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TITLE: GRADING AND STRUCTURE OF THE ROADS AND THEIR IMPACT ON THE ARRIVAL OF FOREIGN TOURISTS IN MACEDONIA

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ABSTRACT

For the development of tourism in our country of great importance is the road infrastructure. In this research paper will be presented by category of roads: National, Regional and Local. According to the type of road, a review of local roads by municipalities across the state and the arrival of tourists by country of origin in the country.

Keywords: National, regional and local roads, road type, foreign tourists.

1. ROADS AND ROAD CATEGORIES

Object and purpose of the research: as an object of research are roads, their categorization in the Republic of Macedonia, their impact on the development of tourism and the role road infrastructure on the arrival of foreign tourists by statutes in our country.

The purpose of the survey is over: text, tables and statistical data to be thoroughly and scientifically presented: roads, road categorization populated places and the number of foreign tourists by country who arrived in our country.

Methods research: research methods used are geographical methods, text method, information methods, method of field research, cartographic methods, mathematical, statistical, methods and techniques, the method of survey and analysis of the data collected. For the development of tourism in the Republic of Macedonia of great role is road infrastructure. To better present and analyze the state of the roads and the categorization of roads in the Republic of Macedonia, many of which affect the arrival of foreign tourists will use the data from table 1.

Table 1. Roads and categorization of roads in the republic of Macedonia

In kilometres					
Years	2006	2007	2008	2009	2010
TOTAL	13736	13840	13922	13940	13934
Of which asphalt and cobbled roads	7464	7773*	7872	8024	8091
BY CATEGORY OF ROADS					
Trunk	911	911	911	911	911
Asphalt and cobbled roads	826	826	826	826	826
Macadam	-	-	-	-	-
Dirt and designed roads	85	85	85	85	85
Regional	3830	3774	3771	3771	3771
Asphalt and cobbled roads	2873	2834	2834	2842	2842
Macadam	444	444	441	441	441
Dirt and designed roads	513	496	496	488	488
Local	8995	9155	9240	9258	9252
Asphalt and cobbled roads	3765	4112	4211	4355	4423
Macadam	849	794	777	786	763
Dirt and designed roads	4381	4249	4252	4117	4066
ACCORDING TO THE TYPE OF ROAD SURFACE					
Asphalt and cobbled roads	7464	7773	7872	8024	8091
Of which motorways	216	221	237	251	251
Asphalt	7279	7554	7643	7784	7873
Cobbled	185	219	229	240	218
Macadam	1293	1238	1218	1227	1204
Dirt and designed roads	4979	4829	4832	4689	4639
International "E" roads	548	553	553	553	553
Bridges-Total	1578	1571	1571	1545	1566
Length in meters-total	49582	37511	37502	37211	37291
Trunk roads	468	467	467	467	467
Length in meters	21850	21831	21831	21831	21831
Regional roads	637	627	627	627	627
Length in meters	17648	5849	5849	5849	5849
Local roads	473	477	477	451	472
Length in meters	9787	9831	9822	9531	9611
Permanent	434	437	437	417	431
Length in meters	9125	9172	9163	8911	8946
Temporary	39	40	40	34	41
Length in meters	662	659	659	620	665

1) Data are collected from the agency of State Roads, Statistical Review 8.4.11.03/700

Analysis of the date: According to the table we see that 2010 the total road network in the Republic of Macedonia was 13934km. According to the categorization of roads in the Republic of Macedonia in 2010, the length of motorways is 911km Regional 3771km and local 9552km.

According to the type of road under the asphalt pavement of the republic of Macedonia in 2010 has 8091km on motorways 251km International E roads 553km roads 467km regional roads 627km off local roads 472km.

Also for the development of tourism in the Republic of Macedonia major role have local roads. To see in more detail what the structure of the local roads network is in the Republic of Macedonia, we will use the data from table 2.

