

JAPAN INTERNATIONAL COOPERATION AGENCY

THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA
MINISTRY OF DEVELOPMENT

**THE STUDY
ON
INTEGRATED WATER RESOURCES DEVELOPMENT AND
MANAGEMENT MASTER PLAN
IN
THE FORMER YUGOSLAV REPUBLIC MACEDONIA**

SPRING INVENTORY

MAY 1999

**NIPPON KOEI CO., LTD
KRI INTERNATIONAL CORPORATION**

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Table 1(1/63) SPRING INVENTORY

No	Name of spring	Village name	Municipality (new)	Municipality (former)	River basin	Latitude (UTM)	Longitude (UTM)	Altitude (m)	Geology	Present condition	First observation					Second observation					Remarks				
											Yield (l/sec)	Date	Time	Temperature water	air	pH	Date	Time	Temperature water	air		pH	Yield (l/sec)	Bacteriological	Chemical
1.0	Brezov	Duf	26, Mavrovi Anovi	Gostivar	Vardar Debar 2	4626.00	7481.55	1760	Schists	Free flow	1.000	15.07.1962	12	6.5	21.8	-	12.07.1975	10	5.0	18.0	7	1.500			
2.0	Sadikov izvor	Duf	26, Mavrovi Anovi	Gostivar	Vardar Debar 2	4623.80	7480.40	1470	Schists	Free flow	2.500	15.07.1962	9	10.0	25.2	-	12.07.1975	10	5.0	13.0	6	1.600			
3.0	Dinkova crkva	Duf	26, Mavrovi Anovi	Gostivar	Vardar Debar 4	4622.80	7480.25	1440	Schists	Free flow	1.000	14.07.1962	10	6.0	19.1	-	11.07.1975	14	5.5	15.0	7	2.000			
4.0	Jovanova cesma	Duf	26, Mavrovi Anovi	Gostivar	Vardar Debar 2	4624.25	7483.70	1400	Schists	Free flow	1.000	14.07.1962	17	8.3	20.5	-	12.07.1975	17	7.5	12.0	6	0.320			
5.0	Melca	Duf	26, Mavrovi Anovi	Gostivar	Vardar Debar 4	4623.00	7480.10	1380	Schists	Free flow	1.500	14.07.1962	11	6.1	18.5	-	11.07.1975	16	5.0	13.0	7	1.600			
6.0	Kulentikamen	Duf	26, Mavrovi Anovi	Gostivar	Vardar Debar 4	4622.80	7481.50	1140	Schists	Free flow	2.000	14.07.1962	7	8.3	17.2	-	11.07.1975	11	7.0	19.0	7	32.890	Uncorrect	Correct	
7.0	Vodata na Balakija	Orcuse	26, Mavrovi Anovi	Gostivar	Vardar Debar 4	4621.75	7483.50	1030	Schists	Free flow	1.330	10.07.1975	11	9.0	19.0	7									
8.0	Melca	Orcuse	26, Mavrovi Anovi	Gostivar	Vardar Debar 4	4621.80	7483.50	1020	Schists	Free flow	7.000	13.07.1962	16	10.5	29.9	-	10.07.1975	11	8.5	19.0	7	62.000	Uncorrect	Correct	
9.0	Dolna cesma	Orcuse	26, Mavrovi Anovi	Gostivar	Vardar Debar 4	4622.05	7483.80	980	Schists	Total captured	1.000	13.07.1962	15	11.5	32.4	-	10.07.1975	12	-	-	-	-			
10.0	Sula	Orcuse	26, Mavrovi Anovi	Gostivar	Vardar Debar 4	4622.25	7483.80	920	Schists	Free flow	7.000	13.07.1962	16	10.0	18.5	-	10.07.1975	10	9.0	19.0	7	3.500			
11.0	Piji	Recane	30, Vrutok	Gostivar	Vardar Debar 2	4624.20	7485.90	870	Schists	Free flow	4.000	17.07.1962	17	9.0	23.6	7	10.07.1975	18	9.0	18.0	7	1.330			
12.0	Kreste Ujlit	Recane	30, Vrutok	Gostivar	Vardar Debar 2	4625.70	7485.65	820	Schists	Part.captured	25.000	17.07.1962	17	9.9	24.7	-	10.07.1975	15	9.0	18.0	7	-			
13.0	Kreste Ujlit	Recane	30, Vrutok	Gostivar	Vardar Debar 2	4623.90	7485.70	820	Schists	Part.captured	6.500	17.07.1962	17	9.7	24.7	-	10.07.1975	16	9.0	18.0	7	50.400			
14.0	Studen izvor	Vrutok	30, Vrutok	Gostivar	Vardar Debar 2	4625.65	7485.80	1020	Schists	Free flow	1.000	17.07.1962	18	7.2	22.2	-	9.07.1975	13	5.8	19.0	7	2.800			
15.0	Sever izvor	Vrutok	30, Vrutok	Gostivar	Vardar Gostivar 1	4625.10	7486.50	890	Alluvium total	Total captured	1.000	17.07.1962	16	8.9	29.4	-	9.07.1975	11	-	-	-	-			
16.0	Izvor na vamicata	Vrutok	30, Vrutok	Gostivar	Vardar Debar 2	4625.50	7486.35	800	Schists	Free flow	2.000	17.07.1962	19	8.1	20.4	-	9.07.1975	13	8.2	18.0	7	10.000			
17.0	Larga spring of Vard	Vrutok	30, Vrutok	Gostivar	Vardar Gostivar 1	4624.90	7486.75	620	Alluvium total	Part.captured	1500.000	17.07.1962	15	9.1	29.6	-	9.07.1975	10	8.5	18.0	7	1500.000			
18.0	Saplinc	Vrutok	30, Vrutok	Gostivar	Vardar Gostivar 1	4624.50	7486.75	600	Alluvium total	Free flow	12.000	17.07.1962	15	9.1	29.6	-	9.07.1975	11	9.0	16.0	7	113.000			
19.0	Izvor lera	Gomo Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4625.55	7477.85	2120	Schists	Free flow	9.000	16.07.1962	9	8.0	21.3	-	13.07.1975	7	5.0	17.0	7	2.500			
20.0	Miladinov izvor	Gomo Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4631.70	7483.90	1810	Schists	Free flow	1.500	16.07.1962	17	6.0	19.4	-	13.07.1975	12	6.0	12.0	6	1.600			
21.0	Izvor na mengova k	Gomo Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4631.95	7482.15	1780	Schists	Free flow	1.000	16.07.1962	16	6.5	20.8	-	13.07.1975	13	6.0	11.0	6	1.770			
22.0	Izvor na zendeibeg	Gomo Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4628.25	7481.80	1610	Schists	Free flow	3.000	16.07.1962	8	7.0	19.8	-	13.07.1975	9	5.0	18.0	7	1.000			
23.0	Izvor vo meckarnik	Gomo Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4629.20	7481.50	1530	Schists	Free flow	3.000	16.07.1962	7	7.1	19.4	-	13.07.1975	10	5.0	18.0	7	1.300			
24.0	Kolev izvor	Gomo Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4628.85	7482.25	1510	Schists	Free flow	2.000	16.07.1975	6	8.6	18.7	-	13.07.1975	11	6.0	13.0	7	1.200			
25.0	Izvor kaj meckarnic	Gomo Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4629.35	7481.50	1480	Schists	Free flow	2.000	16.07.1962	7	6.0	18.7	-	13.07.1975	14	8.0	15.0	6	1.500			
26.0	Kajnaci	Gomo Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4629.15	7483.90	1280	Schists	Free flow	4.000	15.07.1962	15	6.5	23.3	-	13.07.1975	17	6.0	14.0	7	3.500			
