

Table D4.43(2) Flue Gas Measurement Results

No. 121a							Product						Petrol derivatives			
Name of company							REFINERY OKTA									
Name of combustion facilities							Process boiler									
Type of fuel used							Heavy oil		Fuel consumption: max. 3.5 t/h heavy oil and 6.7 t/h gas; '97: 1.2-1.4 t/h oil and 2.5-3.3 t/h gas							
Installation capacity:							315 t/h of oil		Capacity at time of measurement						315 t/h of oil	
Burner type and rating							Number of burners						44			
Measurement data																
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume				
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h				
		131.0	84.6	0.9	85.5	25.1	-	8.3	9.9	343	5.72	128796				
O ₂ 3%	ppm	212.4	137.2	1.5		40.7	-									
	mg/m ³	607.5	183.8	3.0	186.8	50.9	-									
Emission standard	mg/m ³	1700	-	-	350	170	80									
Emission	kg/h	48.25	14.6	0.24	14.84	4.04	-									
Emission standard	kg/h	5.0	-	-	5.0	-	0.5									
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd				
in dust.	µg/m ³															
Outline of facilities and measurements																
Facilities																
<p>Refinery is the only refinery in Macedonia having capacity of 2.5 million tons per year. In 1997 production was 374,000 t. Refinery produces different kinds of petrol products, mainly: gasoline, light oil and heavy oil. There two points for waste gas emission: thermoelectrical department for steam and electricity production and combustion of oil and gas for process (distillation of oil, hydrodesulfurization, catalytic reforming). Process department used two types of fuel for combustion: heavy oil (maximal consumption of 3.5 t/h) and gas (6.7 t/h). In 1997 average consumption was 1.2-1.6 t/h of oil and 2.5-3.3 t/h of gas.</p>																
Location of measurement																
<p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>																
Problems and Countermeasures																
<p>Problems with the waste gas pollution are connected with a quality of imported oil. During the measuring period a concentration of all parameters were in the permitted values.</p>																
Estimated effects of countermeasurements																
-																

Table D4.44(1) Flue Gas Measurement Results

No. 122a		Product Ferroalloys (FeMn, SiMn)												
Name of company:		IRON&STEEL SMELTING PLANT – FERROALLOYS PRODUCTION - TOPILNICA												
Name of combustion facilities		Furnace for Silicomanganese production												
Type of fuel used		Coke					Fuel consumption							
Installation capacity		45 MW					Capacity at time of measurement				25 MW			
Burner type and rating		-					Number of burners						-	
Measurement data														
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume		
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h		
		10.2	15.2	ND	15.2	525	15.6	3.9	16.2	32.0	15.2	13789		
O ₂	ppm	-	-	-	-	-	-	-	-	-	-	-		
	mg/m ³	29.2	20.4	ND	20.4	656	15.6	-	-	-	-	-		
Emission standard		mg/m ³	500	-	500	170	30	-	-	-	-	-		
Emission		kg/h	0.40	0.28	ND	0.28	9.05	0.21	-	-	-	-		
Emission standard		kg/h	5.0	-	5.0	-	0.5	-	-	-	-	-		
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd		
in dust.		µg/m ³	1500	120.5	535.8	688	203	9140	0.75	11.05	3.64	0.35		
Outline of facilities and measurements														
Facilities														
<p>This company is a part of former Iron&Steel-Works. There are 5 electrical furnaces for pig iron production with an installation capacity of 45 MW each. From few years ago 2 of those furnaces are reconstructed for the ferroalloys (mainly ferromanganese) and silicomanganese with a working capacity of 20 and 25 MW. In 1997 the production silicomanganese was 27000 t and of ferromanganese of 2200 t. Raw material is manganese ore, quartzite and coke. There is build a system for the purification and cooling of waste gas (Taizen system). With this system the temperature of gas become to be bellow 40 °C.</p>														
Location of measurement														
<p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>														
Problems and Countermeasures														
<p>Using Taizen system the concentration of all parameters are in the permitted values.</p>														
Estimated effects of countermeasurements														
-														

Table D4.44(2) Flue Gas Measurement Results

No. 122a		Product										
Name of company		Ferroalloys (FeMn, SiMn)										
Name of combustion facilities		IRON&STEEL SMELTING PLANT – FERROALLOYS PRODUCTION – TOPILNICA										
Type of fuel used		Furnace for Ferromanganese production										
Installation capacity		Coke					Fuel consumption					
Burner type and rating		45 MW					Capacity at time of measurement					
Measurement data		25 MW										
Number of burners		-										
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		3.3	43.0	ND	43.0	90	59.7	11.7	7.5	30.0	14.3	12972
O ₂	ppm	-	-	-	-	-	-					
	mg/m ³	9.44	57.6	ND	57.6	112	59.7					
Emission standard	mg/m ³	500	-	-	500	170	30					
Emission	kg/h	0.12	0.747	ND	0.747	1.45	0.77					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust.	µg/m ³	703	1350	902.1	314	236	994	311	10.7	3.9	8.1	0.65
Outline of facilities and measurements												
Facilities												
Same as in Table D4.44(1)												
Location of measurement												
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.												
Problems and Countermeasures												
Estimated effects of countermeasurements												
-												

Table D4.45(1) Flue Gas Measurement Results

No. 122b		Product										Steam	
Name of company		IRON&STEEL Co. – ENERGETICS											
Name of combustion facilities		Boiler – VAGNER 1											
Type of fuel used		Heavy oil		Fuel consumption: max. 2.6 t/h; at time of measurement 1.4 t/h									
Installation capacity		50 t/h		Capacity at time of measurement							16 t/h		
Burner type and rating		Number of burners									4		
Measurement data													
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume	
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h	
		90.5	105.5	7.8	113.3	-	66.85	3.9	15.5	180.0	5.11	52850	
O ₂ 3% conversion value	ppm	295.9	345.2	25.5	370.4	-	-						
	mg/m ³	846.4	462.6	52.3	514.9	-	218.8						
Emission standard	mg/m ³	1700	-	-	350	170	50						
Emission	kg/h	13.68	7.47	0.845	8.315	-	3.53						
Emission standard	kg/h	5.0	-	-	5.0	-	0.5						
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd	
in dust, µg/m ³		806.3	522.8	2.7	633.1	908	132.8	152	36.1	15.7	91.0	7.3	
Outline of facilities and measurements													
Facilities													
<p>Energetic department in the former Iron&Steel-Works in Skopje now is a part of the Electric Company of Macedonia. There is a Department for steam production for all Plants in Iron&Steel-Works using boilers of Vagner type.</p>													
Location of measurement													
<p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>													
Problems and Countermeasures													
<p>Problems with the waste gas pollution are connected with a quality of imported oil. During the measuring period a concentration of all parameters (except for SO₂) were over the permitted values.</p>													
Estimated effects of countermeasurements													
-													

Table D4.45(2) Flue Gas Measurement Results

No. 122b		Product										Steam
Name of company		IRON&STEEL Co. – ENERGETICS										
Name of combustion facilities		Boiler – VAGNER 2										
Type of fuel used		Heavy oil	Fuel consumption: max. 2.6 t/h; at time of measurement 1.4 t/h									
Installation capacity		50 t/h	Capacity at time of measurement								16 t/h	
Burner type and rating		Number of burners									4	
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		368.5	157.0	7.8	164.8	-	69.86	3.9	15.5	147.0	4.68	52713
O ₂ 3%	ppm	1206	513.8	25.8	539.6	-	-					
conversion value	mg/m ³	3449	688.5	52.3	740.8	-	228.6					
Emission standard	mg/m ³	1700	-	-	350	170	50					
Emission	kg/h	55.55	11.09	0.84	11.93	-	3.68					
Emission standard	kg/h	5.0			5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust.	µg/m ³	427.3	269.5	2.5	423.5	469	98.9	82.9	19.6	80.2	584.2	13.8
Outline of facilities and measurements												
Facilities												
Same as in Table D4.45(1)												
Location of measurement												
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.												
Problems and Countermeasures												
During the measuring period a concentration of all parameters were over the permitted values.												
Estimated effects of countermeasurements												
-												

Table D4.46(1) Flue Gas Measurement Results

No. 122c		Product											Hot rolling sheets		
Name of company		IRON&STEEL Co. – HOT MILING PLANT													
Name of combustion facilities		Hot milling furnace													
Type of fuel used		Heavy oil				Fuel consumption				3 t/h					
Installation capacity		55 t/h slabs				Capacity at time of measurement				50 t/h slabs					
Burner type and rating												Number of burners		17	
Measurement data															
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume			
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h			
		239.0	103.0	ND	103.0	60.5	85.5	6.4	12.4	195	3.0	13112			
O ₂ 5 % conversion value	ppm	444.6	191.6	ND	191.6	113	-								
	mg/m ³	1272	256.8	ND	256.8	141	159.1								
Emission standard	mg/m ³	1700	-	-	500	170	50								
Emission	kg/h	8.96	1.81	ND	1.81	0.99	1.12								
Emission standard	kg/h	5.0	-	-	5.0	-	0.5								
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd			
in dust, μg/m ³		1030	615.5	0.0	221.3	3900	77.2	164	64.2	34.3	24.6	0.1			
Outline of facilities and measurements															
Facilities															
<p>There are two department of Hot rolling mill plant with 2 lines (2 furnaces) each. The capacity of each plant is 360000 t/y.</p>															
Location of measurement															
<p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>															
Problems and Countermeasures															
<p>Problems with the waste gas pollution are connected with a quality of imported oil. During the measuring period a concentration of all parameters (except for dust) were in the permitted values.</p>															
Estimated effects of countermeasurements															
-															

Table D4.46(2) Flue Gas Measurement Results

No. 122d							Product						Hot rolling sheets	
Name of company							IRON&STEEL Co. – HOT MILING PLANT							
Name of combustion facilities							Hot milling furnace							
Type of fuel used							Heavy oil		Fuel consumption					
Installation capacity							Capacity at time of measurement							
Burner type and rating							Number of burners							
Measurement data														
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume		
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h		
		55.7	78.7	0.0	78.7	4.1	61.4	3.9	15.5	325	4.5	11000		
O ₂ 5 % conversion value	ppm	182.3	257.6	0.0	257.6	13.4	-							
	mg/m ³	521.3	345.1	0.0	345.1	16.8	200.9							
Emission standard	mg/m ³	1700	-	-	500	170	50							
Emission	kg/h	0.613	0.866	0.0	0.866	0.05	0.675							
Emission standard	kg/h	5.0	-	-	5.0	-	0.5							
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd		
in dust,	µg/m ³	142.6	894.1	0.0	201.5	1175	24.7	50.3	20.9	28.8	270.6	1.2		
Outline of facilities and measurements														
Facilities														
Same as in Table D4.46(1)														
Location of measurement														
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.														
Problems and Countermeasures														
Estimated effects of countermeasurements														
-														

Table D4.47(1) Flue Gas Measurement Results

No. 122e		Product Cold rolling sheets										
Name of company		IRON&STEEL Co. – COLD MILING PLANT										
Name of combustion facilities		Pickling department										
Type of fuel used		Fuel consumption										
Installation capacity		Capacity at time of measurement										
Burner type and rating		Number of burners										
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		8.2	16.4	ND	16.4	31.4	ND	ND	21.0	53.45	11.95	46836
O ₂ conversion value	ppm	-	-	-	-	-	-					
	mg/m ³	23.4	22.0	ND	22.0	39.2	ND					
Emission standard	mg/m ³	1700	-	-	500	170	50					
Emission	kg/h	1.09	1.03	ND	1.03	1.84	ND					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust,	µg/m ³	19.7	12.5	1.0	44.7	183	3.6	16.9	2.8	4.0	3.4	0.08
Outline of facilities and measurements												
Facilities												
<p>Cold rolling plant contains from few departments: pickling department, galvanization and pre-painting department rolling and heating department. Capacity of the company is about 600,000 t of sheets per year.</p> <p>In the pickling department all waste gases are collected by scrubber system using water cleaning. Temperature of waste gas is about 50 °C.</p>												
Location of measurement												
<p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>												
Problems and Countermeasures												
<p>Problems with the waste gas pollution are connected with a quality of imported oil. During the measuring period a concentration of all parameters were in the permitted values.</p>												
Estimated effects of countermeasurements												
-												

Table D4.47(2) Flue Gas Measurement Results

No. 122c		Product Cold rolling sheets										
Name of company		IRON&STEEL Co. – COLD MILLING PLANT										
Name of combustion facilities		Annealing process, Furnace No. 5										
Type of fuel used		Fuel consumption										
Installation capacity		Capacity at time of measurement										
Burner type and rating		Number of burners										
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		1.0	5.0	ND	5.0	10.2	29.1	0.6	19.9	57.0	4.9	37320
O ₂ conversion value	ppm	-	-	-	-	-	-					
	mg/m ³	2.9	6.7	ND	6.7	12.7	29.1					
Emission standard	mg/m ³	1700	-	-	500	170	50					
Emission	kg/h	0.11	0.25	ND	0.25	0.48	1.09					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust,	µg/m ³	8536	5520	0.0	287	1282	47.3	25.5	35.4	16.8	99.2	2.3
Outline of facilities and measurements												
Facilities												
Same as in Table D4.47(1)												
Location of measurement												
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.												
Problems and Countermeasures												
Estimated effects of countermeasurements												

Table D4.47(3) Flue Gas Measurement Results

No. 122c		Product Cold rolling sheets										
Name of company		IRON&STEEL Co. – COLD MILING PLANT										
Name of combustion facilities		Annealing process, Furnace No. 6										
Type of fuel used		Fuel consumption										
Installation capacity		Capacity at time of measurement										
Burner type and rating		Number of burners										
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		1.0	3.0	ND	3.0	6.7	29.1	0.3	20.2	55.0	4.5	33920
O ₂ conversion value	ppm	-	-	-	-	-	-	-	-	-	-	-
	mg/m ³	2.9	4.0	ND	4.0	8.4	29.1					
Emission standard	mg/m ³	1700	-	-	500	170	50					
Emission	kg/h	0.097	0.136	ND	0.136	0.28	0.99					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust,	µg/m ³											
Outline of facilities and measurements												
<p>Facilities</p> <p>Same as in Table D4.47(1)</p>												
Location of measurement												
<p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>												
Problems and Countermeasures												
<p>Estimated effects of countermeasurements</p>												

