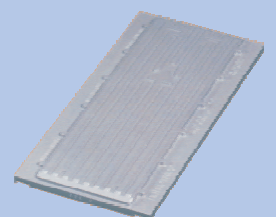




**digest**

**TRAFFIC COUNTING  
ON THE ROADWAYS  
OF CROATIA IN 2017**

**ZAGREB, 2018**



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Legal heir to the Traffic Science Institute. Zagreb

## **TRAFFIC COUNTING ON THE ROADWAYS OF CROATIA IN 2017 – digest**

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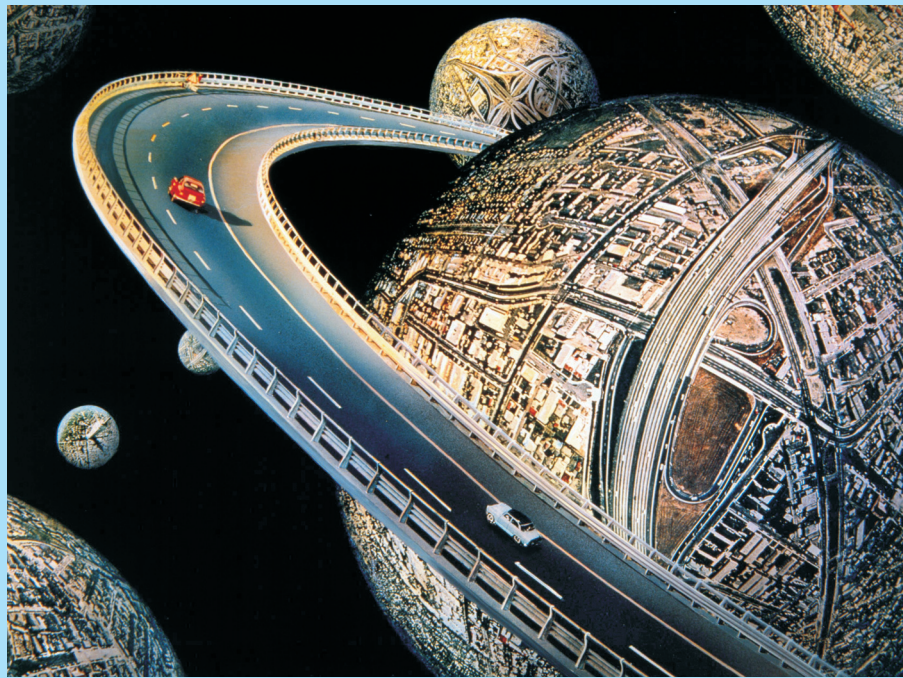
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# INTRODUCTION

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## 1. INTRODUCTION

"Traffic Counting on the Roadways of Croatia in 2017" contains selected results of traffic counting on Croatian roads during the year 2017. Systematic traffic monitoring and data collection on the roadways of the Republic of Croatia began in 1971. A traffic counting program that was in the year 2017 implemented for the forty-seventh time in succession, served to collect essential data about the traffic flow characteristics. This created a basis for publishing "Traffic Counting on the Roadways of Croatia in 2017", where basic, and selected information obtained through this program, as well as the results of a subsequent data analysis, were comprehensively brought out.

The importance of continuous creation of a traffic information database is manifold. Analysis of the data collected through the counts, and afterwards thoroughly processed, enables grasping the basics of roadway traffic. These concepts are indispensable for conceiving and carrying out an efficient traffic policy, and knowledge acquired this way is absolutely necessary for putting in place a sensible road management program. A rational and efficacious management, comprising research, planning, design, construction, rebuilding, and maintenance of the roads would be, otherwise, nowadays virtually impossible.

The objectives of traffic counting are recognized as systematic collection of data on traffic volume and patterns, together with temporal, i.e. daily, monthly, and yearly, variations cross the whole roadway network. A special emphasis is put on the roads of international significance, since the indicated targets conform to the Recommendations of the Interior traffic Committee of the Economic Commission for Europe of the UN. Therefore, certain results of the traffic counts performed in Croatia during 2017 will be, besides domestic users, delivered to the users outside the country.

Traffic counting objectives determine the contents of the publication and its digest. Therefore, published

data has been presented by road classes and by types of data collection. Additionally, the data on vehicles transported by Croatian domestic ferry lines is presented. Chosen results of the traffic counting analysis for the year 2017 have been given both analytically and graphically. Likewise, the publication and its digest encompass descriptions and central points of the data acquisition and the subsequent analysis.

Ever since the start of a systematic traffic counting process in Croatia, in 1971, its continuous development has been under way. The research portion of that work has been contributing on its own, particularly regarding the methodological, technical, and technological components. The traffic counting system was gradually being enhanced and enriched according to a plan. Presentation of the results of a respective data analysis accompanied that development as well. In the year 2017, dedicated report targeting free flow vehicle speeds on the State roads was produced for the fifth time, based on previously established methodology. This time this report included data for 350 counting posts, more than ever before.

A regular annual publication containing traffic data, as well as its companion digest, ensures continuity regarding the data presentation, considering its comparability with data discussed in a number of previous publications. Regarding the periodicity of the publication and its digest, and in order to make it simple for a reader to work through it, the fore-mentioned comparability with the earlier published data has been retained. Therefore, this digest has preserved its obvious contents and looks, this time consisting of six chapters.

Following *the first chapter "Introduction"*, the *second chapter* goes on to present historical review of traffic counting and describe the basic characteristics of the methodology of data collection, processing and presentation, under the title of "**Traffic Counting System on the Roadways of Croatia**". That

description is given according to the methods of counting currently in use inside the country. These methods include automatic counts, continuous and periodical, together with toll-paid vehicle counts. Moreover, similar to the past publications, this chapter contains the basic facts on the roadway infrastructure (length of classified roads), the road vehicles (number of registered vehicles by categories), and the state of security of the road traffic (number of dead and injured persons, along with the count of accidents). A short, generalized, analysis of the traffic counting results for the year 2017 is given at the end of the chapter.

*The third chapter* bears the title "**AADT and ASDT with General Data on Count Sites and Sections**". The calculated AADT and ASDT values at particular counting sites represent its basic contents, and the values of AADT and ASDT are given separately for State roads, motorways, county and local roads. Moreover, for each of the count locations other usual data is given. Data for the specific count sections is presented as well, with the method of counting explicitly denoted.

*The fourth chapter* "**State Roads and Motorways: Toll-paid Traffic Counting**" includes selected results obtained through data processing, where the numbers have been collected at locations indicated therein. This method of counting is applied at toll bars - all of them located on motorways, except for toll stations "Krk Bridge" on the State Road 102 and "Tunnel Sveti Ilija" on the State Road 76.

*The fifth chapter* is named "**Ferry Lines Vehicle Transportation**" and it deals with quantity of road vehicles transported by sea ferry lines between mainland and islands.

The final, *sixth chapter* is named "**Appendix**". Apart from giving a clue as to the acronyms and terms used in this digest, they enclose two cartographic displays. The first shows the count locations topography in 2017, while the second of them reveals the traffic volume at chosen road directions over the year.

To alleviate the understanding of methodological peculiarities and the like, the opening parts of each chapter hold appropriate explanations.

# TRAFFIC COUNTING SYSTEM ON THE ROADWAYS OF CROATIA



## 2. TRAFFIC COUNTING SYSTEM ON THE ROADWAYS OF CROATIA

### 2.1. HISTORICAL REVIEW

Systematic examination of the traffic characteristics at Croatian roads began in 1971, with introduction of a road traffic counting program. From that year on, the findings about roadway traffic were augmenting by continuously increasing the quality and quantity of data collection. We emphasize that all the way from 1971 until now the counting has been performed in compliance with the methodology of data collection and processing, brought forth in Recommendations of the Committee for Interior Traffic of the Economic Commission for Europe.

It should be emphasized here that in the beginning of the systematic traffic counting mostly international E-roads were included. As needs and possibilities were mounting, the scope of the counts was accordingly expanding. At first, count locations were set predominantly at the State roadways, but last years saw considerable increase in number of counting sites at the county and local roads.

The oldest way of counting, the so-called "manual" traffic counting, used to be the only method of counting in early days of systematic traffic counting. During the year of 1973, after the first Croatian four-lane motorway Lučko – Karlovac was opened, toll-paid vehicle counting was introduced. A more substantial expansion of the traffic counting system was accomplished in 1978 with launching of the stationary automatic traffic counters, inaugurating modern *automatic* traffic counting technologies. By introducing these automatic counters, a continuous counting program was (had in view) to be realized. Upon acquisition, in 1997, of the portable automatic counters, designed for periodic counting, they started to be used as well. This way periodical automatic traffic counting has been introduced inside the country, too. Replacement of the manual traffic counting program by periodical automatic counts was started according to a plan in 1998.

One of the more important novelties in the traffic counting system development here in Croatia emerged in 1997, when portable automatic counters intended for periodical counts were included. The use of a more recent generation of automatic traffic recorders for permanent counts was initiated in 1998, when 15 such counters were installed. These counters were capable of classifying the counted vehicles according to their lengths. Three stationary automatic counters of the most recent generation were installed at the State roadways in the first half of 1999. Among others features, those counters can order the counted vehicles by classes and subclasses, while simultaneously enabling wireless remote connectivity. Therefore, after the counters were installed, remote two-way GSM communication between the counters and the computers in the company *PROMETIS* was experimentally tested.

The first annual publication with systematically collected and processed data about the traffic volume counts, with the data for traffic counted through 1971, was published in 1972. Numerous and different improvements in the traffic counting system contributed to successive additions to the contents of regular annual issues. Both quantity and quality of the published data improved all along. Similar to the equivalent, regular or periodic, publications containing selected data, diverse analytical needs called for comparability of data in the series over the years. Paying attention to some well-founded user recommendations, which are always welcome, also bears importance for the overall contents.

Besides the data published here, numerous data and reports on the counted traffic are delivered to other users. In that fashion certain, by special data processing obtained, results and related reports (e.g. about traffic on E-roads, also about road traffic at all roads State-wide) are passed to the Croatian Bureau of Statistics. Starting with 1997, certain data regarding E-roads is handed over to the TEM (Trans-European Motorway North-South) PCO (Project

Central Office), and likewise the wanted Croatian traffic data is being delivered to the ECMT.

We are proceeding here with describing the basic setups of the methodology of collection, processing, analysis and presentation of results of the traffic counted at the Croatian roadways, with emphasis on the setups for traffic counting performed during the last year.

## 2.2. METHODOLOGY OF DATA COLLECTION

A traffic counting plan is brought before the start of a calendar year by the "Hrvatske ceste d.o.o." (Croatian Roads Ltd.). Therefore, in the Republic of Croatia traffic counting was performed at:

- State roads;
- tollgates at toll roads;
- county roads;
- local roads;
- ferry terminals.

The methods of traffic counting (collecting data on quantity and structure at given count locations), used during the year 2017, were as follows:

- **automatic counts by stationary counters installed at the State roads, county roads and local roads – permanent (continuous) counting;**
- **automatic counts by portable counters at the State roads, county roads and local roads – periodical counting at representative time intervals;**
- **toll counts at tollways, the Krk Bridge, tunnel "Sveti Ilija" and at ferry terminals.**

A precondition to obtain statistically worth results is rational use of recorders assigned for periodical automatic counting, in representative time samples and with a special, for this purpose developed, data analysis. Periodical counts are, because of their advantages, invaluable if insight into traffic volumes at road sections left out of the permanent automatic counts is wanted. To that end it is used in many countries.

The publication "Traffic counting on the roadways of Croatia in 2017", contains processed data from **854**

count posts. Additionally there are traffic data for **74** motorway sections, and associated virtual counting posts, derived from data collected on stations of closed toll systems. Count locations taken into consideration, with respect to their distribution by road status and count method, were:

- *on State roads and motorways, 510, of which 238 refer to traffic counted by continuous automatic counting, 173 through periodical automatic counting and 99 by way of tolls;*
- *derived traffic data for 74 sections on toll-paid road structures from data collected on counting sites – toll stations belonging to closed toll systems;*
- *on county roads, 246; of which 205 refer to traffic counted by continuous automatic counting and 41 through periodical automatic counting;*
- *on local and unclassified roads, 74; of which 27 refer to traffic counted by continuous automatic counting and 47 through periodical automatic counting;*
- *toll-paid counting at ferry lines was carried through at 24 locations (ferry terminals).*

### 2.2.1. Periodical automatic traffic counting

In 1997, it was the first time the notion of 'periodical traffic counting' was introduced in Croatia (the study "Installation of a new traffic counting system in the Republic of Croatia", PROMETIS d.o.o.). Two methods of periodical counting are comprehended under that notion: the first is called manual, the second is known as periodical automatic traffic counting. The latter emerged as entirely new in Croatian traffic counting system, as much for the yearly schedule, as for the way of realization. It is performed with portable, automatic counters, at several occasions, every time through seven days. Of utmost importance is determination of the timetable, scheduling which weeks of the year, i.e. what combination of the weeks, should be used in counting. This is determinable only via simulations done on a relatively large sample, consisting of the files acquired by continuous automatic counting, through a period at our disposal, usually in consecutive three or more years. When it comes to choosing the weeks of the year, it is compulsory to set certain criteria. They are set up so that the relative estimation error of average daily traffic over a year (acronym AADT),

and average daily traffic over a summer (acronym ASDT), do not leap above 10% of its absolute value, at the given level of significance. Besides that, the timetable is constrained by the requirement that this way of counting should be utilized in that part of the year when weather conditions bear a relatively marginal influence, in order to reduce down to the least possible extent the exposure of recorders to a possible damage, making the best use of available equipment and work force. Memory limitations of these recorders are also taken into account, their restrictions regarding energy supplies as well.

A simulation done on the sample compiled from the files of continuous automatic traffic counting data, originating from different selected periods, and with distinct possibilities of combining weeks and weekdays of the week of a suitable part of the year, has revealed how to set up a schedule (telling which weeks could be combined) for periodical traffic counting. Several requirements were acknowledged there, as: (a) in what part of the year the counts should be taken in order to avoid inconveniences resulting from the weather conditions; (b) what is the least interruption period ensured between successive counts, to execute all the necessary steps for transfer of data from the counter, and preparing and setting the same counters at a new task; (c) which precision of estimates to impose, etc. At *PROMETIS d.o.o.*, some special methods and techniques for processing data collected with these counters have been examined and developed.

For periodical automatic counts the portable automatic counters of the American company Numerics have been used. The counters were programmed for seven-day unbroken operation (from Sunday 00:00 until next Saturday at 24:00 hours). They were also programmed to assort the vehicles into five categories with respect to length: (1) vehicles not longer than 5.5 m, (2) over 5.5 m up to 9.1 m, (3) over 9.1 m up to 12.2 m, (4) over 12.2 m up to 16.5, and (5) above 16.5 m. Furthermore, such counters record temperatures and the state of the pavement (dry or wet), also being programmable for classifying vehicles by categories of speed at the counter. Moreover, the counters were memorizing the required information hour by hour, according to the set conditions, for seven consecutive weekdays.

### **2.2.2. Continuous automatic traffic counting**

In continuous automatic traffic counting programs stationary automatic traffic recorders, installed at roadways, are in use. Various generations and varieties of these counters are used. The essential point at all of them is the ability to record traffic volumes at preset time intervals (cumulatively by hours), by the road tracks and vehicle headways, continually during 24 hours a day, all through the year. In order to collect as much data as possible, a continuous maintenance is required.

Continuous automatic traffic counting in Croatia is conducted with the pavement-based, inductance loop counters, which react to the passage of metallic mass across. Nowadays generations of counters discriminate between the given classes and subclasses of vehicles.

Owing to the modes of operation and added features of the utilized counters, periodic field inspections of the counters are performed. Immediately after the new recorders were introduced in 1998, the need for autonomous solar energy supply was satisfied for the first time. At the most recent counters a two-way GSM communication through modems and appropriate computer programs, emulating remote data transfer, has been set and tested. This enables an instantaneous insight into intensity and structure of traffic at a data collection site, and a control of the correct operation and status of the instrument. The SMS delivery from a count location has also been solved in some cases, should these situations arise (for instance, delivering a message about the loop breakdown, or the case opening, and similar).

Automatic recorders destined for continuous automatic traffic counting are relatively high-priced, limited in number. Therefore, they are deployed to include the once selected most important sections, at former "major roads" ("magistralne ceste"). Stationary counters of a newer generation were installed in the beginning of 1998 (15 counters), and positioned in agreement with the adopted distribution of data collection sites of continuous automatic traffic counting, alongside the road network.

### 2.2.3. Toll-paid traffic counting

Building and maintenance of contemporary roadways (motorways, bridges and tunnels) ask for substantial financial investments. Accordingly, a toll payment is demanded for their use.

There is a peculiarity of traffic counting at the motorways, the *Krk Bridge and tunnel "Sveti Ilija"*, lying in the fact that a vehicle passage is recorded on a data card, where the time, the vehicle class by the toll category, and the points of entry and/or exit from the toll roadway are included. Therefore, this type of traffic counting at toll-paid roadways represents a special method of traffic counting. Vehicles using these toll-paid roadways are divided in five groups that do not conform to the UN/ECE Recommendations.

Ferry traffic takes place at domestic and international ferry lines. In this publication only the transportation data from the domestic ferry lines are presented. The counts of the vehicles transported at those lines render a particular kind of toll-paid counting. Data on the transported vehicles are carried for each line through a certain period, by vehicle classes. At domestic ferry lines, traffic counts are taken by the servicing companies.

### 2.2.4. Sources of collected data in 2017

As in the previously issued publications, traffic data collected at the roadways and ferry lines inside the Republic of Croatia was obtained from a few different sources. These were, for data collection in 2017, by type:

- *traffic data obtained with stationary counters belonging to "Croatian Roads Ltd." – by "PROMETIS d.o.o.";*
- *traffic data obtained with portable automatic counters – by "PROMETIS d.o.o.";*
- *traffic data on the motorways: part of A1 (intersection Bosiljevo 2 – Karamatići), A3, A4, A5, A10, A11 and the tunnel "Sveti Ilija" – by "Croatian Motorways Ltd.";*
- *traffic data on the part of the motorway A1 (Zagreb – Bosiljevo 2), motorway A6, TS "Rupa" (A7) and the Krk Bridge – by "Rijeka - Zagreb Motorway Ltd.";*

- *traffic data on the motorway A2 – by "Zagreb – Macelj Motorway Ltd.";*
- *traffic data for the motorways A8 (Kanfanar - Učka) and A9 (Umag – Pula) – by "BINA-Istra";*
- *essential vehicle transportation data at domestic ferry lines – by the Agency for the Coastal Maritime Traffic Lines and the companies "Jadrolinija" and "Rapska plovidba"*

Within 2017 the collected fund of disposable data collected through continuous automatic counts amounted to around 99%.

Starting with 1998, periodical automatic counting through portable recorders has systematically been introduced. With the year 2000 inclusive, this counting method fully replaced manual counts, in compliance with a three-year plan. Since in each of those years about one third of manual traffic count posts were replaced, in 2001 a new cycle was started. At all count sites periodical traffic counting was performed according to one of the predetermined schedules (single, double, and triple counts). Upon programming the portable Nu-metrics NC-200, NC-300 and NC-350 automatic counters, the counted traffic, expressed in vehicle numbers, is structured in the same fashion as with continuous automatic counts taken with the more recent traffic recorders.

## 2.3. METHODOLOGY OF DATA PROCESSING AND PRESENTATION OF RESULTS

Data processing, and presentation of results of the analysis, is based on a specially developed methodology, by which the procedures involved in working on and applying the supporting software have been included. It incorporates all other procedures as well, which account for input procedures, reliability checks, corrections and preparations for data analysis, file creations, data processing and analyses, and textual, tabular and graphical production and presentation of the results in the form of a yearly publication and its digest, accompanied with a study containing previous ASDT data.

A constant development of the information technology brings on along a continuous upgrade of

methodology. That development is accompanied by the staff training, conforming to the user requirements. That way, in this respect, high standards have been reached at the present time. At this juncture it is particularly important to emphasize how in this manner a rich databank for the period longer than twenty five years has been created, in particular from the automatic counters, which provides opportunity for variety of investigations, as much in the area of methodology itself, as in working on predictive models, traffic trends, and similar.

### 2.3.1. Data processing

Collected traffic data is processed in several phases. The methods used for data collection influence the way it is processed. Basically, data processing starts with controlling and verifying the source data.

A strong influence on the method and procedures used in data processing, as well as in development of methodology, is exerted by the information technology. In the span from the start of processing data collected by traffic counting until 1987, after a multiple "purification", the collected data were stored on paper and magnetic tapes. After 1987, the data is stored on convenient electronic media. At this, the source data is kept in two versions, "impure" and "purified", as the result of multiple checkouts and corrections of the original, raw data.

All data, be it raw or pure, is organized by files. So, for example, a periodical traffic count file contains the files of all the sites of periodical counting. Moreover, a file for a single counting site contains sub-files, if every count is considered as a file on its own, etc. In similar fashion, other files of periodical traffic counting are organized. In continuous automatic traffic counting, a complete file consists of the component files of all automatic counting sites in a year. The files and certain results of data processing concerning the toll-paid vehicle counts, at roadways and ferry lines, are similarly organized.

For each data processing method, corresponding to a procedure for computing AADT and ASDT, there is a characteristic, counterpart traffic counting method.