27.0	Star kladenec	Peckovo	30, Vrutok	Gostivar	Vardar Debar 2	4626.45	7485.75	1100	Schists	Free flow	1.000	13.07.1975	14	8.0	26.0	7									
28.0	Golema cesma	Dolno Jelovca	30, Vrutok	Gostivar	Vardar Debar 2	4630.70	7484.30	1800	Schists	Free flow	1.500	13.07.1975	11	5.0	17.0	6									
29.0	Jovicov izvor	Dolno Jelovca	30, Vrutok	Gostivar	Vardar Gostivar 1	4622.95	7487.00	1060	Alluvium total	Free flow	1.500	18.07.1962	10	10.3	26.1	-	15.07.1975	9	10.0	18.0	7	1.500	Uncorrect	Correct	
30.0	Goma Jerovica	Dolno Jelovca	30, Vrutok	Gostivar	Vardar Gostivar 1	4628.35	7486.95	1050	Alluvium total	Free flow	1.000	18.07.1962	9	9.7	19.6	-	15.07.1975	7	8.5	16.0	7	0.660			
31.0	Dolna Jerovica	Dolno Jelovca	30, Vrutok	Gostivar	Vardar Gostivar 1	4618.55	7486.90	1040	Alluvium total	Free flow	1.000	18.07.1962	9	9.7	19.6	-	15.07.1975	8	8.5	16.0	7	0.720			
32.0	Leskoec	Dolno Jelovca	30, Vrutok	Gostivar	Vardar Gostivar 1	4628.70	7486.90	1000	Alluvium total	Tap	1.000	18.07.1962	9	10.1	25.6	-	15.07.1975	9	9.0	18.0	7	0.800			
33.0	Banjicki izvor	Goma Banica	28, Dolna Banjica	Gostivar	Vardar Gostivar 1	4626.45	7491.15	580	Alluvium total	Total captured	5.000	29.07.1962	15	11.3	34.3	-	30.06.1975	16	11.0	18.0	7	353.000			
34.0	Banicki izvori	Goma Banica	28, Dolna Banjica	Gostivar	Vardar Gostivar 1	4626.30	7491.70	580	Alluvium total	Free flow	150.000	29.07.1962	15	11.2	34.3	-	30.06.1975	16	11.0	19.0	7	147.000			Capture of Fish pond
35.0	Banicki izvori	Goma Banica	28, Dolna Banjica	Gostivar	Vardar Gostivar 1	4626.25	7491.10	570	Alluvium total	Free flow	5.000	29.07.1962	15	11.3	34.3	-	30.06.1975	17	11.0	17.0	7	28.140			
36.0	Gura	Padaliste	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4614.30	7499.00	960	Marble&limestone	Free flow	2.000	9.07.1962	9	8.5	16.0	-	4.07.1975	8	8.0	14.0	7	20.000			
37.0	Krajali Dgores	Padaliste	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4615.50	7498.50	850	Marble&limestone	Tap	1.000	10.07.1962	7	12.0	14.4	-	4.07.1975	9	11.0	14.5	7	0.380			
38.0	Izvor nad selska vod	Padaliste	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4614.80	7498.95	810	Marble&limestone	Free flow	10.000	9.07.1962	18	9.4	20.4	-	4.07.1975	11	9.0	16.0	7	10.000			
39.0	Zaeleznicka stanica	Padaliste	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4615.50	7497.55	750	Marble&limestone	Free flow	3.000	10.07.1962	8	10.4	20.5	-	4.07.1975	14	10.0	14.0	7	10.000			
40.0	Kaj vodenicata	Padaliste	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4615.30	7497.65	750	Marble&limestone	Free flow	10.000	10.07.1962	8	10.5	18.7	-	4.07.1975	13	10.0	14.0	7	50.000	Uncorrect	Correct	
41.0	Na pat za Srbinovo	Padaliste	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4615.15	7497.90	740	Marble&limestone	Free flow	3.000	10.07.1962	7	10.4	20.0	-	4.07.1975	12	10.0	14.0	7	10.000			
42.0	Dobra voda	Zelezna reka	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4613.90	7505.05	1820	Paleozoic total	Free flow	1.500	9.07.1962	12	5.8	16.5	-	3.07.1975	16	5.0	12.0	6	2.000			
43.0	Gospodaa cesma	Zelezna reka	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4616.30	7504.70	1610	Paleozoic total	Free flow	0.500	9.07.1962	11	6.6	15.7	-	3.07.1975	15	6.0	13.0	6	0.900			
44.0	Topolo bacilo	Zelezna reka	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4617.15	7503.05	1380	Paleozoic total	Free flow	2.000	9.07.1962	9	8.8	16.5	-	3.07.1975	14	8.5	19.0	6	1.230			
45.0	Boskovica	Zelezna reka	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4617.45	7500.60	940	Paleozoic total	Free flow	2.000	9.07.1962	7	9.5	18.0	-	3.07.1975	7	8.0	15.0	7	1.900	Correct	Correct	
46.0	Toplec	Zelezna reka	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4617.60	7500.90	860	Marble&limestone	Free flow	1.000	9.07.1962	7	9.5	17.2	-	3.07.1975	8	9.0	15.0	7	2.500	Uncorrect	Correct	
47.0	Izvor kolibi	Strajane	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4619.45	7501.70	1180	Paleozoic total	Free flow	2.000	8.07.1962	18	10.0	19.6	-	2.07.1975	14	9.0	20.0	7	1.000	Correct	Correct	
48.0	Izvor na vel. Dol	Strajane	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4620.00	7501.30	1120	Paleozoic total	Free flow	1.000	8.07.1962	17	11.4	21.5	-	2.07.1975	10	11.0	17.0	7	0.500			
49.0	Goma cesma	Trnovo	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4621.35	7499.15	960	Paleozoic total	Tap	2.000	8.07.1962	13	11.4	25.6	-	1.07.1975	16	11.0	24.0	7	0.330			
50.0	Gura	Srbinovo	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4618.00	7497.35	680	Marble&limestone	Part.captured	10.000	15.07.1962	10	12.2	25.8	-	5.07.1975	7	12.0	15.5	7	2.800	Correct	Correct	
51.0	Srbinovski izvori	Srbinovo	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4617.75	7495.80	660	Marble&limestone	Free flow	12.000	10.07.1962	14	12.8	29.4	-	5.07.1973	8	10.5	17.0	7	318.400	Uncorrect	Correct	
52.0	Srbinovski izvori	Srbinovo	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4617.55	7495.90	660	Marble&limestone	Free flow	13.000	10.07.1962	17	11.1	25.0	-	5.07.1975	10	10.5	17.0	7	60.000			
53.0	Srbinovski izvori	Srbinovo	29, Sirbinovo	Gostivar	Vardar Gostivar 3	4617.75	7495.55	640	Marble&limestone	Free flow	5.000	10.04.1962	16												