Table 2 Review of local road in the Republic of Macedonia condition 31.12.2010

In kilometers							
	total	Asphalt and cobbled roads			Macadam	Dirt	Designed roads
		all	asphalt	cobbled			
REPUBLIC OF MACEDONIA	9252	4420	4267	156	763	2760	1306
Skopje	532	314	312	2	54	83	81
Aerodrome	4	4	4	-	-	-	-
Butel	223	138	137	1	43	23	19
Gazi Baba	58	35	35	-	5	8	10
Gjorche Petrov	88	24	24	-	5	27	32
Karpoch	13	13	12	1	-	-	-
Kisela Boda	44	42	42	-	1	1	-
Saraj	101	58	58	-	-	23	20
Centar	-	-	-	-	-	-	-
Chair	-	-	-	-	-	-	-
Shuto Orizari	-	-	-	-	-	1	-
Arachinovo	42	20	20	-	-	22	-
Berovo	65	21	21	-	8	34	2
Bitola	145	134	134	-	2	9	-
Bogdanci	33	17	17	-	-	12	4
Bogovinje	177	103	75	28	15	30	29
Bosilovo	107	36	36	-	-	71	-
Brvenitsa	107	64	47	17	26	17	-
Valandovo	98	45	45	-	12	21	20
Vasilevo	124	35	35	-	2	9	78
Vevchani	18	5	2	3	7	6	-
Veles	133	35	35	-	13	15	70
Vinica	118	42	42	-	-	51	25
Vraneshtica	50	32	32	-	12	6	-
Vrapchiste	128	67	60	7	40	18	3
Gevgelija	65	30	30	-	28	7	-
Gostivar	258	246	243	3	3	9	-
Gradsko	29	22	22	-	7	-	-
Debar	140	76	53	23	32	26	6
Debarca	114	90	90	-	10	6	8
Delcevo	143	63	62	1	4	70	6
Demir Kapija	40	12	12	-	-	28	-
Demir Hisar	160	83	83	-	-	66	11
Dojran	22	11	11	-	-	11	-
Dolneni	110	54	54	-	16	21	19
Drugovo	67	60	60	-	4	3	-
Zhelino	105	74	73	1	9	7	15
Zajas	61	43	37	6	2	6	10
Zelenikovo	84	25	25	-	-	45	14
Zrnovci	67	11	11	-	-	55	1
Ilinden	271	271	271	-	-	-	-
Jagunovce	80	38	35	3	28	13	1

Table 2(continued)

In kilometers							
	total	Asphalt and cobbled roads			Macadam	Dirt	Designed roads
		all	asphalt	cobbled			
Kavadarci	295	101	101	-	12	150	32
Karbinci	108	29	29	-	1	47	31
Kichevo	13	11	11	-	2	-	-
Konche	158	25	25	-	-	59	74
Kochani	164	49	49	-	4	101	10
Kratovo	122	70	68	2	-	52	-
Kriva Palanka	170	83	83	-	-	79	8
Krivogastani	20	10	10	-	1	2	7
Krusevo	80	66	66	-	-	14	-
Kumanovo	128	77	77	-	17	34	-
Lipkovo	193	105	105	-	27	47	14
Lozovo	133	13	13	-	13	107	-
Mavrovo and Rostusha	186	58	57	1	19	57	52
Makedonska kamenica	113	56	56	-	-	56	1
Makedonski brod	201	77	77	-	18	90	16
Mogila	96	44	44	-	1	43	8
Negotino	111	29	27	2	6	65	11
Novaci	158	23	23	-	18	93	24
Novo selo	115	17	17	-	-	65	33
Oslomej	99	36	32	4	2	20	41
Ohrid	163	95	95	-	32	18	18
Petrovec	57	39	39	-	6	-	12
Pehchevo	105	30	30	-	-	1	74
Plasnica	23	6	6	-	5	10	2
Prilep	270	72	72	-	65	95	38
Probitip	78	45	45	-	4	15	14
Radovis	134	37	36	1	9	48	40
Rankovci	127	18	18	-	6	27	76
Resen	142	88	88	-	8	35	11
Rosoman	98	44	44	-	16	35	3
Sveti Nikole	108	51	51	-	8	32	17
Sopiste	58	48	48	-	2	3	5
Staro Nagorichane	218	64	64	-	74	80	-
Struga	254	108	106	2	10	110	26
Strumica	113	20	20	-	-	51	42
Tearce	137	56	31	25	5	34	42
Tetovo	166	157	140	17	2	7	-
Centar Zupa	54	32	31	1	7	15	-
Chaska	130	49	49	-	6	65	10
Chesinovo-Oblesevo	72	34	34	-	-	38	-
Chucher-Sandevo	124	72	66	6	7	45	-
Stip	150	33	33	-	-	34	83

Statistical review 8.4.11.03/700

Analysis of the data: According to data from the table we see that total length of the local road network in the Republic of Macedonia is 9252km, from which asphalt 4257km cube 156km tarmac 763km Earth 2760km and unaveraged 1306km. According to the table we see that the great length of local roads has Skopje Kavadarci 532km 295km and Ilinden 271km. While the longest local road network under the asphalt have Skopje Ilinden 312km 271km and Gostivar 243km.

Finally we can safely conclude that the arrival of foreign tourists in the Republic of Macedonia major role have roads and their quality substrate. To see that tourists and which countries mostly come in our country, we will use the data from Table 3.

Table 3. Review the arrival of tourists, according to the country of origin in the Republic of Macedonia in the period from 2006-2010 year.