The procedure of processing continuous automatic traffic counts data is based on the assumption that

the counting encompasses all days or all hours of a year, respectively, which renders the deviations minute. On the grounds of the analyses of temporal series applied onto those counts, in cases when data for one driving direction was missing, it has been found the data can be replaced on the basis of relationships between the directions, established in a former period.

Accordingly, when a complete coverage is reached through the counting, the AADT and ASDT are computed as the arithmetic mean of traffic, counted in the respective period. However, such an approach, if data is partly missing, which actually often happens, becomes downright questionable.

When data is missing for a certain site of automatic traffic counting, which can cast ambiguity upon the computed AADT and ASDT (as arithmetic means for the corresponding counted traffic), the estimate is obtained using the intricate statistical methods.

Data processing for tollways is based on a special procedure adapted for that method of collection and arrangement of data, as well as on a particular method of presentation of the results.

### 2.3.2. Presentation of the results of data processing

The method of presentation of the results, and its organizing, was in the past all the time readjusted to the user's needs, while ensuring continuity of the basic principles in order to provide an easier orientation for the user.

This publication was prepared heedfully to preserve the comparability of data in the yearly series.

Besides the tabular and graphical presentation of the AADT and ASDT structure in different matrix varieties, and cartographic variations, there are also geographical presentations of the traffic count posts and volumes across the roadway network. In particular, a graphical survey of the daily traffic changes, by count posts, is to be noted.

All the data processing results are not brought out in the annual publication, because of an assumption that all users would not be interested. Instead, they are delivered in the form of tables, graphs, or as a

**Table 2.1. Structure of the Croatian road network in 2017**

Classified Roads (km)				
Total	State Roads	County Roads	Local Roads	Motorways
26.822,8	7.129,6	9.486,7	8.787,0	1.419,5*

Source : "Official Gazette of the Republic of Croatia" 103/2017

\* This number includes planned, not constructed motorways.

By the end of the year 2017 Croatia had close to 1.285 km of constructed motorways, PROMETIS.

separate brochure with selected results, by requests, most often of the "Croatian Roads Ltd."

Unpublished data collected by periodical automatic counts are:

- traffic by day, for each count location, with traffic of the real vehicles by hours and directions
- structure of daily, nightly and average annual, 24-hour traffic for each count location with the corresponding means, by certain vehicle groups;
- ADT (24-hour) by count days, by count locations and directions;
- composition of vehicles by length, by count hours, by count locations and directions;
- average temperatures of the pavement, by count hours.

counts can, if the occasion requires, be presented as:

- average hourly traffic for certain periods of year, and peak hour traffic, by count locations and directions;
- ADT (24-hour) by count weekdays, by count locations and directions;
- ADT (24-hour) for working days, Saturdays, Sundays and holidays, by count locations and directions;
- traffic distribution, at selected hours with heaviest hourly traffic, by count hours;
- traffic per each count hour, and maximum hourly traffic per each count day, by count locations and directions;
- structure of daily and nightly traffic.

Unpublished data collected by continuous automatic

**Table 2.2. Structure of the registered road motor vehicles and articulated vehicles in Croatia in the period from 2011 to 2017**

Vehicle Class	Year						
	2011.	2012.	2013.	2014.	2015.	2016.	2017.
Mopeds	112.166	98.975	96.471	93.410	90.069	87.507	85.121
Motorcycles	62.876	58.006	58.311	59.643	61.208	65.366	69.148
Passenger cars	1.518.278	1.445.220	1.448.299	1.474.495	1.499.802	1.552.904	1.596.087
Buses	4.841	4.655	4.789	5.040	5.276	5.513	5.698
Freight Vehicles and Work Vehicles	154.884	141.567	141.491	143.660	149.006	...	...
Lorries	...	...	...	...	...	146.230	156.724
Road tractors	...	...	...	...	...	10.443	11.334
Special purpose vehicles	...	...	...	...	...	12.083	12.824
Agricultural tractors	107.074	106.436	110.360	112.941	113.588	116.010	119.191
Work machines	7.380	7.086	7.789	8.304	8.616	...	...
Articulated vehicles	33.434	31.221	33.260	35.273	36.957	...	...
Trailers	...	...	...	...	...	27.367	29.105
Semi-trailers	...	...	...	...	...	11.927	12.927
Quadricycles	1.906	1.796	1.860	2.045	2.161	...	...
<b>Total, Without Articulated Veh.</b>	<b>1.969.405</b>	<b>1.863.741</b>	<b>1.869.370</b>	<b>1.899.538</b>	<b>1.966.683</b>	<b>1.996.056</b>	<b>2.056.127</b>

Source: Ministry of Internal Affairs of the Republic of Croatia, Central Bureau of Statistics

**Table 2.3. Selected road traffic safety data in the period from 2007 to 2017**

Year	Drivers Total	Traffic Accidents Total	Traffic Accidents with Casualties			Death Toll	Injured Persons
			Total	With Injured	With Killed		
2007.	2.131.678	61.020	18.029	17.481	548	619	25.092
2008.	2.179.514	53.496	16.283	15.698	585	664	22.395
2009.	2.208.621	50.388	15.730	15.237	493	548	21.923
2010.	2.233.963	44.394	13.272	12.870	402	426	18.333
2011.	2.250.877	42.443	13.228	12.843	385	418	18.065
2012.	2.267.892	37.065	11.773	11.418	355	393	16.010
2013.	2.287.341	34.021	11.225	10.897	328	368	15.274
2014.	2.301.463	31.432	10.607	10.323	284	308	14.222
2015.	2.310.515	32.571	11.038	10.721	317	348	15.024
2016.	2.325.157	32.757	10.779	10.500	279	307	14.596
2017.	2.337.087	34.368	10.939	10.632	307	331	14.608

Source: Ministry of Internal Affairs of the Republic of Croatia

## 2.4. OTHER ROAD TRAFFIC DATA

On the grounds of the analyses of data obtained by traffic counts, it can be noticed there is a long-term tendency of continuous growth, when considering the development of road traffic inside the Republic of Croatia. This long-time trend happened to be temporarily disturbed by the war conditions. One can conclude the road traffic continues to gain in significance, especially when it comes to the passenger transport.

Road traffic has numerous characteristics. The basic are, among various other features, the state of the road network, the vehicles taking part in traffic, the level of serviceability and safety, and environmental pollution. For the sake of generalized analyses, in this publication only basic data are shown about the road network, the number of registered motor and trailer vehicles, the number of drivers, and the safety of roadway traffic.

The density of the classified road network, together with motorways, in 2017 amounts to around 47 km of classified roads per 100 km<sup>2</sup> of the ground surface in the Republic of Croatia. The structure of the road network is given in Table 2.1.

Decisions on classifying roadways in Croatia are brought by the Ministry of Maritime Affairs, Transport and Infrastructure of the Republic of Croatia. The most recent "Decision on classifying public roads" was published in "Official Gazette of the Republic of Croatia" No. 103/2017.

In Table 2.2. the structure of the registered road vehicles, motorized and articulated, in Croatia for the period from the year 2011 to 2017 is presented.

The most conspicuous negative consequences of road traffic are accidents. The road traffic danger in our country is still high. Selected data, showing more precisely the state of domestic road traffic safety in the period from 2007 to 2017, is displayed in Table 2.3.

Considering the changes in road traffic volumes, level of traffic safety in Croatia is visibly becoming higher but there is still room for progress.

## 2.5. GENERALIZED ANALYSIS OF THE TRAFFIC COUNTING RESULTS IN 2017

In the course of the past 2017, traffic data were, as in previous years, in large part regularly collected from the planned counting sites. Therefore, this

**Table 2.4. Count sites distribution by traffic volumes in 2017**

AADT	Count Sites with Determined AADT				
	State Roads	Motorways	County Roads	Local Roads	Total
0-500	13	1	34	27	75
501-1000	25	0	49	19	93
1001-2000	94	1	66	15	176
2001-3000	61	1	38	4	104
3001-6000	129	12	39	8	188
6001-9000	41	21	13	0	75
9001-12000	25	18	6	0	49
>12000	24	41	1	1	67
<b>Sites Total</b>	<b>412</b>	<b>95</b>	<b>246</b>	<b>74</b>	<b>827</b>

publication consists of processed data from **854** counting locations, which is the most since the beginning of systematic traffic counting in Croatia. Besides that, derived traffic data from **74** counting sections on motorways with closed toll system are published.

Through 2017, there were data collected and processed from **470** continuous automatic traffic counting sites, **261** periodical automatic counting sites, **99** toll-paid traffic counting locations at toll roads, and **24** ferry lines.

Periodical automatic traffic counting, conducted with automatic recorders, replaces the people who recorded traffic at all previous permanent locations of manual traffic counting.

The "Hrvatske ceste d.o.o." company, being in charge of the State roadways, organizes traffic counting at the roads of the Republic of Croatia. For that reason, a major part of the State public road network is

included in the counting program. With increasing number of count sites, growing part of the county roads has been included as well. As it was emphasized already many times, despite the needs for international statistical research, the funding and other factors caused a situation where the other roads in Croatia are not covered by a systematic traffic counting program. Because the existing distribution of the count sites on the State and county road network contains mostly the count sections in outer regions, a big part of the road network, situated in urban and outlying districts, was not until now systematically encompassed by traffic counting programs. For this reason, a quality complete insight into the traffic flow characteristics at the urban and outlying districts cannot be achieved, and for the fore-mentioned facts it is very hard to give precise estimates of AADT and ASDT, be it for the total road network or some of its parts.

The traffic counting results in 2017 show that the

**Table 2.5. Count sites with highest AADT and ASDT in 2017**

Road	CS Label	Count Site	AADT	ASDT
D8	5422	Stobreč	54.691	64.226
D8	5423	Solin	46.524	53.869
A1	1916	Lučko - jug	36.155	62.116
A1	1931	Zdenčina - jug	35.598	62.693
A1	1920	Jastrebarsko - jug	33.179	61.187
A7	2823	Rujevica - zapad	29.324	35.150
unclas.	2014	Velika Mlaka	27.428	23.627

**Table 2.6. Selected State Roads Traffic in the Years 2016 and 2017**

State Road	AADT			ASDT		
	2016	2017	Annual Change (%)	2016	2017	Annual Change (%)
1	6.060	6.252	3,2	8.346	8.710	4,4
2	6.582	6.908	5,0	6.687	7.100	6,2
3	5.685	5.766	1,4	6.150	6.343	3,1
5	2.140	2.221	3,8	2.434	2.469	1,4
7	5.747	6.031	4,9	6.113	6.503	6,4
8	4.956	5.112	3,1	9.007	9.183	2,7
<b>Total</b>	<b>3.614</b>	<b>3.736</b>	<b>3,4</b>	<b>5.061</b>	<b>5.234</b>	<b>3,4</b>

Total: comparable sample of 1.833 km of State roads.

total traffic volume has increased comparing to the previous year. The same is true regarding the ASDT.

By the size, the amounts recorded at certain count sites set up near major Croatian cities are worthy of notice. The same as in the year 2016, the year 2017 saw the traffic counting results influenced by decisions on redirecting heavy freight vehicles onto the alternative road directions in summer months, as well as redirecting them toward the high service level roadways.

In order to compare the traffic volumes in 2016 and 2017, the same count sites used to collect data during both years were selected. The described approach, in

the comparing analyses, avoids difficulties with comparisons involving traffic volumes and the structure, regarding the change of active count sites number, as well as the change of count section lengths. These difficulties will possibly turn avoidable by introducing new count posts at the representatively determined count sections.

In Table 2.4 the count sites distribution at the State roads, motorways and county roads in 2017, with respect to the traffic volume levels, has been given.

The count sites with the highest recorded AADT and ASDT on the State road network in the year 2017 are given in the Table 2.5.

**Table 2.7. Motorways Traffic in the Years 2016 and 2017**

Motorway	AADT			ASDT		
	2016	2017	Annual Change (%)	2016	2017	Annual Change (%)
A1	14.051	15.140	7,8	32.666	34.477	5,5
A2	12.819	12.975	1,2	24.032	23.442	-2,5
A3	15.807	16.315	3,2	22.900	23.128	1,0
A4	8.010	8.722	8,9	15.386	17.215	11,9
A5	2.832	2.964	4,7	3.315	3.531	6,5
A6	12.783	13.554	6,0	22.206	23.138	4,2
A7	15.408	16.356	6,2	24.475	24.394	-0,3
A8	6.713	7.165	6,7	10.740	11.230	4,6
A9	7.313	7.596	3,9	16.222	16.393	1,1
A11	3.262	3.883	19,0	3.430	3.826	11,5
<b>Total</b>	<b>12.329</b>	<b>13.064</b>	<b>6,0</b>	<b>24.035</b>	<b>25.039</b>	<b>4,2</b>

A1: Zagreb – Karamatići; A2: Macelj – Zagreb; A3: Zagreb (east) – Lipovac; A4: Goričan – Zagreb; A5: Osijek – Svilaj

A6: Bosiljevo 2 – Rijeka; A7: Rupa – Šmrika; A8: Kanfanar – Matulji; A9: Umag – Pula; ; A11: Mraclin – Lekenik

Total: comparable sample of 1.174 km of motorways.

In the Table 2.6. data on AADT and ASDT for selected State roads for the years 2016 and 2017, calculated using the method of vehicle kilometres, is given.

Similarly, table 2.7. comprises data for selected motorways.

On Pictures 1 (certain State roads) and 2 (motorways), AADT and ASDT comparison for the years 2016 and 2017 is additionally graphically displayed. The absolute amounts of AADT and ASDT are compared. The graphs display traffic volumes at 6 selected State roads and 10 motorways.

**Tables 2.6. and 2.7. are documenting an overall increase of State roads and motorways traffic. Summer traffic has also increased for both State Roads and motorways.**

**Combined AADT of State roads and motorways together in the year 2017, based on equivalent count sections sample which is comparable to the traffic in the year 2016, increased 5,2%. ASDT increased 4%.**

**AADT in the year 2017 was 7.378 vehicles and ASDT was 12.966 vehicles.**

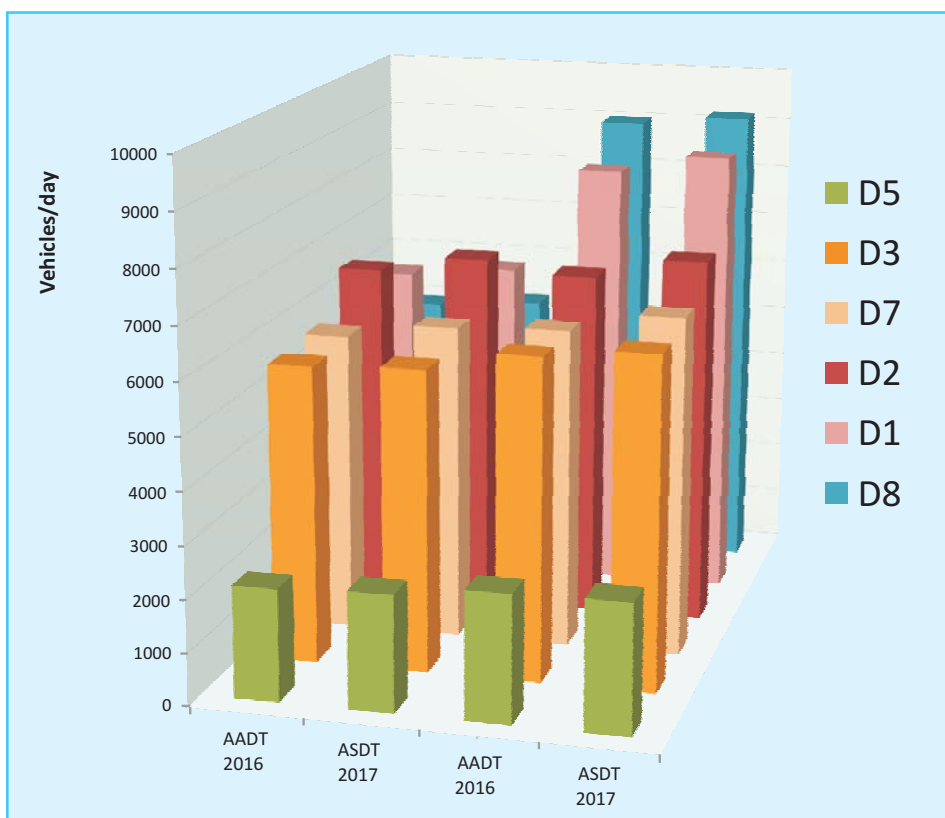


Figure 1 AADT and ASDT of selected State roads in the years 2016 and 2017

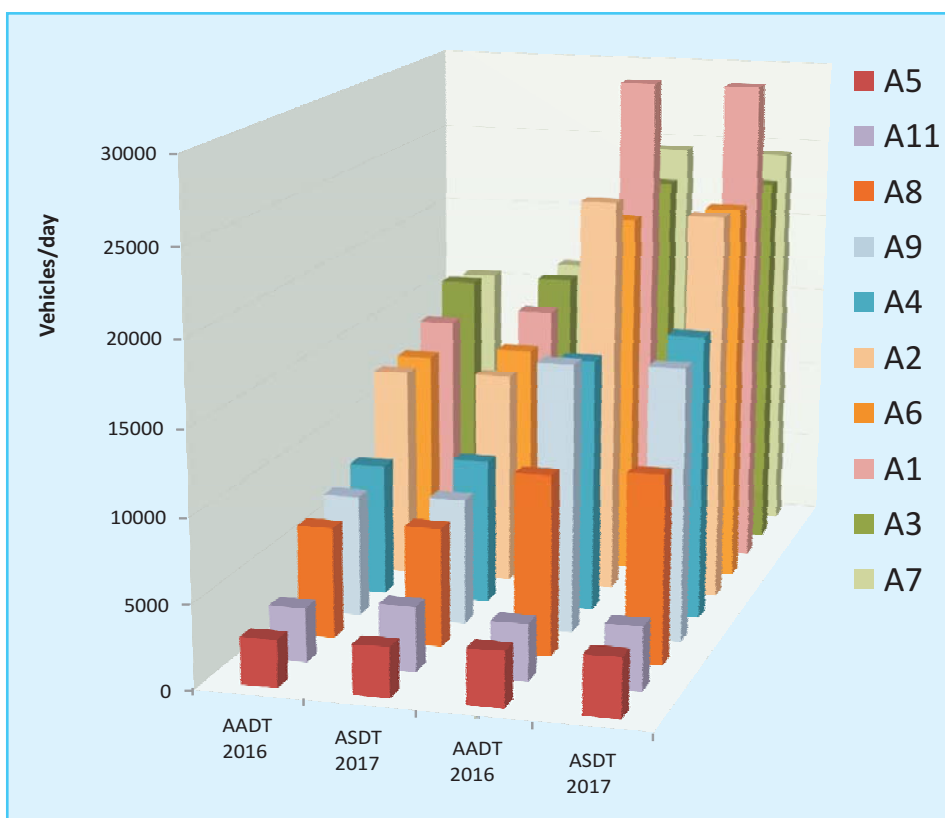


Figure 2 AADT and ASDT of selected motorways in the years 2016 and 2017

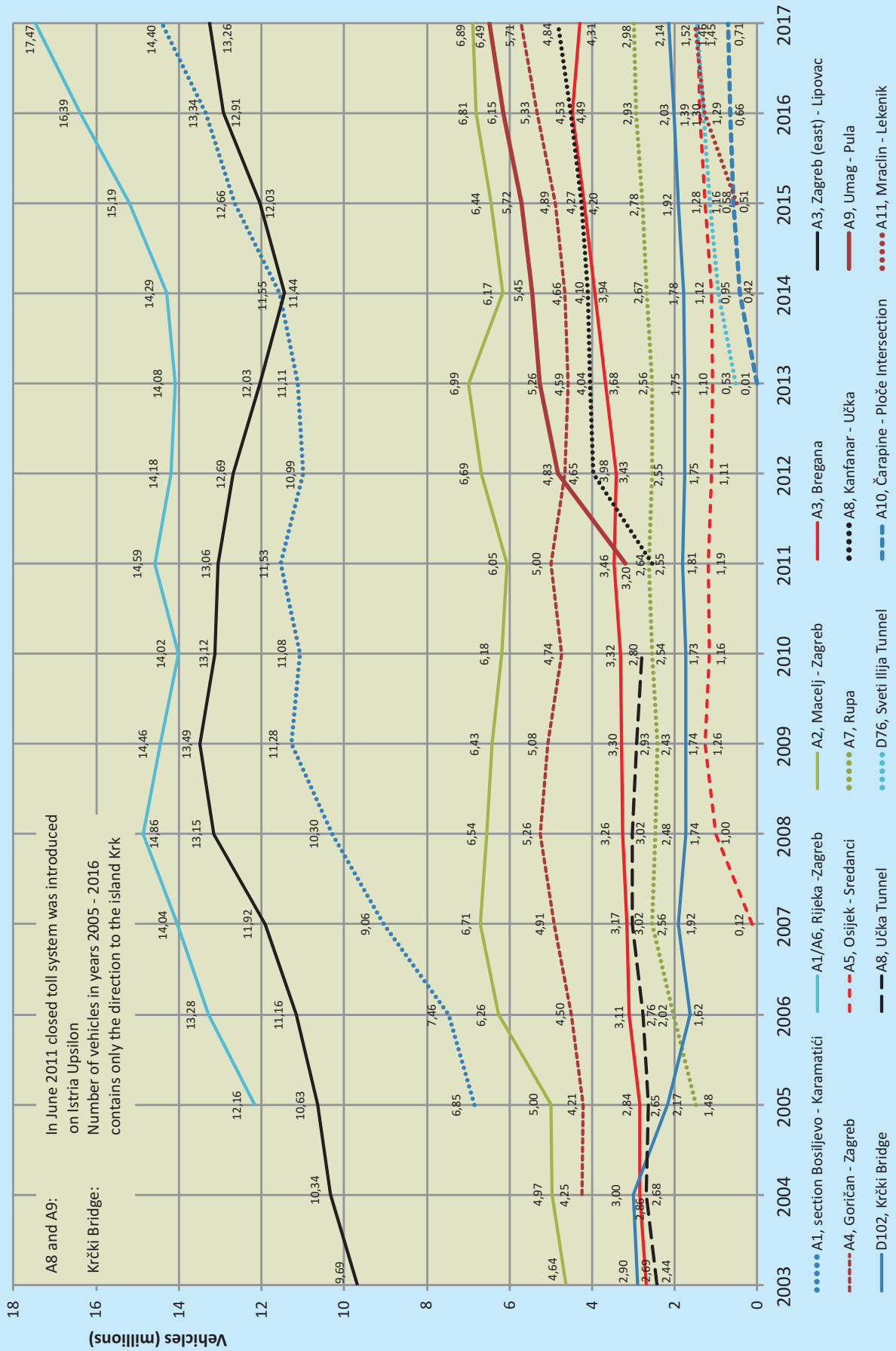


Figure 3 Number of vehicles using toll-paid traffic structures

# AADT AND ASDT WITH GENERAL DATA ON COUNT SITES AND SECTIONS



### 3. AADT AND ASDT WITH GENERAL DATA ON COUNT SITES AND SECTIONS

The data collection sites, whereon the last year traffic counts were taken, were determined, just as in the past, by the plan and program of traffic counting. The existing distribution of count sites and count sections was influenced by the traffic development, along with the historical traffic counting development on the whole. The classified roadways, divided into State, county, and local roads, are subdivided into sections. At selected sections the count sites are set up, according to the previous decisions, and in major part at the State roads. From the outset of systematic traffic counting up to now, an influence on gradual rearrangement of new count locations has been exerted, besides the development of traffic and counting, by the new created circumstances.