Table 1(2/63) SPRING INVENTORY

No	Name of spring	Village name	Municipality (new)	Municipality (former)	River basin	Latitude (UTM)	Longitude (UTM)	Altitude (m)	Geology	Present condition	First observation					Second observation					Remarks			
											Yield (l/sec)	Date	Time	Temperature water	Temperature air	pH	Date	Time	Temperature water	Temperature air		pH	Yield (l/sec)	Bacteriological
71.0	Lovkegeco	Balin dol	22, Gostivar	Gostivar	Vardar Gostivar 1	4627.20	7496.25	740	Marble&limestone	Free flow	1.500	7.07.1962	12	11.7	26.8	-	29.06.1975	15	11.0	25.0	7	1.000		
72.0	Struek	Cajla	22, Gostivar	Gostivar	Vardar Gostivar 1	4629.15	7495.15	509	Alluvium total	Free flow	100.000	7.07.1962	9	12.5	31.5	-	29.06.1975	12	11.0	25.0	7	50.000	Uncorrect	Correct
73.0	Javorka	Forino	27, Cegrane	Gostivar	Vardar Gostivar 1	4630.60	7497.50	560	Alluvium total	Free flow	220.000	31.07.1962	16	13.1	32.6	-	23.07.1975	16	11.0	26.0	7	388.000		
74.0	Cegranski izvor	Cegrane	27, Cegrane	Gostivar	Vardar Gostivar 1	4633.00	7498.35	505	Alluvium total	Free flow	120.000	31.07.1962	11	11.1	30.2	-	23.07.1975	11	10.5	23.0	7	75.000		
75.0	Cegranski izvor	Cegrane	27, Cegrane	Gostivar	Vardar Gostivar 1	4633.00	7498.35	505	Alluvium total	Free flow	150.000	31.07.1962	11	11.1	30.2	-	23.07.1975	11	10.5	23.0	7	142.100	Correct	Correct
76.0	Cegranski izvor	Cegrane	27, Cegrane	Gostivar	Vardar Gostivar 1	4632.85	7498.35	505	Alluvium total	Free flow	15.000	31.07.1962	11	11.1	10.1	-	23.07.1975	13	10.5	24.0	7	-		
77.0	Bela voda	Debrese	22, Gostivar	Gostivar	Vardar Gostivar 1	4630.90	7489.10	760	Alluvium total	Total captured	5.000	18.07.1962	18	11.0	19.8	-	16.07.1975	15	-	-	-	-		
78.0	Smur	Debrese	22, Gostivar	Gostivar	Vardar Gostivar 1	4631.10	7491.05	580	Alluvium total	Free flow	4.500	18.07.1962	16	10.8	21.6	-	16.07.1975	14	10.0	22.0	6	21.600	Uncorrect	Correct
79.0	Mlaka	Debrese	22, Gostivar	Gostivar	Vardar Gostivar 1	4629.25	7491.70	550	Alluvium total	Free flow	2.500	18.07.1962	19	10.9	18.6	-	16.07.1975	13	12.0	20.0	6	2.500	Uncorrect	Correct
79.1	Bela voda	Debrese	22, Gostivar	Gostivar	Vardar Gostivar 1	4630.60	7489.50	720	Schists	Total captured	2.000	4.10.1974	-	-	-	-	-	-	-	-	-	-		
80.0	Lapni musica	Zubovce	24, Vrapcista	Gostivar	Vardar Gostivar 1	4631.55	7491.15	570	Alluvium total	Free flow	6.000	22.07.1962	9	11.8	28.3	-	16.07.1975	15	13.0	22.0	7	12.300		
81.0	Kalopetroec	Zubovce	24, Vrapcista	Gostivar	Vardar Gostivar 1	4631.90	7491.60	557	Alluvium total	Free flow	5.000	22.07.1962	9	12.0	29.0	-	16.07.1975	16	11.5	21.0	7	4.160		
82.0	Toplicnica	Galate	24, Vrapcista	Gostivar	Vardar Gostivar 1	4634.00	7491.15	530	Alluvium total	Free flow	40.000	22.07.1962	12	15.8	30.5	-	17.07.1975	16	15.0	19.0	7	404.000	Uncorrect	Correct
83.0	Izvor na Vrapciska r	Vrapciste	24, Vrapcista	Gostivar	Vardar Debar 2	4633.50	7485.40	1580	Schists	Free flow	1.500	23.07.1962	10	6.1	28.5	-	22.07.1975	13	5.0	13.0	6	1.500		
84.0	Izvor Jovov Argaj	Vrapciste	24, Vrapcista	Gostivar	Vardar Debar 2	4633.40	7485.80	1530	Schists	Free flow	5.000	23.07.1962	12	7.0	29.1	-	22.07.1975	14	5.0	12.0	6	3.200	Correct	Correct
85.0	Drenoec	Vrapciste	24, Vrapcista	Gostivar	Vardar Gostivar 1	4632.55	7491.95	540	Alluvium total	Free flow	2.000	22.07.1962	10	12.5	29.0	-	17.07.1975	8	11.0	20.0	7	1.500		
86.0	Kobel	Vrapciste	24, Vrapcista	Gostivar	Vardar Gostivar 1	4632.50	7492.15	538	Alluvium total	Tap	1.500	22.07.1962	10	12.8	11.3	-	17.07.1975	9	11.0	21.0	7	0.700		
87.0	Osman Jakupov	Vrapciste	24, Vrapcista	Gostivar	Vardar Gostivar 1	4633.20	7492.35	527	Alluvium total	Part captured	1.500	22.07.1962	11	12.4	31.3	-	17.07.1975	10	12.0	20.0	7	1.700	Uncorrect	Correct
88.0	Vakov	Vrapciste	24, Vrapcista	Gostivar	Vardar Gostivar 1	4633.35	7492.35	525	Alluvium total	Free flow	1.000	22.07.1962	11	12.4	30.1	-	17.07.1975	11	12.0	21.0	7	-		
89.0	Izvor vo Veselova p	Pozarane	24, Vrapcista	Gostivar	Vardar Debar 2	4634.30	7485.85	1440	Schists	Free flow	1.500	23.07.1962	8	7.2	27.8	-	22.07.1975	11	6.0	14.0	6	1.500		
90.0	Kajnak imal	Pozarane	24, Vrapcista	Gostivar	Vardar Gostivar 1	4636.20	7487.60	1260	Diluvium total	Total captured	1.500	25.07.1962	15	7.5	23.3	-	21.07.1975	9	-	-	-	-		
91.0	Prosevski izvor	Pozarane	24, Vrapcista	Gostivar	Vardar Gostivar 1	4634.25	7486.60	1190	Schists	Free flow	3.000	22.07.1962	6	8.8	16.5	-	22.07.1975	8	6.0	16.0	6	1.200		
92.0	Izvor pod Cmo Ezer	Lomnica	23, Negotino-Polos	Gostivar	Vardar Debar 2	4642.20	7483.70	2000	Schists	Free flow	3.000	27.07.1962	8	8.2	22.0	-	18.07.1975	13	3.5	13.0	6	2.000		
93.0	Izvor pod Cmo Ezer	Lomnica	23, Negotino-Polos	Gostivar	Vardar Debar 2	4642.35	7483.70	2000	Schists	Free flow	7.000	27.07.1962	5	6.2	21.9	-	18.07.1975	13	3.5	13.0	6	3.000		
94.0	Crnicki izvor pod Cr	Lomnica	23, Negotino-Polos	Gostivar	Vardar Debar 2	4642.00	7483.70	1970	Schists	Free flow	8.000	27.07.1962	8	7.1	14.0	-	18.07.1975	13	4.5	14.0	6	2.000		
95.0	Izvor Brazda	Lomnica	23, Negotino-Polos	Gostivar	Vardar Debar 2	4642.25	7485.15	1820	Schists	Free flow	8.000	17.07.1962	10	5.5	23.7	-	18.07.1975	15	5.0	13.0	7	1.500		