Table D4.48 Flue Gas Measurement Results

No. 145		Product Plant materials										
Name of company		ALKALOID, Plant production										
Name of combustion facilities		Boiler										
Type of fuel used		Heavy oil		Fuel consumption							220 kg/h	
Installation capacity		3 t/h		Capacity at time of measurement							3.0 t/h	
Burner type and rating		Djuro Djakovic		Number of burners							2	
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		1064	222.4	1.0	223.4	58.5	124.2	7.4	9.9	189.0	13.52	3518
O ₂ 3%	ppm	1725	360.7	1.6	362.3	95.2	-					
	mg/m ³	4935	483.3	3.3	486.6	119	201.5					
Emission standard	mg/m ³	1700	-	-	350	170	50					
Emission	kg/h	10.7	1.05	0.007	1.057	0.26	0.43					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust,	ug/m ³	309.8	192.6	1.67	593	688	68.4	56.1	35.2	3.23	95.2	1.40
Outline of facilities and measurements												
Facilities												
<p>Heating department of the company has 2 boilers using heavy oil with a capacity of 3.0 t/h of steam. Steam is used for process and for heating during heating season.</p>												
Location of measurement												
<p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>												
Problems and Countermeasures												
<p>Problems with the waste gas pollution are connected with a quality of imported oil. During the measuring period a concentration of all parameters (except for CO) were over the emission standards.</p>												
Estimated effects of countermeasurements												
-												

Table D4.49(1) Flue Gas Measurement Results

No. 151						Product							Cement
Name of company						CEMENT COMPANY – USJE							
Name of combustion facilities						Dryer for coal							
Type of fuel used						Heavy oil	Fuel consumption						
Installation capacity						Capacity at time of measurement							
Burner type and rating						Number of burners							
Measurement data													
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume	
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h	
		61.4	17.2	0.8	18.0	47.0	11.33	1.1	19.4	94.0	35.83	113437	
O ₂ conversion value	ppm	-	-	-	-	-	-						
	mg/m ³	175.6	23.1	1.6	24.9	58.8	11.33						
Emission standard	mg/m ³	500	-	-	500	170	50						
Emission	kg/h	19.92	2.62	0.18	2.80	6.67	1.29						
Emission standard	kg/h	5.0	-	-	5.0	-	0.5						
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd	
in dust,	µg/m ³	-	-	6.3	96.0	278	7.1	19.8	1.7	0.0	3.4	7.2	
Outline of facilities and measurements													
Facilities													
Drying of coal is performed in rotary kiln up to 2-3 % of moisture. Introducing of hot gas into a rotary kiln using heavy oil performs drying. Dust from waste gases is collected by electrofilter.													
Location of measurement													
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.													
Problems and Countermeasures													
During the measuring period a concentration of all parameters were in the permitted values.													
Estimated effects of countermeasurements													
-													

Table D4.49(2) Flue Gas Measurement Results

No. 151		Product										Cement	
Name of company		CEMENT COMPANY – USJE											
Name of combustion facilities		Preparation of material No. 2.1											
Type of fuel used		Fuel consumption											
Installation capacity		Capacity at time of measurement											
Burner type and rating		Number of burners											
Measurement data													
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume	
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h	
		10.5	163.9	1.0	164.9	585	8.13	5.4	13.7	107.3	11.53	98209	
O ₂ 5.8 % conversion value	ppm	-	-	-	-	-	-	-	-	-	-	-	
	mg/m ³	30.0	219.6	2.0	221.6	732	8.13	-	-	-	-	-	
Emission standard	mg/m ³	500	-	-	500	250	50	-	-	-	-	-	
Emission	kg/h	2.95	21.57	0.2	21.77	71.9	0.80	-	-	-	-	-	
Emission standard	kg/h	5.0	-	-	5.0	-	0.5	-	-	-	-	-	
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd	
in dust.	µg/m ³	58.6	138.3	1.1	798	1250	30.0	83.2	24.3	2.9	50.7	1.0	
Outline of facilities and measurements													
Facilities													
<p>Cement factory USJE have different Preparation plants: preparation of coal dust, preparation of raw material by drying, milling, homogenization of the material, calcining of material, milling of final material. For the processes of preparation and calcining of the material heavy oil and coal are used in ration 30:70 (usually 1000 kg/h oil and 6500 kg/h coal). Gases from furnaces (with a temperature between 350 and 380 °C) pass through heat exchanger and are used for heating of preparation units. All departments have filters for dust.</p>													
Location of measurement													
<p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>													
Problems and Countermeasures													
<p>During the measuring period a concentration of all parameters were in the permitted values.</p>													
Estimated effects of countermeasurements													
-													

Table D4.49(3) Flue Gas Measurement Results

No. 151		Product											Cement
Name of company		CEMENT COMPANY - USJE											
Name of combustion facilities		Preparation of material No. 2.2											
Type of fuel used		Fuel consumption											
Installation capacity		Capacity at time of measurement											
Burner type and rating		Number of burners											
Measurement data													
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume	
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h	
		32.7	184.4	1.0	185.4	632	54.89	5.2	14.0	103.8	11.38	97494	
O ₂ 5.8 % conversion value	ppm mg/m ³	-	-	-	-	-	-	-	-	-	-	-	
Emission standard	mg/m ³	500	-	-	500	250	50	-	-	-	-	-	
Emission	kg/h	9.12	24.09	0.2	24.29	77.0	5.35	-	-	-	-	-	
Emission standard	kg/h	5.0	-	-	5.0	-	0.5	-	-	-	-	-	
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd	
in dust,	µg/m ³	-	87.8	0.9	681	731	36.2	71.9	12.9	2.2	45.9	1.1	
Outline of facilities and measurements													
Facilities													
Same as in Table D4.49(2)													
Location of measurement													
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.													
Problems and Countermeasures													
Estimated effects of countermeasurements													
-													

Table D4.49(4) Flue Gas Measurement Results

No. 151		Product Cement										
Name of company		CEMENT COMPANY – USJE										
Name of combustion facilities		Preparation of material No. 3.1										
Type of fuel used		Fuel consumption										
Installation capacity		Capacity at time of measurement										
Burner type and rating		Number of burners										
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		2.0	213.6	ND	213.6	544	3.75	4.7	15.6	101.8	9.34	108000
O ₂ 5.8 %	ppm	-	-	ND	-	-	-	-	-	-	-	-
conversion value	mg/m ³	-	-	ND	-	-	-	-	-	-	-	-
Emission standard	mg/m ³	500	-	-	500	250	50	-	-	-	-	-
Emission	kg/h	0.62	30.9	ND	30.9	73.4	0.40	-	-	-	-	-
Emission standard	kg/h	5.0	-	-	5.0	-	0.5	-	-	-	-	-
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust,	µg/m ³	-	6.0	1.0	142.5	160	4.1	26.1	3.2	0.0	5.7	2.6
Outline of facilities and measurements												
Facilities												
Same as in Table D4.49(2)												
Location of measurement												
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.												
Problems and Countermeasures												
Estimated effects of countermeasurements												
-												

Table D4.49(5) Flue Gas Measurement Results

No. 151		Product											Cement
Name of company		CEMENT COMPANY – USJE											
Name of combustion facilities		Preparation of material No. 3.2											
Type of fuel used		Fuel consumption											
Installation capacity		Capacity at time of measurement											
Burner type and rating		Number of burners											
Measurement data													
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume	
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h	
		2.0	157.0	ND	157.0	422	21.48	5.1	15.3	126.5	9.85	30464	
O ₂ 5.8 % conversion value	ppm mg/m ³	-	-	-	-	-	-	-	-	-	-	-	
Emission standard	mg/m ³	500	-	-	500	250	50	-	-	-	-	-	
Emission	kg/h	0.17	6.41	ND	6.41	16.2	0.65	-	-	-	-	-	
Emission standard	kg/h	5.0	-	-	5.0	-	0.5	-	-	-	-	-	
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd	
in dust,	µg/m ³	1.3	139.5	1.2	289.7	412	4.3	34.3	10.3	2.4	10.1	5.2	
Outline of facilities and measurements													
Facilities													
Same as in Table D4.49(2)													
Location of measurement													
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.													
Problems and Countermeasures													
Estimated effects of countermeasurements													

Table D4.49(6) Flue Gas Measurement Results

No. 151		Product Cement										
Name of company		CEMENT COMPANY - USJE										
Name of combustion facilities		Furnace No. 3										
Type of fuel used	Coal (70%) and H. oil (30%)		Fuel consumption		6.5 t/h coal, 6 t/h H. oil							
Installation capacity		Capacity at time of measurement: 6.5 t/h coal; 1 t/h heavy oil										
Burner type and rating		Simplex		Number of burners		2x1						
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		-	-	-	-	-	9.09	0.1	20.7	240.6	12.2	102677
O ₂ 5.8 % conversion value	ppm	-	-	-	-	-	-	-	-	-	-	-
	mg/m ³	-	-	-	-	-	9.09	-	-	-	-	-
Emission standard	mg/m ³	400	-	-	1300	250	50	-	-	-	-	-
Emission	kg/h	-	-	-	-	-	0.93	-	-	-	-	-
Emission standard	kg/h	5.0	-	-	5.0	-	0.5	-	-	-	-	-
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust.	µg/m ³	1.0	260	2.5	382	378	7.9	32.1	13.8	0.0	8.4	1.4
Outline of facilities and measurements												
Facilities												
Same as in Table D4.49(2)												
Location of measurement												
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.												
Problems and Countermeasures												
Estimated effects of countermeasurements												
-												

Table D4.49(7) Flue Gas Measurement Results

No. 151		Product Cement										
Name of company		CEMENT COMPANY - USJE										
Name of combustion facilities		Furnace No. 4										
Type of fuel used		Coal (70%) and H. oil (30%)		Fuel consumption		6.5 t/h coal, 1 t/h H. oil						
Installation capacity		Capacity at time of measurement: 6.5 t/h coal, 1 t/h H. oil										
Burner type and rating		Simplex		Number of burners		2x1						
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
O ₂ 5.8 %	ppm	-	-	-	-	-	30.9	0.1	20.9	219.5	11.99	105784
conversion value	mg/m ³	-	-	-	-	-	30.9					
Emission standard	mg/m ³	400	-	-	1300	250	50					
Emission	kg/h	-	-	-	-	-	0.33					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust.	µg/m ³	-	25.0	0.8	181	87	4.6	20.1	3.5	0.0	4.2	2.3
Outline of facilities and measurements												
Facilities												
Same as in Table D4.49(2)												
Location of measurement												
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.												
Problems and Countermeasures												
Estimated effects of countermeasurements												
-												

Table D4.49(8) Flue Gas Measurement Results

No. 151		Product Cement										
Name of company		CEMENT COMAPNY -- USJE										
Name of combustion facilities		Mill No. 1										
Type of fuel used		Fuel consumption										
Installation capacity		Capacity at time of measurement										
Burner type and rating		Number of burners										
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		ND	1.7	ND	1.7	ND	2.91	0.1	20.7	70.85	9.16	7229
O ₂ conversion value	ppm	-	-	-	-	-	-	-	-	-	-	-
	mg/m ³	ND	2.3	ND	2.3	ND	2.91					
Emission standard	mg/m ³	400	-	-	1300	250	50					
Emission	kg/h	ND	0.017	ND	0.017	ND	0.02					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust,	µg/m ³	-	-	0.4	47.2	41.6	1.2	13.1	1.5	0.0	2.9	1.6
Outline of facilities and measurements												
Facilities												
Same as in Table D4.49(2)												
Location of measurement												
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.												
Problems and Countermeasures												
Estimated effects of countermeasurements												

Table D4.49(9) Flue Gas Measurement Results

No. 151							Product Cement					
Name of company							CEMENT COMAPNY -- USJE					
Name of combustion facilities							Mill No. 3					
Type of fuel used							Fuel consumption					
Installation capacity							Capacity at time of measurement					
Burner type and rating							Number of burners					
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		ND	1.5	ND	1.5	ND	13.23	0.1	20.7	48.05	6.57	22345
O ₂ conversion value	ppm	-	-	-	-	-	-					
	mg/m ³	ND	2.0	ND	2.0	ND	13.23					
Emission standard	mg/m ³	400	-	-	1300	250	50					
Emission	kg/h	ND	0.045	ND	0.045	ND	0.30					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust,	µg/m ³	-	31.1	0.3	130.5	84.1	1.6	12.1	3.4	0.0	3.0	2.2
Outline of facilities and measurements												
Facilities												
Same as in Table D4.49(2)												
Location of measurement												
Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.												
Problems and Countermeasures												
Estimated effects of countermeasurements												

Table D4.50 Flue Gas Measurement Results

No. 151		Product Cement										
Name of company		OHIS – ORGANIC CHEMICAL COMPANY										
Name of combustion facilities		Boiler -- BABKOK										
Type of fuel used		Heavy oil		Fuel consumption							2245 kg/h	
Installation capacity		80 MW		Capacity at time of measurement								
Burner type and rating		Number of burners									2	
Measurement data												
Item		SO ₂	NO	NO ₂	NO _x	CO	Dust	CO ₂	O ₂	Gas temp.	Gas velocity	Gas flow volume
Measurement value		ppm	ppm	ppm	ppm	ppm	mg/m ³	%	%	°C	m/s	Nm ³ /h
		677	193	3.6	196.6	61.8	13.48	11.7	5.3	192.0	10.08	67628
O ₂ conversion value	ppm	776	227.1	4.1	231.2	70.8	-					
	mg/m ³	2220	304.2	8.5	312.7	88.6	14.45					
Emission standard	mg/m ³	1700	-	-	350	170	50					
Emission	kg/h		17.5	0.5	18.0	5.22	0.91					
Emission standard	kg/h	5.0	-	-	5.0	-	0.5					
Metal content		Na	K	Zn	Mg	Fe	Pb	Mn	Cr	Cu	Ni	Cd
in dust,	ug/m ³											
Outline of facilities and measurements												
<p>Facilities</p> <p>Organic company OHIS produces different chemical products including polymers, pesticides, basic chemicals etc. Energetic department produces steam for all process departments, using heavy oil.</p>												
<p>Location of measurement</p> <p>Gas substance and dust concentration was measured at the measuring site installed near the top of the smokestacks.</p>												
<p>Problems and Countermeasures</p> <p>Problems with the waste gas pollution are connected with a quality of imported oil. During the measuring period a concentration of all parameters (except for SO₂) were in the permitted values.</p>												
<p>Estimated effects of countermeasurements</p> <p>-</p>												