As can be seen from the geographical map (the scale is 1:900,000) "Traffic Volumes on Selected Road Directions in 2017", to each count section the volume determined at the corresponding count site has been attached. On that map, a count section comes with its counted, or evidential, traffic volume appended.

The count locations are labelled by four-digit numbers and names. In this manner recognition of the data source has been made easier. In a four-digit number, the label of the count location, the first two digits denote the area of the map where respective site can be found. The next two digits in the count site label designate the ordinal number of the count location considering only responding map area. For

each count site the name was determined consistent with the geographical location where the recorder had been placed, i.e. of the settlement it was closest to, and so on. For each count section the name was determined by the names of the end points, together with expressing the entire section length in kilometres. This designation system is applied to the map with a scale of 1:900,000 "Traffic Count Sites Distribution" (an appendix).

For each count location and its associated count section, the **AADT** (average annual daily traffic) and **ASDT** (average summer daily traffic) results are shown in Table 3.1., for State roads, Table 3.2. for motorways, Table 3.3., for county roads. and in Table 3.4., for local and unclassified roads. These tables also contain the data about counting methods, the count section names, and their lengths.

In all the tables within this chapter, the data is sorted by road number in ascending order, and by the count site location on the respective road, conforming to the road specification, or its entry.

As it was the case with all the previous publications under the title "Traffic Counting on the Roadways of the Republic of Croatia", all count sites and pertaining count sections are classified as belonging to particular roads, themselves classified according to the holding decision on roadways and its changes and amendments.

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
1	1101	Macelj	2114	2459	ACC	Ž2258	D207	8,9
1	1104	Đurmanec	4384	4615	ACC	D207	D206	4,7
1	1122	Čveki	5251	5637	ACC	D35	Ž2158	2,3
1	1128	Zabok	11574	12046	ACP	Ž2264	D205	3,5
1	1927	Veliko Trgovišće	11412	11893	ACC	D307	Ž2217	4,5
1	1937	Pojatno	17034	17389	ACC	Ž3036	A2	7,2
1	1935	Gornji Stupnik	5983	7720	ACC	L31102	Ž3061	1,9
1	1929	Klinča Sela	10397	12596	ACC	Ž3106	L31143	1,7
1	1928	Izimje	6776	8848	ACC	Ž3102	L31136	2,6
1	3114	Karlovac	24582	27955	ACC	D228	D3	3,9
1	3101	Tušilović	9376	13812	ACC	Ž3188	L34082	3,6
1	3105	Blagaj	5411	9946	ACC	L34120	L34140	11,4
1	3106	Slunj	6220	11010	ACC	L34140	Ž3258	4,7
1	4307	Vaganac	1803	2484	ACP	L59026	L59024	1,8
1	4308	Prijeboj - northeast	1680	2853	ACC	L59027	Ž5201	9,3
1	4302	Prijeboj	5271	11336	ACP	D429	L59045	7,9
1	4309	Korenica	5866	12174	ACC	D52	L59045	2,4
1	4304	Jošan	3981	9458	ACC	L59064	Ž5195	12,3
1	4901	Mutilić (Udbina)	1890	4116	ACC	L59101	L59117	7,9
1	4929	Gračac - north	2041	4567	ACP	L63032	D27	2,1
1	4907	Gračac - east	1845	2861	ACC	D27	L63033	3,4
1	5002	Pađene	1533	2595	ACC	L65008	D59	3,2
1	5418	Kijevo	1373	1917	ACC	Ž6058	Ž6083	18,4
1	5524	Sinj	7005	7714	ACC	Ž6118	D219	3,3
1	5504	Brnaze	10233	11976	ACC	D60	L67041	1,7
1	5526	Dicmo	11041	12658	ACC	Ž6116	Ž6120	2,7
1	5523	Dugopolje	27256	34826	ACC	A1	D56	3,6
2	1203	Dubrava Križovljanska	2988	3426	ACC	border	L25001	0,7
2	1208	Majerje	8840	9324	ACC	Ž2046	Ž2037	2,5
2	1235	Hrašćica	4179	4543	ACC	L25194	D35	4,6
2	1255	Varaždin bypass south	3612	3856	ACP	D35	Ž2050	3,9
2	1210	Varaždin - south	17453	17579	ACC	D528	D3	4,9
2	1244	Trnovec Bartolovečki	8491	8447	ACC	Ž2053	L25082	1,8
2	1307	Ludbreg - west	6768	6675	ACC	L25094	Ž2075	1,9
2	1308	Ludbreg - east	5915	6145	ACP	D24	L25104	1,5
2	1323	Koprivnica - south	8145	8149	ACC	D41	D41	2,9
2	1312	Plavšinci	5711	5736	ACC	L26034	L26100	1,6
2	1405	Đurđevac - west	4823	5124	ACP	Ž2183	D43	5,6
2	1403	Đurđevac	6753	7046	ACC	Ž2247	L26112	3,3
2	2201	Kloštar	5148	5512	ACP	Ž2185	L40001	3,6
2	2217	Pitomača - east	6108	6252	ACC	Ž4002	L40005	5,4
2	2203	Virovitica	8533	8701	ACC	L40020	Ž4024	9,0
2	2302	Cabuna	4572	4861	ACC	L40034	L40036	2,9
2	2307	Slatina bypass	3449	3697	ACC	Ž4025	D34	2,1
2	2305	Čačinci - south	3129	3271	ACC	Ž4063	D314	4,4

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
2	2408	Feričanci - east	3661	4109	ACP	Ž4058	Ž4075	2,4
2	2407	Našice	4222	4414	ACC	L44044	L44045	1,7
2	2406	Bizovac - west	5043	5201	ACP	Ž4067	Ž4060	0,4
2	2522	Osijek south. bypass Višnjevac	8361	8356	ACP	A5	D7	5,6
2	2508	Osijek southern bypass	14378	13971	ACP	D7	Ž4085	2,4
2	2523	Osijek south. bypass Bosutsko	12170	11902	ACP	Ž4085	Vinkovačka	1,2
2	3701	Klisa airport - north	5023	4984	ACC	L44115	D418	1,3
2	3723	Vukovar	11435	11916	ACP	D55	D57	4,3
2	3801	Sotin	3718	4051	ACC	Ž4152	L46013	2,7
2	3809	Ilok	1228	1423	ACC	Ž4199	Ž4200	3,5
3	1315	Štefanec	4214	4382	ACP	Ž2022	L20028	2,9
3	1234	Čakovec	8800	8939	ACC	D20	Ž2031	1,9
3	1256	Nedelišće	16915	17046	ACP	D209	Ž2015	1,9
3	1205	Pušćine	11884	11977	ACC	D208	L20048	3,4
3	1221	Novi Marof	7800	7935	ACC	L25131	Ž2136	1,1
3	1245	Paka	4833	5106	ACC	Ž2134	Ž2171	2,1
3	2003	Blažev Dol	7551	7350	ACC	L31036	Ž3016	1,2
3	2032	Belovar	11264	11446	ACP	Ž1006	L10157	1,5
3	3003	Duga Resa	10782	12091	ACC	Ž3181	D23	3,7
3	3032	Lišnica	3033	3928	ACC	L34065	L34064	1,4
3	3005	Vrbovsko	1226	1998	ACC	L58032	L58037	8,3
3	2937	Skrad	1180	1670	ACP	L58030	L58102	6,5
3	2905	Delnice	5921	7986	ACC	D203	D32	1,8
3	2935	Gornje Jelenje	2912	4047	ACC	Ž5032	D501	0,5
5	2202	Terezino Polje	1021	1356	ACC	L40009	Ž4004	3,6
5	2214	Virovitica bypass north	1296	1371	ACC	Ž4249	D2	3,7
5	2215	Virovitica bypass south	1645	1918	ACC	D2	Ž4251	4,4
5	2205	Grubišno Polje	3845	4027	ACC	Ž3094	Ž3139	2,7
5	2206	Končanica - west	2732	2702	ACC	L37118	Ž3138	2,3
5	2210	Kip	1876	2216	ACP	Ž3171	L37151	4,4
5	2213	Badlješina	2367	2451	ACC	Ž3272	L41002	0,4
5	3411	Lipik	5249	5832	ACP	L41014	D47	3,1
5	3406	Cage	1360	1455	ACP	L42001	Ž3252	7,5
5	3412	Okučani	3607	3892	ACC	Ž4241	Ž4158	0,8
5	3410	Stara Gradiška	4363	5382	ACC	Ž4226	Ž4227	1,0
6	1806	Jurovski Brod	3767	5390	ACC	D228	L34005	0,6
6	1802	Ribnik	2301	3323	ACP	L34023	Ž3140	2,1
6	3108	Okić - west	2219	2473	ACP	L34094	L34093	2,6
6	3102	Gvozd - west	1485	2336	ACC	L33075	Ž3186	0,8
6	3206	Maja	483	636	ACP	L33094	L33196	2,5
6	3210	Trgovi	395	508	ACC	Ž3234	L33167	1,4
7	2501	Duboševica	1430	1964	ACC	border	Ž4011	1,0
7	2503	Karanac (Beli Manastir)	6361	6907	ACC	D517	D212	3,7
7	2505	Čeminac - north	4783	5390	ACP	L44010	Ž4054	3,9
7	2513	Osijek northern bypass	8846	9313	ACC	Ž4257	Ž4068	10,4

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
7	2512	Čepin	6879	6960	ACC	D2	D4247	3,5
7	3705	Vuka	4774	4887	ACC	Ž4107	L44107	2,5
7	3606	Vrpolje	3636	4092	ACC	L44138	Ž4202	2,9
7	3615	Sikirevci - south	2794	3617	ACC	Ž4220	L42049	4,3
8	2801	Pasjak	5331	9560	ACC	L58011	A7	3,9
8	2804	Mučići	6371	7471	ACC	Ž5016	L58015	0,9
8	2809	Pavlovac	7698	9369	ACP	D66	Ž5051	2,3
8	2917	Kostrena	3636	4748	ACC	L58054	D40	2,2
8	2923	Crikvenica	9416	17791	ACC	Ž5091	Ž5091	3,1
8	2928	N. Vinodolski - north	8248	15843	ACP	Ž5062	Ž5064	5,6
8	2929	Sibinj Krmpotski	4537	9364	ACC	Ž5109	L59001	13,3
8	4102	Sveti Juraj	3645	8272	ACP	D23	Ž5126	8,1
8	4105	Vlaka	2829	7215	ACC	L59028	D405	19,0
8	4107	Prizna - north	1624	4338	ACP	L59048	D406	25,0
8	4218	Cesarica	1239	2683	ACP	D406	D25	13,0
8	4207	Karlobag	1106	2494	ACC	D25	L63025	35,6
8	4802	Starigrad (Paklenica)	4127	8670	ACC	L63153	Ž6008	1,5
8	4925	Posedarje - east	3704	8841	ACP	L63028	L63063	3,2
8	4810	Murvica	15147	21514	ACC	Ž6011	L63167	3,4
8	4825	Bibinje	13446	20710	ACC	D424	Ž6039	2,8
8	4814	Sukošan	7347	11621	ACP	Ž6040	Ž6045	7,2
8	5305	Pirovac	5333	10898	ACC	Ž6068	D59	2,9
8	5335	Vodice bypass	4502	7407	ACC	Ž6086	Ž6286	3,1
8	5308	Šibenik	15181	23738	ACC	Ž6088	L65037	3,0
8	5309	Grebaštica	5865	11825	ACC	D58	Ž6127	12,0
8	5325	Primošten - south	4217	8624	ACP	L65075	L65077	5,0
8	5407	Marina	4872	9252	ACC	L65078	Ž6130	3,6
8	5423	Solin	46524	53869	ACC	Ž6137	Ž6139	0,2
8	5422	Stobreč	54691	64226	ACC	D410	Ž6143	3,1
8	5902	Jesenice	11091	14803	ACC	Ž6162	L67112	2,7
8	5916	Omiš - west	15689	18138	ACC	L67120	D70	0,7
8	5909	Mimice - east	5162	9187	ACP	L67135	Ž6167	1,8
8	5910	Brela	5895	11286	ACC	D39	L67144	4,0
8	6004	Živogošće	2974	6433	ACC	L67197	D412	9,1
8	6005	Gradac	2690	5719	ACP	L67205	L67204	3,3
8	6010	Rogotin	8075	14276	ACC	L69086	L69005	0,8
8	6501	Klek	5123	11115	ACP	L69029	Ž6279	7,9
8	6503	Zaton Doli	5048	9705	ACC	Ž6227	D414	6,1
8	6506	Doli	5672	11096	ACP	D414	L69045	3,4
8	6601	Zaton	9101	15476	ACC	L69047	Ž6254	9,1
8	6602	Kupari	15521	23126	ACC	L69050	Ž6243	0,6
8	6604	Gruda - southeast	3596	6856	ACC	L69055	Ž6241	1,6
9	6103	Metković	4243	5174	ACC	border	D62	1,0
9	6104	Kula Norinska	7663	11115	ACP	L69013	L69012	2,2
10	2008	Sveta Helena	12903	12737	ACC	A4	D41	8,0

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
10	2030	Vrbovec bypass	9600	9919	ACC	D41	Ž3079	4,8
14	1143	Mokrice	4173	4240	ACP	D307	Ž2197	4,7
20	1319	Ivanovec	7140	7395	ACC	Ž2022	A4	1,7
20	1305	Prelog	4082	4327	ACP	Ž2038	Ž2033	5,7
20	1324	Koprivnica - north	3897	4265	ACC	L26154	D2	4,5
22	1233	Moždenec	3238	3239	ACC	D3	D24	2,3
22	1228	Vukovec	1157	1333	ACP	L26003	L26047	2,6
22	2125	Trema	2341	2234	ACC	L26069	Ž2228	0,8
23	3008	Belavići	3257	4186	ACC	L34062	Ž3176	6,4
23	3013	Skradnik	1918	2604	ACP	Ž3256	Ž3255	2,8
23	3014	Munjava (Josipdol)	1175	1558	ACC	D42	L34137	0,4
23	3028	Modruš	416	677	ACP	L34136	L59007	15,6
23	4201	Brinje	839	1218	ACP	L59015	Ž5110	5,2
23	4101	Senj - east	3884	8354	ACC	L59009	D8	11,0
24	1238	Poznanovec	7426	7460	ACC	Ž2201	Ž2168	0,8
24	1230	Konjščina	4150	4182	ACC	Ž2170	L22022	0,6
24	1222	Novi Marof - west	2843	3233	ACP	L25134	L25132	0,9
24	1237	Ljubešćica	2907	3031	ACC	Ž2136	L25150	1,6
24	1309	Leskovec Toplički	1307	1480	ACP	Ž2111	L25154	3,6
25	4303	Bunić	562	831	ACP	L59064	Ž5156	2,7
25	4206	Budak	4631	5275	ACC	D50	D534	3,7
25	4209	Novoselo Trnovačko	1206	2116	ACC	Ž5162	Ž5163	1,2
26	2036	Konak	2454	2371	ACC	A12	L31069	3,8
26	2111	Čazma - east	1535	1589	ACP	D43	L37057	3,2
26	2112	Trnovitički Popovac	1212	1296	ACP	L37105	Ž3090	3,0
26	2211	Hrastovac	1272	1420	ACP	L37142	Ž3168	3,3
26	2218	Uljanik	1205	1249	ACC	L37145	L37142	3,0
27	4930	Gračac	1748	3621	ACP	D1	D50	2,0
27	4912	Zaton Obrovački	1581	3389	ACC	Ž6027	Ž6028	6,7
27	4914	Kruševo	1612	2768	ACP	Ž6025	L63069	3,7
27	4915	Benkovac	1790	3589	ACC	Ž6048	L63123	10,6
27	5317	Gornje Ceranje	1606	2314	ACP	Ž6064	Ž6066	7,4
27	5303	Gaćezezi	2226	3623	ACC	D59	Ž6071	5,4
28	2103	Sveti Ivan Žabno	6990	7199	ACC	Ž3041	Ž2229	4,1
28	2102	Predavac	9097	9120	ACC	Ž3022	D524	0,3
28	2104	Bjelovar bypass	3653	4222	ACP	Ž3022	D43	6,7
28	2106	Prespa	5525	5470	ACC	Ž3048	Ž3087	0,7
28	2110	Bulinac	2671	2851	ACP	Ž3090	Ž3280	2,3
29	1232	Mače - east	3192	3206	ACP	Ž2168	Ž2128	2,3
29	1231	Zlatar Bistrica	3569	3808	ACC	D24	Ž2202	3,4
29	2004	Kašina	3208	3296	ACC	L10004	Ž1001	1,0
30	2043	Petina	17823	18558	ACC	A3	D30	5,9
30	2019	Lekenik	6306	6286	ACC	L33006	Ž3230	2,2
30	2020	Žažina	9986	10052	ACC	D36	Ž3156	0,3
30	3208	Petrinja - north	4939	5284	ACP	Ž3242	D37	1,8

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
30	3205	Budičina	2030	2476	ACP	Ž3201	L33053	0,7
30	3311	Hrvatska Kostajnica	3388	3840	ACC	D224	L33159	2,0
31	2016	Kurilovec	5087	5257	ACP	A11	L31199	11,3
31	3209	Donje Taborište	164	239	ACP	Ž3194	L33029	3,2
32	1701	Prezid	681	961	ACP	border	D305	8,7
32	1702	Smrečje	782	967	ACC	L58004	Ž5185	7,2
32	2903	Crni Lug	637	775	ACP	Ž5032	D3	10,7
33	5001	Knin - north	1169	1646	ACC	L65009	Ž6080	6,0
33	5003	Knin - south	3381	4213	ACC	D1	Ž6056	4,0
33	5412	Pakovo Selo	2232	3209	ACC	Ž6094	L65083	6,1
33	5322	Dubrava Šibenska	11053	17068	ACC	Ž6091	D8	1,8
34	2411	Podravska Moslavina	2274	2475	ACC	Ž4030	Ž4031	8,1
34	2402	Donji Miholjac - east	3911	4214	ACP	D53	L44016	9,2
34	2405	Šag	5562	5610	ACC	Ž4051	L44028	2,8
35	1213	Greda	5982	5800	ACC	L25042	Ž2063	1,8
35	1216	Kaniža - west	5358	5552	ACP	Ž2084	Ž2102	2,0
35	1132	Novi Golubovec	2096	2167	ACP	Ž2257	D29	1,2
35	1123	Gornja Šemnica	2637	2770	ACC	Ž2125	Ž2122	1,6
36	1921	Orlovac	1725	2005	ACP	D1	Ž3106	31,0
36	1923	Pisarovina - south	1532	1759	ACP	Ž3106	L31187	1,0
36	2022	Letovanić	1055	1369	ACP	L33008	D30	4,1
36	2021	Stupno	5918	5823	ACP	D30	D37	9,4
36	3201	Novo Selo Palanječko	2943	2990	ACC	Ž3206	L33055	1,2
36	2117	Stružec	3368	4019	ACP	Ž3161	L33017	0,8
36	2127	Popovača - west	5686	5649	ACC	A3	Ž3124	2,9
37	3203	Petrinja	8368	8878	ACP	D224	L33051	3,3
37	3202	Novo Selište	4423	5344	ACC	D30	Ž3198	3,2
38	3401	Pakrac - east	983	1100	ACP	D5	L41017	10,5
38	3504	Pasikovci	945	1004	ACC	Ž4113	L41018	1,3
38	3505	Kuzmica	5594	5537	ACC	L41054	Ž4116	3,0
38	3507	Pleternica - east	1296	1379	ACP	Ž4030	L41063	7,7
38	3605	Levanjska Varoš	707	805	ACP	Ž4144	L44120	4,0
39	5511	Cista Provo	975	2090	ACP	L67098	D60	6,1
39	5908	Cista Provo - south	1507	3229	ACC	L67137	Ž6171	1,9
39	5903	Gornja Brela	2530	5865	ACC	Ž6166	L67134	7,3
41	1401	Gola	953	1134	ACP	Ž2116	Ž2115	3,9
41	1310	Petranec	2323	2615	ACP	Ž2114	Ž2113	1,3
41	1311	Sokolovac	4368	4409	ACC	L26006	L26073	3,0
42	3010	Sveti Petar	1345	1485	ACP	L34099	Ž3254	3,9
42	4306	Saborsko - east	660	1257	ACP	Ž5113	D429	24,1
43	1314	Hampovica	3422	3794	ACC	Ž2183	Ž2236	9,8
43	2105	Markovac	2710	2777	ACP	D28	D28	7,3
43	2108	Narta - north	3966	3831	ACC	D28	Ž3084	8,8
43	2015	Caginec	6433	6530	ACP	Ž3124	Ž3074	1,9
44	2750	Ponte Porton	1317	2347	ACP	L50043	Ž5209	9,4