Year	2006	2007	2008	2009	2010
Toatal	499473	536212	605320	587770	586241
DOMESTIC TOURIST	297116	306132	350363	328566	324545
FOREIGN TOURISTS	202357	230080	254957	259204	261696
Astria	3490	5186	5315	6437	6143
Albania	106188	17573	19314	19757	17110
Belgium	1414	1748	1711	1839	1848
Belarus	127	114	253	178	101
Bosnia and Hercegovina	4240	4887	4443	4672	5619
Bulgaria	17421	18901	21922	23619	15513
Great Britain	5318	5789	7690	5309	5647
Germany	7659	8840	9655	9795	9573
Greece	30835	28618	21060	22253	26843
Denmark	1018	1168	1748	1338	1273
Estonia	-	-	-	-	176
Ireland	991	1011	792	610	745
Iceland	137	115	230	161	164
Italy	4651	5123	5674	6050	6181
Cyprus	-	-	-	-	194
Kosovo	-	-	-	-	9480
Latvia	-	-	-	-	239
Lithuania	-	-	-	-	251
Luxembourg	-	-	-	-	53
Malta	-	-	-	-	23
Norway	1277	1263	1920	1618	1503
Poland	1332	1728	2434	5827	6182
Portugal	511	611	552	601	655
Romania	1662	2137	2440	2677	3351
Russian Federation	1998	1523	2091	1872	2848
Slovakia	636	1496	811	1140	1082
Slovenia	9228	13046	13159	13970	12606
Serbia and Montenegro	38208	44661	-	-	-
Serbia	-	-	45144	38744	35840
Turkey	7804	8907	15561	16962	20047
Ukraine	641	1079	1072	772	981
Hungary	1835	3037	3254	3365	3492
Finland	885	1018	1088	1220	1233
France	3133	3594	4278	4914	4858
Netherlands	3809	3705	5606	4988	6612
Croatia	8817	12326	12302	12519	12791
Montenegro	-	-	2761	2653	4180
Czech Republic	2108	1990	2406	2583	2423
Switzerland	1924	1939	2048	1848	2153
Sweden	1937	1845	2311	2355	2530
Spain	1154	1464	1710	2091	1711
Other European countries	2961	4114	7045	9486	4274
South Africa	-	-	-	-	32
Other African countries	-	-	-	-	196
Canada	906	969	1160	1257	1247
USA	8275	7978	8472	7826	7655
Other North American countries	-	-	-	-	451
Brazil	-	-	-	-	142
Other Countries of South and Middle America	-	-	-	-	229
Israel	1170	1809	6532	6110	2885
Japan	1212	1861	1236	1268	1621
China	-	-	-	-	853
Korea	-	-	-	-	686
Other Asian countries	-	-	-	-	2015
Australia	2014	2755	3165	2784	3967
New Zealand	264	183	273	203	207
Other country of Oceania	-	-	-	-	982
Other non-European country	3167	3969	4529	5533	-

1) Kosovo / UNSCR 1244, Statistical review 8.4.11.01./681

Analysis of the data: According to the table we see that in 2010 Macedonia had 586,241 total tourists, of which 324,545 are domestic tourists and 261,696 foreign tourists. According to the data from the table for foreign tourists by country of origin by 2010, most

of them come from the following countries: Serbia 35 840 Greece 26 843 Albania 17,110 tourists. USA 7655, from other European countries 4274, Australia 3967, by other Asian countries in 2015, Israel 2885, Japan 1621, etc.

According to the data from the table for foreign tourists by country of origin is the largest number of tourists from neighboring countries.

Suggestions:

The length of national, regional and local roads have to be increased and updates in the Republic of Macedonia under urgently to 2015 to follow the trend of competition in the neighboring countries;

The road network by type of road with asphalt have much more to increase especially highways, international E' roads, national, regional and local roads in all municipalities in the Republic of Macedonia in the period to 2015.

Review of the 2010 local road network in the Republic of Macedonia conclude that require rapid modernization in the period up to 2015, all local roads in the state because it's still a large number of macadam, earth and unaveraged roads that negatively influence the development of tourism and attracting foreign tourists to our country;

CONCLUSION

The arrival of foreign tourists in the period 2006 -- 2010, according to the country of origin in the Republic of Macedonia are mostly from neighboring Balkan states Serbia, Greece and Albania;

In the period up to 2015/2016, the Republic of Macedonia must urgently be retrofitted Corridors 8 and 10 if he wants to keep the status of the transit country for foreign tourists and transport goods especially Albania, Greece and Bulgaria.

If you do not take the abovementioned measures Macedonia for the period 2015/2016 year can afford to lose the status of a transit country for foreign tourists and the transport of goods to neighboring countries.

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