приравнени към битови	305356	328819	308145	-7010	308.1		301443	-2743	301.4		299001	-2721	299	296579	-2699	296.6	294177	
1.9 Долна Оряховица			11493	-261	11.49		11243	-102.3	11.24		11152	-101.5	11.2	11062	-100.7	11.06	10972	
1.10 С.Първомайци			3235	-74	3.235		3165	-28.8	3.165		3139	-28.56	3.14	3114	-28.33	3.114	3088	
1.11 Сушица							0	0	0	1514	1514	-13.78	1.51	1502	-13.67	1.502	1490	
1.12 Камен							0	0	0	4643	4643	-42.25	4.64	4605	-41.91	4.605	4568	
1.13 Кесарево							0	0	0	2336	2336	-21.26	2.34	2317	-21.09	2.317	2298	
общо:	м3	3846770	4141292	716342	3885423	-104690	4602	0	4501677	-40965	4502	4559079	-41488	4559	4522150	-41152	4522	4485521
1.2 промишленост																		
1.2.1 ЕПК до 200	м3	955692	1110100	965596	-21967	966	944594	-8596	944.6		936943	-8526	937	929354	-8457	929.4	921826	
1.2.2 К от 201-60	м3	116755	169179	117965	-2684	118	115399	-1050	115.4		114465	-1042	114	113537	-1033	113.5	112618	
1.2.3 ЕПК над 60	м3	307789	225030	310979	-7075	311	304215	-2768	304.2		301751	-2746	302	299307	-2724	299.3	296882	
общо:	м3	1380236	1504309	1394540	-31726	1395	1364208.8				1353159			1342198			1331326.3	
Всичко:		5227006	5645601	716342	5279963	-136416	5996	0	5865885		5912238			5864349			5816847	

2017 .

2011-2015 .

2018-2021 .



/

- I-

- 0,91% /;



2.

2.1.

(

2.2.

()

” “ ,

➤ — ;

➤ — ;

➤ ;

➤ ;

➤ ;

”

».

2.3.

➤ : .2.2

” “ ” , “,

- , - I-PAK , , . , , , .
- , :
- , ;
- , -

2.4.

- , ;
- ;
- ;
- ;
- ;
- ;
- ;
- ;
- ;
- ;

4/2004 .

2.5.

- “ ” , .



(4)
).
 ,
 ;
 ✓
 7 ;
 ✓
 ,
 ✓
 ✓ / ;
 ✓ ;
 ,
 " " , .
 (. .)
 • .
 .
 — , " "
 , . ,
 .
 ✓ " , .
 ✓ :
 ✓ ;
 : ,

✓

✓

✓

✓

2.6.

2.7.

$$= ((1.2 \cdot A - (B - C)) / (1.2 \cdot A + C),$$

— ;
 — ;
 -

II, .5.13

3.

✓ :
 8 18.01.2016 ., ., , . 6 22.01.2016 .,
 22.01.2016 .
 ✓ ” .3 “, 76 19.04.2016 . (2017-2021 .);
 ✓ ,

2017-2021 .;

1.

2017 – 2021 :

1 - 1,160;
 2 - 2,00;
 3 - 2,50.

16.

52/17.12.2009 .

01.01.2010 .

/2018-2021 ./,

✓

01.01.2017 .

1		/ . .	1.360
2		/ . .	0.250
3		/ . .	
3.1		/ . .	0.320
3.2	1	/ . .	0.512
3.3	2	/ . .	0.639
3.4	3	/ . .	0.799

01.01.2018 .

1		/ . .	1.460
2		/ . .	0.371
3		/ . .	
3.1		/ . .	0.350
3.2	1	/ . .	0.559
3.3	2	/ . .	0.699
3.4	3	/ . .	0.874

01.01.2019 .

1		/ . .	1.490
2		/ . .	0.390

3		/ . .	
3.1		/ . .	0.370
3.2	1	/ . .	0.593
3.3	2	/ . .	0.741
3.4	3	/ . .	0.926

01.01.2020 .