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
44	2706	Fontana	2945	3899	ACP	L50029	Ž5013	2,9
44	2806	Lupoglav - north	3864	5762	ACC	L50080	Ž5014	3,4
45	2207	Veliki Zdenci	1578	1765	ACC	Ž3136	Ž3133	5,0
45	2209	Hercegovac	2298	2510	ACP	Ž3133	Ž3135	2,0
45	2128	Garešnica	5201	5296	ACP	Ž3165	D45	2,6
45	2115	Kapelica	3070	3339	ACC	D26	L37138	4,0
46	3708	Stari Mikanovci	3542	3707	ACC	Ž4133	Ž4166	4,7
46	3709	Vođinci	3355	3639	ACP	Ž4166	Ž4167	6,1
46	3722	Vinkovci bypass	2286	2419	ACC	D518	D55	6,8
46	3711	Srijemske Laze	3513	3575	ACC	Ž4150	L46027	2,8
46	3712	Orolik	2335	2800	ACP	D57	D57	3,6
46	3804	Ilača - west	1388	1901	ACP	Ž4197	L46033	2,3
46	3810	Tovarnik	1698	2061	ACC	Ž4233	border	2,1
47	3402	Jagma	855	887	ACP	Ž4236	Ž4112	2,0
47	3306	Bročice	2302	3004	ACC	Ž3250	Ž3253	2,0
47	3308	Slabinja	953	1201	ACP	L33177	Ž3264	13,6
47	3207	Hrv. Kostajnica - west	884	1023	ACP	D30	L33165	6,6
48	2712	Tinjan	4101	4883	ACP	L50096	L50099	1,1
49	3509	Batrina - north	1247	1388	ACP	Ž4185	Ž4158	4,9
50	4202	Brlog	1652	2770	ACP	L59016	Ž5127	2,9
50	4203	Otočac (Brlog)	2888	4340	ACC	A1	Ž5140	4,0
50	4205	Ličko Lešće	1651	1936	ACC	Ž5144	Ž5147	2,3
50	4219	Perušić	2326	2455	ACP	Ž5154	D25	5,6
50	4225	Gospić - south	1750	1844	ACP	D25	A1	28,5
50	4931	Medak - south	688	937	ACP	D25	A1	28,5
50	4905	Sveti Rok	1242	1624	ACC	A1	L59116	1,5
51	3502	Bektež	1526	1705	ACP	L41036	L41036	2,4
51	3524	Eminovci	5579	5601	ACC	L41033	D38	3,2
51	3515	Oblakovac	1664	1776	ACC	D38	L41019	8,8
52	4204	Vrhovine	1358	2509	ACC	Ž5130	L59140	6,6
53	2401	Donji Miholjac	859	1117	ACC	border	D34	3,9
53	2404	Beničanci	1489	1662	ACP	Ž4046	Ž4031	4,8
53	2409	Velimirovac	4477	4498	ACC	Ž4075	D2	3,2
53	3603	Gradac Našički	1810	1986	ACC	L44094	D51	10,3
53	3503	Čaglin	1462	1678	ACP	L41046	Ž4124	2,7
53	3607	Rastušje	3135	3165	ACC	L42038	L42039	2,8
53	3516	Slavonski Brod	7809	8582	ACC	D525	D72	2,1
54	4911	Jasenice	1545	3206	ACP	L63067	L63029	2,7
55	3706	Nuštar	8374	8509	ACC	Ž4134	L46007	2,2
55	3710	Kunjevci	6626	7079	ACC	Ž4192	Ž4193	0,6
55	3719	Županja	4958	6058	ACC	L46045	border	0,8
56	4829	Tromilja	3059	3694	ACC	D502	Ž6021	3,0
56	4916	Rašević	2736	3426	ACC	L63178	L63203	0,8
56	5329	Bulić	1285	1653	ACC	L63151	L63151	1,5
56	5306	Skradin	2067	3587	ACC	Ž6075	G.A.P.	1,3

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
56	5413	Kljake	1431	1658	ACC	Ž6097	Ž6099	4,6
56	5503	Progon - south	2590	2856	ACP	D219	Ž6116	2,1
57	3802	Negoslavci - south	1004	1193	ACP	L46013	Ž4195	3,3
57	3805	Lipovac - north	399	498	ACP	L46052	L46061	0,8
58	5326	Šibenik - south	12089	14439	ACP	port	D8	3,0
58	5320	Vrpolje - west	4538	5541	ACP	D8	D531	12,9
58	5406	Seget Donji	2610	4202	ACC	Ž6129	D8	8,9
59	5006	Radučić - east	1121	1625	ACP	L65008	Ž6054	6,0
59	5302	Kistanje	1050	1705	ACP	L65023	Ž6074	7,6
59	5319	Čista Mala - south	2164	5499	ACC	Ž6071	D27	6,0
59	5324	Dubrava kod Tisnoga	1954	4179	ACP	L65031	D8	7,0
60	5505	Trilj	5759	6625	ACP	Ž6124	L67083	1,6
60	5510	Cista Velika	2807	3379	ACC	L67226	Ž6153	1,0
60	5901	Lovreć	2942	3578	ACC	L67101	Ž6173	0,9
60	6001	Grubine	6275	8819	ACC	L67159	Ž6186	2,6
60	6012	Vinjani Donji	5079	6002	ACC	D76	L67171	2,1
62	6014	Zagvozd	4207	7086	ACC	D76	L67143	0,3
62	6002	Ravča - west	888	1095	ACP	L67199	D512	1,0
62	6013	Vrgorac - west	1673	2471	ACP	D512	Ž6208	6,3
62	6101	Nova Sela	598	786	ACP	A10	L69008	2,0
64	2820	Pićan	2612	3067	ACC	L50086	L50123	1,6
64	2831	Vozilići - north	4526	6596	ACP	D500	D66	1,4
66	3904	Loborika	7202	9692	ACP	D401	L50170	2,1
66	2747	Kujići	3497	4734	ACP	L50145	L50182	4,4
66	2817	Raša	2982	4773	ACP	D421	Ž5103	8,4
66	2815	Stepčići	6333	9107	ACC	L50185	D64	5,5
66	2805	Plomin	2106	3714	ACP	L50180	D402	9,5
66	2814	Medveja	4371	7611	ACC	Ž5082	Ž5050	7,7
66	2813	Opatija - south	13139	18786	ACC	Ž5048	Ž5051	1,6
69	2306	Voćin	1078	1083	ACC	L40069	Ž4100	19,0
70	5918	Omiš - north	5251	7731	ACC	D8	Ž6165	4,1
72	3626	Slavonski Brod 2	9819	9674	ACC	D53	D423	2,7
74	1125	Žutnica	1483	1510	ACP	D207	L22013	8,1
74	1126	Bednja	2337	2450	ACC	L25013	L25108	3,7
75	2708	Dajla	5209	9929	ACC	L50040	D301	5,5
75	2757	Funtana	7260	15510	ACC	L50091	Ž5071	5,8
75	2717	Bale	2361	3734	ACC	Ž5098	Ž5096	2,9
75	3905	Pula - north	11763	14129	ACP	Ž5117	L50160	2,3
76	6026	Sveti Ilija Tunnel	4010	10051	TCTS	L67177	A1	7,6
76	6037	Poljica	4384	7377	ACP	Ž6178	L67150	2,2
76	6011	Vinjani Gornji	2046	2699	ACP	L67168	border	1,8
77	2751	Žminj	3147	3439	ACC	Ž5077	L50132	2,7
100	4001	Predošćica	615	1772	ACP	L58084	D101	10,1
100	4003	Ćunski	2427	4808	ACC	L58115	Ž5157	6,3
102	2919	TS Krk Bridge	11714	22218	TCTS	Ž5189	D103	3,8

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
102	2922	Omišalj	10644	20316	ACC	Ž5083	L58065	2,3
102	2924	Sveti Vid	9987	20111	ACP	Ž5084	Ž5086	3,1
102	2934	Krk	5178	10773	ACC	Ž5131	Ž5131	2,3
105	4106	Barbat na Rabu	1688	4227	ACC	Ž5139	ferry port	6,4
106	4801	Most otok Pag	3396	8124	ACP	Ž6005	Ž6007	17,6
106	4822	Vulete	2267	6001	ACC	Ž6016	Ž6017	2,8
109	4813	Brbinj	341	888	ACP	D124	L63095	1,9
110	4815	Kukljica	1360	2907	ACP	L63171	L63110	4,9
113	5907	Supetar - south	2554	4111	ACC	D114	L67172	4,2
115	5919	Gornji Humac	1532	3274	ACP	D113	Ž6192	1,0
116	5917	Jelsa	1766	3709	ACC	L67194	L67196	26,3
117	5801	Vis	414	1019	ACP	Ž6212	L67212	0,5
118	6403	Žrnovo	1726	3022	ACC	L69073	L69073	1,5
120	6504	Babino Polje	493	963	ACC	L69037	D123	15,5
121	5304	Murter	2419	5257	ACP	Ž6250	Ž6250	2,8
200	2701	Plovanija	5555	10457	ACC	border	D510	2,2
200	2718	Buje - west	4937	6603	ACP	Ž5209	Ž5070	2,5
201	2704	Štrped	2157	4068	ACP	L50026	D44	3,5
203	2936	Mala Lešnica	1102	2150	ACC	L58022	D3	9,7
204	3001	Pribanjci	1141	2308	ACP	L34055	D3	1,4
205	1109	Tuheljske Toplice	3709	4006	ACP	Ž2248	Ž2155	1,5
206	1112	Hum na Sutli	2864	2827	ACP	border	D229	2,1
206	1133	Pregrada	3907	3953	ACP	Ž2118	D507	1,5
206	1105	Petrovsko	1654	1633	ACP	Ž2120	D1	9,1
207	1124	Hromec	2888	3486	ACC	border	Ž2096	5,3
208	1202	Trnovec	962	1043	ACC	border	Ž2009	2,6
209	1001	Mursko Središće	4912	5544	ACC	Ž2003	L20003	0,9
209	1201	Šenkovec	11516	11672	ACC	Ž2016	D227	2,9
209	1257	Šenkovec - south	16218	17178	ACP	D227	D3	2,8
210	1402	Virje	939	1225	ACP	Ž2114	L26102	3,2
211	2410	Baranjsko Petrovo Selo	277	327	ACP	border	D517	2,0
212	2502	Suza	1930	2197	ACC	Ž4037	L44011	4,9
213	2511	Bijelo Brdo	3697	4301	ACC	L44084	L44085	3,9
213	2601	Erdut	1730	2045	ACP	D519	Ž4093	6,6
214	4501	Posavski Podgajci	1706	1904	ACC	Ž4230	L46054	7,6
216	3109	Miholjsko	2120	2491	ACC	Ž3224	L34144	4,5
217	4301	Ličko Petrovo Selo	1998	3199	ACC	D504	border	3,0
218	4305	Donji Lapac	404	584	ACP	Ž5169	Ž5168	3,6
218	4923	Mazin - south	151	235	ACP	L59118	D1	21,6
219	5502	Progon - east	794	891	ACP	D56	L67031	2,0
219	5501	Obrovac Sinjski	446	489	ACP	L67016	Ž6122	1,6
220	5520	Čaporice	3977	5184	ACC	Ž6260	D60	4,5
220	5506	Kamensko	1763	2952	ACC	Ž6125	L67104	4,5
223	6605	Gornji Brgat	1112	1673	ACP	border	L69048	4,5
224	3304	Sunja	1829	1918	ACC	Ž3244	Ž3211	1,9

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
224	3318	Vedro Polje	1746	1849	ACC	L33130	Ž3294	1,4
224	3309	Gornji Hrastovac	745	756	ACP	L33119	L33126	1,5
225	1924	Šenkovec - east	2491	2707	ACP	Ž3033	Ž3035	1,2
225	1925	Zaprešić - east	18900	18268	ACP	Ž2186	D1	4,1
227	1243	Brezje	5341	5348	ACC	Ž2015	D209	2,4
228	1805	Kamanje	1250	1410	ACC	L34021	Ž3296	7,2
228	1934	Drežnik	6971	6886	ACC	Ž3143	D1	6,4
229	1127	Zagorska Sela	558	557	ACC	L22025	D205	4,0
231	1933	Sveta Nedelja	20909	19014	ACC	Ž3061	A3	0,6
232	3316	Drenov Bok	262	289	ACC	Ž3249	D47	12,8
300	2705	Grando	4877	6190	ACP	L50006	L50008	2,8
301	2720	Bužinija - south	5413	8931	ACP	D75	Ž5070	3,7
302	2711	Žbandaj	11438	16145	ACP	L50089	Ž5072	3,6
303	2716	Sošići	7399	13598	ACP	Ž5096	L50128	7,4
306	4821	Privlaka - north	3987	8917	ACP	L63168	Ž6273	2,9
306	4808	Kožino	11039	21792	ACC	L63049	L63052	2,3
307	1936	Oroslavje	4998	5029	ACC	L22069	L22069	0,5
307	1901	Stubičke Toplice	6766	6789	ACP	L22071	Ž2200	1,7
307	1236	Gusakovec	1093	1228	ACP	Ž2201	L22078	5,2
315	5425	Pantana	15231	21181	ACC	D126	D409	2,7
401	3911	Pula airport	3032	5044	ACP	D66	Ž5120	1,6
407	4827	Zadar	20649	27725	ACP	port	D8	3,8
408	2035	Velika Gorica northern bypass	6616	5186	ACC	airport	D30	3,8
414	6401	Golubnica	1956	4289	ACP	Ž69025	D415	6,7
414	6502	Putniković	1703	3551	ACC	Ž6226	L69030	6,0
414	6505	Zamaslina	3048	5553	ACC	L69066	D8	5,1
415	6404	Košarni Do	1069	2287	ACC	L69026	D414	1,4
417	2517	Nemetin	4492	4988	ACP	port	D2	2,3
422	4828	Zemunik	2888	4128	ACP	D424	airport	3,9
423	3625	Slavonski Brod 1	12018	11759	ACC	D514	D72	2,8
424	4820	Gaženica	8546	12296	ACC	D8	D422	3,9
429	4311	Jezerce	4217	9502	ACP	L59025	D1	9,9
500	2811	Vranja	2176	3305	ACC	L50084	L50087	5,3
501	2926	čv. Oštrovica - south	3018	6929	ACP	D3	Ž5059	7,4
501	2918	Križišće	1559	2631	ACC	Ž5063	L58107	3,7
502	4924	Smilčić - east	1627	2320	ACP	Ž6023	Ž6019	6,6
503	4917	Kakma	3532	6283	ACP	L63126	L63119	1,5
507	1129	Martinišće	5467	5333	ACC	Ž2189	D205	2,0
510	2748	Kaštel - north	5961	11055	ACP	D200	Ž5209	0,6
512	6036	Makarska - east	2045	2903	ACP	D8	Ž6198	5,6
514	3622	Slavonski Brod - east	5588	5785	ACP	D53	D423	1,9
515	3621	Bračevci	1504	1621	ACC	L44100	L44101	3,4
516	6701	Pločice	920	1645	ACP	D8	Ž6240	4,6
517	2504	Majiške Međe	1279	1496	ACP	Ž4041	L44030	1,2
517	2403	Belišće - north	1160	1240	ACC	L44026	Ž4050	4,5

**Table 3.1. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**SR 2017**

ROAD LABEL	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
<b>518</b>	2509	Brijest	<b>4747</b>	<b>4694</b>	ACC	D2	Ž4086	3,4
<b>519</b>	3704	Borovo - north	<b>1299</b>	<b>1661</b>	ACP	L44116	L46003	4,8
<b>522</b>	4918	Lovinac	<b>2297</b>	<b>5270</b>	ACC	L59112	Ž5165	7,8
<b>525</b>	3508	Krajačići	<b>1596</b>	<b>1817</b>	ACP	Ž4162	Ž4244	8,5
<b>525</b>	3525	Gornji Andrijevci	<b>5609</b>	<b>5714</b>	ACC	Ž4244	L42030	2,5
<b>540</b>	1260	Jertovec	<b>2152</b>	<b>2230</b>	ACP	L22060	Ž2205	3,7
<b>540</b>	2037	Komin	<b>1891</b>	<b>1839</b>	ACC	L31003	D3	0,3

Estimate

**Table 3.2. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA**

MW 2017

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION	
	Label	Name	AADT	ASDT		Description	Length (km)
A1	1916	Lučko - south	36155	62116	TCTS	čv. Lučko - čv. Zdenčina	15,4
A1	1931	Zdenčina - south	35598	62693	TCTS	čv. Zdenčina - čv. Jastrebarsko	6,7
A1	1920	Jastrebarsko - south	33179	61187	TCTS	čv. Jastrebarsko - čv. Karlovac	18,2
A1	1804	Karlovac - south	26635	53419	TCTS	čv. Karlovac - čv. Novigrad	11,5
A1	3027	Novigrad - west	26218	54286	TCTS	čv. Novigrad - čv. Bosiljevo 1	13,6
A1	3021	Bosiljevo 1 - west	26848	56288	TCTS	čv. Bosiljevo 1 - čv. Bosiljevo 2	3,9
A1	3009	čv. Bosiljevo 2 - south	17175	42854	TCTS	čv. Bosiljevo 2 - čv. Ogulin	21,1
A1	3025	Ogulin - south	16198	41341	TCTS	čv. Ogulin - čv. Brinje	28,3
A1	4214	Brinje - south	16062	41221	TCTS	čv. Brinje - čv. Žuta Lokva	11,1
A1	4215	Žuta Lokva - south	15707	39586	TCTS	čv. Žuta Lokva - čv. Otočac	11,5
A1	4216	Otočac - south	15371	39041	TCTS	čv. Otočac - čv. Perušić	32,1
A1	4217	Perušić - south	15202	38840	TCTS	čv. Perušić - čv. Gospić	11,2
A1	4919	Gospić - south	15003	38579	TCTS	čv. Gospić - čv. Gornja Ploča	23,0
A1	4903	Gornja Ploča - south	17007	43805	TCTS	čv. Gornja Ploča - čv. Sveti Rok	5,6
A1	4909	Sveti Rok - south	16814	43852	TCTS	čv. Sveti Rok - čv. Maslenica	32,7
A1	4805	Maslenica - south	17217	44092	TCTS	čv. Maslenica - čv. Posedarje	7,2
A1	4806	Posedarje - south	16338	41582	TCTS	čv. Posedarje - čv. Zadar 1	3,6
A1	4809	Zadar 1 - south	13076	33933	TCTS	čv. Zadar 1 - čv. Zadar 2	9,0
A1	4921	Zadar 2 - south	13563	33480	TCTS	čv. Zadar 2 - čv. Benkovac	16,4
A1	5313	Benkovac - south	12562	30820	TCTS	čv. Benkovac - čv. Pirovac	21,5
A1	5314	Pirovac - south	11770	28000	TCTS	čv. Pirovac - čv. Skradin	9,8
A1	5315	Skradin - south	12172	28254	TCTS	čv. Skradin - čv. Šibenik	9,2
A1	5316	Šibenik - south	11072	25731	TCTS	čv. Šibenik - čv. Vrpolje	14,6
A1	5410	Vrpolje - south	11178	25791	TCTS	čv. Vrpolje - čv. Prgomet	17,5
A1	5411	Prgomet - south	9940	22336	TCTS	čv. Prgomet - čv. Vučevica	14,2
A1	5417	Vučevica - south	9986	22368	TCTS	čv. Vučevica - čv. Dugopolje	14,1
A1	5517	Dugopolje - south	10395	20868	TCTS	čv. Dugopolje - čv. Bisko	10,2
A1	5911	Bisko - south	8383	18231	TCTS	čv. Bisko - čv. Blato na Cetini	18,1
A1	5912	Blato na Cetini - south	8623	18322	TCTS	čv. Blato na Cetini - čv. Šestanovac	6,9
A1	6015	Šestanovac - south	8032	16681	TCTS	čv. Šestanovac - čv. Zagvozd	11,5
A1	6017	Zagvozd - south	5169	10792	TCTS	čv. Zagvozd - čv. Ravča	29,7
A1	6021	Ravča - south	5005	10562	TCTS	čv. Ravča - čv. Vrgorac	9,7
A1	6028	Vrgorac - south	4718	10076	TCTS	čv. Vrgorac - čv. Ploče	10,3
A1	6030	čv. Ploče - south	3687	8174	TCTS	čv. Ploče - Karamatići	5,4
A2	1114	Đurmanec - north	8909	18950	TCTS	čv. Trakošćan - čv. Đurmanec	7,5
A2	1113	Krapina - north	9658	20394	TCTS	čv. Đurmanec - čv. Krapina	10,3
A2	1116	Začretje - north	12759	23380	TCTS	čv. Krapina - čv. Začretje	4,8
A2	1115	Mokrice - north	13845	24414	TCTS	čv. Začretje - čv. Mokrice	12,8
A2	1904	Zaprešić - north	16282	26652	TCTS	čv. Mokrice - čv. Zaprešić	16,5
A3	1910	Bobovica - west	11810	16965	TCTS	Slovenija - čv. Bobovica	2,5
A3	2027	Zagreb (east) - east	26751	34382	TCTS	čv. Rugvica - čv. Ivanić Grad	16,5
A3	2114	Ivanić Grad - east	23823	31591	TCTS	čv. Ivanić Grad - čv. Križ	9,5
A3	2121	Križ - east	22926	30926	TCTS	čv. Križ - čv. Popovača	13,4
A3	2118	Popovača - east	22528	30799	TCTS	čv. Popovača - čv. Kutina	17,7
A3	3302	Kutina - east	19969	28107	TCTS	čv. Kutina - čv. Novska	21,1