Table D4.51(1) List of Measurement Points of Traffic Volume in Skopje

No	Measuring Point	Type of road*
	AREA I	
1	G. Petrov (Most Matka)	⊥
2	1257 (Gj. Petrov) – Sremski front	+
3	Crnogorska (Gjorce Petrov)	=
4	Luka Gerov (Novoselski Pat) – Andon Keckarov	+
5	Gjorce Petrov - Bul. Makedonska vojska	+
6	Bul. Partizanski odredi - Aco Sopov	+
7	Bul. Partizanski odredi - Kleonec	+
8	1249 (Hrom)	⊥
9	936 (Taftalidze II)	=
10	Bul. Partizanski odredi - Ljubljanska	+
11	Bul. Partizanski odredi (Karpos III)	=
12	Varsavska (Taftalidze I)	+
13	Kozle (benz. pumpa)	+
14	Mitropolit Teodosija Gologanov - Bul. 8 Septemvri	+
15	Bul. 8 Septemvri – Kozle	+
	AREA II	
16	Suto Orizari	=
17	Radisanska – Amdi Demir	+
18	Jadranska Magistrala – Vizbegovo	=
19	Aleksandar Urdarevski (Butel Ia) – Pat za ^ardak	⊥
20	Aleksandar Urdarevski (Butel I) – Natanail Kuceviski	+
21	Bul. Makedonsko-kosovska brigada (kaj TIPO)	=
22	II Makedonska Brigada (Cair) – Boro Menkov	+
23	BiH - Aleksandar Urdarevski	+
24	Ferit Bajram (Butel II)	=
25	Kemal Sejfula (Cair) - Vukovarska	+
26	Cvetan Dimov - Dzon Kenedi	⊥
27	Bul. Nikola Karev - Sutka	+
28	Dizonska (Cair) - 142	+
29	Cvetan Dimov (Cair)	=
30	Nadvoznik Bit Pazar	+
	AREA III	
31	Bul. 8 Septemvri - Skupi	⊥
32	Bul. Ilindenska - Bul. 8 Septemvri	+
33	Orce Nikolov	=
34	Bul. Partizanski odredi - Ruzveltova	+
35	Drezdenska (Taftalidze) - Rimska	+
36	Bul. Partizanski odredi - Bul. 8 Septemvri	+
37	Bul. Ilindenska – Bul. Sv. Kliment Ohridski	+
38	Mitropolit Teodosija Gologanov - Ruzveltova	+
39	AMSM	⊥

Table D4.51(2) List of Measurement Points of Traffic Volume in Skopje

40	Bul. Partizanski odredi - Bul. Sv. Kliment Ohridski	+
41	Bul. Partizanski odredi - Bul. Goce Delcev	⊥
42	Vasil Gjorgov (Kapistec) - 451	+
43	Dimitrija Cupovski - 73 - 112/492	+
44	Bul. Makedonija - Bul. Sv. Kliment Ohridski	+
45	Zeleznicka - Vasil Gjorgov	+
	AREA IV	
46	Bul. Krste Misirkov - Bul. Goce Delcev	+
47	Bul. Koco Racin - Bompleks Banki	+
48	Bul. 11 Oktomvri - Vojvoda Adzalarski	+
49	Bul. Koco Racin - Bul. 11 Oktomvri	+
50	Zeleznicka - Anton Popov	+
51	Bul. 11 Oktomvri - Bul. Krusevska Republika	+
52	Przino - 688	⊥
53	Rasadnik (K. Voda)	+
54	Kisela Voda (Benzinska pampa) - H. Tatarcev - N. heroi	+
55	Bul. III Makedonska Brigada - Bul. Srbija	+
56	1502 (Lisice) - Todor Cangov/1348	+
57	Bul. Makedonija - Bul. Srbija	+
58	Lisice (stara naselba) - XII Makedonska brigada	+
59	Lisice (pat za Dracevo) 470-1451	⊥
60	Dracevo, Ratko Mitrovic - Uzicka Republika	+
	AREA V	
61	Koce Metalec (Zelezara)	=
62	XVI Makedonska brigada (Avtokomanda)	⊥
63	Jane Lukarovski (Avtokomanda) - 805	⊥
64	Bul. Aleksandar Makedonski (H. Continental)	=
65	Bul. Aleksandar Makedonski - Bul. XVI Makedonska Brigada	+
66	Metodija Antonov Cento - Juznomoravski brigadi	+
67	Blagoja Stefanovski (Madzari)	⊥
68	Razloska (Madzari)	+
69	Vladimir Komarov (Aerodrom)	=
70	Bul. Jane Sandanski	+
71	Bul. ASNOM (Lisice)	=
72	Bul. Jane Sandanski - Bul. Srbija	+
73	Hipodrom	=
74	Pay Tall Miladinovci	=
75	Pay Tall Petrovec	=

* = - two directions

⊥ - three directions

+ - four directions

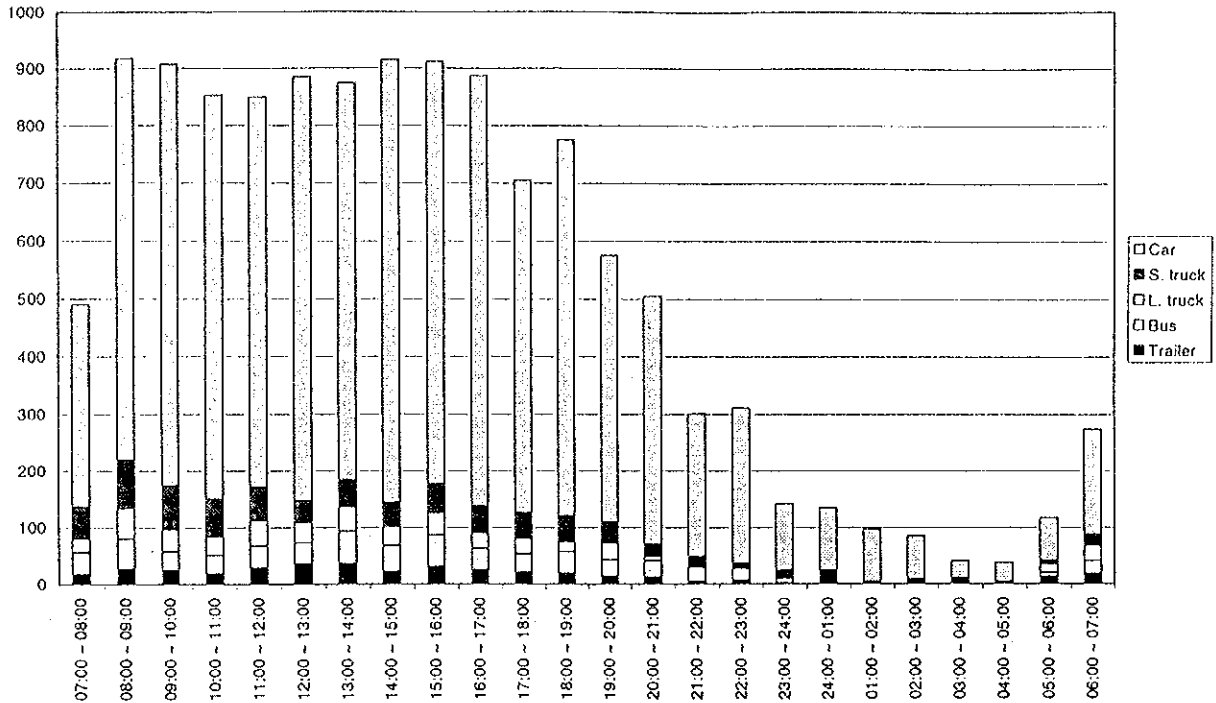


Figure D4.27(1) Hourly Traffic Volume by Vehicle Type - Measuring Point 1 (22/23.04.1998 - weekday)

Table D4.52(1) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 1 (22/23.04.1998 - weekday)

time	No. 1 a						No. 1 b						No. 1 c						Total for No. 1					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 ~ 08:00	85	15	4	7	11	122	209	33	16	15	3	276	60	8	4	17	3	92	354	56	24	39	17	490
08:00 ~ 09:00	149	7	13	7	13	189	453	63	35	28	13	592	96	16	5	19	0	136	698	86	53	54	26	917
09:00 ~ 10:00	176	20	27	5	15	243	437	48	9	15	9	518	121	9	3	13	0	146	734	77	39	33	24	907
10:00 ~ 11:00	167	28	12	7	11	225	397	29	16	15	7	464	139	9	5	11	0	164	703	66	33	33	18	853
11:00 ~ 12:00	217	16	12	1	9	255	349	28	21	24	19	441	113	15	12	13	1	154	679	59	45	38	29	850
12:00 ~ 13:00	252	9	11	4	16	292	339	20	20	19	16	414	147	9	5	15	3	179	738	38	36	38	35	885
13:00 ~ 14:00	229	17	16	8	12	282	327	15	23	35	15	415	135	15	4	15	8	177	691	47	43	58	35	874
14:00 ~ 15:00	340	16	8	7	9	380	316	19	24	27	8	394	116	7	1	13	4	141	772	42	33	47	21	915
15:00 ~ 16:00	347	13	13	9	12	394	305	27	17	31	17	397	84	11	9	16	1	121	736	51	39	56	30	912
16:00 ~ 17:00	300	9	9	5	16	339	285	21	13	21	7	347	165	17	5	13	1	201	750	47	27	39	24	887
17:00 ~ 18:00	173	8	8	4	7	200	276	24	15	20	9	344	131	13	4	9	4	161	580	45	27	33	20	705
18:00 ~ 19:00	196	13	4	7	9	229	323	17	9	17	8	374	136	15	5	15	1	172	655	45	18	39	18	775
19:00 ~ 20:00	101	11	5	5	4	126	233	13	15	12	9	282	133	13	9	13	0	168	467	37	29	30	13	576
20:00 ~ 21:00	92	5	0	3	4	104	183	8	1	15	7	214	161	7	7	12	0	187	436	20	8	30	11	505
21:00 ~ 22:00	53	1	1	1	1	57	117	4	4	16	3	144	83	8	0	9	0	100	253	13	5	26	4	301
22:00 ~ 23:00	76	0	0	1	1	78	95	5	0	7	5	112	104	4	0	13	0	121	275	9	0	21	6	311
23:00 ~ 24:00	47	3	0	1	1	52	36	5	0	3	0	44	37	1	3	5	0	46	120	9	3	9	1	142
24:00 ~ 01:00	43	1	0	0	15	59	44	1	0	0	4	49	25	1	0	1	0	27	112	3	0	1	19	135
01:00 ~ 02:00	27	0	0	0	3	30	37	0	0	0	0	37	29	1	0	0	0	30	93	1	0	0	3	97
02:00 ~ 03:00	23	1	0	0	0	24	39	3	0	1	1	44	16	0	0	1	0	17	78	4	0	2	1	85
03:00 ~ 04:00	12	0	0	0	0	12	15	3	0	0	5	23	5	0	0	1	0	6	32	3	0	1	5	41
04:00 ~ 05:00	9	0	0	0	0	9	19	0	0	0	0	19	7	0	0	0	0	10	35	0	0	3	0	38
05:00 ~ 06:00	28	0	9	0	7	44	27	3	5	3	5	43	21	3	1	5	0	30	76	6	15	8	12	117
06:00 ~ 07:00	53	7	15	5	12	92	89	5	8	7	5	114	45	7	4	12	0	68	187	19	27	24	17	274
Total	3195	200	167	87	188	3837	4950	394	251	331	175	6101	2109	189	86	244	26	2654	10254	783	504	662	389	12592

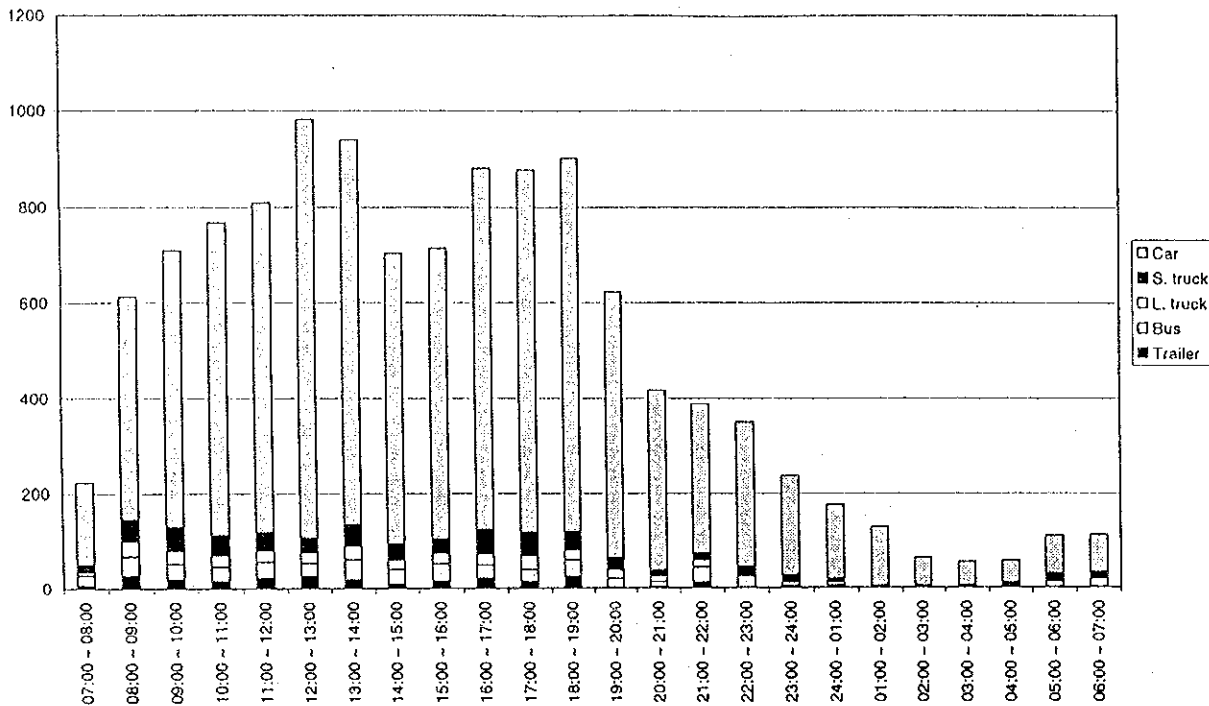


Figure D4.27(2) Hourly Traffic Volume by Vehicle Type - Measuring Point 1 (25/25.04.1998 - holiday)