96.0	Golem izvor	Lomnica	23, Negotino-Polos	Gostivar	Vardar Debar 2	4641.90	7483.90	1820	Schists	Free flow	60.000	27.07.1962	17	5.0	22.4	-	18.07.1975	14	4.0	13.0	6	40.000		
97.0	Izvor Brazda	Lomnica	23, Negotino-Polos	Gostivar	Vardar Debar 2	4642.00	7485.20	1790	Schists	Free flow	20.000	27.07.1962	10	5.5	23.7	-	18.07.1975	15	5.0	13.0	7	4.000		
98.0	Izvor na reka Mazar	Gurgeviste	23, Negotino-Polos	Gostivar	Vardar Debar 2	4636.85	7477.90	2270	Schists	Free flow	60.000	26.07.1962	11	6.0	25.9	-	19.07.1975	10	4.0	15.0	7	2.500		
99.0	Izvor na reka Mazar	Gurgeviste	23, Negotino-Polos	Gostivar	Vardar Debar 2	4636.45	7477.75	2200	Schists	Free flow	30.000	26.07.1962	12	8.0	23.0	-	19.07.1975	10	3.5	16.0	7	1.500		
100.0	Izvor na reka Mazar	Gurgeviste	23, Negotino-Polos	Gostivar	Vardar Debar 2	4636.25	7677.70	2180	Schists	Free flow	32.000	26.07.1962	12	8.0	22.0	-	19.07.1975	12	4.0	15.0	7	1.400		
101.0	Izvor na reka Mazar	Gurgeviste	23, Negotino-Polos	Gostivar	Vardar Debar 2	4638.20	7479.55	1980	Schists	Free flow	9.000	26.07.1962	15	5.1	23.0	-	20.07.1975	15	6.0	13.0	7	4.000		
102.0	Izvor na reka Mazar	Gurgeviste	23, Negotino-Polos	Gostivar	Vardar Debar 2	4636.90	7479.90	1900	Schists	Free flow	140.000	26.07.1962	14	5.5	21.8	-	19.07.1975	15	6.0	12.0	7	3.000		
103.0	Izvor na reka Mazar	Gurgeviste	23, Negotino-Polos	Gostivar	Vardar Debar 2	4637.40	7479.95	1880	Schists	Free flow	2.000	26.07.1962	15	6.0	25.1	-	20.07.1975	11	6.0	13.0	7	3.000		
104.0	Izvor na reka Mazar	Gurgeviste	23, Negotino-Polos	Gostivar	Vardar Debar 2	4637.70	7480.05	1780	Marble&limestone	Free flow	8.000	26.07.1962	15	8.0	22.6	-	20.07.1975	12	5.0	12.0	6	25.000		
105.0	Izvor vo mesnosta K	Kaliste	23, Negotino-Polos	Gostivar	Vardar Debar 2	4635.20	7481.85	2000	Schists	Free flow	3.000	25.07.1962	18	7.1	15.8	-	21.07.1975	16	5.0	14.0	6	2.300		
106.0	Suluk cesma	Kaliste	23, Negotino-Polos	Gostivar	Vardar Gostivar 1	4636.55	7487.70	1190	Diluvium total	Free flow	1.000	25.07.1962	14	8.5	26.6	-	21.07.1975	9	7.0	16.0	6	1.100		
107.0	Izvor vo mesnosta K	Kaliste	23, Negotino-Polos	Gostivar	Vardar Gostivar 1	4636.95	7487.75	1110	Diluvium total	Total captured	2.000	25.07.1962	17	7.4	23.1	-	21.07.1975	12	-	-	-	-		
108.0	Sokolec	Kaliste	23, Negotino-Polos	Gostivar	Vardar Gostivar 1	4636.00	7488.85	980	Diluvium total	Free flow	2.000	25.07.1962	13	13.0	26.0	-	21.07.1975	8	12.0	17.0	7	2.500	Correct	Correct
109.0	Volkovski izvori	Volkovija	94, Brvenica	Tetovo	Vardar Gostivar 1	4633.75	7498.85	490	Alluvium total	Free flow	10.000	31.07.1962	10	11.7	33.1	-	1.08.1975	10	11.0	19.0	8	865.600	Uncorrect	Correct
109.1	Gorna maala	Volkovija	94, Brvenica	Tetovo	Vardar Gostivar 1	4635.25	7500.45	600	Limestone	Total captured	2.000	24.01.1973	-	-	-	-	-	-	-	-	-	-		
110.0	Fisnik	Novo Selo	96, Bogovinje	Tetovo	Vardar Gostivar 1	4645.95	7486.75	1680	Schists	Free flow	7.000	10.07.1962	10	7.0	20.3	-	29.07.1975	9	7.5	18.0	7	10.500		
111.0	Cma voda	Novo Selo	96, Bogovinje	Tetovo	Vardar Gostivar 1	4645.40	7487.40	1450	Schists	Free flow	1.000	10.07.1962	8	11.0	19.0	-	29.07.1975	12	8.0	19.4	7	4.100		
112.0	Golema voda	Novo Selo	96, Bogovinje	Tetovo	Vardar Gostivar 1	4644.55	7489.00	1200	Schists	Tap	1.500	10.07.1962	7	10.0	18.0	-	29.07.1975	11	8.5	19.0	7	3.000		
113.0	Ladna voda-ograda	Selce kec	96, Bogovinje	Tetovo	Vardar Gostivar 1	4644.00	7490.50	980	Diluvium total	Free flow	0.500	9.07.1962	16	11.0	23.0	-	29.07.1975	17	9.5	17.0	7	3.200	Uncorrect	Correct
114.0	Alitova cesma	Selce kec	96, Bogovinje	Tetovo	Vardar Gostivar 1	4644.00	7490.25	970	Diluvium total	Tap	1.500	9.07.1962	17	11.0	23.0	-	29.07.1975	16	9.5	17.0	7	0.110		
115.0	Odjini livadi	Bogovinje	96, Bogovinje	Tetovo	Vardar Gostivar 1	4642.60	7493.45	570	Diluvium total	Total captured	1.000	-	-	-	-	-	-	-	-	-	-			
115.1	Bogovinski izvor I	Bogovinje	96, Bogovinje	Tetovo	Vardar Gostivar 1	4643.00	7492.00	640	Schists	Total captured	1.000	26.10.1976	-	-	-	-	-	-	-	-	-			
115.2	Bogovinski izvor II	Bogovinje	96, Bogovinje	Tetovo	Vardar Gostivar 1	4642.70	7492.20	620	Schists	Total captured	1.500	26.10.1976	-	-	-	-	-	-	-	-	-			
115.3	Kunkovica I	Sinicane	95, Kamenjane	Tetovo	Vardar Gostivar 1	4643.30	7492.15	840	Schists	Total captured	1.500	3.04.1974	-	-	-	-	-	-	-	-	-			
115.4	Kunkovica II	Sinicane	95, Kamenjane	Tetovo	Vardar Gostivar 1	4643.40	7492.45	870	Schists	Total captured	1.500	3.04.1974	-	-	-	-	-	-	-	-	-			
115.5	Vkv	Bogovinje	96, Bogovinje	Tetovo	Vardar Debar 2	4648.25	7484.65	2180	Schists	Free flow	100.000	26.10.1976	-	-	-	-	-	-	-	-	-			
116.0	Gorna voda	Blace	94, Brvenica	Tetovo	Vardar Gostivar 1	4638.60	7502.10	620	Paleozoic total	Free flow	23.000	20.09.1975	17	12.0	20.0	7	-	-	-	-	-			
117.0	Sveta Cesma	Miletino	94, Brvenica	Tetovo	Vardar Gostivar 1	4640.20	7503.55	660	Paleozoic total	Free flow	0.500	27.07.1962	15	11.0	30.0	-	16.07.1975	13	10.0	24.0	8	0.500		
118.0	An	Miletino	94, Brvenica	Tetovo	Vardar Gostivar 1	4639.85	7502.60	580	Paleozoic total	Free flow	1.500	27.07.1												