**Table 3.2. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC  
WITH GENERAL COUNT SITES DATA /cont./**

**MW 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION	
	Label	Name	AADT	ASDT		Description	Length (km)
A3	3405	Novska - east	18515	26274	TCTS	čv. Novska - čv. Okučani	24,8
A3	3407	Okučani - east	16985	24194	TCTS	čv. Okučani - čv. Nova Gradiška	15,4
A3	3510	Nova Gradiška - east	15952	22971	TCTS	čv. Nova Gradiška - čv. Lužani	22,5
A3	3514	Lužani - east	15822	22728	TCTS	čv. Lužani - čv. Slavonski Brod (west)	20,3
A3	3511	Slavonski Brod (west) - east	12560	18772	TCTS	čv. Slavonski Brod (west) - čv. Slavonski Brod (east)	11,5
A3	3609	Slavonski Brod (east) - east	13818	19998	TCTS	čv. Slavonski Brod (east) - čv. Sredanci	20,1
A3	3617	čv. Sredanci - east	11429	17462	TCTS	čv. Sredanci - čv. Velika Kapanica	7,5
A3	3613	Velika Kapanica - east	10297	15958	TCTS	čv. Velika Kapanica - čv. Babina Greda	12,6
A3	3714	Babina Greda - east	10429	16067	TCTS	čv. Babina Greda - čv. Županja	12,2
A3	3716	Županja - east	7121	11637	TCTS	čv. Županja - čv. Spačva	17,2
A3	3807	Spačva - east	7041	11467	TCTS	čv. Spačva - čv. Lipovac	12,8
A4	1303	Čakovec - north	3485	11170	TCTS	čv. Goričan - čv. Čakovec	14,0
A4	1306	Ludbreg - north	5519	13562	TCTS	čv. Čakovec - čv. Ludbreg	8,2
A4	1212	Varaždin - north	6639	14701	TCTS	čv. Ludbreg - čv. Varaždin	7,2
A4	1215	Varaždinske Toplice - north	11449	20294	TCTS	čv. Varaždin - čv. Varaždinske Toplice	6,3
A4	1220	Novi Marof - north	10607	19498	TCTS	čv. Varaždinske Toplice - čv. Novi Marof	8,3
A4	1225	Breznički Hum - north	10733	19646	TCTS	čv. Novi Marof - čv. Breznički Hum	9,7
A4	1229	Komin - north	11239	20147	TCTS	čv. Breznički Hum - čv. Komin	12,3
A4	2002	Sveta Helena - north	11675	20487	TCTS	čv. Komin - čv. Sveta Helena	10,6
A5	2515	Osijek - south	2361	2841	TCTS	čv. Osijek - čv. Čepin	8,8
A5	3620	Čepin - south	3001	3574	TCTS	čv. Čepin - čv. Đakovo	23,8
A5	3616	Đakovo - south	3515	4174	TCTS	čv. Đakovo - čv. Sredanci	21,0
A5	3629	čv. Sredanci - south	226	277	TCTS	čv. Sredanci - čv. Svilaj	2,6
A6	3022	čv. Bosiljevo 2 - west	13385	23145	TCTS	čv. Bosiljevo 2 - čv. Vrbovsko	13,8
A6	3006	Vrbovsko - west	13841	23714	TCTS	čv. Vrbovsko - čv. Ravna Gora	15,3
A6	2906	Ravna Gora - west	13761	23621	TCTS	čv. Ravna Gora - čv. Delnice	11,0
A6	2910	Delnice - west	14412	24904	TCTS	čv. Delnice - čv. Vrata	8,9
A6	2915	Vrata - west	14272	24744	TCTS	čv. Vrata - čv. Oštrovica	12,4
A6	2933	Oštrovica - west	11238	17602	TCTS	čv. Oštrovica - čv. Kikovica (Rijeka)	9,0
A7	2818	TS Rupa	8165	17600	TCTS	čv. Rupa - čv. Jurdani	9,5
A7	2823	Rujevica - west	29324	35150	ACC	A8 - D427	6,0
A8	2741	Kanfanar - east	5676	9917	TCTS	čv. Kanfanar - čv. Žminj	7,3
A8	2743	Žminj - east	5394	9329	TCTS	čv. Žminj - čv. Rogovići	10,9
A8	2745	Rogovići - east	6799	10969	TCTS	čv. Rogovići - čv. Ivoli	5,8
A8	2824	Ivoli - east	7689	11863	TCTS	čv. Ivoli - čv. Cerovlje	4,9
A8	2826	Cerovlje - east	7433	11556	TCTS	čv. Cerovlje - čv. Lupoglav	12,8
A8	2828	Lupoglav - east	8306	12084	TCTS	čv. Lupoglav - čv. Vranja	5,9
A8	2830	Vranja - east	9184	13240	TCTS	čv. Vranja - čv. Veprinac	9,7
A9	2729	Umag - south	7804	17426	TCTS	čv. Umag - čv. Buje	6,0
A9	2731	Buje - south	8729	19053	TCTS	čv. Buje - čv. Nova Vas	6,2
A9	2733	Nova Vas - south	7472	16907	TCTS	čv. Nova Vas - čv. Višnjan	14,3
A9	2735	Višnjan - south	7183	15960	TCTS	čv. Višnjan - čv. Baderna	7,6
A9	2737	Baderna - south	7339	16204	TCTS	čv. Baderna - čv. Medaki	7,7
A9	2739	Medaki - south	7783	16492	TCTS	čv. Medaki - čv. Kanfanar	7,4
A9	2727	Kanfanar - south	7925	15942	TCTS	čv. Kanfanar - čv. Vodnjan (north)	14,5

**Table 3.2. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC  
WITH GENERAL COUNT SITES DATA /cont./**

**MW 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION	
	Label	Name	AADT	ASDT		Description	Length (km)
<b>A9</b>	3907	Vodnjan (north) - south	<b>6378</b>	<b>13255</b>	TCTS	čv. Vodnjan (north) - čv. Vodnjan (south)	6,2
<b>A9</b>	3909	Vodnjan (south) - south	<b>6630</b>	<b>13059</b>	TCTS	čv. Vodnjan (south) - čv. Pula	6,9
<b>A10</b>	6105	čv. Ploče - east	<b>1953</b>	<b>3849</b>	TCTS	čv. Kula Norinska - čv. Ploče	6,7
<b>A11</b>	2031	Mraclin - south	<b>4123</b>	<b>4056</b>	TCTS	Mraclin - Buševac	9,0
<b>A11</b>	2047	Buševac - south	<b>3691</b>	<b>3642</b>	TCTS	Buševac - Lekenik	11,2

**Table 3.3. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA**

**CR 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
1036	2049	Otok Svibovski	2015	2055	ACC	G.A.P.	L10161	4,7
1037	1939	Bregana Pesarovinska	1839	2070	ACC	L31186	Ž3106	3,1
2002	1249	Jalšovec	766	799	ACC	L20084	D227	1,2
2003	1322	Turčišće	1992	2016	ACC	L20030	Ž2023	2,8
2005	1242	Selnica	3046	3106	ACC	Ž2006	Ž2253	2,0
2009	1241	Macinec	2207	2209	ACC	L20005	D208	1,5
2015	1240	Nedelišće	4086	3928	ACC	L20052	D3	1,4
2022	1333	Mala Subotica	957	966	ACC	L20035	D20	2,3
2026	1334	Prelog - north	3092	3077	ACC	Ž2255	D20	3,6
2033	1335	Čehovec	1555	1378	ACC	L20058	D20	3,1
2040	1321	Kotoriba	2363	2290	ACC	L20045	Ž2041	2,2
2042	1131	Cvetlin	765	1394	ACC	border	Ž2056	1,8
2043	1261	Zlogonje	111	125	ACP	border	L25204	0,4
2050	1253	Remetinec	1315	1285	ACC	L25128	L25130	1,3
2063	1250	Črešnjevo	2680	2678	ACC	Ž2066	L25074	2,2
2072	1336	Struga	569	577	ACC	L25099	L25100	5,1
2076	1328	Veliki Otok	518	540	ACC	L26126	D20	3,9
2081	1330	Rasinja - north	692	680	ACC	Ž2112	D2	3,2
2081	1326	Rasinja	1692	1608	ACC	D2	L26004	2,1
2083	1142	Vrbno	630	705	ACP	L25176	D74	3,6
2089	1331	Križevci, Lepušićeva street	1857	1873	ACC	Ž2180	D22	5,8
2096	1134	Prigorje	1540	1636	ACP	D207	L22091	8,9
2101	1254	Vulišinec	1661	1658	ACC	L25108	Ž2058	2,5
2101	1262	Nova Ves Petrijanečka	1919	1977	ACP	L25070	D2	1,3
2114	1318	Sigetec	1837	1913	ACC	Ž2113	L26032	2,0
2114	1404	Molve	348	404	ACC	L26037	D210	3,3
2125	1130	Mihovljan - west	1411	1419	ACC	L22015	Ž2126	1,5
2143	1316	Hudovljani	720	730	ACC	L26094	L26094	3,8
2150	1325	Delovi	493	553	ACC	Ž2147	D2	6,3
2151	1135	Gaber	827	841	ACP	L22006	L22007	2,2
2155	1136	Klokovec	1583	1619	ACP	L22041	D507	2,3
2160	1137	Štrucljevo	4278	4411	ACP	Ž2161	Ž2195	5,0
2168	1258	Mali Bukovec	1962	2020	ACP	D29	D24	5,2
2169	1259	Borkovec	1408	1475	ACP	Ž2129	Ž2170	0,9
2175	1251	Kračevac	813	790	ACC	L25158	L25163	3,9
2183	1329	Virje	1084	1138	ACC	D2	D43	4,6
2186	1932	Zaprešić - north	8274	7822	ACC	Ž2195	L31079	2,8
2195	1138	Jezero Klanječko	2028	2055	ACP	D205	Ž2191	2,3
2195	1940	Pojatno - south	3848	3581	ACC	L31022	Ž2186	1,6
2209	1327	Križevci, Teslina street	7749	7367	ACC	D22	L26138	1,1
2212	1332	Križevački Lemeš	907	901	ACC	D41	Ž2228	4,6
2217	1938	Stubička Slatina	3319	3318	ACC	Ž2218	L22100	1,7
2220	1941	Ivanec Bistranski	3750	3444	ACC	Ž3007	G.A.P.	5,0
2224	2054	Karivaroš	1475	1531	ACP	L22098	D29	3,5
2231	2130	Siščani	542	540	ACP	D43	Ž3283	3,1

**Table 3.3. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

CR 2017

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
2248	1139	Jelenjak	1066	1154	ACP	Ž2151	Ž2241	5,8
2258	1102	Pleš (Bednja)	1318	1543	ACC	L25012	L25105	2,4
3002	1317	Križevci	2707	2650	ACC	L26064	Ž3034	1,8
3003	2133	Kraljevac	526	528	ACP	Ž2143	L26121	5,0
3016	2052	Brezovec Zelinski	2152	2090	ACC	L31037	Ž3017	2,4
3027	2225	Šandrovac	630	768	ACC	Ž3029	Ž2232	2,5
3034	2050	Dugo Selo - west	11057	9289	ACC	G.A.P.	L31108	2,1
3034	2051	Lonjica	3567	3518	ACC	Ž3075	L31051	1,6
3034	2006	Vrbovečki Pavlovec	4739	4879	ACP	L31054	Ž3052	2,4
3035	1948	Javorje	2150	2166	ACP	L31215	D225	1,7
3041	2055	Kloštar Ivanić	3929	4078	ACP	Ž3122	Ž3074	4,4
3055	1949	Donja Reka	3357	3687	ACP	Ž3104	D1	2,9
3061	1950	Žitarka	7494	7386	ACP	Ž3066	D1	1,9
3063	1947	Bestovje	9105	8308	ACC	D231	Ž3060	2,6
3064	1946	Rakitje	2628	2497	ACC	Ž3063	L31101	1,7
3067	1951	Donji Stupnik	2907	3145	ACP	L10166	D1	3,2
3070	2053	Rugvica	7103	7727	ACC	Ž3034	Ž3073	4,8
3074	2056	Gornja Greda	3716	3869	ACP	Ž3034	L31171	11,0
3082	2132	Donja Šušnjara	196	201	ACP	L37067	L37098	13,0
3090	2134	Tociļjevac	359	368	ACP	L37074	Ž3092	9,0
3101	1942	Brlenić	2421	2477	ACC	Ž3297	L31136	3,7
3102	1945	Volavje	1553	1738	ACC	D1	L31135	4,6
3106	1943	Donja Zdenčina	3092	3676	ACC	D1	L31148	3,6
3106	1944	Kupinec	1193	1368	ACC	L31148	L10165	3,2
3121	2044	Lijeva Luka	508	553	ACC	Ž3041	L33012	6,8
3124	2124	Graberje Ivaničko	3373	3350	ACC	D43	Ž3126	5,9
3124	2126	Popovača	8048	7841	ACC	L33018	Ž3131	0,4
3124	3313	Kutina	5465	5482	ACC	Ž3212	Ž3213	3,4
3124	3314	Brestača	4491	4527	ACC	Ž3429	D47	4,1
3128	2129	Suhaja	1007	1052	ACC	D43	L37096	8,5
3133	2223	Ladislav	686	713	ACC	Ž3282	D45	7,8
3141	3029	Kučevice	348	482	ACC	L34059	L34026	0,9
3144	1808	Tomašnica	353	425	ACP	D6	L34034	2,0
3152	3121	Dugo Selo Lasinjsko	258	301	ACC	L33198	Ž3194	9,4
3167	2136	Ciglenica	1415	1467	ACP	D45	L37140	5,5
3168	3312	Poljana	1672	1713	ACC	Ž4236	Ž3167	5,6
3169	2226	Trojeglava	320	334	ACP	L37149	L37150	3,1
3175	3033	Ogulin - northeast	363	439	ACC	L34104	D42	12,1
3176	3034	Erdelj	580	701	ACC	L34102	L34103	3,7
3179	3036	Novigrad na Dobri	611	717	ACP	L34066	G.A.P.	0,9
3182	3030	Sveti Petar Mrežnički	2524	2956	ACC	Ž3184	Ž3183	3,4
3185	3120	Belaj	1820	1958	ACC	L34080	L34082	2,9
3186	3122	Podgorje	135	149	ACC	D6	L33077	6,3
3189	3118	Krnjak	454	457	ACC	L34116	D1	1,0
3201	3212	Hrastovica	1422	1505	ACC	D30	Ž3235	6,9

**Table 3.3. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**CR 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
3229	3123	Staro Selo Topusko	463	660	ACC	L33080	Ž3228	12,2
3231	3211	Gornje Selište	643	716	ACC	D6	L33086	1,9
3234	3213	Ravno Rašće	249	264	ACC	D6	L33196	2,2
3252	3416	Stari Grabovac	2269	2345	ACC	Ž3250	L33145	11,2
3254	3031	Puškarici	1702	1895	ACC	L34098	D42	0,8
3256	3116	Slunj centre	1174	1759	ACC	L34151	D1	0,7
3258	3115	Gornje Taborište	2624	2966	ACC	D1	L34140	0,3
3266	3117	Gornji Popovac	651	842	ACC	L34153	L34154	6,8
3272	2216	Badljevina - east	606	649	ACC	Ž3172	D5	4,4
3284	2131	Marčani	356	360	ACP	D43	L31126	6,7
3290	3119	Kolarić	2203	2985	ACC	D1	L34125	1,2
3294	3320	Staza	805	...	ACC	D224	L33120	2,9
3294	3315	Donji Cerovljani	496	572	ACC	L33177	L33178	3,7
3297	1807	Podbrežje	1335	1396	ACC	L31185	Ž3099	3,2
3300	2123	Klokočevac	5611	5408	ACC	D28	Bjelovar	0,8
3301	2224	Koreničani	856	887	ACC	L37128	L37130	1,9
3301	2219	Pepelana	824	885	ACC	L40044	Ž4022	4,9
4002	2220	Otrovanec	1996	2007	ACC	D2	L40002	3,2
4002	2227	Velika Pisanica	604	621	ACP	L37081	D28	2,1
4007	2221	Rogovac	884	974	ACC	D2	Ž4008	4,5
4022	2222	Borova	857	932	ACC	G.A.P.	L40024	2,3
4024	2310	Suhopolje	1078	1100	ACC	D538	L40027	1,8
4024	2309	Čađavica	393	401	ACC	L40041	D34	5,3
4030	2308	Krčenik	533	570	ACC	D34	Ž4045	10,2
4030	2311	Crnac	517	575	ACC	Ž4045	L40065	2,8
4030	2312	Orahovica	1374	1451	ACC	Ž4070	L40080	1,3
4030	3519	Ferovac	1115	1198	ACC	Ž4101	L41043	3,7
4030	3518	Gradac	2471	2557	ACC	L41056	D38	3,0
4031	2413	Šljivoševci	901	906	ACC	D53	Ž4049	2,6
4041	2518	Jagodnjak	1332	1390	ACC	D517	Ž4054	13,9
4042	2519	Lug	1643	1791	ACC	L44139	Ž4056	6,2
4050	2414	Belišće - east	5678	3769	ACC	D517	Ž4051	3,3
4052	2415	Harkanovci	866	890	ACC	L44050	L44020	2,8
4067	2416	Brođanci	1130	1267	ACC	D2	Ž4081	5,3
4075	2412	Pribiševci	2649	2628	ACC	Ž4076	D53	2,8
4085	2520	Livana	8716	8505	ACC	Ž4247	G.A.P.	1,9
4100	3527	Donji Lipovac	745	780	ACP	L42010	Ž4158	4,4
4105	3627	Budimci	1516	1561	ACC	L44048	Ž4080	5,2
4106	3628	Krndija	525	610	ACC	Ž4105	L44105	3,4
4111	3727	Bobota	1852	1798	ACC	D2	L46002	3,1
4113	3522	Pasikovci - north	233	270	ACC	D38	L41022	5,5
4115	3521	Alilovci	1487	1451	ACC	Ž4101	G.A.P.	6,2
4116	3523	Vetovo	1727	1782	ACC	Ž4101	D51	7,0
4121	3728	Korog	532	519	ACC	Ž4122	Ž4148	6,3
4132	3724	Semeljci	2413	2467	ACC	Ž4130	Ž4133	1,5