Table D4.52(2) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 1 (25/26.04.1998 - holiday)

time	No. 1 a						No. 1 b						No. 1 c						Total for No. 1					
	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total
07:00 - 08:00	59	0	5	1	0	65	80	8	3	11	5	107	36	4	0	11	0	51	175	12	8	23	5	223
08:00 - 09:00	149	12	17	7	20	205	267	23	13	23	5	331	52	9	3	11	1	76	468	44	33	41	26	612
09:00 - 10:00	181	15	12	5	15	228	291	28	13	16	3	351	109	5	3	13	0	130	581	48	28	34	18	709
10:00 - 11:00	217	11	9	7	9	253	332	25	11	13	4	385	107	5	4	12	1	129	656	41	24	32	14	767
11:00 - 12:00	212	8	11	4	11	246	344	20	8	15	7	394	137	8	5	16	3	169	693	36	24	35	21	809
12:00 - 13:00	236	4	7	4	11	262	360	16	9	9	11	405	280	9	7	15	3	314	876	29	23	28	25	981
13:00 - 14:00	223	5	7	3	9	247	323	20	11	23	5	382	260	19	11	17	3	310	806	44	29	43	17	939
14:00 - 15:00	219	8	8	4	5	244	229	11	3	13	1	257	164	13	9	16	1	203	612	32	20	33	7	704
15:00 - 16:00	188	5	11	5	4	213	235	12	7	17	11	282	188	12	4	15	0	219	611	29	22	37	15	714
16:00 - 17:00	239	19	15	7	13	293	343	16	1	15	7	382	176	16	7	7	0	206	758	51	23	29	20	881
17:00 - 18:00	213	12	9	5	9	248	407	15	13	12	4	451	143	19	8	9	0	179	763	46	30	26	13	878
18:00 - 19:00	121	1	3	1	8	134	476	20	11	24	15	546	188	15	8	11	0	222	785	36	22	36	23	902
19:00 - 20:00	113	7	3	1	0	124	167	8	7	11	0	193	280	9	9	8	0	306	560	24	19	20	0	623
20:00 - 21:00	80	4	1	0	1	86	148	3	4	3	0	158	153	3	8	9	0	173	381	10	13	12	1	417
21:00 - 22:00	96	3	1	3	0	103	89	7	9	13	11	129	131	3	5	17	0	156	316	13	15	33	11	388
22:00 - 23:00	69	4	0	1	0	74	97	5	4	13	0	119	141	5	0	11	0	157	307	14	4	25	0	350
23:00 - 24:00	53	1	0	0	0	54	83	4	3	5	3	98	76	4	1	4	0	85	212	9	4	9	3	237
24:00 - 01:00	27	1	0	3	1	32	79	3	0	3	3	88	52	1	0	3	0	56	158	5	0	9	4	176
01:00 - 02:00	15	0	0	0	0	15	60	3	0	0	0	63	51	0	0	0	0	51	126	3	0	0	0	129
02:00 - 03:00	11	0	0	0	0	11	29	1	0	1	0	31	20	1	0	1	0	22	60	2	0	2	0	64
03:00 - 04:00	8	0	0	1	0	9	20	1	0	1	0	22	23	0	0	1	0	24	51	1	0	3	0	55
04:00 - 05:00	13	0	1	3	1	18	27	4	0	1	0	32	8	0	0	0	0	8	48	4	1	4	1	58
05:00 - 06:00	23	3	4	4	0	34	51	7	0	5	0	63	7	1	0	5	0	13	81	11	4	14	0	110
06:00 - 07:00	31	1	5	5	0	42	33	3	0	5	0	41	16	4	0	9	0	29	80	8	5	19	0	112
Total	2796	124	129	74	117	3240	4570	263	130	252	95	5310	2798	165	92	221	12	3288	10164	552	351	547	224	11838

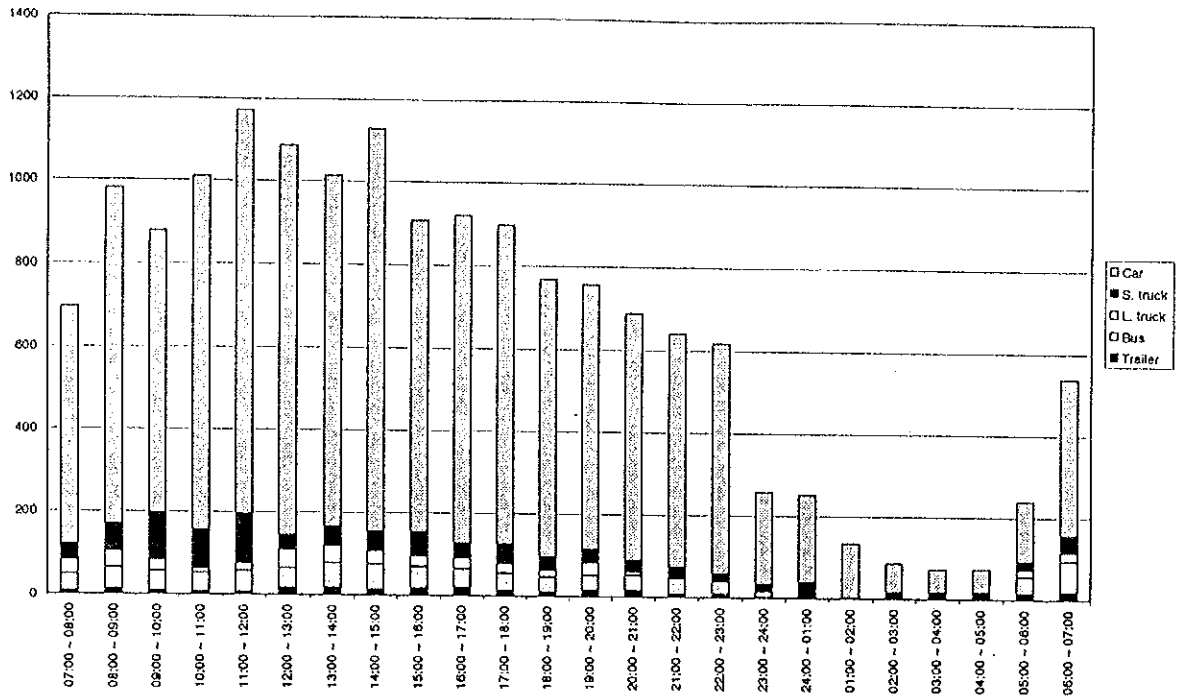


Figure D4.27(3) Hourly Traffic Volume by Vehicle Type - Measuring Point 2 (22/23.04.1998 - weekday)

Table D4.52(3) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 2 (22/23.04.1998 - weekday)

time	No. 2 a						No. 2 b						No. 2 c						Total for No. 2					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 ~ 08:00	79	9	3	15	7	113	11	0	0	0	0	11	487	27	31	27	0	572	577	36	34	42	7	696
08:00 ~ 09:00	253	17	13	20	8	311	5	1	0	0	0	6	555	44	27	33	4	663	813	62	40	53	12	980
09:00 ~ 10:00	308	53	16	21	7	405	8	0	0	0	0	8	365	59	11	29	0	464	681	112	27	50	7	877
10:00 ~ 11:00	347	48	8	23	5	431	19	0	0	0	0	19	489	43	3	25	0	560	855	91	11	48	5	1010
11:00 ~ 12:00	440	53	9	24	4	530	15	0	1	0	0	16	524	64	8	29	1	626	979	117	18	53	5	1172
12:00 ~ 13:00	449	11	19	24	5	508	15	0	0	0	0	15	479	23	25	25	11	563	943	34	44	49	16	1086
13:00 ~ 14:00	420	24	23	28	13	508	17	0	0	0	0	17	412	20	20	32	4	488	849	44	43	60	17	1013
14:00 ~ 15:00	465	25	11	31	12	544	16	0	1	0	0	17	493	21	20	31	1	566	974	46	32	62	13	1127
15:00 ~ 16:00	427	23	15	20	9	494	39	1	0	1	0	41	289	32	11	31	8	371	755	56	26	52	17	906
16:00 ~ 17:00	464	12	13	21	16	526	13	0	0	0	0	13	316	23	13	25	3	380	793	35	26	46	19	919
17:00 ~ 18:00	412	23	19	23	8	485	12	0	0	0	0	12	347	24	4	20	4	399	771	47	23	43	12	896
18:00 ~ 19:00	320	12	13	19	4	368	8	0	0	0	0	8	347	17	4	19	5	392	675	29	17	38	9	768
19:00 ~ 20:00	304	12	13	21	5	355	11	1	0	0	0	12	328	19	17	17	8	389	643	32	30	38	13	756
20:00 ~ 21:00	291	13	8	19	7	338	27	0	0	0	0	27	283	12	1	20	7	323	601	25	9	39	14	688
21:00 ~ 22:00	248	5	1	16	4	274	17	1	0	0	0	18	303	13	5	24	3	348	568	19	6	40	7	640
22:00 ~ 23:00	225	7	3	21	0	256	8	0	0	0	0	8	329	5	1	11	8	354	562	12	4	32	8	618
23:00 ~ 24:00	113	7	3	11	1	135	1	0	0	0	0	1	111	5	0	4	1	121	225	12	3	15	2	257
24:00 ~ 01:00	104	7	0	3	17	131	5	0	0	0	0	5	104	5	0	1	5	115	213	12	0	4	22	251
01:00 ~ 02:00	53	0	0	0	0	53	4	0	0	0	0	4	76	1	0	0	0	77	133	1	0	0	0	134
02:00 ~ 03:00	33	0	0	5	1	39	3	0	0	0	0	3	35	3	1	1	4	44	71	3	1	6	5	86
03:00 ~ 04:00	25	3	0	1	0	29	3	0	0	0	0	3	29	3	3	0	5	40	57	6	3	1	5	72
04:00 ~ 05:00	17	4	0	5	3	29	8	0	0	0	0	8	32	3	1	0	0	36	57	7	1	5	3	73
05:00 ~ 06:00	53	4	9	20	11	97	12	1	0	0	0	13	84	13	7	21	4	129	149	18	16	41	15	239
06:00 ~ 07:00	128	20	12	36	8	204	11	2	0	0	0	13	245	17	9	41	9	321	384	39	21	77	17	538
Total	5978	392	211	427	155	7163	288	7	2	1	0	298	7062	496	222	466	95	8341	13328	895	435	894	250	15802

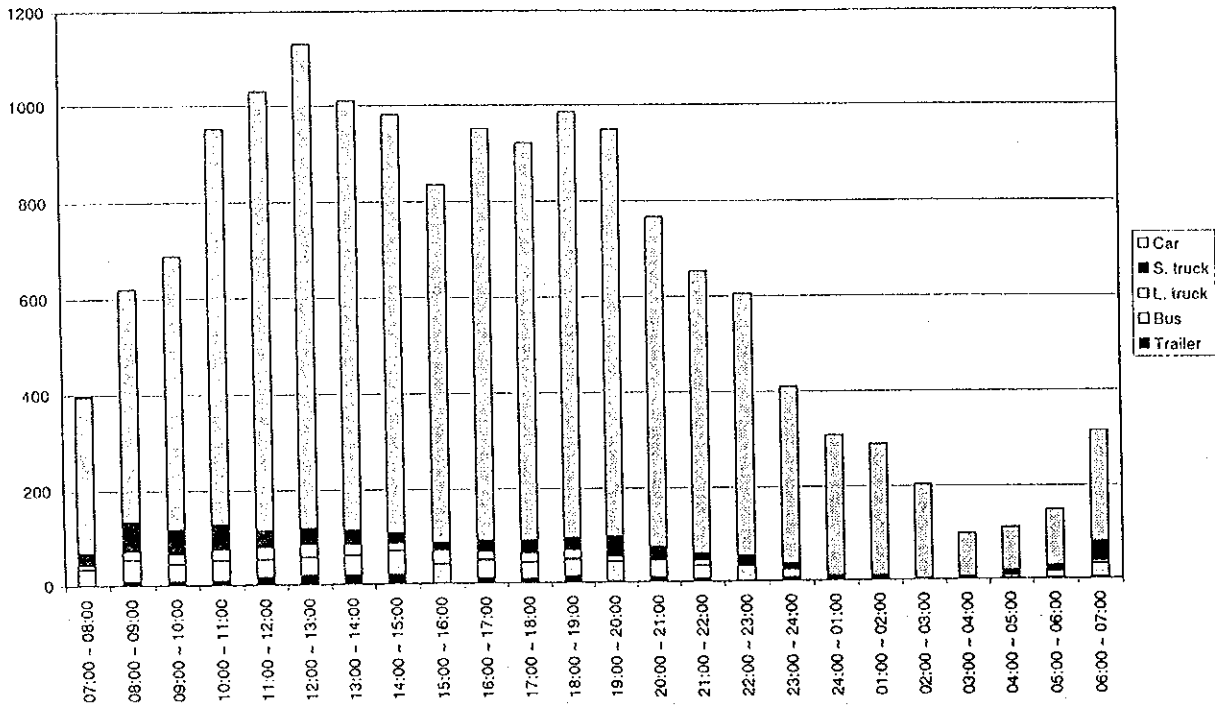


Figure D4.27(4) Hourly Traffic Volume by Vehicle Type - Measuring Point 2 (25/25.04.1998 - holiday)