1		/ . .	1.531
2		/ . .	0.420
3		/ . .	
3.1		/ . .	0.390
3.2	1	/ . .	0.624
3.3	2	/ . .	0.780
3.4	3	/ . .	0.975

01.01.2021 .

1		/ . .	1.550
2		/ . .	0.501
3		/ . .	
3.1		/ . .	0.430
3.2	1	/ . .	0.688
3.3	2	/ . .	0.860
3.4	3	/ . .	1.075

✓

01.01.2017 .

1		/ . .	0.158



01.01.2018 .

1		/ . .	0.157

01.01.2019 .

1		/ . .	0.158

01.01.2020 .

1		/ . .	0.159

01.01.2021 .

1		/ . .	0.158

2,5%

/ 2017 /.

2015 . :

2,8 . .



		/ .	/ .
2015	2.5	840	336

01.01.2010 .

-52/17.12.2009 .

:

		2015 .	2016 .	2017 .	2018 .	2019 .	2020 .	2021 .
	/ . ()	1.28	1.28	1.36	1.46	1.49	1.53	1.55
	/ . ()	0.11	0.11	0.25	0.37	0.39	0.42	0.50
	/ . ()	0.08	0.08	0.32	0.35	0.37	0.39	0.43
:	/ . ()	1.76	1.76	2.32	2.62	2.70	2.81	2.98
	/ . 1	2.80	2.80	2.80	2.80	2.80	2.80	2.80
		4.94	4.94	6.49	7.32	7.56	7.86	8.34
		336	344.74	356.46	368.58	381.11	394.07	407.46
2015 - 2017 .	%		2.60%	3.40%	3.40%	3.40%	3.40%	3.40%
2.5 %		8.40	8.62	8.91	9.21	9.53	9.85	10.19
	/ .	3.00	3.08	3.18	3.29	3.40	3.52	3.64
	%	1.47%	1.43%	1.82%	1.99%	1.98%	2.00%	2.05%

2015 .,
2015-2017 .

2017-2021 .

2,5% .

4.

“ ” , .

“ ” , .



„

✓

9:00 . 16:00 .;

✓

✓

✓

✓

✓

✓

14

1.

2.

/

3.

✓

✓

✓

✓

✓

✓

(



V.

2017-2021 .

1.

,
2018 .
2021 . /

2017-2021 . /

./

2.

31.12.2019 .

3.

01.01.2017 .

06.04.2016 ., ,, 2014“ ,

” ,

4.

2017-2021 ., 3, 9 .

5.

6.

2017-2021 .

7.

4

” “ , . ,
().
. 51%
, 49%
- ,
,
2017-2021 .
” “ , .
- .
2017-2021 . ” “ ,
/ / ,
” “ ,
:
➤ ;
➤ ;
➤ ;
➤ ;
➤ ;



1.	/	”	“
1	”	“	/
1		;	
2			;
3			;
4			;
5		;	
6			;
7			;
8		;	
9			;
10			;
11			;
11.1			;
11.2			;
12		;	
12.1			;
13			;
14			;
15			;
16			



2.	
1	.
1	;
4	;
5	;
6	;
8	;
9	;
10	;
11	;
11.1	;
11.2	;
12	;
12.1	;
3.	
	2017-2021 .
17	;
18	;
19	;
20	;
	01.01.2017 . : 01.01.2018-31.12.2021 .
-4 .;	„ „ 25.06.2016 . „ 24-26.06.2016 .;
	2013 .,2014 . 2015 .;



4.	
1	“ / ; ”
2	210316 / ;
3	/ ;
4	07.10.1991 ./ ;
5	/ ;
6	/ ;
7	/ ;
8	;
9	” “ ’ 2016 ./ / ;
10	.198 , .4, .1 / ;
11	.198 , .1, / /
12	559/21.06.2016 ./ / ;
13	2015 . 2017-2021 ./ / ;
14	1 31.12.2015 . , ” “ ’ -9 ./ / ;
15	2017-2021 ./ /.