**Table 3.3. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**CR 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
4133	3725	Vrbica	1566	1604	ACC	Ž4148	D46	2,7
4137	3729	Bogdanovci	1240	1186	ACC	D55	G.A.P.	9,3
4141	3414	Cernik	4025	4032	ACC	Ž4139	Ž4158	1,9
4150	3730	Petrovci	921	971	ACC	G.A.P.	L46013	3,7
4158	3417	Mašić	3082	3261	ACC	L42005	Ž4156	7,0
4158	3413	Rešetari	5848	6127	ACC	Ž4142	Ž4143	3,0
4170	3731	Andrijaševci	2652	2821	ACC	Ž4166	Ž4167	5,8
4173	3811	Lovas	1523	1666	ACC	Ž4174	D46	5,9
4202	3517	Gromačnik	5101	5197	ACC	D525	D53	8,9
4202	3624	Bukovlje	6558	6652	ACC	L42040	Ž4187	3,9
4202	3631	Čajkovci	2346	2416	ACC	Ž4190	D7	4,8
4210	3623	Gornja Vrba	4274	4106	ACC	G.A.P.	Ž4215	2,3
4218	3735	Babina Greda	1426	1499	ACP	Ž4220	L46017	5,5
4224	3736	Komletinci	2135	2336	ACP	D537	Ž4225	11,0
4236	3415	Dobrovac	2013	2050	ACC	L41005	D47	4,0
4244	3526	Malino	2879	3079	ACC	L41067	Ž4204	3,7
4257	2521	Mece	4747	4660	ACC	L44033	Ž4042	6,2
4257	2506	Podravlje	8016	7896	ACC	Ž4042	G.A.P.	5,0
4295	2417	Donji Miholjac - east	3227	3270	ACC	D53	D34	2,4
4299	4502	Vrbanja	1124	1212	ACC	Ž4229	Ž4230	8,7
5003	2755	Marija na Krasu	4107	6523	ACC	L50005	D75	3,1
5007	2753	Karojba	2098	2709	ACC	L50059	Ž5042	1,9
5011	2756	Buzet	511	633	ACC	L50070	D44	17,2
5012	2837	Permani	2695	3025	ACC	Ž5015	D8	1,2
5017	2838	Škalnica	780	834	ACC	L58012	L58013	0,8
5021	2833	Kastav	9325	9438	ACC	Ž5206	Ž5020	1,5
5025	2834	Viškovo	6320	5947	ACC	Ž5017	Ž5021	2,5
5033	2942	Kuželj	123	172	ACC	border	D203	12,0
5034	2939	Ravna Gora	1562	1755	ACC	A6	Ž5069	1,0
5042	2758	Nova Vas	2810	4033	ACP	L50046	A9	4,0
5046	2759	Novaki Pazinski	1727	2398	ACP	L50079	L50073	4,8
5047	2832	Bregi	1445	1760	ACC	Ž5048	Ž5052	5,4
5047	2840	Rubeši	7676	8632	ACC	D8	D304	1,8
5055	2839	Dražice	6530	6530	ACC	L58021	Ž5028	1,7
5059	2945	Krasica	2831	2789	ACC	Ž5205	D501	5,8
5062	2940	Fužine	641	950	ACC	D3	Ž5068	6,9
5064	2938	Drivenik	1119	1384	ACC	D501	Ž5089	6,4
5074	2762	Sveti Lovreč	1344	1820	ACP	Ž5209	L50092	0,6
5077	2752	Frkeči	1699	2352	ACC	L50140	L50112	2,4
5079	2760	Laginji	1093	1334	ACP	L50113	L50111	4,4
5094	2943	Donji Zagon	922	1349	ACC	D8	L58083	3,9
5096	2754	Kokuletovcica	4938	8111	ACC	Ž5175	Ž5186	7,7
5103	2835	Salakovci	2571	2948	ACC	D66	L50150	4,8
5115	3913	Šurida	10833	17238	ACC	L50162	D75	2,4
5122	4004	Pavićini	881	3102	ACC	Ž5119	D. Uvala	2,1

**Table 3.3. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**CR 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
5125	2944	Punat	4541	9704	ACC	D102	Stara Baška	12,1
5126	4112	Oltari	226	403	ACC	D8	L59010	14,4
5126	4223	Krasno	228	303	ACC	Ž5140	L59029	0,2
5128	4221	Podum	414	514	ACC	L59034	D50	2,2
5139	4108	Rab	8297	13790	ACC	Kampor	D105	11,1
5140	4222	Krasno - east	452	655	ACC	Ž5126	Ž5146	5,7
5155	4220	Perušić zona	759	976	ACC	A1	59146	3,8
5165	4932	Gornja Ploča	130	234	ACP	L59111	L59113	2,3
5166	4927	Obrovac	580	886	ACC	D54	D27	3,0
5169	4310	Frkašić	253	329	ACC	D1	L59071	5,4
5191	2941	Sunger	791	966	ACC	Ž5068	L58060	5,2
5191	3035	Jezerane - west	191	238	ACC	L34131	D23	15,0
5200	3912	Pomer	2316	4665	ACC	Ž5133	Ž5119	2,3
5203	5007	Malovan	337	533	ACC	Ž6009	D1	1,1
5205	2911	Mavrinci	13206	13715	ACC	A6	L58110	4,8
5209	2702	Kaštel	1948	2886	ACC	D510	L50012	3,2
5209	2707	Sveti Ivan	1577	2131	ACC	L50015	Ž5008	6,0
5209	2719	Vižinada - north	1268	1863	ACP	D44	Ž5041	6,1
5209	2721	Baderna - north	2104	3143	ACC	L50095	D48	2,7
5209	2761	Medaki	3231	4601	ACP	A9	D75	1,7
5210	4110	Nova Novalja	6231	18164	ACC	Ž5151	D106	1,6
6007	4823	Mazija	5526	8564	ACC	Ž6011	G.A.P.	1,7
6011	4824	Ninski Stanovi	3048	7651	ACC	Ž6004	L63049	5,7
6019	4830	Posedarje	2019	4013	ACC	D8	Ž6020	1,1
6025	4928	Bilišane	409	812	ACC	Ž6026	L63082	5,9
6026	4933	Zelengrad	208	318	ACP	L63082	Ž6025	8,8
6027	4926	Buković	1720	2037	ACC	L63123	L63130	1,1
6040	4812	Zemunik Donji - north	3359	4102	ACC	L63065	Ž6011	0,9
6042	4826	Galovac	2385	2796	ACC	Ž6040	L63113	3,7
6055	5431	Okljaj	845	996	ACC	L65014	D6056	2,0
6064	5323	Vrana	2203	4015	ACC	Ž6042	L63180	5,0
6086	5332	Tribunj	3699	6431	ACC	D8	L65032	3,5
6087	5333	Srima	2090	4041	ACC	D8	D8	5,0
6092	5432	Radonić	1007	1154	ACC	G.A.P.	L65049	1,9
6098	5433	Radošić	269	273	ACC	L67057	L67020	1,9
6115	5428	Dugobabe	518	564	ACC	L67061	D56	10,7
6126	5330	Rogoznica	4063	7849	ACC	D8	Rogozn.	1,1
6130	5427	Marina - north	1763	2246	ACC	L67054	D8	2,6
6142	5513	Stožanac	11985	14585	ACC	D8	L67116	10,4
6150	5532	Ugljane	799	1008	ACP	L67092	D60	1,2
6157	6033	Glavina Donja	4740	5363	ACC	L67157	D60	1,2
6161	5920	Supetar	2594	4366	ACC	D113	L67171	5,3
6166	5925	Omiš	1464	2581	ACC	D8	L67123	4,6
6182	6024	Kamenmost	3662	4180	ACC	D60	L67162	2,0
6191	5921	Bol	323	820	ACC	Ž6190	D115	19,6

**Table 3.3. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**CR 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
6199	6025	Gornje Igrane	162	193	ACC	L67231	D512	5,9
6208	6023	Vrgorac	1690	1835	ACC	D62	A1	2,2
6208	6035	Staševica	1002	1272	ACC	L69085	Ž6276	6,8
6209	6034	Orah	1454	1960	ACC	L67207	border	0,7
6217	6107	Banja	1683	2230	ACC	D8	L69009	2,4
6227	6507	Bistrina	243	363	ACC	L69088	D8	1,4
6228	6508	Trnova	669	1050	ACC	L69083	L69068	1,2
6238	6606	Cavtat	5256	7393	ACC	Cavtat	D8	2,6
6240	6607	Čilipi	1415	1890	ACC	D8	L69054	3,4
6246	5430	Drniš - west	1970	2105	ACC	L65027	Ž6055	3,1
6253	5508	Klis	5001	5531	ACC	L67075	L67074	3,9
6260	5525	Dugopolje - north	3600	3971	ACC	Ž6145	Ž6146	4,8
6260	5529	Bisko	2851	3200	ACC	Ž6147	Ž6148	2,2
6260	5922	Katuni	1548	2037	ACC	L67100	D39	2,4
6263	5923	Blato na Cetini	853	1100	ACC	Ž6260	D70	2,8
6268	6302	Čara	588	1082	ACC	L69021	L69022	1,1
6276	6009	Baćina	2226	3136	ACC	L69003	D8	1,4
6277	5307	Bilice	2362	3340	ACC	D33	L65040	5,2
6286	5327	Vodice	10090	14676	ACC	Ž6086	Ž6087	1,0
6287	5528	Bajagić	399	449	ACC	Ž6105	D219	8,0
6289	5527	Grab	1629	...	ACC	L67047	D220	1,5

... No data

ADT

Estimate

**Table 3.4. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA**

**LR 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
20033	1239	Vularija	887	887	ACC	G.A.P.	L20028	0,6
20039	1320	Prelog	2313	2452	ACC	L20038	L20067	4,3
22010	1140	Ravninsko	764	820	ACP	D1	D74	7,3
22030	1141	Lučelnica	882	908	ACP	L22077	Ž2215	3,4
25037	1263	Peščenica Vinička	280	319	ACP	L25036	Ž2056	3,7
25084	1264	Novakovec	170	182	ACP	D530	Ž2052	2,7
25100	1338	Čukovec	478	492	ACP	Ž2079	D2	3,0
25150	1252	Ljubešćica - east	826	912	ACC	D24	L25147	2,8
26003	1248	Vukovec	457	477	ACC	D22	L26047	2,8
26108	1406	Đurđevac - east	762	840	ACP	L26107	Ž2214	1,6
26154	1337	Koprivnički Ivanec	462	495	ACP	Ž2112	D20	3,5
26157	1407	Molve - south	482	571	ACP	D210	Ž2184	7,3
31039	2057	Paukovec	526	522	ACP	Ž3039	L31105	3,5
31075	2139	Žabnica	622	645	ACP	Ž3041	L31074	2,9
31102	1952	Stupnički Obrež	3346	3414	ACP	D1	L31103	2,6
31108	2058	Martin Breg	1460	1490	ACP	Ž3034	L10162	2,0
31178	2059	Deanovec	836	871	ACP	Ž3125	Ž3127	5,7
31420	3124	Veljun	126	175	ACP	L34122	D1	1,7
33018	2137	Moslavačka Slatina	945	947	ACP	M. Slat.	Ž3124	7,0
33023	2138	Čaire	702	710	ACP	L33025	Ž3164	4,6
33042	3214	Cepeliš	285	317	ACP	Ž3233	L33046	6,3
33071	3317	Mišinka	340	359	ACC	L33070	Ž3213	6,3
33141	3319	Kozarice	470	475	ACP	Ž3124	L33142	3,6
34101	3037	Ogulin	5222	5621	ACP	D42	D42	1,6
34104	3038	Tounj	280	337	ACP	Ž3175	Ž3220	11,1
34137	3039	Cerovnik	656	885	ACP	D23	D42	13,1
37008	2135	Kovačevac	313	321	ACP	D28	L26121	3,2
40003	2229	Pitomača Dravska	1527	1581	ACP	D2	L40004	6,5
40022	2228	Donje Cjepidlake	183	198	ACP	L37131	L37133	4,7
40029	2313	Budanica	300	322	ACP	L40030	L40031	0,9
40074	2314	Bukvik	205	218	ACP	Ž4070	Ž4062	4,3
41059	3529	Frkljevci	532	581	ACP	D525	Ž4185	2,7
41077	3520	Velika	554	552	ACC	Ž4253	Ž4101	4,5
42016	3418	Donji Bogičevci	87	97	ACP	Ž4155	D5	8,8
42036	3528	Jelas Polje	399	420	ACP	Ž4206	Ž4228	9,8
44055	2524	Petrijevci - south	940	986	ACP	Ž4061	D2	2,6
44083	3726	Silaš	842	867	ACC	L44114	Ž4122	2,2
44086	3734	Marinovci	399	468	ACP	D213	L44115	3,3
44093	3632	Ceremošnjak	344	369	ACP	Ž4168	L44095	8,8
44099	3633	Ostrošinci	285	318	ACP	D515	Ž4118	9,3
44110	3733	Antunovac	1471	1481	ACP	D518	G.A.P.	6,3
46026	3737	Privlaka	227	242	ACP	Ž4172	L46027	3,5
46042	3732	Županja - north	3514	3626	ACC	Ž4170	L46043	0,5
50040	2763	Fiorini	1028	1728	ACP	D75	Ž5070	4,2
50109	2764	Mandalenčići	859	1019	ACP	Ž5079	L50110	2,8

**Table 3.4. AVERAGE ANNUAL AND AVERAGE SUMMER DAILY TRAFFIC WITH GENERAL COUNT SITES DATA /cont./**

**LR 2017**

Road Label	COUNT SITE		TRAFFIC		Count Method	COUNT SECTION		
	Label	Name	AADT	ASDT		Beginning	End	Length (km)
<b>50120</b>	2836	Tupljak	<b>1214</b>	<b>1280</b>	ACC	L50086	D64	3,7
<b>50158</b>	3914	Marana	<b>870</b>	<b>1193</b>	ACP	Ž5115	Ž5192	2,1
<b>50185</b>	2841	Štrmac	<b>5081</b>	<b>7601</b>	ACP	Ž5081	D66	0,8
<b>58115</b>	4005	Nerezine	<b>831</b>	<b>1483</b>	ACC	D100	Nerezine	3,8
<b>59001</b>	4111	Senj	<b>2527</b>	<b>3056</b>	ACC	L59002	D8	8,6
<b>59019</b>	4224	Kompolje	<b>344</b>	<b>499</b>	ACC	D50	Ž5140	2,9
<b>59064</b>	4312	Debelo Brdo	<b>127</b>	<b>200</b>	ACP	D1	D25	8,6
<b>59077</b>	4109	Caska	<b>1859</b>	<b>5201</b>	ACC	D106	Metajna	10,6
<b>63001</b>	4831	Bošana	<b>1189</b>	<b>2826</b>	ACP	L63006	D106	0,5
<b>63003</b>	4701	Kolan	<b>1266</b>	<b>2855</b>	ACP	L63002	Mandre	3,7
<b>63013</b>	5008	Kruškovače	<b>153</b>	<b>209</b>	ACC	Ž5203	BiH	9,7
<b>63104</b>	4832	Debeljak	<b>1089</b>	<b>1389</b>	ACP	Ž6041	Ž6040	2,1
<b>63176</b>	5201	Biograd	<b>1486</b>	<b>3789</b>	ACC	D503	Ž6063	3,2
<b>65011</b>	5009	Knin	<b>1686</b>	<b>1566</b>	ACC	Ž6080	L65010	1,0
<b>65050</b>	5429	Drniš - east	<b>4455</b>	<b>4800</b>	ACC	L65051	D33	0,3
<b>65075</b>	5334	Primošten	<b>2066</b>	<b>3755</b>	ACC	D8	L65076	2,4
<b>65076</b>	5331	Draga	<b>511</b>	<b>643</b>	ACC	Ž6127	L65075	4,2
<b>67020</b>	5434	Trolokve	<b>139</b>	<b>137</b>	ACC	Ž6112	L67056	5,9
<b>67029</b>	5530	Zelovo	<b>371</b>	<b>361</b>	ACC	L67014	D1	10,7
<b>67040</b>	5531	Sinj - southeast	<b>3852</b>	<b>4629</b>	ACC	D1	L67039	4,0
<b>67065</b>	5435	Solin Donja Strana	<b>5883</b>	<b>6774</b>	ACP	D8	Ž6253	3,4
<b>67075</b>	5533	Klis Kosa	<b>1936</b>	<b>2169</b>	ACP	Ž6253	Ž6253	7,6
<b>67076</b>	5534	Podi	<b>1976</b>	<b>2359</b>	ACP	D56	Ž6260	5,9
<b>67194</b>	5924	Pitve	<b>1256</b>	<b>2588</b>	ACC	L67190	D116	1,8
<b>69010</b>	6108	Opuzen	<b>1612</b>	<b>2365</b>	ACC	D8	Ž6219	2,3
<b>69012</b>	6109	Krvavac	<b>2376</b>	<b>2412</b>	ACC	L69013	Ž6220	1,8
<b>unclas.</b>	2014	Velika Mlaka	<b>27428</b>	<b>23627</b>	ACC	V. Mlaka	V. Gorica	2,0
<b>unclas.</b>	3125	Roknići	<b>260</b>	<b>307</b>	ACP	Ž3228	Ž3229	9,0
<b>unclas.</b>	6032	Ploče Birina	<b>5581</b>	<b>6727</b>	ACC	D8	Ž6216	0,8

# STATE ROADS AND MOTORWAYS: TOLL-PAID TRAFFIC COUNTING



## 4. STATE ROADS AND MOTORWAYS: TOLL-PAID TRAFFIC COUNTING

In the fourth chapter of this Digest the basic data about traffic volumes collected through “toll-paid” counts on toll roadways can be found. This chapter deals only with data collected on so called closed toll-collecting systems. In our country, the described method of counting is used at the following motorway sections: Lučko – Kikovica (partly A1 up to intersection Bosiljevo 2 and A6 after that), Bosiljevo 2 – Karamatići (A1), Macelj – Zaprešić (A2), Zagreb (east) – Lipovac (A3), Goričan – Sv. Helena (A4), Osijek – Svilaj (A5), Kanfanar - Učka (A8) and Umag - Pula (A9). We note that the given data is obtained through processing the data acquired off the tollbooths.

All data collected through toll counts have been processed using an adopted methodology of processing for collected data. The results of

processing data collected at toll roadways and processed that way enable their representation in various forms. For mentioned motorways, the results are graphically displayed on illustrations 4 to 9. They clearly exhibit traffic volumes (intensities) at each of the tollgates and cross sections of those motorways.

Among all toll roads the prominent sections, by traffic volumes, continue to be those between Lučko and Karlovac. On the count sections of this motorway already for years the highest AADT and, especially, ASDT values have been recorded, with respect to the other such roadways in Croatia.

At all toll roads in Croatia ASDT is significantly higher than AADT, which demonstrates seasonal variations in their use.