Table 1(3/63) SPRING INVENTORY

No	Name of spring	Village name	Municipality (new)	Municipality (former)	River basin	Latitude (UTM)	Longitude (UTM)	Altitude (m)	Geology	Present condition	First observation					Second observation					Remarks					
											Yield (l/sec)	Date	Time	Temperature water	air	pH	Date	Time	Temperature water	air		pH	Yield (l/sec)	Bacteriological	Chemical	
134.0	Pravica I;II,III.	D.Palciste	95, Kamenjane	Tetovo	Vardar Gostivar 1	4647.50	7495.65	456	Alluvium total	Free flow	15.000	8.07.1962	12	11.0	27.9	-	19.07.1975	10	9.0	21.0	8	185.400	Correct	Correct		
135.0	Vrtace	D.Palciste	95, Kamenjane	Tetovo	Vardar Gostivar 1	4647.35	7495.65	456	Alluvium total	Free flow	0.500	8.07.1962	12	11.0	27.6	-	19.07.1975	13	10.0	21.0	8	5.000				
135.1	Derov dol	D.Palciste	95, Kamenjane	Tetovo	Vardar Gostivar 1	4647.25	7493.00	980	Schists	Total captured	3.000	5.04.1974	-	-	-	-										
136.0	Veranj	Golema Recica	91, Tetovo	Tetovo	Vardar Gostivar 1	4650.00	7495.50	620	Alluvium total	Total captured	2.000	8.07.1962	6	12.0	19.0	-										
137.0	Kisela voda II	Golema Recica	91, Tetovo	Tetovo	Vardar Gostivar 1	4649.80	7495.57	550	Alluvium total	Free flow	1.000	8.07.1962	7	20.0	13.0	-	18.07.1975	11	20.0	23.0	9	-				
138.0	Kisela voda I	Golema Recica	91, Tetovo	Tetovo	Vardar Gostivar 1	4649.60	7495.90	480	Alluvium total	Free flow	0.500	8.07.1962	7	10.5	19.5	-	18.07.1975	11	10.0	23.0	8	0.290				
139.0	Kalnik	Golema Recica	91, Tetovo	Tetovo	Vardar Gostivar 1	4648.65	7495.45	477	Alluvium total	Tap	2.000	8.07.1962	9	11.0	22.5	-	18.07.1975	14	15.0	21.0	8	5.700				
140.0	Kalnik do gadeto (liv)	Golema Recica	91, Tetovo	Tetovo	Vardar Gostivar 1	4645.65	7495.70	472	Alluvium total	Free flow	0.500	8.07.1962	8	10.0	22.0	-	18.07.1975	16	12.0	21.0	8	0.220				
141.0	Rasadiste	Mala Recica	91, Tetovo	Tetovo	Vardar Gostivar 1	4650.25	7495.55	620	Alluvium total	Free flow	1.000	8.07.1962	6	11.0	18.0	-	18.07.1975	8	11.0	20.0	7	3.100	Uncorrect	Correct		
142.0	Izvor na Popova Sapka	Lisec	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4651.95	7489.90	1820	Schists	Free flow	50.000	7.07.1962	16	4.5	21.5	-	24.07.1975	12	4.0	17.0	7	22.700				
143.0	Popova Sapka	Lisec	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4651.80	7490.60	1750	Schists	Free flow	15.000	7.07.1962	15	5.0	20.0	-	31.07.1975	10	4.5	17.0	7	165.000				
144.0	Popova Sapka	Lisec	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4651.90	7490.50	1740	Schists	Part captured	30.000	7.07.1962	16	5.0	20.0	-	31.07.1975	9	4.0	12.0	7	26.000				
144.1	Caripasinski izvor	Lisec	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4652.50	7488.60	2360	Schists	Free flow	60.000	26.10.1976	-	-	-	-										
145.0	Krojepr	Strimnica		Tetovo	Vardar Gostivar 1	4645.70	7503.70	810	Marble&limestone	Part captured	1.000	26.07.1962	9	11.0	24.6	-	16.07.1975	12	11.0	19.0	8	0.077				
146.0	Finibeg	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4654.95	7481.20	2220	Schists	Free flow	10.000	13.07.1962	10	9.0	22.0	-	23.07.1975	9	3.0	14.0	7	120.000				
147.0	Bozovce	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4657.13	7481.75	2140	Schists	Free flow	50.000	13.07.1962	7	4.5	20.0	-	22.07.1975	15	4.0	17.0	7	63.000				
148.0	Izvor pod G. Lesnica	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4652.35	7484.20	2000	Schists	Free flow	50.000	13.07.1962	10	8.0	24.0	-	23.07.1975	16	4.0	19.0	7	189.000				
149.0	Seremetica	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4657.85	7484.10	1980	Schists	Free flow	10.000	14.07.1962	8	6.5	20.2	-	22.07.1975	12	4.0	11.3	7	31.500				
150.0	Zolt kamen (siroka v)	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4657.25	7483.55	1940	Schists	Free flow	2.000	14.07.1962	8	6.5	20.0	-	22.07.1975	10	5.0	12.0	7	49.400				
151.0	Izvor vo ploca	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4655.20	7482.33	1880	Schists	Free flow	3.000	13.07.1962	12	4.5	26.0	-	22.07.1975	17	3.5	8.0	7	17.500				
152.0	Izvor vo ploca Plan	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4655.40	7482.45	1640	Schists	Free flow	3.500	13.07.1962	12	5.0	25.0	-	22.07.1975	17	4.0	15.0	7	48.000				
153.0	Krivosija	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4652.65	7481.90	1580	Schists	Free flow	40.000	13.07.1962	11	6.5	24.3	-	23.07.1975	11	3.5	17.0	7	344.400				
154.0	Cula cesma (seliste)	Bozovce	97, Sipkovicica	Tetovo	Vardar Prizren 4	4657.15	7485.70	1540	Schists	Free flow	1.000	13.07.1962	7	9.5	22.0	-	22.07.1975	9	8.0	16.0	7	1.400				
155.0	Selge	Vesala	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4659.90	7488.90	1680	Schists	Free flow	2.000	12.07.1962	15	6.0	25.0	-	21.07.1975	12	5.0	14.0	7	105.300				
156.0	Baciliste	Vesala	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4659.85	7489.80	1640	Schists	Free flow	30.000	12.07.1962	14	6.5	25.0	-	21.07.1975	15	5.5	12.0	7	196.300				
157.0	Grobista	Vesala	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4658.55	7487.70	1460	Schists	Total captured	-	-	-	-	-	-	-	-	-	-	-	-	1.000			
158.0	Stara cesma	Brodec	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4657.40	7491.50	1200	Schists	Total captured	1.000	12.07.1962	8	8.0	22.0	-										
159.0	Kobilica-ladna voda	Vejsce	91, Tetovo	Tetovo	Vardar Kacanik 3	4661.10	7493.10	1600	Schists	Free flow	25.000	11.07.1962	16	6.0	20.5	-	4.08.1975	14	5.0	11.0	7	77.500				
160.0	Rakopek-serdarica	Vejsce	91, Tetovo	Tetovo	Vardar Kacanik 3	4662.40	7493.80	1580	Schists	Free flow	20.000	11.07.1962	16	6.5	20.0	-	4.08.1975	16	5.5	9.0	7	5.850				
161.0	Drenoec	Vejsce	91, Tetovo	Tetovo	Vardar Kacanik 3	4660.55	7493.80	1300	Schists	Part captured	1.500	11.07.1962	11	7.5	22.0	-	4.08.1975	12	7.0	12.5	7	3.150				
162.0	Draga voda 2	Sipkovicica	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4654.05	7493.45	1160	Schists	Free flow	1.500	7.07.1962	12	7.0	25.6	-	17.07.1975	16	8.0	22.0	7	32.000	Uncorrect	Correct		
163.0	Draga voda;Nuredin	Sipkovicica	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4654.50	7493.40	1150	Schists	Free flow	1.000	7.07.1962	12	10.0	25.0	-	17.07.1975	13	6.5	20.0	8	20.200				
164.0	Draga voda;Nuredin	Sipkovicica	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4654.75	7493.40	1125	Schists	Free flow	1.500	7.07.1962	12	8.7	25.3	-	17.07.1975	12	6.0	23.0	8	20.800				
165.0	Draga voda 1	Sipkovicica	97, Sipkovicica	Tetovo	Vardar Kacanik 3	4654.30	7493.50	1120	Schists	Free flow	10.000	7.07.1962	11	10.0	24.0	-	17.07.1975	15	7.0	22.0	7	15.800				
166.0	Livage	Selce	91, Tetovo	Tetovo	Vardar Kacanik 3	4655.20	7495.25	980	Schists	Free flow	1.000	11.07.1962	8	10.0	19.0	-	4.08.1975	9	9.5	14.0	7	2.250	Uncorrect	Correct		
167.0	Las	Selce	91, Tetovo	Tetovo	Vardar Kacanik 3	4655.00	7495.40	900	Schists	Free flow	1.000	11.07.1962	9	9.5	20.0	-	4.08.1975	9	10.0	14.0	7	0.270				
168.0	Golema livada	Gajre		Tetovo	Vardar Kacanik 3	4652.45	7493.83	1280	Schists	Free flow	1.500	7.07.1962	13	6.0	26.5	-	31.07.1975	16	8.0	21.0	7	1.100				
168.1	Staro kupatilo; reka	Tetovo	91, Tetovo	Tetovo	Vardar Kacanik 3	4653.92	7495.30	680	Limestone	Free flow	3.000	-	-	20.0	-											
168.2	Hydrocentrala r. Pena	Tetovo	91, Tetovo	Tetovo	Vardar Kacanik 3	4653.10	7496.10	580	Schists	Total captured	0.125	-	-	14.0	-											
169.0	Smolec	Gorna Lesnica	98, Zelino	Tetovo	Vardar Gostivar 1	4641.90	7505.15	850	Marble&limestone	Tap	1.000	26.07.1962	11	11.5	26.3	-	15.07.1975	16	10.0	22.0	8	0.660				
170.0	Zabelj	Zalino	98, Zelino	Tetovo	Vardar Gostivar 1	4747.90	7506.20	720	Marble&limestone	Part captured	-	-	-	-	-	-	-	-	-	-	-	-	0.200			
171.0	Kruzen Anli	Novo selo Gnj	98, Zelino	Tetovo	Vardar Gostivar 2	4646.05	7514.70	730	Paleozoic total	Tap	2.000	3.07.1963	13	10.0	30.5	-	10.07.1975	14	10.0	22.5	8	0.500				
172.0	Karpatica	Germo	92, Djepiste	Tetovo	Vardar Kacanik 3	4655.40	7497.30	1200	Schists	Free flow	7.000	14.07.1962	11	6.5	24.0	-	9.08.1975	9	8.0	-	7	3.800				
173.0	Ramnica	Germo	92, Djepiste	Tetovo	Vardar Kacanik 3	4657.50	7497.20	1280	Schists	Total captured	5.000	14.07.1962	11	6.5	23.0	-										
174.0	Brza voda	Germo	92, Djepiste	Tetovo	Vardar Kacanik 3	4659.10	7496.90	1640	Schists	Free flow	31.000	11.07.1962	18	6.0	18.0	-	9.08.1975	14	-	-	7	36.900				
174.1	Sula	Germo	92, Djepiste	Tetovo	Vardar Kacanik 3	4659.60	7497.05	1640	Schists	Total captured	3.500	16.10.1975	-	-	-	-										
174.2	Bela voda I	Germo	92, Djepiste	Tetovo	Vardar Kacanik 3	4656.85	7496.40	1530	Schists	Free flow	1.200	16.01.1976	-	-	-	-										
174.3	Bela voda II	Germo	92, Djepiste	Tetovo	Vardar Kacanik 3	4656.60	7496.30	1530	Schists	Free flow	2.000	16.01.1976	-	-	-	-										
175.0	Setolska cesma	Setole	92, Djepiste	Tetovo	Vardar Kacanik 3	4655.50	7499.70	840	Schists	Tap	1.000	15.07.1962	8	8.5	21.5	-	9.08.1975	17	8.0	22.0	7	0.400				
176.0	Tri	Otunje	92, Djepiste	Tetovo	Vardar Kacanik 3	4658.40	7499.45	1620	Schists	Total captured	1.000	15.07.1962	15	7.5	21.0	-										
177.0	Sivna voda	Otunje	92, Djepiste	Tetovo	Vardar Kacanik 3	4658.85	7499.45	1600	Schists	Free flow	5.000	15.07.1962	17	6.0	20.0	-	8.08.1975	14	6.0	-	7	9.500				
178.0	Tulek	Prejubiste	99, Jegunovce	Tetovo	Vardar Kacanik 4	4655.40	7508.50	407	Alluvium total	Total captured	30.800	30.07.1975	11	12.5	20.0	8										
178.1	Busotina	Kopance	99, Jegunovce	Tetovo	Vardar Kacanik 4	4655.70	7511.65	390	Sand & clay	Free flow	0.300	-	-	12.0	-											
179.0	Bistricki izvori	Slatino	93, Tearce	Tetovo	Vardar Kacanik 3	4664.75	7497.00	2060	Schists	Free flow	40.000	16.07.1962	11	5.5	21.5	-	7.08.1975	14	3.0	13.0	7	184.300				
180.0	Kazani-causica	Slatino	93, Tearce	Tetovo	Vardar Kacanik 3	4665.50	7501.20	1900	Schists	Free flow	15.000	16.07.1962	12	5.5	23.0	-	7.08.1975	10	4.0							