Table D4.52(4) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 2 (25/26.04.1998 - holiday)

time	No. 2 a						No. 2 b						No. 2 c						Total for No. 2					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	141	7	8	19	0	175	4	0	0	0	0	4	184	17	1	15	0	217	329	24	9	34	0	396
08:00 - 09:00	225	23	15	25	8	296	1	0	0	0	0	1	261	39	3	20	0	323	487	62	18	45	8	620
09:00 - 10:00	220	23	15	16	7	281	16	0	1	0	0	17	336	28	4	21	1	390	572	51	20	37	8	688
10:00 - 11:00	299	16	8	20	9	352	19	0	0	0	0	19	508	35	15	23	0	581	826	51	23	43	9	952
11:00 - 12:00	427	20	17	17	12	493	12	0	0	0	0	12	477	15	9	20	4	525	916	35	26	37	16	1030
12:00 - 13:00	517	13	7	20	15	572	16	0	0	0	0	16	479	21	19	20	3	542	1012	34	26	40	18	1130
13:00 - 14:00	481	8	15	17	12	533	17	0	0	0	0	17	399	21	8	27	5	460	897	29	23	44	17	1010
14:00 - 15:00	463	12	12	28	12	527	19	0	0	0	0	19	393	8	4	23	7	435	875	20	16	51	19	981
15:00 - 16:00	445	7	8	17	0	477	15	0	0	0	0	15	291	7	21	23	1	343	751	14	29	40	1	835
16:00 - 17:00	488	12	13	19	7	539	9	0	0	0	0	9	365	11	4	20	3	403	862	23	17	39	10	951
17:00 - 18:00	416	7	8	16	3	450	9	0	0	0	0	9	407	19	12	19	5	462	832	26	20	35	8	921
18:00 - 19:00	432	4	8	13	7	464	24	0	0	0	0	24	436	21	12	24	5	498	892	25	20	37	12	986
19:00 - 20:00	444	24	8	17	1	494	9	0	0	0	0	9	401	16	4	24	1	446	854	40	12	41	2	949
20:00 - 21:00	308	15	4	13	8	348	13	0	0	0	0	13	372	7	1	24	1	405	693	22	5	37	9	766
21:00 - 22:00	303	4	3	12	1	323	8	1	0	0	0	9	284	8	8	17	4	321	595	13	11	29	5	653
22:00 - 23:00	273	9	1	17	0	300	7	0	0	0	0	7	272	8	3	15	0	298	552	17	4	32	0	605
23:00 - 24:00	176	3	0	7	1	187	11	0	0	0	0	11	189	5	3	11	5	213	376	8	3	18	6	411
24:00 - 01:00	115	1	1	5	0	122	5	0	0	0	0	5	179	1	1	0	0	181	299	2	2	5	0	308
01:00 - 02:00	136	4	1	1	3	145	3	0	0	0	0	3	140	0	1	0	0	141	279	4	2	1	3	289
02:00 - 03:00	73	0	0	1	0	74	4	0	0	0	0	4	124	0	0	1	0	125	201	0	0	2	0	203
03:00 - 04:00	52	0	1	3	0	56	1	0	0	0	0	1	40	0	1	0	0	41	93	0	2	3	0	98
04:00 - 05:00	44	3	1	5	0	53	8	0	0	0	0	8	41	5	0	3	0	49	93	8	1	8	0	110
05:00 - 06:00	52	1	1	9	0	63	4	0	0	0	0	4	64	7	3	7	0	81	120	8	4	16	0	148
06:00 - 07:00	76	19	3	15	3	116	5	0	0	0	0	5	156	21	4	13	0	194	237	40	7	28	3	315
Total	6606	235	158	332	109	7440	239	1	1	0	0	241	6798	320	141	370	45	7674	13643	556	300	702	154	15355

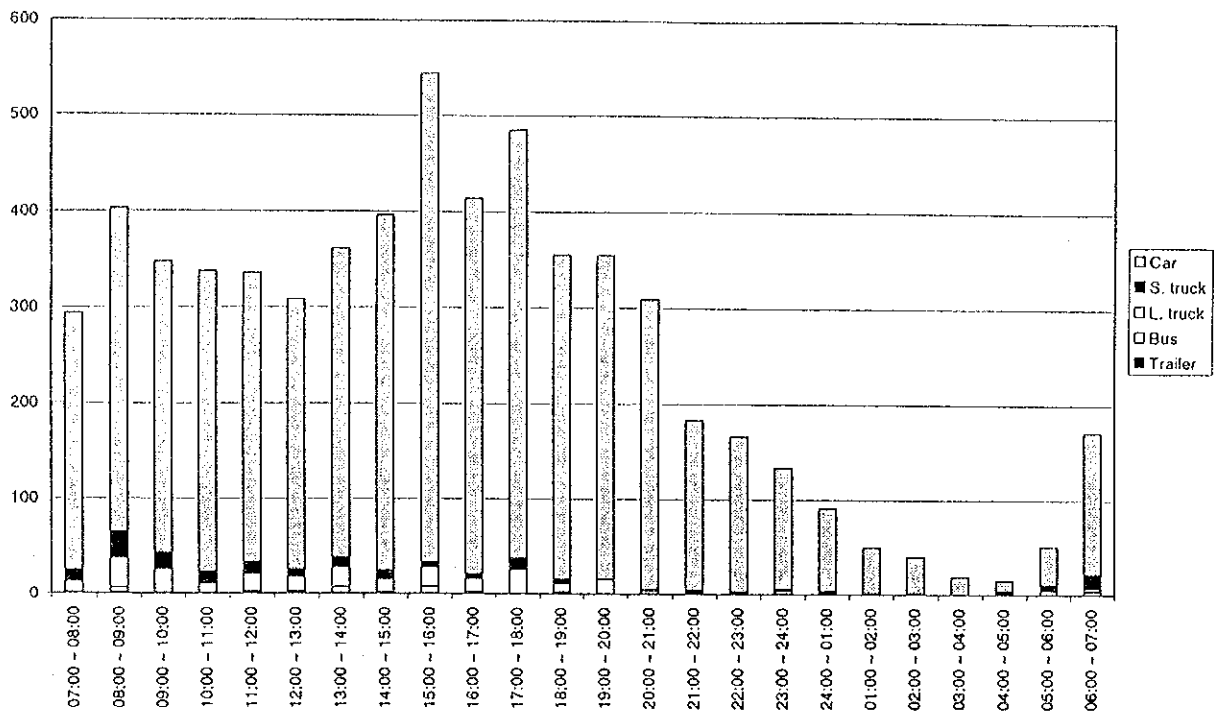


Figure D4.27(5) Hourly Traffic Volume by Vehicle Type - Measuring Point 3 (22/23.04.1998 - weekday)

Table D4.52(5) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 3 (22/23.04.1998 - weekday)

time	No. 3 a						No. 3 b						Total for No. 3					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 ~ 08:00	97	4	5	1	0	107	173	7	7	0	0	187	270	11	12	1	0	294
08:00 ~ 09:00	147	13	15	0	0	175	192	13	17	5	1	228	339	26	32	5	1	403
09:00 ~ 10:00	161	5	11	0	0	177	144	11	15	0	0	170	305	16	26	0	0	347
10:00 ~ 11:00	155	7	4	0	0	166	160	4	7	0	0	171	315	11	11	0	0	337
11:00 ~ 12:00	149	5	11	1	1	167	153	7	8	0	0	168	302	12	19	1	1	335
12:00 ~ 13:00	172	3	8	1	0	184	111	4	8	1	0	124	283	7	16	2	0	308
13:00 ~ 14:00	169	5	12	4	0	190	155	4	9	3	0	171	324	9	21	7	0	361
14:00 ~ 15:00	227	4	9	0	0	240	145	5	5	1	0	156	372	9	14	1	0	396
15:00 ~ 16:00	364	4	9	3	0	380	147	1	11	5	0	164	511	5	20	8	0	544
16:00 ~ 17:00	247	3	9	1	0	260	147	1	5	1	0	154	394	4	14	2	0	414
17:00 ~ 18:00	245	7	15	0	0	267	203	4	11	0	0	218	448	11	26	0	0	485
18:00 ~ 19:00	191	1	8	0	1	201	149	3	1	1	0	154	340	4	9	1	1	355
19:00 ~ 20:00	189	0	15	0	0	204	151	0	0	0	0	151	340	0	15	0	0	355
20:00 ~ 21:00	188	0	4	0	0	192	117	0	0	0	0	117	305	0	4	0	0	309
21:00 ~ 22:00	96	1	1	1	0	99	83	0	0	1	0	84	179	1	1	2	0	183
22:00 ~ 23:00	103	0	1	0	0	104	61	1	0	0	0	62	164	1	1	0	0	166
23:00 ~ 24:00	69	1	0	1	0	71	59	0	0	3	0	62	128	1	0	4	0	133
24:00 ~ 01:00	44	1	1	0	0	46	44	0	0	1	0	45	88	1	1	1	0	91
01:00 ~ 02:00	28	0	1	0	0	29	21	0	0	0	0	21	49	0	1	0	0	50
02:00 ~ 03:00	20	0	0	0	0	20	19	0	1	0	0	20	39	0	1	0	0	40
03:00 ~ 04:00	11	0	0	0	0	11	8	0	0	0	0	8	19	0	0	0	0	19
04:00 ~ 05:00	5	0	0	0	0	5	7	0	0	3	0	10	12	0	0	3	0	15
05:00 ~ 06:00	16	1	0	5	0	22	25	3	1	0	0	29	41	4	1	5	0	51
06:00 ~ 07:00	51	5	1	3	0	60	99	8	3	1	0	111	150	13	4	4	0	171
Total	3144	70	140	21	2	3377	2573	76	109	26	1	2785	5717	146	249	47	3	6162

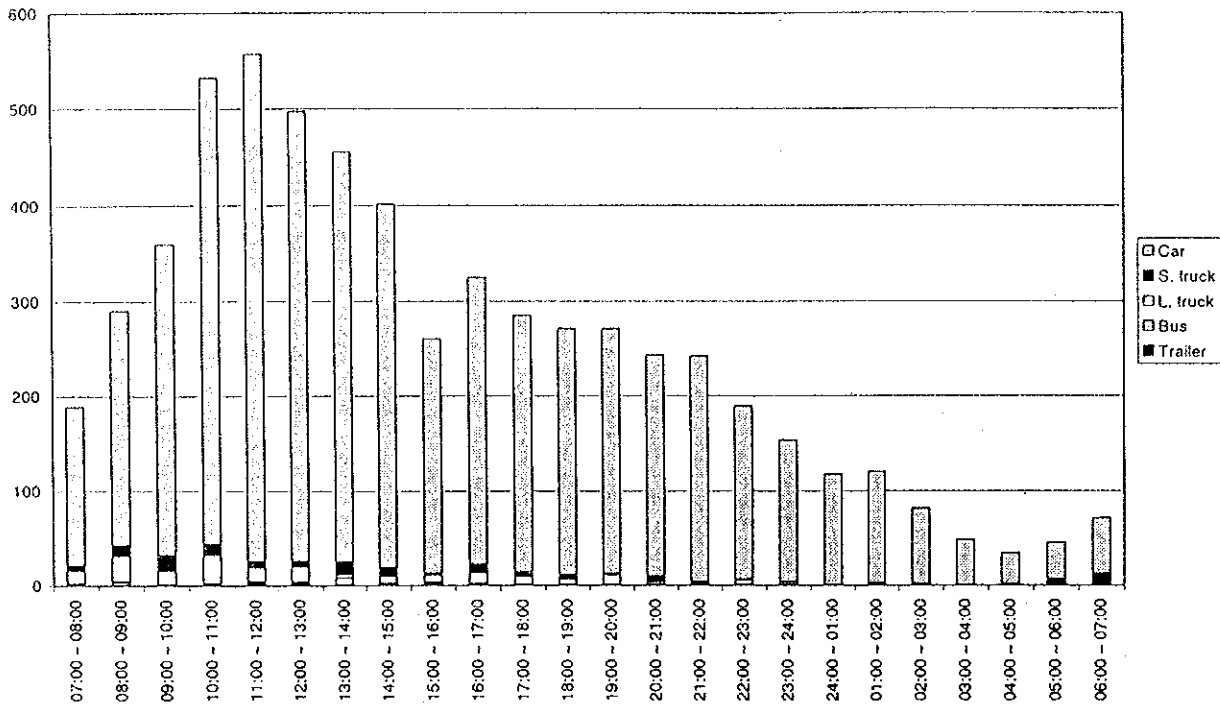


Figure D4.27(6) Hourly Traffic Volume by Vehicle Type - Measuring Point 3 (25/25.04.1998 - holiday)