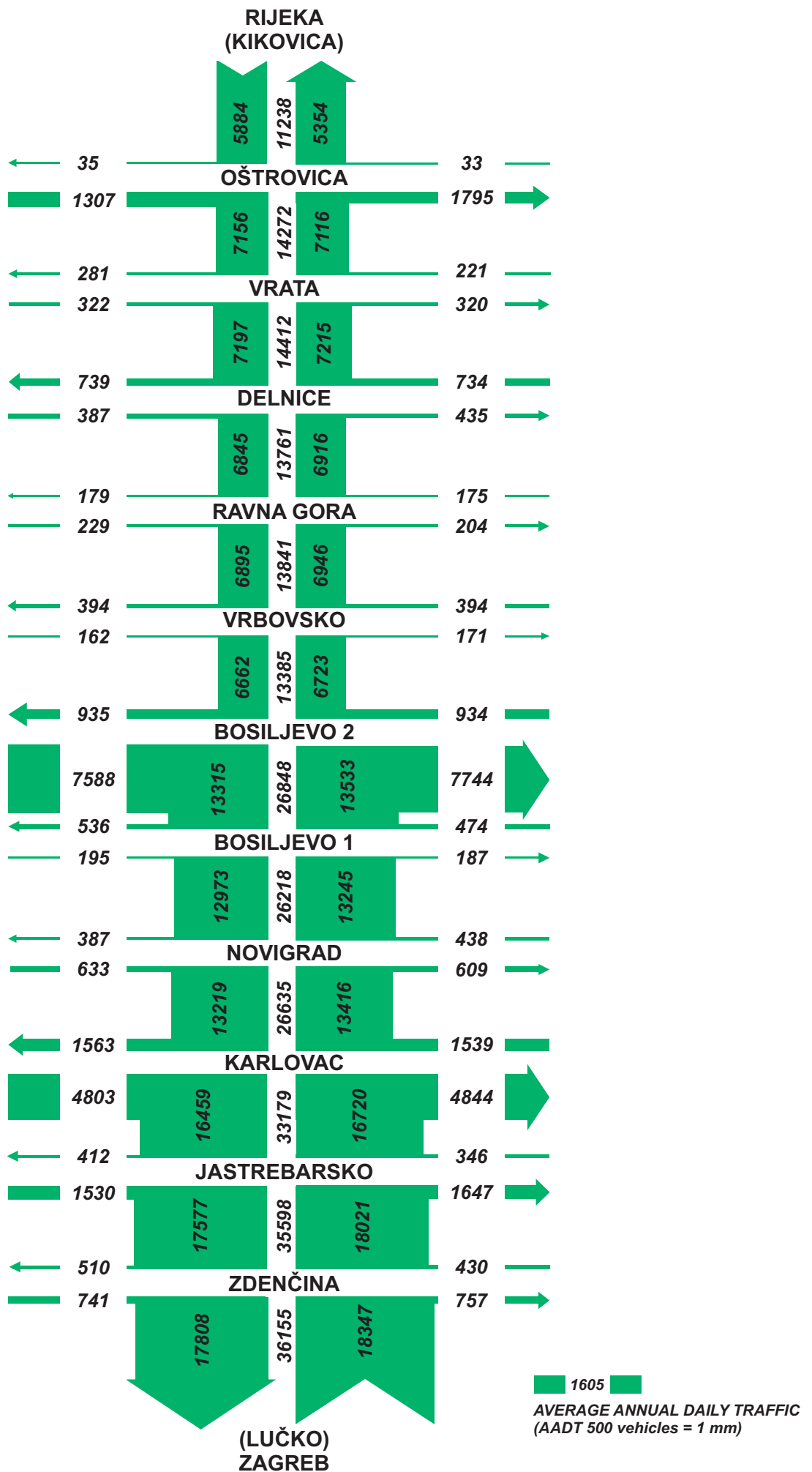


Figure 4. MOTORWAY TRAFFIC; ZAGREB - RIJEKA

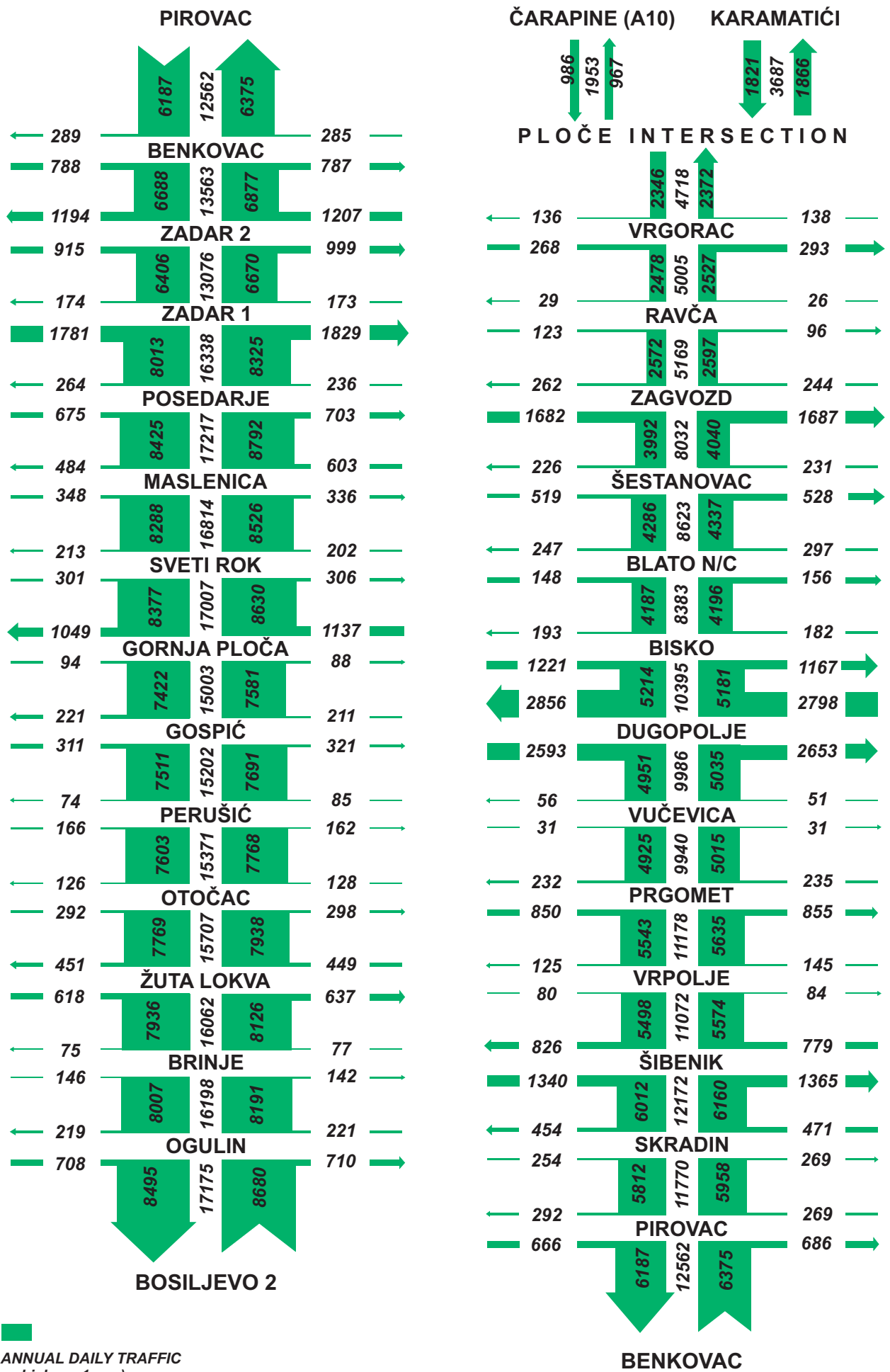
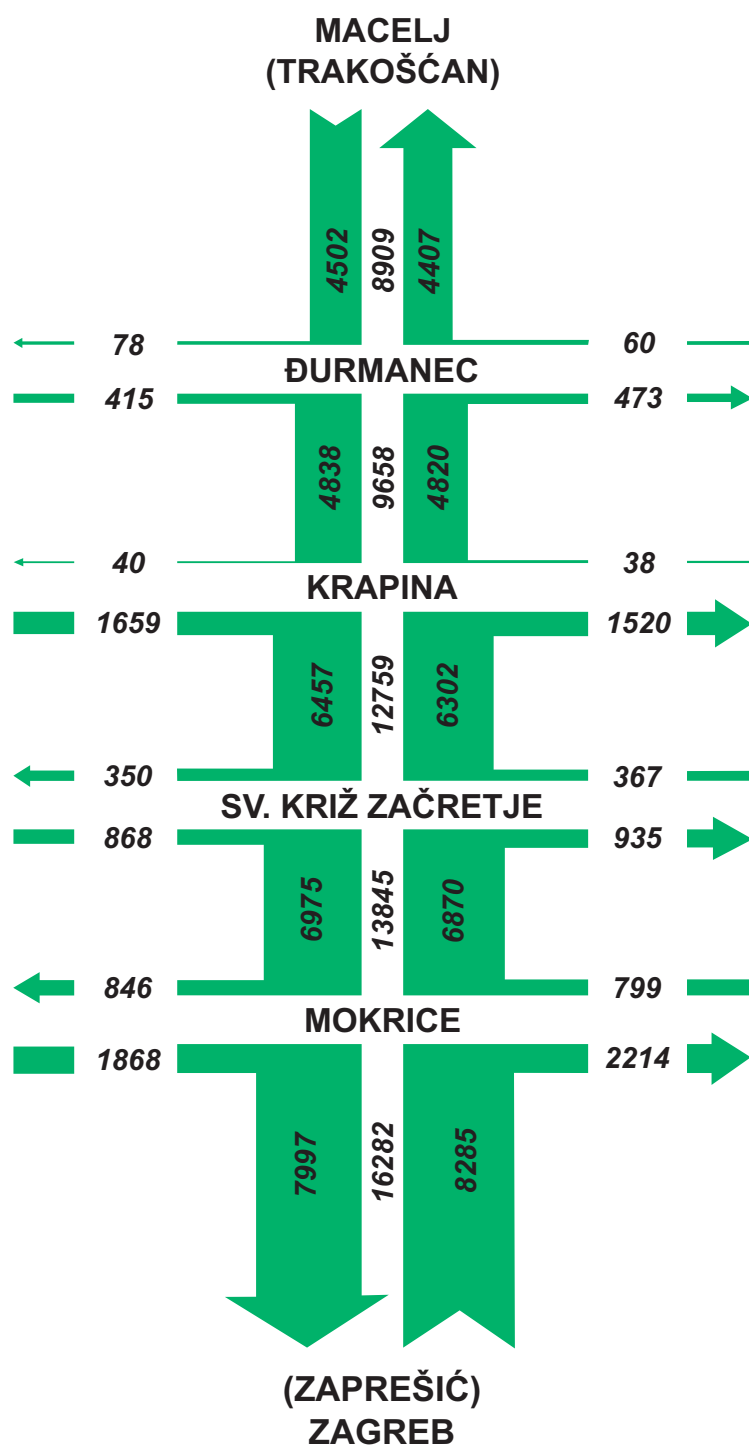


Figure 5. MOTORWAY A1; SECTION BOSILJEVO 2 - PLOČE - KARAMATIĆI/ČARAPINE (A10)

MW - 2017



2569  
 AVERAGE ANNUAL DAILY TRAFFIC  
 (AADT 500 vehicles = 1 mm)

Figure 6. MOTORWAY A2 TRAFFIC MACELJ - ZAGREB

MW - 2017

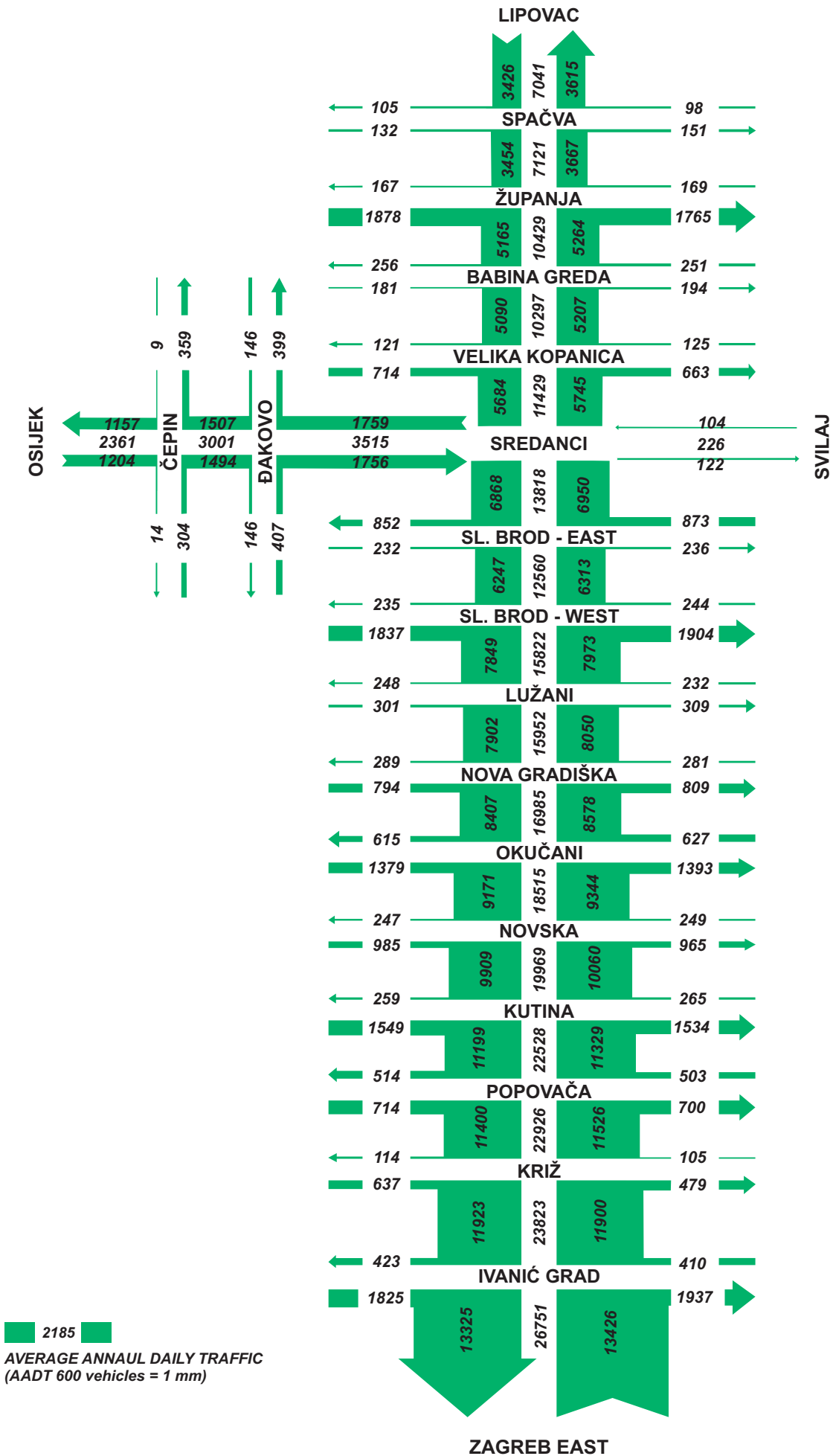
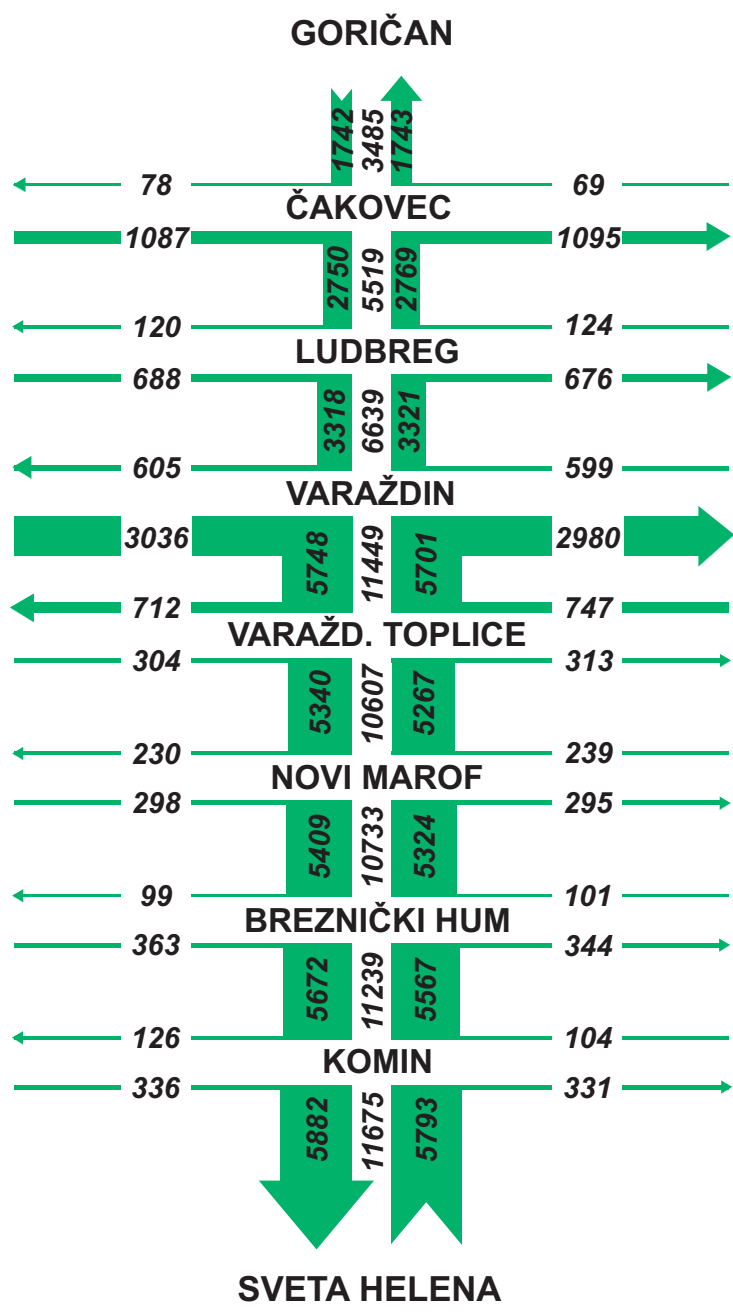


Figure 7. MOTORWAY A3 SECTION ZAGREB (EAST) - LIPOVAC  
 MOTORWAY A5 SECTION OSIJEK - SVILAJ



 1004  
 AVERAGE ANNUAL DAILY TRAFFIC  
 (AADT 500 vehicles = 1 mm)

Figure 8. MOTORWAY A4; SECTION GORIČAN - SVETA HELENA

MW - 2017

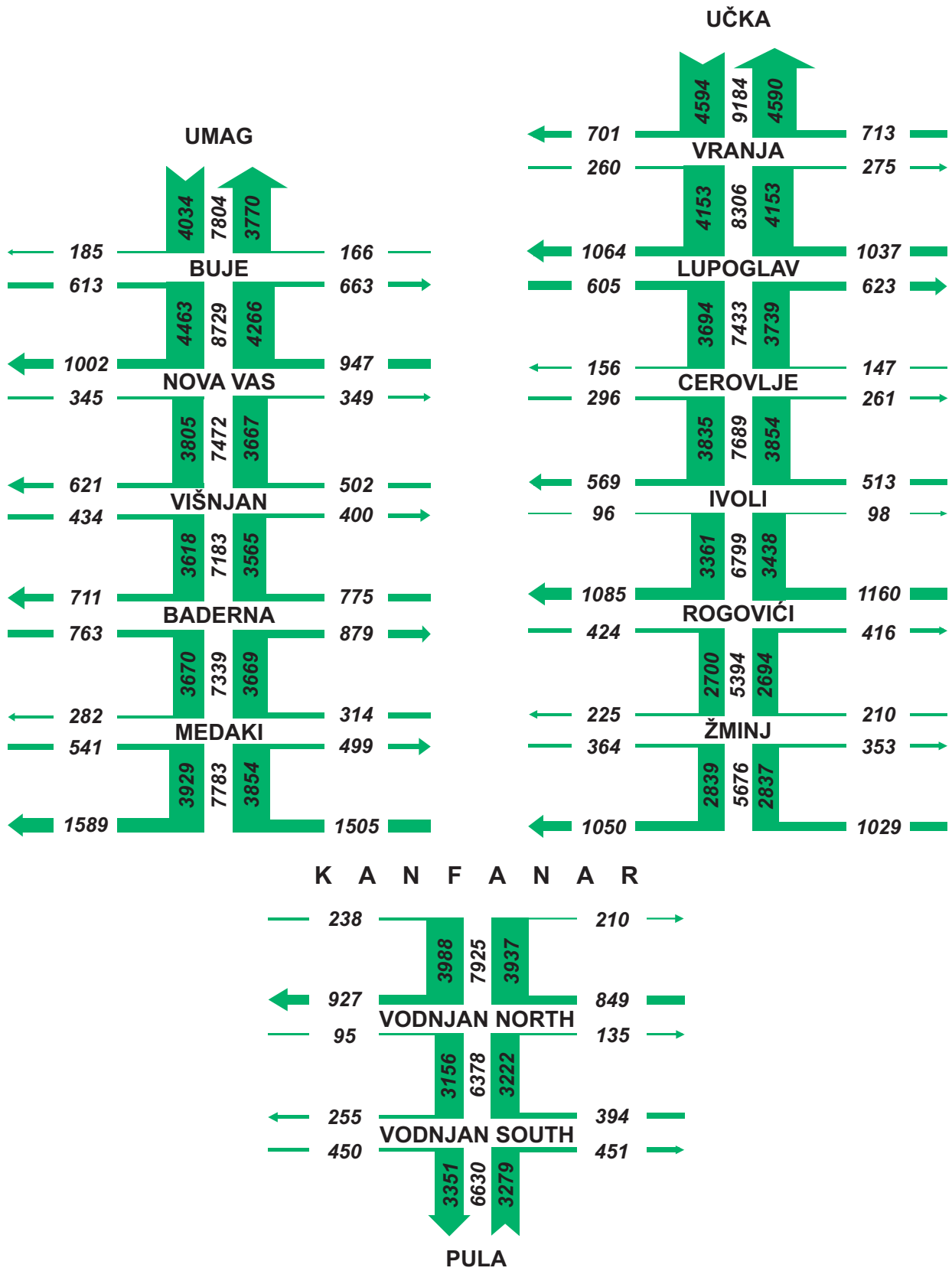


Figure 9. MOTORWAY A8 TRAFFIC; SECTION KANFANAR-UČKA  
MOTORWAY A9 TRAFFIC; SECTION UMAG-PULA

# FERRY LINES VEHICLE TRANSPORTATION



## 5. FERRY LINES VEHICLE TRANSPORTATION

The chosen data about road vehicle transportation on domestic ferry lines in 2017 is presented in Table 5. Data was collected for 24 ferry lines, and the international lines were omitted.

Just as before, some lines excel: Brestova – Porozina, Valbiska – Merag, Jablanac – Mišnjak, Prizna – Žigljen, Zadar – Preko and Split – Supetar. In July and August of 2017 all numbers are significantly higher showing strong seasonal dependency.