Table 1(7/63) SPRING INVENTORY

No	Name of spring	Village name	Municipality (new)	Municipality (former)	River basin	Latitude (UTM)	Longitude (UTM)	Altitude (m)	Geology	Present condition	First observation					Second observation					Remarks				
											Yield (l/sec)	Date	Time	Temperature water	Temperature air	pH	Date	Time	Temperature water	Temperature air		pH	Yield (l/sec)	Bacteriological	Chemical
390.0	Klajnac	Vranestica	43, Vranestica	Kicevo	Treska Krusevo 1	4588.95	7502.85	670	Limestone&marble	Tap	0.550	12.05.1976	7	9.0	11.0	7									
391.0	Petocna voda	Aliste	43, Vranestica	Kicevo	Treska Krusevo 1	4589.40	7504.45	1010	Limestone&marble	Tap	0.150	12.05.1976	10	9.5	13.0	6									
392.0	Izvori (Atiski)	Aliste	43, Vranestica	Kicevo	Treska Krusevo 1	4589.65	7504.60	860	Limestone&marble	Total captured	1.000	9.07.1963	15	11.0	23.0	-	12.05.1976	11	9.0	13.0	6	-			
393.0	Goma voda	Lisicani	14, Plasnica	Kicevo	Treska Krusevo 1	4590.40	7504.60	750	Limestone&marble	Free flow	1.200	12.05.1976	12	9.0	13.0	7									
394.0	Jaor	Rabetino	43, Vranestica	Kicevo	Treska Gostivar 4	4601.80	7508.00	1400	Paleozoic total	Free flow	1.000	29.07.1963	11	8.0	24.0	-	8.05.1976	11	9.0	13.0	6	0.230			
395.0	Guleica	Rabetino	43, Vranestica	Kicevo	Treska Gostivar 3	4600.05	7505.85	880	Paleozoic total	Free flow	0.050	7.05.1976	19	9.0	12.0	7									
396.0	Batal djarnja	Dupjani	43, Vranestica	Kicevo	Treska Gostivar 4	4601.80	7508.75	1700	Paleozoic total	Free flow	1.000	8.05.1976	14	5.5	15.0	5									
397.0	Izvor	Dupjani	43, Vranestica	Kicevo	Treska Gostivar 4	4602.35	7508.30	1500	Paleozoic total	Free flow	1.000	8.05.1976	12	7.0	13.0	6									
398.0	Orese	Dupjani	43, Vranestica	Kicevo	Treska Gostivar 4	4600.00	7507.35	980	Paleozoic total	Free flow	0.410	9.05.1976	10	10.5	-	7									
399.0	Kula II	Patec	43, Vranestica	Kicevo	Treska Gostivar 4	4600.00	7509.45	1820	Paleozoic total	Free flow	1.000	8.05.1976	15	14.0	14.0	5									
400.0	Kula I	Patec	43, Vranestica	Kicevo	Treska Gostivar 4	4601.75	7509.10	1760	Paleozoic total	Free flow	2.000	8.05.1976	15	14.0	14.0	5									
401.0	Kula III	Patec	43, Vranestica	Kicevo	Treska Gostivar 4	4601.90	7509.80	1720	Paleozoic total	Free flow	5.000	8.05.1976	16	14.0	14.0	5									
402.0	Cetiri buki	Kozicino	43, Vranestica	Kicevo	Treska Gostivar 4	4598.05	7510.55	1460	Paleozoic total	Free flow	0.670	9.05.1976	17	7.0	10.0	6									
403.0	Viroi	Kozicino	43, Vranestica	Kicevo	Treska Gostivar 4	4597.55	7509.45	1380	Paleozoic total	Free flow	0.060	9.05.1976	19	5.0	10.0	6									
404.0	Kaptaza	Svetrace	43, Vranestica	Kicevo	Treska Gostivar 3	4597.95	7507.05	840	Paleozoic total	Total captured	-	9.05.1976	11	11.0	11.0	7									
405.0	Nedelecna voda	Krusica	43, Vranestica	Kicevo	Treska Gostivar 3	4598.00	7504.45	940	Paleozoic total	Free flow	0.400	9.05.1976	13	10.0	14.0	6									
406.0	Laki	Recani Celope	43, Vranestica	Kicevo	Treska Gostivar 3	4596.90	7505.80	700	Limestone&marble	Free flow	1.000	31.07.1963	7	12.0	14.0	-	13.05.1976	8	11.0	11.0	6	0.100			
407.0	Klajnac	Orlanci	43, Vranestica	Kicevo	Treska Gostivar 3	4596.70	7503.05	920	Diluvium total	Free flow	0.080	9.05.1976	14	9.5	14.0	6									
408.0	Markoec	Orlanci	43, Vranestica	Kicevo	Treska Gostivar 3	4596.15	7502.35	860	Diluvium total	Total captured	-	9.05.1976	15	13.0	14.0	-									
409.0	Zmijarnici	Iziste	12, Makedonski Br	Makedonski	Treska Krusevo 2	4594.70	7507.75	820	Paleozoic total	Free flow	0.200	4.05.1976	17	10.0	17.0	6									
410.0	Filip maalska cesma	Iziste	12, Makedonski Br	Makedonski	Treska Krusevo 2	4594.50	7507.60	690	Paleozoic total	Tap	0.100	4.05.1976	17	11.0	17.0	7									
411.0	Volce maalska cesma	Iziste	12, Makedonski Br	Makedonski	Treska Krusevo 2	4593.95	7507.95	675	Paleozoic total	Tap	0.100	4.05.1976	16	10.5	14.5	7									
412.0	Uboec	Iziste	12, Makedonski Br	Makedonski	Treska Krusevo 2	4592.90	7507.60	600	Paleozoic total	Free flow	5.000	31.07.1963	10	13.0	23.0	-	4.05.1976	14	10.0	13.0	7	6.200			
413.0	Kik	Iziste	12, Makedonski Br	Makedonski	Treska Krusevo 2	4592.40	7507.30	600	Paleozoic total	Free flow	5.000	31.07.1963	11	13.0	23.0	-	4.05.1976	15	14.0	17.0	8	5.000			
414.0	Grnec	Dvorci	14, Plasnica	Makedonski	Treska Krusevo 2	4587.85	7508.45	1030	Paleozoic total	Free flow	2.000	5.05.1976	11	6.0	18.0	7									
415.0	Cukanice	Dvorci	14, Plasnica	Makedonski	Treska Krusevo 2	4588.00	7510.45	960	Paleozoic total	Free flow	2.000	5.05.1976	12	6.0	17.0	7									
416.0	Popovo klaince	Dvorci	14, Plasnica	Makedonski	Treska Krusevo 2	4588.60	7508.80	850	Paleozoic total	Free flow	0.330	5.05.1976	9	7.0	20.0	7									
417.0	Pitran	Dvorci	14, Plasnica	Makedonski	Treska Krusevo 2	4591.45	7507.65	590	Paleozoic total	Free flow	800.000	9.07.1963	10	11.0	21.0	-	5.05.1976	7	11.0	10.0	7	927.500			
418.0	Serginovec	Preglovo	14, Plasnica	Makedonski	Treska Krusevo 2	4589.25	7511.45	1070	Paleozoic total	Tap	0.100	5.05.1976	17	7.0	18.0	6									
419.0	Aziza cesma	Preglovo	14, Plasnica	Makedonski	Treska Krusevo 2	4591.90	7509.50	605	Paleozoic total	Tap	0.150	5.05.1976	18	9.0	16.0	6									
420.0	Izvoristica	Preglovo	14, Plasnica	Makedonski	Treska Krusevo 2	4591.90	7508.80	580	Paleozoic total	Free flow	100.400	5.05.1976	19	8.5	16.0	6									
421.0	Losa voda	Plasnica	14, Plasnica	Makedonski	Treska Krusevo 2	4589.35	7516.00	1720	Paleozoic total	Free flow	0.290	6.05.1976	15	5.0	13.0	6									
422.0	Musica izvor	Plasnica	14, Plasnica	Makedonski	Treska Krusevo 2	4588.55	7515.90	1710	Paleozoic total	Free flow	0.200	6.05.1976	13	4.0	12.0	6									
423.0	Musica cesma	Plasnica	14, Plasnica	Makedonski	Treska Krusevo 2	4588.20	7515.50	1680	Paleozoic total	Tap	0.200	6.05.1976	12	5.5	15.0	6									
424.0	Mlackine	Plasnica	14, Plasnica	Makedonski	Treska Krusevo 2	4589.80	7514.10	1480	Paleozoic total	Free flow	2.000	6.05.1976	10	6.0	15.0	6									
425.0	Gomo klaince	Plasnica	14, Plasnica	Makedonski	Treska Krusevo 2	4589.75	7512.80	1100	Paleozoic total	Tap	0.800	6.05.1976	9	6.0	14.0	6									
426.0	Dolno klaince	Plasnica	14, Plasnica	Makedonski	Treska Krusevo 2	4590.00	7512.35	942	Paleozoic total	Tap	0.250	6.05.1976	8	6.0	14.0	6									
427.0	Biser voda	Oreovec	12, Makedonski Br	Makedonski	Treska Krusevo 2	4595.10	7511.80	780	Paleozoic total	Free flow	0.080	8.05.1976	12	10.0	19.0	7									
428.0	Selska cesma	Oreovec	12, Makedonski Br	Makedonski	Treska Krusevo 2	4595.00	7511.30	760	Paleozoic total	Tap	0.450	8.05.1976	10	10.0	18.0	7									
429.0	Ubuka	Rusjaci	12, Makedonski Br	Makedonski	Treska Gostivar 4	4596.20	7513.15	1000	Paleozoic total	Free flow	0.160	8.05.1976	15	10.0	21.0	7									
430.0	Kaskalica	Rusjaci	12, Makedonski Br	Makedonski	Treska Gostivar 4	4597.40	7512.80	1000	Paleozoic total	Free flow	0.200	8.05.1976	16	9.5	15.0	7									
431.0	Latovska cesma	Latovo	12, Makedonski Br	Makedonski	Treska Krusevo 2	4589.85	7515.75	1695	Paleozoic total	Free flow	0.250	6.05.1976	16	3.0	11.0	6									
432.0	Krnalo	Latovo	12, Makedonski Br	Makedonski	Treska Krusevo 2	4590.85	7516.40	1430	Paleozoic total	Free flow	7.100	6.05.1976	17	4.5	13.0	5									
433.0	Mackini dupki	Latovo	12, Makedonski Br	Makedonski	Treska Krusevo 2	4590.50	7516.00	1400	Paleozoic total	Free flow	18.900	6.05.1976	16	4.0	13.0	5									
434.0	Selska cesma	Latovo	12, Makedonski Br	Makedonski	Treska Krusevo 2	4593.90	7514.50	575	Paleozoic total	Tap	0.050	8.05.1976	8	8.5	14.0	7									
435.0	Busova cesma	Drenovo	12, Makedonski Br	Makedonski	Treska Krusevo 2	4580.35	7516.45	1690	Paleozoic total	Tap	0.220	6.05.1976	15	4.5	11.5	6									
436.0	Kurea golina	Drenovo	12, Makedonski Br	Makedonski	Treska Krusevo 2	4590.35	7518.15	1160	Paleozoic total	Free flow	2.000	7.05.1976	11	5.5	13.0	6									
437.0	Selska cesma	Drenovo	12, Makedonski Br	Makedonski	Treska Krusevo 2	4591.20	7520.10	900	Paleozoic total	Tap	0.080	7.06.1976	13	9.0	20.0	6									
438.0	Petrov klainec	Drenovo	12, Makedonski Br	Makedonski	Treska Krusevo 2	4591.60	7520.00	860	Paleozoic total	Tap	0.130	7.05.1976	13	7.0	19.0	6									
439.0	Kula	Slansko	12, Makedonski Br	Makedonski	Treska Krusevo 2	4590.95	7518.00	1220	Paleozoic total	Free flow	6.000	8.07.1963	9	7.0	20.0	-	7.05.1976	9	5.5	12.0	7	2.500			
440.0	Rajovska cesma	Slansko	12, Makedonski Br	Makedonski	Treska Krusevo 2	4593.65	7519.70	660	Paleozoic total	Tap	0.330	7.05.1976	14	9.0	17.0	6									
440.1	Govedarnik	Slansko	12, Makedonski Br	Makedonski	Treska Krusevo 2	4593.10	7519.50	800	Paleozoic total	Free flow	2.000	14.04.1977	-	-	-	-									
440.2	Gizo trlo	Slansko	12, Makedonski Br	Makedonski	Treska Krusevo 2	4592.85	7519.90	770	Paleozoic total	Free flow	4.000	14.04.1977	-	-	-	-									
440.3	Tudev miris	Slansko	12, Makedonski Br	Makedonski	Treska Krusevo 2	4592.50	7519.90	770	Paleozoic total	Free flow	4.000	14.04.1977	-	-	-	-									
440.4	Kaptaza	Slansko	12, Makedonski Br	Makedonski	Treska Krusevo 2	4594.70	7520.10	600	Gneiss	Total captured	0.050	-	-	-	-										
441.0	Dolgi laz	Makedonski Br	12, Makedonski Br	Makedonski	Treska Gostivar 4	4597.40	7516.05	1200	Paleozoic total	Tap	1.000	5.07.1963	10	8.0	18.8	-	26.05.1976	11	6.0	12.0	6	1.000			
442.0	Dren-kořito	Makedonski Br	12, Makedonski Br	Makedonski	Treska Gostivar 4	4597.10	7516.25	1090	Paleozoic total	Tap	1.000	5.07.1963	10	9.0	19.8	-	26.05.1976	11	6.0	9.0	6	1.500			
443.0	Cesma	Makedonski Br	12, Makedonski Br	Makedonski	Treska Gostivar 4	4595.85	7523.25	850	Mica schist	Tap	3.000	8.07.1963	9	11.0	23.0	-	27.06.1976	9	10.0	16.0	7	1.070			
444.0	Radomirica	Makedonski Br	12, Makedonski Br	Makedonski	Treska Gostivar 4	4596.15	7519.20	560	Paleozoic total	Free flow	-	31.07.1963													