Table D4.52(6) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 3 (25/26.04.1998 - holiday)

time	No. 3 a						No. 3 b						Total for No. 3					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	68	3	5	1	0	77	100	1	9	1	0	111	168	4	14	2	0	188
08:00 - 09:00	97	3	12	0	0	112	151	8	15	4	0	178	248	11	27	4	0	290
09:00 - 10:00	171	7	7	1	0	186	157	9	8	0	0	174	328	16	15	1	0	360
10:00 - 11:00	260	4	7	0	1	272	229	7	23	0	1	260	489	11	30	0	2	532
11:00 - 12:00	263	5	7	0	3	278	269	1	8	1	0	279	532	6	15	1	3	557
12:00 - 13:00	251	1	9	1	1	263	221	4	8	1	0	234	472	5	17	2	1	497
13:00 - 14:00	231	9	1	4	1	246	200	3	3	3	0	209	431	12	4	7	1	455
14:00 - 15:00	216	8	3	1	0	228	167	0	5	0	1	173	383	8	8	1	1	401
15:00 - 16:00	151	1	4	0	0	156	96	1	4	3	0	104	247	2	8	3	0	260
16:00 - 17:00	167	7	4	1	0	179	136	1	8	1	0	146	303	8	12	2	0	325
17:00 - 18:00	160	4	5	0	0	169	111	1	3	1	0	116	271	5	8	1	0	285
18:00 - 19:00	123	1	3	1	0	128	137	3	3	0	0	143	260	4	6	1	0	271
19:00 - 20:00	132	0	9	0	0	141	127	1	1	1	0	130	259	1	10	1	0	271
20:00 - 21:00	103	4	1	1	0	109	131	0	0	3	0	134	234	4	1	4	0	243
21:00 - 22:00	99	1	0	1	0	101	139	1	0	1	0	141	238	2	0	2	0	242
22:00 - 23:00	83	0	0	1	0	84	100	0	0	4	1	105	183	0	0	5	1	189
23:00 - 24:00	72	0	0	3	0	75	77	0	0	1	0	78	149	0	0	4	0	153
24:00 - 01:00	72	0	0	0	0	72	45	0	0	0	0	45	117	0	0	0	0	117
01:00 - 02:00	71	0	0	0	0	71	47	1	1	0	0	49	118	1	1	0	0	120
02:00 - 03:00	52	0	0	0	1	53	28	0	0	0	0	28	80	0	0	0	1	81
03:00 - 04:00	29	0	0	0	0	29	19	0	0	0	0	19	48	0	0	0	0	48
04:00 - 05:00	17	0	0	1	0	18	16	0	0	0	0	16	33	0	0	1	0	34
05:00 - 06:00	23	1	0	1	0	25	16	4	0	0	0	20	39	5	0	1	0	45
06:00 - 07:00	19	4	0	3	0	26	40	5	0	0	0	45	59	9	0	3	0	71
Total	2970	63	77	21	7	3098	2759	51	99	25	3	2937	5689	114	176	46	10	6035

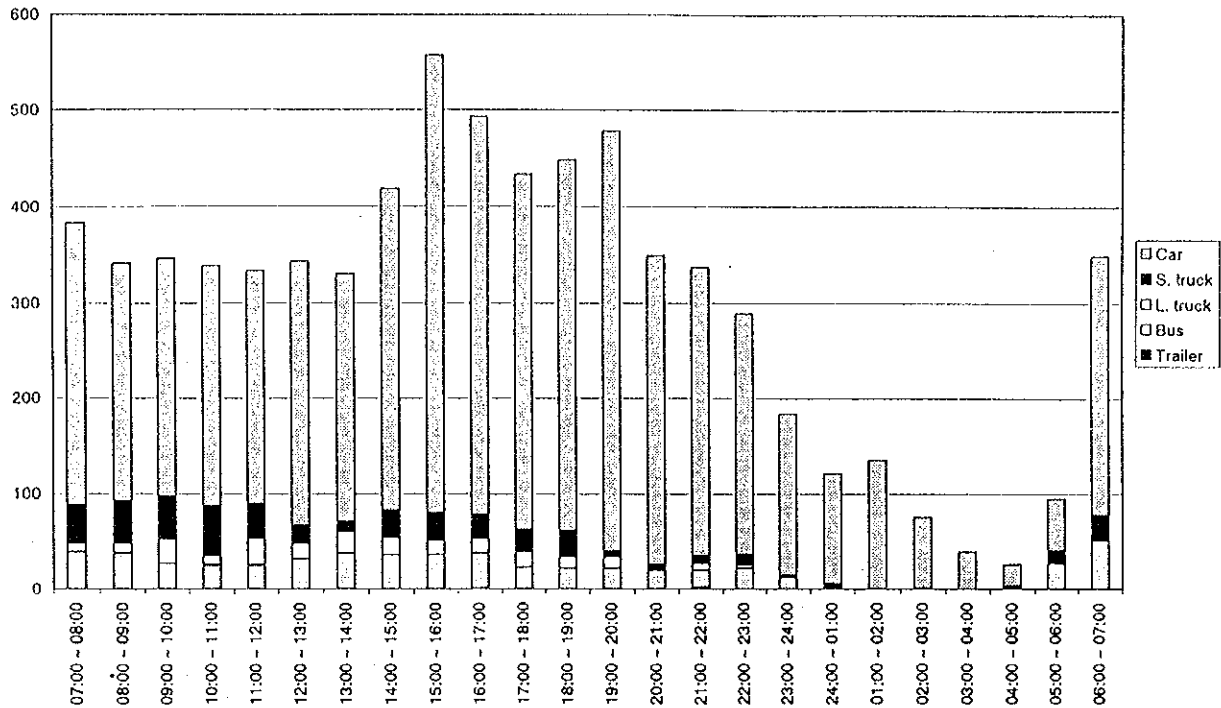


Figure D4.27(7) Hourly Traffic Volume by Vehicle Type - Measuring Point 4 (22/23.04.1998 - weekday)

Table D4.52(7) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 4 (22/23.04.1998 - weekday)

time	No. 4 a						No. 4 b						Total for No. 4					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	56	15	4	20	0	95	240	24	5	19	0	288	296	39	9	39	0	383
08:00 - 09:00	92	16	9	17	0	134	157	28	1	21	0	207	249	44	10	38	0	341
09:00 - 10:00	109	23	17	12	0	161	141	21	8	15	0	185	250	44	25	27	0	346
10:00 - 11:00	139	27	5	12	0	183	113	24	5	13	0	155	252	51	10	25	0	338
11:00 - 12:00	120	24	15	12	0	171	124	12	13	13	0	162	244	36	28	25	0	333
12:00 - 13:00	153	7	11	19	0	190	124	11	5	13	0	153	277	18	16	32	0	343
13:00 - 14:00	149	5	9	17	1	181	111	5	13	20	0	149	260	10	22	37	1	330
14:00 - 15:00	207	19	7	16	0	249	129	9	11	20	0	169	336	28	18	36	0	418
15:00 - 16:00	335	15	8	19	0	377	143	13	7	17	0	180	478	28	15	36	0	557
16:00 - 17:00	253	13	7	17	0	290	163	11	8	20	1	203	416	24	15	37	1	493
17:00 - 18:00	204	11	11	12	0	238	167	12	5	11	0	195	371	23	16	23	0	433
18:00 - 19:00	224	11	3	9	0	247	164	15	9	13	0	201	388	26	12	22	0	448
19:00 - 20:00	199	4	1	11	0	215	240	1	11	11	0	263	439	5	12	22	0	478
20:00 - 21:00	144	4	0	9	0	157	180	0	1	11	0	192	324	4	1	20	0	349
21:00 - 22:00	143	3	4	9	1	160	160	4	3	9	1	177	303	7	7	18	2	337
22:00 - 23:00	133	7	3	9	0	152	120	3	1	13	0	137	253	10	4	22	0	289
23:00 - 24:00	81	1	0	4	0	86	89	0	1	8	0	98	170	1	1	12	0	184
24:00 - 01:00	52	1	0	0	1	54	64	3	0	0	0	67	116	4	0	0	1	121
01:00 - 02:00	83	0	0	0	0	83	52	0	0	0	0	52	135	0	0	0	0	135
02:00 - 03:00	41	0	0	0	0	41	33	1	0	0	0	34	74	1	0	0	0	75
03:00 - 04:00	23	0	0	0	0	23	16	0	0	0	0	16	39	0	0	0	0	39
04:00 - 05:00	4	0	0	1	0	5	19	1	0	1	0	21	23	1	0	2	0	26
05:00 - 06:00	11	4	1	16	0	32	44	8	0	11	0	63	55	12	1	27	0	95
06:00 - 07:00	36	9	0	28	0	73	236	17	0	23	0	276	272	26	0	51	0	349
Total	2991	219	115	269	3	3597	3029	223	107	282	2	3643	6020	442	222	551	5	7240

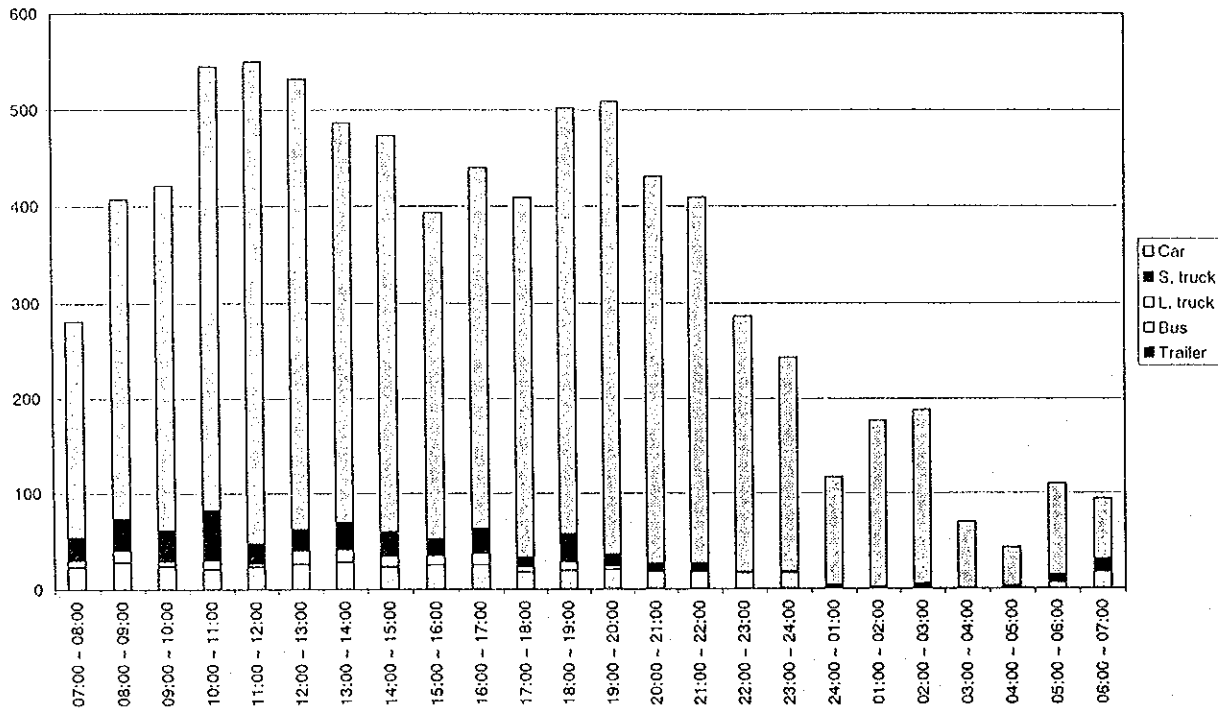


Figure D4.27(8) Hourly Traffic Volume by Vehicle Type - Measuring Point 4 (25/25.04.1998 - holiday)

Table D4.52(8) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 4 (25/26.04.1998 - holiday)

time	No. 4 a							No. 4 b					Total for No. 4					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	76	9	3	12	0	100	151	15	4	11	0	181	227	24	7	23	0	281
08:00 - 09:00	147	16	4	12	0	179	187	17	8	16	0	228	334	33	12	28	0	407
09:00 - 10:00	160	19	4	13	0	196	200	13	1	11	0	225	360	32	5	24	0	421
10:00 - 11:00	227	21	4	9	0	261	236	31	5	12	0	284	463	52	9	21	0	545
11:00 - 12:00	271	9	3	12	0	295	232	11	1	11	0	255	503	20	4	23	0	550
12:00 - 13:00	221	7	5	13	0	246	249	15	9	13	0	286	470	22	14	26	0	532
13:00 - 14:00	257	15	4	12	0	288	160	13	9	16	0	198	417	28	13	28	0	486
14:00 - 15:00	237	12	4	11	0	264	177	13	7	12	0	209	414	25	11	23	0	473
15:00 - 16:00	221	9	7	13	0	250	120	8	3	12	0	143	341	17	10	25	0	393
16:00 - 17:00	217	5	7	13	0	242	160	21	5	12	0	198	377	26	12	25	0	440
17:00 - 18:00	213	4	1	7	0	225	164	5	4	11	0	184	377	9	5	18	0	409
18:00 - 19:00	205	9	1	8	0	223	240	20	8	11	0	279	445	29	9	19	0	502
19:00 - 20:00	220	7	0	12	0	239	253	5	4	8	0	270	473	12	4	20	0	509
20:00 - 21:00	189	7	0	11	0	207	216	1	0	7	0	224	405	8	0	18	0	431
21:00 - 22:00	176	3	0	11	0	190	207	5	0	7	0	219	383	8	0	18	0	409
22:00 - 23:00	128	1	0	7	0	136	141	0	0	9	0	150	269	1	0	16	0	286
23:00 - 24:00	112	1	0	9	0	122	113	1	0	7	0	121	225	2	0	16	0	243
24:00 - 01:00	113	1	0	0	0	114	1	1	0	1	0	3	114	2	0	1	0	117
01:00 - 02:00	109	1	0	0	0	110	67	0	0	0	0	67	176	1	0	0	0	177
02:00 - 03:00	111	1	1	0	1	114	73	1	0	0	0	74	184	2	1	0	1	188
03:00 - 04:00	49	0	0	0	0	49	21	0	0	0	0	21	70	0	0	0	0	70
04:00 - 05:00	21	0	0	1	0	22	20	0	0	1	0	21	41	0	0	2	0	43
05:00 - 06:00	29	3	0	3	0	35	67	5	0	3	0	75	96	8	0	6	0	110
06:00 - 07:00	31	5	0	9	0	45	33	8	0	8	0	49	64	13	0	17	0	94
Total	3740	165	48	198	1	4152	3488	209	68	199	0	3964	7228	374	116	397	1	8116