Table 5. AADT AND ASDT: STRUCTURE BY VEHICLE TYPES, FERRY LINES

FL 2017

FERRY LINE		Total AADT 100% ASDT 100%	VEHICLE TYPES			
LABEL	NAME		Passenger Cars	Buses	Freight Vehicles	Other Vehicles
334	BRESTOVA POROZINA	229.660	182.291	870	12.605	33.894
		627	498	2	34	93
		100%	79,37	0,38	5,49	14,76
		1726	1442	1	43	240
100%	83,52	0,08	2,47	13,93		
332	VALBISKA MERAG	449.319	346.255	5.879	52.757	44.428
		1228	947	16	144	121
		100%	77,06	1,31	11,74	9,89
		2536	2043	9	154	330
100%	80,54	0,37	6,09	13,00		
338	VALBISKA LOPAR	43.107	32.245	64	3.853	6.945
		118	88	0	11	19
		100%	74,80	0,15	8,94	16,11
		380	304	0	19	57
100%	80,15	0,01	4,87	14,97		
337	STINICA MIŠNJAK	334.941	275.132	4.591	28.598	26.620
		915	751	13	78	73
		100%	82,14	1,37	8,54	7,95
		2350	2025	18	104	203
100%	86,20	0,75	4,41	8,64		
401	ZADAR OLIB SILBA MALI LOŠINJ	8.377	3.751	...	2.738	1.888
		23	11	...	7	5
		100%	44,78	...	32,68	22,54
		65	38	...	10	17
100%	58,03	...	15,58	26,39		
335	PRIZNA ŽIGLJEN	325.358	270.164	2.986	19.457	32.751
		889	739	8	53	89
		100%	83,03	0,92	5,98	10,07
		2673	2344	15	66	248
100%	87,72	0,56	2,46	9,26		
433	ZADAR SESTRUNJ MOLAT	5.889	3.368	...	2.230	291
		16	9	...	6	1
		100%	57,19	...	37,87	4,94
		38	28	...	8	2
100%	72,24	...	21,29	6,47		
434	ZADAR BRBINJ	66.459	49.515	229	11.353	5.362
		182	135	1	31	15
		100%	74,51	0,34	17,08	8,07
		483	391	1	43	48
100%	81,10	0,18	8,82	9,90		
431	ZADAR PREKO	336.820	250.600	255	65.514	20.451
		920	684	1	179	56
		100%	74,40	0,08	19,45	6,07
		1785	1440	1	202	142
100%	80,68	0,04	11,30	7,98		

Table 5. AADT AND ASDT: STRUCTURE BY VEHICLE TYPES, FERRY LINES /cont./

FL 2017

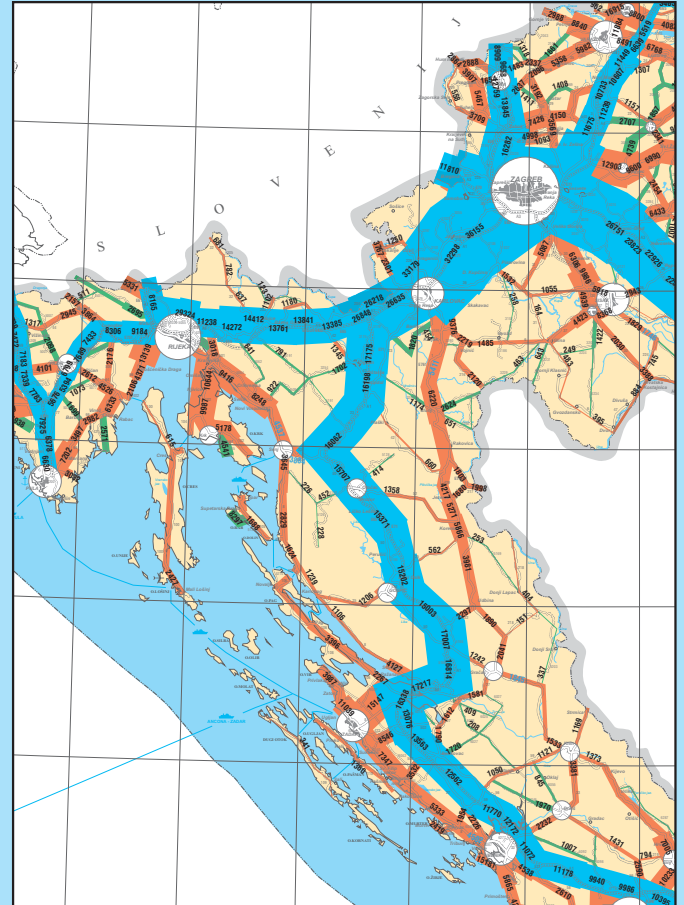
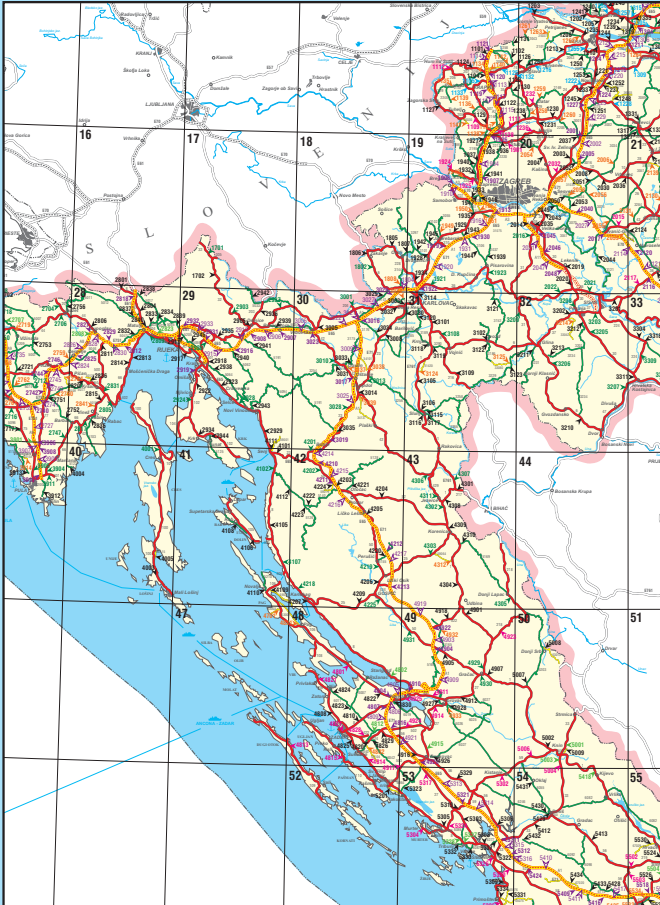
FERRY LINE		Total AADT 100% ASDT 100%	VEHICLE TYPES			
LABEL	NAME		Passenger Cars	Buses	Freight Vehicles	Other Vehicles
435	ZADAR IŽ RAVA	11.650	7.489	20	3.581	560
		32	20	0	10	2
		100%	64,28	0,17	30,74	4,81
		81	63	0	13	5
		100%	78,11	0,16	15,69	6,04
432	BIOGRAD TKON	115.951	88.774	128	15.357	11.692
		317	243	0	42	32
		100%	76,57	0,11	13,24	10,08
		760	619	2	50	89
		100%	81,50	0,21	6,63	11,66
532	ŠIBENIK KAPRIJE ŽIRJE	6.308	2.566	...	3.082	660
		17	7	...	8	2
		100%	40,68	...	48,86	10,46
		36	21	...	10	5
		100%	59,23	...	27,76	13,01
606	SPLIT TROGIR DRVENIK VELI DRVENIK MALI	10.721	6.555	2	3.546	618
		29	17	0	10	2
		100%	61,14	0,02	33,08	5,76
		60	47	0	8	5
		100%	77,95	0,00	14,13	7,92
636	SPLIT ROGAČ	72.658	51.762	43	16.500	4.353
		199	142	0	45	12
		100%	71,24	0,06	22,71	5,99
		412	322	0	57	33
		100%	78,26	0,06	13,77	7,91
602	SPLIT VIS	52.888	33.692	196	14.980	4.020
		145	92	1	41	11
		100%	63,71	0,37	28,32	7,60
		343	260	1	51	31
		100%	75,90	0,19	14,80	9,11
631	SPLIT SUPETAR	387.049	280.774	1.035	85.251	19.989
		1058	767	3	233	55
		100%	72,54	0,27	22,03	5,16
		2261	1834	4	280	143
		100%	81,15	0,16	12,38	6,31
638	MAKARSKA SUMARTIN	31.431	23.727	83	3.334	4.287
		86	65	0	9	12
		100%	75,49	0,26	10,61	13,64
		224	185	0	9	30
		100%	82,34	0,03	4,19	13,44
635	SPLIT STARI GRAD	166.238	110.282	1.598	41.912	12.446
		454	301	4	115	34
		100%	66,34	0,96	25,21	7,49
		1061	808	6	162	85
		100%	76,23	0,54	15,25	7,98

Table 5. AADT AND ASDT: STRUCTURE BY VEHICLE TYPES, FERRY LINES /cont./

FL 2017

FERRY LINE		Total AADT 100% ASDT 100%	VEHICLE TYPES			
LABEL	NAME		Passenger Cars	Buses	Freight Vehicles	Other Vehicles
604	SPLIT VELA LUKA LASTOVO	48.741	32.225	233	11.888	4.395
		133	88	1	32	12
		100%	66,11	0,48	24,39	9,02
		332	256	1	39	36
		100%	76,91	0,31	11,84	10,94
632	DRVENIK SUĆURAJ	129.135	106.642	1.348	11.515	9.630
		353	292	4	31	26
		100%	82,58	1,04	8,92	7,46
		931	831	4	35	61
		100%	89,20	0,43	3,77	6,60
634	OREBIĆ DOMINČE	254.783	188.578	4.030	46.441	15.734
		696	515	11	127	43
		100%	74,01	1,58	18,23	6,18
		1416	1139	13	164	100
		100%	80,44	0,92	11,56	7,08
633	PLOČE TRPANJ	143.903	99.068	325	34.317	10.193
		393	270	1	94	28
		100%	68,84	0,23	23,85	7,08
		976	777	1	126	72
		100%	79,65	0,14	12,87	7,34
832	PRAPRATNO SOBRA	57.695	46.430	289	8.206	2.770
		158	127	1	22	8
		100%	80,48	0,50	14,22	4,80
		368	317	1	28	22
		100%	86,27	0,20	7,58	5,95
831	DUBROVNIK LOPUD SUĐURAD	4.824	2.484	18	1.720	602
		13	6	0	5	2
		100%	51,49	0,37	35,66	12,48
		22	14	0	5	3
		100%	62,20	0,00	23,81	13,99

... No data



## **Common Abbreviations and Terms**

**State Roadway Network,  
Traffic Count Sites Distribution  
(as on 31 December 2017)**

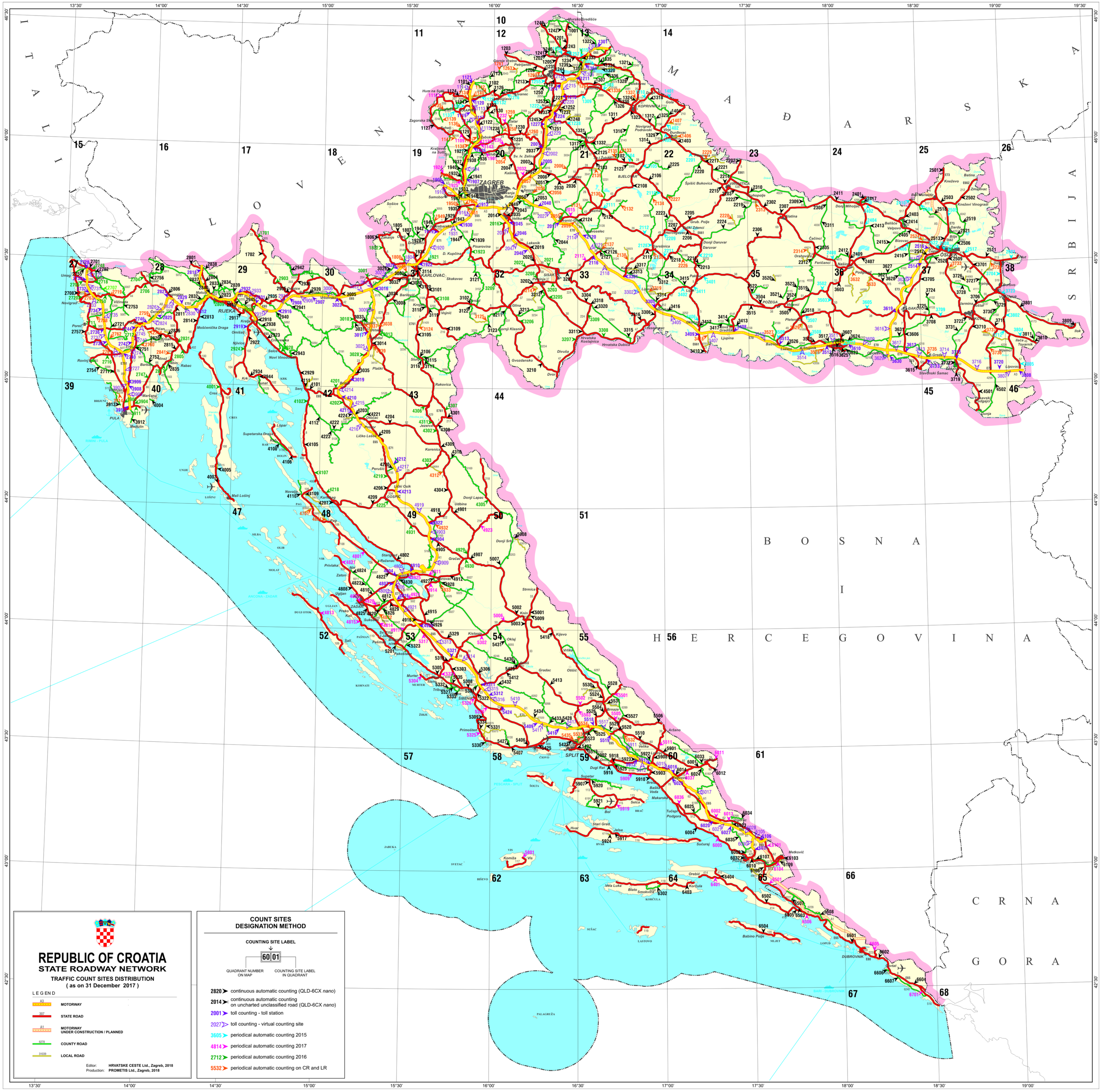
**State Roadway Network,  
Traffic Volumes  
on Selected Roads Directions  
in 2017**

## Appendix 6.1. Abbreviations and Terms

Kratika	Značenje	Abbreviation	Meaning
	<b>BROJENJE PROMETA NA CESTAMA REPUBLIKE HRVATSKE</b>		<b>TRAFFIC COUNTING ON THE ROADWAYS OF CROATIA</b>
<b>PGDP</b>	prosječan godišnji dnevni promet	<b>AADT</b>	Average Annual Daily Traffic
<b>PLDP</b>	prosječan ljetni dnevni promet	<b>ASDT</b>	Average Summer Daily Traffic
<b>PDP</b>	prosječan dnevni promet	<b>ADT</b>	Average Daily Traffic
	procjena		estimate
<b>DC</b>	državna cesta	<b>SR</b>	State Road
<b>ŽC</b>	županijska cesta	<b>CR</b>	County Road
<b>AC</b>	autocesta	<b>M</b>	Motorway
<b>PAC</b>	poluautocesta	<b>SM</b>	Semi – Motorway
<b>LC</b>	lokalna cesta	<b>LR</b>	Local Road
<b>ner.</b>	nerazvrstana cesta	<b>unclas.</b>	unclassified road
<b>NAB</b>	neprekidno automatsko brojenje prometa	<b>ACC</b>	Automatic Count (continuous)
<b>PAB</b>	povremeno automatsko brojenje prometa	<b>ACP</b>	Automatic Count (periodical)
<b>NB</b>	naplatno brojenje	<b>TCTS</b>	Traffic Census at Toll Stations
<b>NP</b>	naplatna postaja	<b>TS</b>	Toll Station
<b>po, ut, sr</b>	ponedjeljak, utorak, srijeda		Monday, Tuesday, Wednesday
<b>če, pe, su, ne</b>	četvrtak, petak, subota, nedjelja		Thursday, Friday, Saturday, Sunday
<b>čv.</b>	čvorište		intersection
<b>GP</b>	granični prijelaz		border crossing
<b>G.A.P</b>	granice administrativnog područja		boundaries of administrative area
<b>TP</b>	trajektno pristanište		ferry port
	ručno brojenje prometa		manual count
	broj / oznaka ceste		road reference number / designation
	brojačko mjesto		counting site
	način brojanja		method of count
	duljina odsječka		section length

**Appendix 6.1. Abbreviations and Terms /cont./**

Kratika	Značenje	Abbreviation	Meaning
	ukupno		total
	sveukupno		overall total
	udjel		share
	prosječni satni promet		average hourly traffic
	vršni sat		peak hour
	dan		day
	tjedan		week
	mjesec		month
	godina		year
	ulazna naplatna postaja		entrance toll station
	izlazna naplatna postaja		exit toll station
	most		bridge
	tunel		tunnel
	vrsta vozila		vehicle type
	skupina vozila		vehicle class
	bicikli		bicycles
	mopedi		mopeds
	motocikli		motorcycles
	osobna vozila		passenger cars
	teretna vozila		goods vehicles
	autobusi		buses
	teretna vozila s prikolicom		combination trucks
	tegljači (s prikolicom)		truck-tractors (with trailers)
	traktori i radna vozila		tractors and industrial vehicles
	zaprežna vozila		horse-drawn vehicles
	ostala vozila		other vehicles



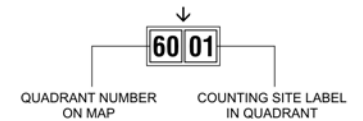
  
**REPUBLIC OF CROATIA**  
**STATE ROADWAY NETWORK**  
 TRAFFIC COUNT SITES DISTRIBUTION  
 (as on 31 December 2017)

**LEGEND**  
 **A3** MOTORWAY  
 **307** STATE ROAD  
 **A1** MOTORWAY UNDER CONSTRUCTION / PLANNED  
 **628** COUNTY ROAD  
 **3109** LOCAL ROAD

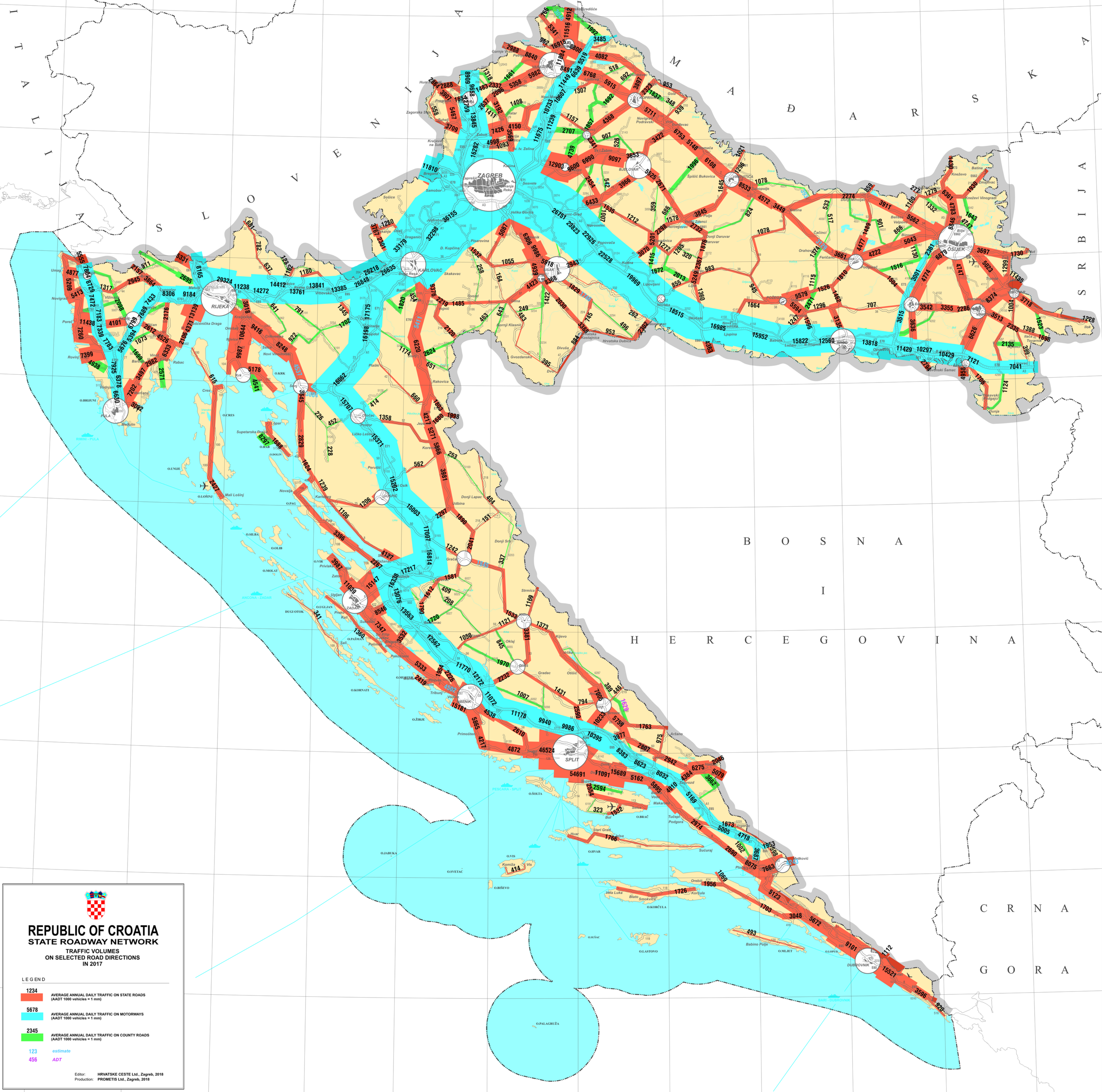
Editor: HRVATSKE CESTE Ltd., Zagreb, 2018  
 Production: PROMETIS Ltd., Zagreb, 2018


**COUNT SITES DESIGNATION METHOD**

COUNTING SITE LABEL



**2820** > continuous automatic counting (QLD-6CX nano)  
**2014** > continuous automatic counting on uncharted unclassified road (QLD-6CX nano)  
**2001** > toll counting - toll station  
**2027** > toll counting - virtual counting site  
**3605** > periodical automatic counting 2015  
**4814** > periodical automatic counting 2017  
**2712** > periodical automatic counting 2016  
**5532** > periodical automatic counting on CR and LR





**REPUBLIC OF CROATIA**  
**STATE ROADWAY NETWORK**  
 TRAFFIC VOLUMES  
 ON SELECTED ROAD DIRECTIONS  
 IN 2017

LE G E N D

- AVERAGE ANNUAL DAILY TRAFFIC ON STATE ROADS  
(AADT 1000 vehicles = 1 mm)
- AVERAGE ANNUAL DAILY TRAFFIC ON MOTORWAYS  
(AADT 1000 vehicles = 1 mm)
- AVERAGE ANNUAL DAILY TRAFFIC ON COUNTY ROADS  
(AADT 1000 vehicles = 1 mm)
- 123 estimate
- 456 ADT

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 Production: PROMETIS Ltd., Zagreb, 2018