Table 1(10/63) SPRING INVENTORY

No	Name of spring	Village name	Municipality (new)	Municipality (former)	River basin	Latitude (UTM)	Longitude (UTM)	Altitude (m)	Geology	Present condition	First observation					Second observation					Remarks			
											Yield (l/sec)	Date	Time	Temperature water	Temperature air	pH	Date	Time	Temperature water	Temperature air		pH	Yield (l/sec)	Bacteriological
584.0	Kricova	Grupcin	98, Zelio	Tetovo	Treska Gostivar 2	4647.80	7512.00	640	Paleozoic total	Tap	1.000	3.07.1963	9	14.0	27.5	-	10.07.1975	8	14.0	17.5	8	0.170		
585.0	Ljubibaca	Grupcin	98, Zelio	Tetovo	Treska Gostivar 2	4646.80	7511.30	500	Paleozoic total	Tap	1.000	3.07.1963	7	14.0	25.5	-	10.07.1975	7	14.0	17.0	8	0.050		
586.0	Krol Aramoj	Rogle	98, Zelio	Tetovo	Treska Gostivar 2	4646.70	7515.80	725	Paleozoic total	Tap	1.500	3.07.1963	16	12.0	21.0	-	10.07.1975	12	10.0	19.5	8	0.280		
587.0	Dolno Cerovo	Cerovo	98, Zelio	Tetovo	Treska Gostivar 2	4649.30	7513.85	580	Paleozoic total	Tap	2.500	3.07.1963	11	13.0	28.5	-	10.07.1975	9	11.0	21.0	8	1.650		
588.0	Selska cesma	Bojana	114, Saraj	Skopje	Treska Gostivar 2	4650.70	7516.20	520	Neogene sediments	Tap	0.100	10.09.1975	12	13.0	22.0	7								
589.0	Stara cesma	Bojana	114, Saraj	Skopje	Treska Kacanik 4	4650.85	7516.90	520	Neogene sediments	Tap	0.150	10.09.1975	12	13.0	22.0	7								
590.0	Cesma Raje	Bojana	114, Saraj	Skopje	Treska Gostivar 2	4650.00	7516.40	460	Neogene sediments	Tap	0.100	10.09.1975	13	14.0	22.0	7								
591.0	Guriz	Bojana	114, Saraj	Skopje	Treska Gostivar 2	4649.55	7517.60	430	Neogene sediments	Free flow	1.500	2.07.1963	16	14.0	28.0	-	10.09.1975	14	-	-	-	-		Spring is dry up
592.0	Guriz	Bojana	114, Saraj	Skopje	Treska Gostivar 2	4649.60	7518.95	380	Neogene sediments	Free flow	2.000	10.09.1975	14	14.0	21.0	7							Correct	Correct
593.0	Cesma	Laskarci	114, Saraj	Skopje	Treska Gostivar 2	4647.15	7517.65	500	Paleozoic total	Tap	0.080	11.09.1975	9	14.0	22.0	7								
594.0	Cesma	Laskarci	114, Saraj	Skopje	Treska Gostivar 2	4647.30	7516.55	500	Paleozoic total	Tap	0.020	11.09.1975	9	14.0	22.0	7								
595.0	Djamija	Laskarci	114, Saraj	Skopje	Treska Gostivar 2	4647.60	7517.50	440	Paleozoic total	Tap	0.080	11.09.1975	8	12.0	21.0	7								
596.0	Selska cesma	Raovic	114, Saraj	Skopje	Treska Gostivar 2	4644.30	7518.40	780	Paleozoic total	Tap	0.130	11.09.1975	13	11.0	23.0	7								
597.0	Krujtem	Raovic	114, Saraj	Skopje	Treska Gostivar 2	4644.15	7517.90	740	Paleozoic total	Tap	0.250	11.09.1975	12	10.0	22.0	7								
598.0	Krujtem	Raovic	114, Saraj	Skopje	Treska Gostivar 2	4644.05	7517.70	720	Paleozoic total	Free flow	0.310	11.09.1975	12	10.0	22.0	7								
599.0	Livadi Gat	Panicari	114, Saraj	Skopje	Treska Gostivar 2	4645.00	7516.55	600	Paleozoic total	Tap	0.120	11.09.1975	11	11.0	22.0	7								
600.0	Vrba	Bukovik	114, Saraj	Skopje	Treska Gostivar 2	4645.50	7519.75	600	Paleozoic total	Free flow	0.100	11.09.1975	14	11.0	24.0	7								
601.0	Ujite Dive	Cajlane	114, Saraj	Skopje	Treska Gostivar 2	4645.95	7521.50	590	Paleozoic total	Tap	0.180	18.09.1975	9	10.0	22.0	7								
602.0	Kod redalvare	Cajlane	114, Saraj	Skopje	Treska Gostivar 2	4646.05	7521.65	580	Paleozoic total	Tap	0.120	18.09.1975	9	11.0	22.0	7								
603.0	Cesma	Cajlane	114, Saraj	Skopje	Treska Gostivar 2	4646.65	7521.60	480	Paleozoic total	Tap	0.120	18.09.1975	8	12.0	23.0	7								
604.0	Visina cesma	Cajlane	114, Saraj	Skopje	Treska Gostivar 2	4646.65	7521.10	470	Paleozoic total	Tap	0.130	18.09.1975	10	12.0	23.0	7								
605.0	Goma voda I	Semeniste	114, Saraj	Skopje	Treska Gostivar 2	4647.00	7521.95	480	Neogene sediments	Free flow	0.250	18.09.1975	11	12.0	24.0	7								
606.0	Gorna voda II	Semeniste	114, Saraj	Skopje	Treska Gostivar 2	4646.90	7522.00	480	Neogene sediments	Tap	0.600	18.09.1975	11	12.0	24.0	7								
607.0	Cesma	Amakija	114, Saraj	Skopje	Treska Gostivar 2	4648.10	7522.95	500	Neogene sediments	Tap	0.300	18.09.1975	12	12.0	24.0	7								
608.0	Konjak	Glumovo	114, Saraj	Skopje	Treska Gostivar 2	4648.15	7525.50	300	Alluvium	Tap	1.000	2.07.1963	12	10.5	34.5	-	15.07.1975	8	13.0	19.0	8	0.060		
609.0	Kajnak	Glumovo	114, Saraj	Skopje	Treska Gostivar 2	4648.90	7525.30	290	Neogene sediments	Free flow	0.400	20.08.1975	12	12.0	18.0	7								
610.0	Izvor	Glumovo	114, Saraj	Skopje	Treska Gostivar 2	4648.45	7525.70	280	Alluvium	Tap	1.500	20.08.1975	11	12.0	18.0	7							Correct	Correct
611.0	Kajnak	Glumovo	114, Saraj	Skopje	Treska Gostivar 2	4648.50	7526.00	230	Alluvium	Free flow	0.370	15.08.1975	9	13.0	20.0	8							Uncorrect	Correct
612.0	Cesma (Rampov izv)	Glumovo	114, Saraj	Skopje	Treska Gostivar 2	4648.50	7525.70	220	Alluvium	Tap	0.040	15.07.1975	7	13.0	18.0	8								