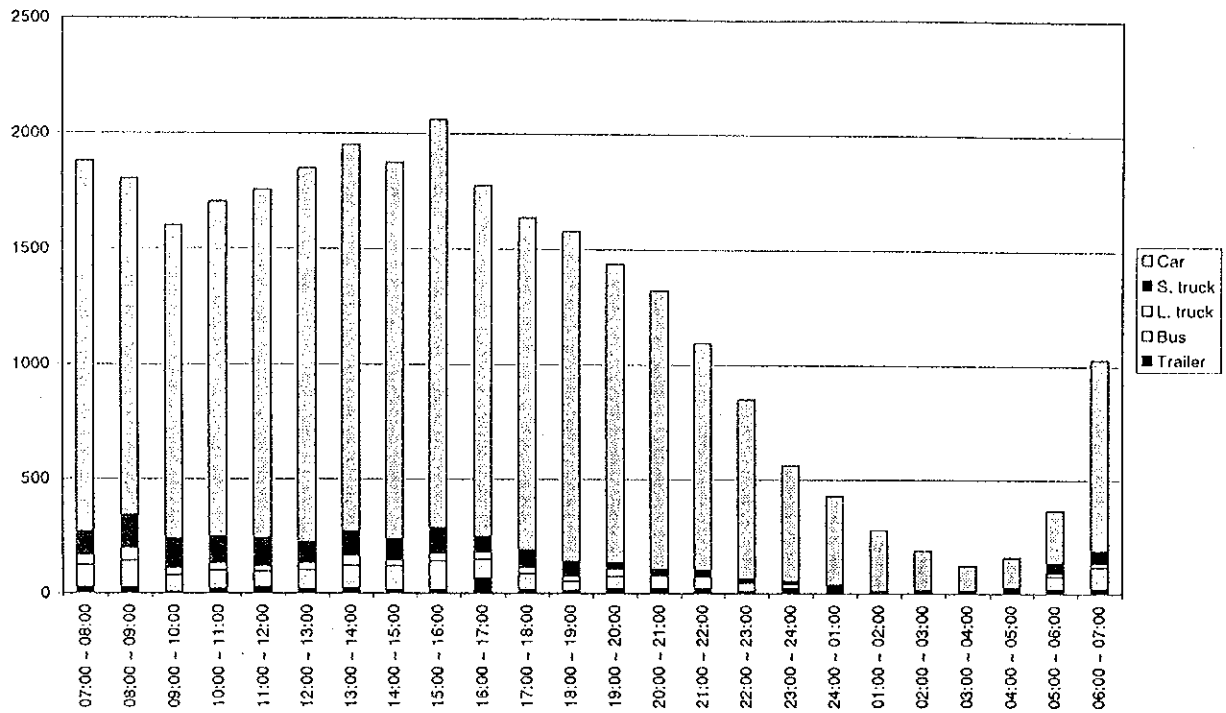


Table D4.52(9) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 5 (22/23.04.1998 - weekday)

time	No. 5 a						No. 5 b						No. 5 c						No. 5 d						Total for No. 5					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	283	24	19	32	13	371	96	12	0	16	0	124	1016	47	23	47	11	1144	217	17	3	4	0	241	1612	100	45	99	24	1880
08:00 - 09:00	321	33	16	24	12	406	148	20	3	15	0	186	841	64	37	77	11	1030	153	24	0	3	0	180	1463	141	56	119	23	1802
09:00 - 10:00	351	52	38	23	3	457	180	15	0	12	0	207	721	51	5	36	1	814	111	7	0	3	0	121	1363	125	33	74	4	1599
10:00 - 11:00	436	35	27	23	11	532	171	16	0	12	0	199	741	53	5	44	4	847	108	11	1	4	0	124	1456	115	33	83	15	1702
11:00 - 12:00	456	49	17	16	9	547	187	7	0	9	1	204	717	52	9	40	16	834	156	11	0	3	0	170	1516	119	26	68	26	1755
12:00 - 13:00	608	28	11	27	9	683	143	11	0	16	0	170	732	40	21	40	7	845	140	8	0	3	0	151	1628	87	32	86	16	1849
13:00 - 14:00	731	53	11	31	13	829	131	13	0	16	1	161	685	36	33	51	5	810	136	1	1	3	0	141	1683	103	45	101	19	1951
14:00 - 15:00	691	40	5	39	7	782	124	12	1	13	0	150	604	29	21	53	4	711	220	7	0	3	0	230	1639	88	27	108	11	1873
15:00 - 16:00	791	60	8	45	5	909	149	5	0	19	0	173	544	35	25	60	7	671	296	8	1	4	0	309	1780	108	34	136	12	2062
16:00 - 17:00	683	27	9	33	37	799	124	4	1	17	0	146	529	25	21	45	3	623	196	7	1	3	0	207	1532	62	32	88	60	1775
17:00 - 18:00	584	33	11	27	5	660	120	7	0	12	0	139	604	31	17	31	7	690	140	3	0	3	0	146	1448	74	28	73	12	1635
18:00 - 19:00	529	19	5	15	3	571	129	4	0	13	0	146	605	32	19	12	7	675	179	5	0	1	0	185	1442	60	24	41	10	1577
19:00 - 20:00	475	12	13	17	5	522	115	1	4	9	0	129	553	11	15	27	12	618	163	1	1	1	1	167	1306	25	33	54	18	1426
20:00 - 21:00	392	9	5	23	9	428	83	0	0	12	3	98	560	8	4	32	7	611	185	0	0	1	0	186	1220	17	9	58	19	1323
21:00 - 22:00	333	8	4	11	12	368	60	0	0	8	0	68	476	7	7	35	5	530	128	0	0	1	0	129	997	15	11	55	17	1095
22:00 - 23:00	284	3	1	9	3	303	57	1	0	9	0	67	339	5	1	20	4	369	108	0	0	1	0	109	788	9	5	39	7	848
23:00 - 24:00	168	1	5	7	11	192	24	4	0	4	0	32	244	1	0	9	7	261	73	0	0	1	1	75	509	6	5	21	19	560
24:00 - 01:00	112	4	5	1	11	138	28	0	0	0	0	28	164	3	1	1	7	176	83	1	1	0	0	85	392	8	7	2	18	427
01:00 - 02:00	76	3	0	0	0	79	16	0	0	0	0	16	140	1	0	1	0	142	40	0	0	1	0	41	272	4	0	2	0	278
02:00 - 03:00	43	5	0	4	1	53	9	1	0	0	0	10	89	0	0	1	0	90	35	0	0	0	0	35	176	6	0	5	1	188
03:00 - 04:00	32	1	1	0	0	34	4	0	0	0	0	4	49	1	3	0	5	58	27	0	0	0	0	27	112	2	4	0	5	123
04:00 - 05:00	49	3	4	5	3	64	11	0	0	0	0	11	59	4	0	1	0	64	16	3	0	0	0	19	135	10	4	6	3	158
05:00 - 06:00	53	9	13	25	13	113	27	5	0	5	0	37	133	23	3	25	3	187	20	4	0	3	0	27	233	41	16	58	16	364
06:00 - 07:00	131	35	9	23	11	189	68	7	3	9	0	87	587	17	9	60	8	681	57	8	0	4	0	69	843	47	21	96	19	1026
Total	8617	526	230	440	226	10039	3204	145	13	226	5	2592	11737	576	279	748	141	13481	2987	126	9	50	2	3174	25545	1373	530	1464	374	29286

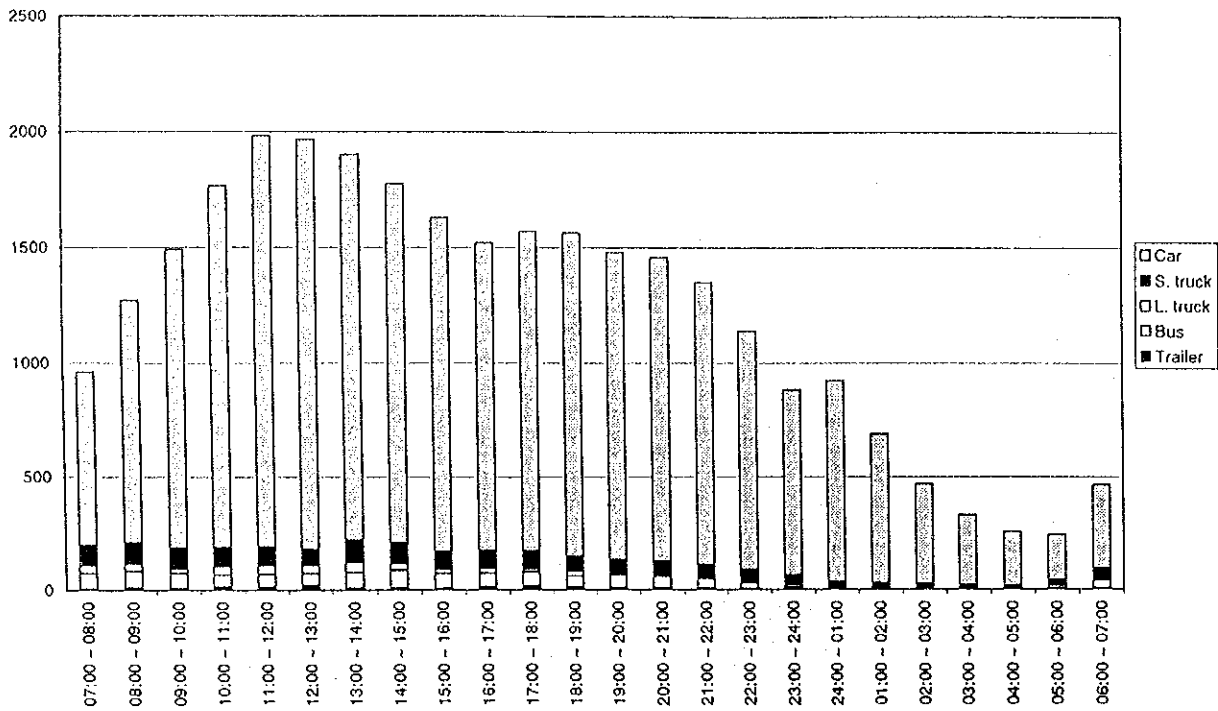


Table D4.52(10) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 5 (25/26.04.1998 - holiday)

time	No. 5 a						No. 5 b						No. 5 c						No. 5 d						Total for No. 5					
	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total
07:00 ~ 08:00	369	27	11	29	1	337	113	25	19	8	0	165	309	31	5	31	3	379	71	7	0	1	0	79	762	90	35	69	4	960
08:00 ~ 09:00	401	37	31	31	5	495	107	15	5	9	0	136	476	33	7	33	3	552	81	7	0	1	0	89	1065	92	33	74	8	1272
09:00 ~ 10:00	449	36	16	19	4	524	157	12	1	12	0	182	565	35	4	35	1	640	133	9	1	1	0	144	1304	92	22	67	5	1490
10:00 ~ 11:00	540	35	21	21	5	622	143	8	8	3	0	162	708	29	8	29	7	781	187	12	0	1	0	200	1578	84	37	54	12	1765
11:00 ~ 12:00	629	28	25	19	7	708	184	15	3	11	0	213	791	28	9	28	4	860	188	12	1	1	0	202	1792	83	38	59	11	1983
12:00 ~ 13:00	661	31	21	23	8	744	257	11	4	8	0	280	637	24	9	24	9	703	233	4	3	0	0	240	1788	70	37	55	17	1967
13:00 ~ 14:00	697	40	20	24	5	786	124	13	3	7	0	147	669	39	20	39	1	768	192	8	1	1	0	202	1682	100	44	71	6	1903
14:00 ~ 15:00	693	44	21	33	1	794	91	8	0	11	0	110	583	33	7	33	4	660	203	5	1	3	0	212	1570	90	29	80	7	1776
15:00 ~ 16:00	564	27	5	20	1	617	100	7	0	9	0	116	599	37	13	37	4	690	199	7	0	1	0	207	1462	78	18	62	5	1630
16:00 ~ 17:00	539	27	11	15	7	599	84	11	1	8	0	104	588	35	8	35	4	660	157	5	3	3	0	168	1348	78	23	61	11	1521
17:00 ~ 18:00	520	33	4	25	8	590	56	4	0	7	0	67	679	32	11	32	5	759	145	8	0	1	0	154	1400	77	15	65	13	1570
18:00 ~ 19:00	493	25	9	16	5	548	65	4	0	5	0	74	695	27	11	27	5	785	164	8	1	3	0	176	1417	64	21	51	10	1563
19:00 ~ 20:00	480	20	5	21	3	529	49	0	1	7	0	57	649	31	5	31	3	719	172	1	0	1	0	174	1350	52	11	60	6	1479
20:00 ~ 21:00	473	21	7	19	4	524	44	4	0	0	0	48	657	31	1	31	1	721	161	0	0	3	0	164	1335	56	8	53	5	1457
21:00 ~ 22:00	427	19	4	13	1	461	47	0	0	0	0	47	616	29	8	29	3	685	152	0	0	1	0	153	1242	48	12	43	4	1349
22:00 ~ 23:00	381	28	5	9	0	421	36	1	0	0	0	37	508	19	1	19	1	548	127	3	0	1	0	131	1052	51	4	29	1	1137
23:00 ~ 24:00	360	24	5	7	3	399	28	0	0	0	0	28	360	8	1	8	3	380	72	3	0	0	0	75	820	35	6	15	6	882
24:00 ~ 01:00	380	20	3	3	0	406	20	0	0	0	0	20	388	1	3	1	0	393	103	0	1	0	0	104	891	21	7	4	0	923
01:00 ~ 02:00	287	16	0	1	0	304	8	0	0	0	0	8	276	3	0	3	0	382	91	3	0	0	0	94	662	22	0	4	0	688
02:00 ~ 03:00	204	19	1	1	0	225	12	0	0	0	0	12	160	1	0	1	0	162	69	0	0	0	0	69	445	20	1	2	0	468
03:00 ~ 04:00	116	12	3	1	0	132	8	0	0	0	0	8	131	1	1	1	0	134	57	1	0	0	0	58	312	14	4	2	0	332
04:00 ~ 05:00	73	8	0	3	1	85	3	0	0	0	0	3	115	1	0	1	0	117	49	1	0	1	0	51	240	10	0	5	1	256
05:00 ~ 06:00	43	3	0	1	1	48	15	0	0	0	0	15	123	13	0	13	0	149	23	4	0	3	0	30	204	20	0	17	1	242
06:00 ~ 07:00	164	16	1	7	3	191	35	3	0	2	0	40	143	23	1	23	0	190	31	8	0	4	0	43	373	50	2	36	3	464
Total	9843	598	217	361	75	11092	1786	141	45	107	0	2079	11405	544	133	544	61	12687	3060	116	12	31	0	3219	24094	1397	407	1043	136	29077