613.0	Kajiev izvor	Glumovo	114, Saraj	Skopje	Treska Gostivar 2	4649.30	7526.75	200	Alluvium	Tap	1.500	2.07.1963	12	10.0	34.0	-	18.07.1975	7	15.0	22.0	8	0.240		
614.0	Kajnak (selska cesma)	Orizari (Butel)	118, Gorce Petrov	Skopje	Vardar Kumanovo 3	4657.85	7534.40	330	Diluvium	Tap	2.200	14.08.1975	9	16.0	20.0	7							Uncorrect	Uncorrect
615.0	Delguro	Vlase	116, Cucer-Sandev	Skopje	Vardar Kumanovo 3	4667.95	7528.10	860	Paleozoic total	Free flow	5.000	9.07.1963	18	10.0	22.0	-	5.08.1975	12	11.0	18.0	7	12.000	Uncorrect	Uncorrect
616.0	Sureferas	Vlase	116, Cucer-Sandev	Skopje	Vardar Kumanovo 3	4669.65	7528.90	840	Paleozoic total	Tap	4.000	9.07.1963	9	10.5	20.0	-	5.08.1975	14	11.0	18.0	7	9.000	Correct	Correct
617.0	Krojmal	Gracani	118, Gorce Petrov	Skopje	Vardar Kumanovo 3	4660.45	7524.75	560	Schist	Free flow	3.000	22.08.1975	10	13.0	20.0	7							Uncorrect	Correct
618.0	Samak	Nikistane	118, Gorce Petrov	Skopje	Vardar Kacanik 4	4659.20	7527.05	480	Schist	Free flow	0.150	22.08.1975	8	15.0	19.0	7								
619.0	Guriz	Nikistane	118, Gorce Petrov	Skopje	Vardar Kumanovo 3	4658.00	7528.30	360	Neogene sediments	Tap	4.000	22.08.1975	7	15.0	20.0	7							Uncorrect	Correct
620.0	Bresje	Orman	118, Gorce Petrov	Skopje	Vardar Kumanovo 3	4659.75	7529.65	270	Neogene sediments	Free flow	1.000	8.07.1963	16	15.0	30.0	-	14.08.1975	11	15.0	22.0	8	0.500	Uncorrect	Correct
621.0	Peretski 1	Kuckovo	118, Gorce Petrov	Skopje	Vardar Kacanik 4	4657.35	7526.80	800	Schist	Free flow	1.000	8.07.1963	9	12.0	25.0	-	21.08.1975	9	12.0	18.0	7	0.200		
622.0	Perjat	Kuckovo	118, Gorce Petrov	Skopje	Vardar Kacanik 4	4658.50	7525.35	620	Schist	Tap	3.000	7.07.1963	9	13.0	28.0	-	21.08.1975	10	11.5	18.0	8	1.100	Correct	Correct
623.0	Dimucika	Kuckovo	118, Gorce Petrov	Skopje	Vardar Kacanik 4	4658.50	7524.85	600	Schist	Free flow	2.500	7.07.1963	17	15.0	21.5	8	21.08.1975	15	14.0	19.0	8	0.300		
624.0	Caska	Kuckovo	118, Gorce Petrov	Skopje	Vardar Kacanik 4	4659.80	7523.45	550	Schist	Free flow	2.000	21.08.1975	11	11.0	18.0	9								
625.0	Prskac	Kuckovo	118, Gorce Petrov	Skopje	Vardar Kacanik 4	4659.05	7523.30	540	Schist	Free flow	0.600	21.08.1975	12	15.0	18.0	7								
626.0	Sv. Petka	Kuckovo	118, Gorce Petrov	Skopje	Vardar Kacanik 4	4656.80	7526.50	520	Schist	Total captured	0.200	21.08.1975	8	13.0	18.0	7								
627.0	Peretski 2	Kuckovo	118, Gorce Petrov	Skopje	Vardar Kacanik 4	4657.65	7526.35	520	Schist	Free flow	0.200	21.08.1975	9	12.0	19.0	7								
628.0	Bela zemlja	Vucidol	118, Gorce Petrov	Skopje	Vardar Kumanovo 3	4655.25	7528.05	550	Neogene sediments	Tap	2.500	8.07.1963	18	23.0	25.0	-	14.08.1975	14	15.0	22.0	8	0.100		
629.0	Kisela voda	Vucidol	118, Gorce Petrov	Skopje	Vardar Kumanovo 3	4655.85	7528.70	320	Neogene sediments	Part captured	1.500	8.07.1963	18	15.0	25.0	-	14.08.1975	13	22.0	22.0	8	5.000		
630.0	Miaki	Vucidol	118, Gorce Petrov	Skopje	Vardar Kumanovo 3	4657.40	7529.25	260	Neogene sediments	Free flow	1.000	8.07.1963	17	14.0	29.0	-	14.05.1975	12	15.0	22.0	8	-		Spring is dry up
631.0	Cesma	Gomo Nerezi	119, Karpos	Skopje	Vardar Skopje 1	4647.95	7534.25	620	Paleozoic total	Tap	0.010	22.07.1975	8	13.0	20.0	8								
632.0	Sultan cesma	Gomo Nerezi	119, Karpos	Skopje	Vardar Skopje 1	4648.25	7531.55	600	Paleozoic total	Tap	1.500	30.07.1963	18	19.0	24.0	-	20.07.1975	12	10.0	26.0	8	0.170		
633.0	Selska cesma	Gomo Nerezi	119, Karpos	Skopje	Vardar Skopje 1	4648.45	7531.40	600	Paleozoic total	Tap	0.060	20.07.1975	11	16.0	26.0	8								
634.0	Cesma	Gomo Nerezi	119, Karpos	Skopje	Vardar Skopje 1	4648.50	7531.60	680	Paleozoic total	Tap	0.120	20.07.1975	12	12.0	26.0	8								
635.0	Piv	Gomo Nerezi	119, Karpos	Skopje	Vardar Skopje 1	4648.65	7531.25	540	Paleozoic total	Tap	0.470	20.07.1975	13	11.0	25.0	8								
636.0	Piv	Gomo Nerezi	119, Karpos	Skopje	Vardar Skopje 1	4648.70	7531.40	530	Neogene sediments	Tap	0.090	20.07.1975	13	11.0	25.0	7								
637.0	Piv	Gomo Nerezi	119, Karpos	Skopje	Vardar Skopje 1	4648.75	7531.30	520	Paleozoic total	Free flow	0.090	20.07.1975	14	11.0	26.0	7								
638.0	Selska cesma (Sasa)	Dolno Nerezi	119, Karpos	Skopje	Vardar Skopje 1	4649.00	7531.25	480	Neogene sediments	Tap	0.130	20.07.1975	14	12.0	26.0	7								
639.0	Gomji radunac	Gomjane	116, Cucer-Sandev	Skopje	Vardar Kumanovo 3	4663.25	7531.50	650	Flysch	Free flow	2.500	9.07.1963	7	14.0	27.0	-	5.08.1975	10	12.5	27.0	7	0.200		
640.0	Gomjanska cesma	Gomjane	116, Cucer-Sandev	Skopje	Vardar Kumanovo 3	4663.00	7531.70	580	Neogene sediments	Tap	0.250	21.02.1976	16	10.0	8.0	6								
641.0	Bela voda	Banjane	116, Cucer-Sandev	Skopje	Vardar Kumanovo 3	4666.80	7530.90	1100	Flysch	Free flow	2.300	6.08.1975	12	9.0	20.0	6							Correct	Correct
642.0	Stanlovac																							