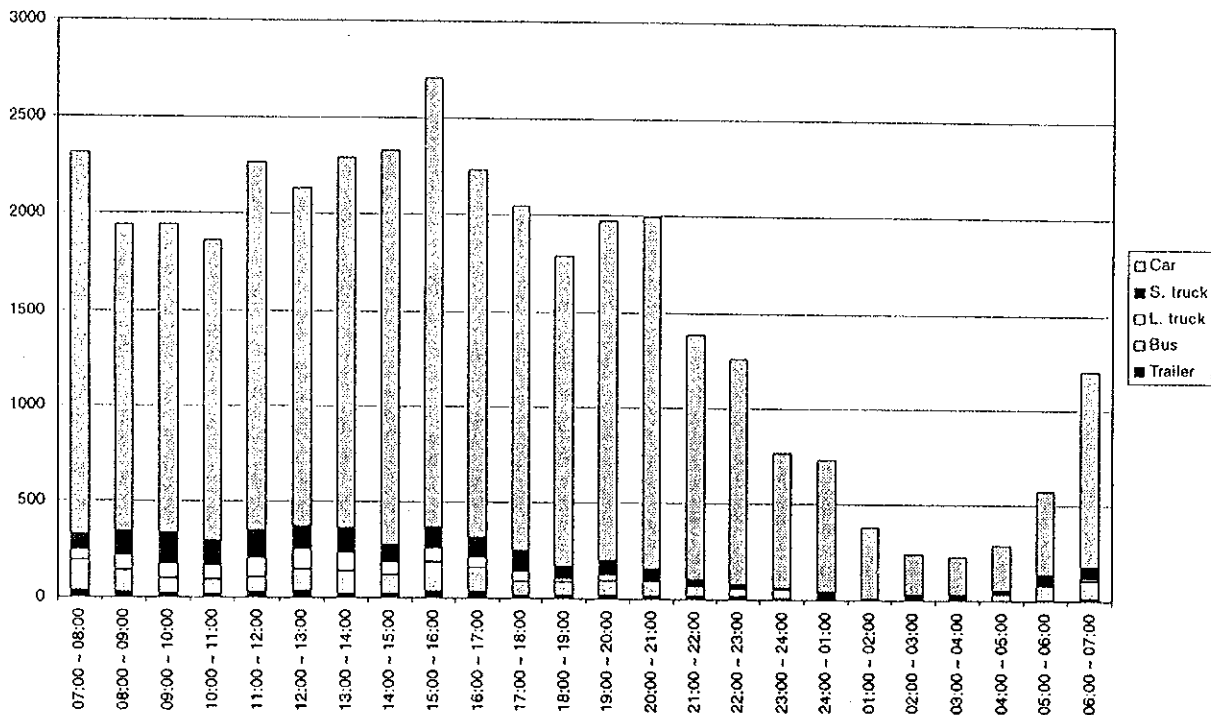


Figure D4.27(11) Hourly Traffic Volume by Vehicle Type - Measuring Point 6 (22/23.04.1998 - weekday)

Table D4.52(11) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 6 (22/23.04.1998 - weekday)

time	No. 6 a						No. 6 b						No. 6 c						No. 6 d						Total for No. 6					
	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total
07:00 ~ 08:00	251	17	13	27	3	311	215	21	27	7	24	394	1083	37	4	64	0	1188	340	4	5	67	3	419	1989	79	49	165	30	2312
08:00 ~ 09:00	244	25	13	16	1	299	240	13	29	5	21	308	668	40	5	52	0	765	452	41	31	43	4	571	1604	119	78	116	26	1943
09:00 ~ 10:00	260	33	15	11	7	326	168	29	31	5	11	244	683	48	1	36	0	768	496	49	25	32	0	602	1607	159	72	84	18	1940
10:00 ~ 11:00	248	23	7	1	3	282	277	37	31	4	7	356	609	29	3	39	0	680	432	40	33	32	5	542	1566	129	74	76	15	1860
11:00 ~ 12:00	315	32	31	4	5	387	216	36	32	5	11	300	765	37	8	47	0	857	629	32	28	27	9	725	1925	137	99	83	25	2369
12:00 ~ 13:00	260	26	16	8	3	423	293	27	33	8	15	376	580	37	19	52	3	691	536	13	36	47	13	645	1769	113	104	115	34	2135
13:00 ~ 14:00	383	31	19	9	5	449	256	21	12	5	5	299	633	29	16	64	1	743	664	47	40	45	9	805	1936	130	87	123	20	2396
14:00 ~ 15:00	517	37	16	3	5	578	207	13	12	3	7	242	528	12	15	60	1	616	807	25	24	36	4	896	2059	87	67	102	17	2332
15:00 ~ 16:00	740	23	15	27	3	808	188	21	28	5	18	258	439	15	5	59	1	519	973	52	23	64	11	1123	2340	111	71	155	31	2708
16:00 ~ 17:00	471	13	9	47	4	544	199	33	15	7	12	266	447	12	5	35	1	500	807	43	24	39	13	926	1924	101	53	128	30	2236
17:00 ~ 18:00	383	24	7	7	0	421	236	13	16	4	9	278	484	21	5	27	0	537	700	45	27	35	4	811	1803	103	55	73	13	2047
18:00 ~ 19:00	380	13	1	1	0	395	147	9	7	4	5	172	516	15	3	37	1	572	580	24	11	31	7	653	1623	61	22	73	13	1792
19:00 ~ 20:00	240	11	3	3	0	257	211	19	13	4	13	260	233	21	8	35	0	797	596	16	9	36	3	660	1780	67	33	78	16	1974
20:00 ~ 21:00	279	4	3	4	0	290	261	16	7	1	7	292	716	17	5	39	0	777	588	5	3	32	7	635	1844	42	18	76	14	1994
21:00 ~ 22:00	228	3	1	1	1	234	176	8	5	0	7	196	525	4	3	36	0	568	359	3	1	19	5	387	1288	18	10	56	13	1385
22:00 ~ 23:00	176	4	1	4	0	185	147	5	0	1	9	162	529	5	1	20	1	556	329	4	0	21	0	354	1181	18	2	46	10	1257
23:00 ~ 24:00	92	3	1	21	0	117	81	0	1	0	3	85	320	1	0	9	3	333	216	0	1	12	3	232	709	4	3	42	9	767
24:00 ~ 01:00	127	1	1	4	1	134	67	1	1	1	4	74	196	3	0	4	1	204	300	1	1	3	12	317	690	6	3	12	18	729
01:00 ~ 02:00	84	1	0	0	0	85	51	0	0	0	0	51	57	1	1	1	0	60	184	0	0	0	1	185	376	2	1	1	1	381
02:00 ~ 03:00	40	0	0	0	0	40	20	1	0	0	4	25	43	1	3	3	0	50	113	3	1	5	3	125	216	5	4	8	7	240
03:00 ~ 04:00	24	1	1	1	0	27	31	1	1	1	5	39	55	3	1	3	1	63	89	1	4	3	0	95	199	6	7	6	6	224
04:00 ~ 05:00	28	0	0	0	0	28	27	7	3	20	0	57	36	1	0	7	0	44	145	3	3	5	3	159	236	11	6	32	3	288
05:00 ~ 06:00	32	3	1	1	0	37	73	13	3	4	3	96	77	9	3	27	0	116	259	13	7	43	4	326	441	38	14	75	7	575
06:00 ~ 07:00	135	4	1	3	1	144	123	11	7	4	5	150	364	16	4	47	0	431	409	24	4	37	8	482	1031	55	16	91	14	1207
Total	6037	344	175	203	12	6801	3010	355	214	95	203	4930	11098	414	118	803	14	12435	11003	464	341	712	131	12875	23236	1601	948	1816	390	24891

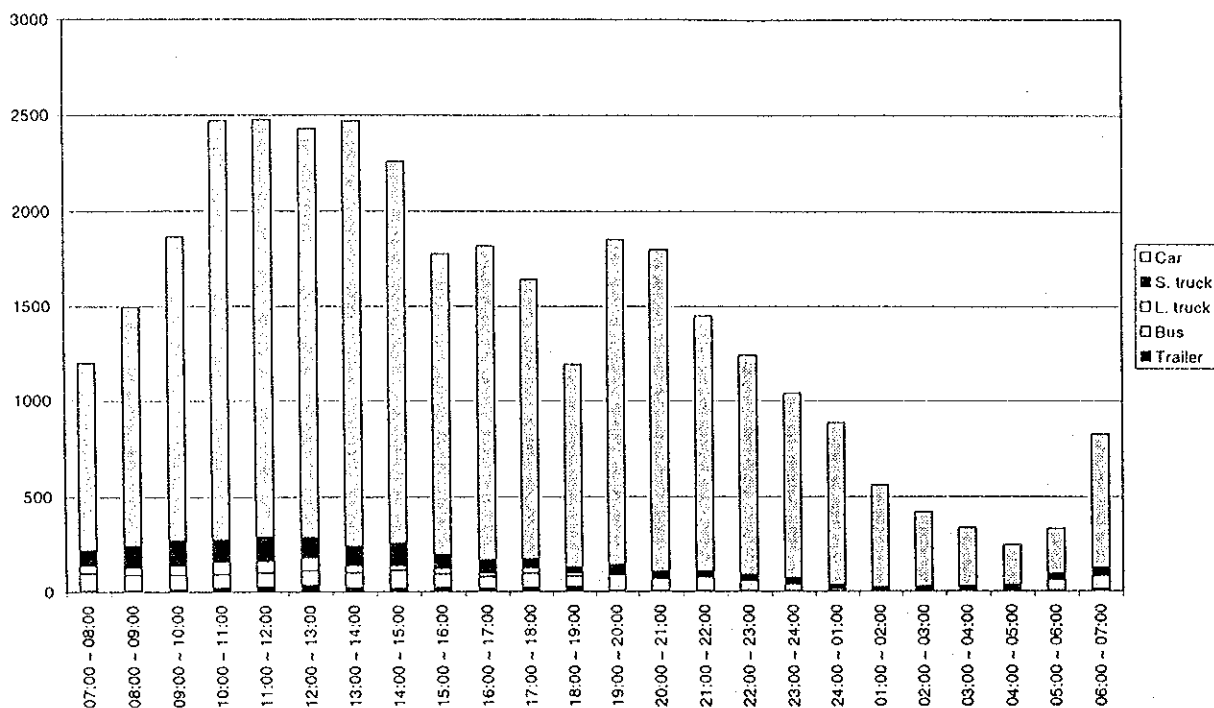


Figure D4.27(12) Hourly Traffic Volume by Vehicle Type - Measuring Point 6 (25/25.04.1998 - holiday)

Table D4.52(12) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 6 (25/26.04.1998 - holiday)

time	No. 6 a						No. 6 b						No. 6 c						No. 6 d						Total for No. 6					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 ~ 08:00	241	4	9	7	0	261	167	15	19	5	7	213	347	17	5	48	0	417	227	39	8	32	0	306	982	75	41	92	7	1197
08:00 ~ 09:00	275	8	3	3	0	289	200	27	13	6	5	253	433	28	8	45	0	514	347	48	15	28	1	439	1255	111	39	84	6	1495
09:00 ~ 10:00	249	8	3	3	0	268	280	29	11	9	7	336	529	32	9	35	0	605	540	59	20	31	5	655	1598	128	48	78	12	1864
10:00 ~ 11:00	367	17	7	0	0	391	409	20	33	3	15	471	831	27	9	40	0	907	600	47	20	31	3	701	2198	141	69	74	18	2470
11:00 ~ 12:00	391	16	9	1	1	418	408	21	23	7	16	475	772	25	13	41	0	851	620	59	17	29	7	732	2191	121	62	78	24	2476
12:00 ~ 13:00	375	8	4	1	0	388	397	19	29	3	16	464	587	15	11	45	0	658	787	61	24	32	15	919	2146	103	68	81	31	2429
13:00 ~ 14:00	300	5	5	3	0	313	308	21	15	4	13	361	809	28	8	47	1	897	813	44	11	28	5	901	2230	98	39	82	19	2468
14:00 ~ 15:00	305	11	3	0	1	318	215	17	8	1	5	276	685	16	7	51	1	760	773	67	11	45	9	905	2008	111	27	97	16	2259
15:00 ~ 16:00	287	5	3	1	0	296	216	11	13	4	15	259	497	20	8	41	1	567	580	35	4	32	1	652	1580	71	28	78	17	1774
16:00 ~ 17:00	283	5	1	3	0	292	236	8	7	0	5	256	548	13	1	31	1	594	587	37	13	29	9	675	1654	63	22	63	15	1817
17:00 ~ 18:00	203	7	3	4	0	217	188	13	9	4	9	223	531	12	1	36	4	584	551	11	15	36	4	617	1473	43	28	80	17	1641
18:00 ~ 19:00	177	3	1	4	0	185	184	9	11	3	13	220	404	11	4	31	0	450	300	4	4	20	9	337	1065	27	20	58	22	1193
19:00 ~ 20:00	383	7	4	3	1	398	217	12	7	4	4	244	555	4	1	45	0	605	557	12	3	32	0	604	1712	35	15	84	5	1851
20:00 ~ 21:00	367	0	3	3	0	373	207	4	0	4	0	215	637	4	0	36	0	677	483	15	7	24	3	532	1694	23	10	67	3	1797
21:00 ~ 22:00	271	1	1	11	0	284	117	8	4	4	3	166	595	5	3	32	0	635	331	5	3	25	0	364	1344	19	11	72	3	1449
22:00 ~ 23:00	256	3	0	5	0	264	117	3	4	1	1	126	497	5	1	29	0	532	283	9	5	20	1	318	1153	20	10	55	2	1240
23:00 ~ 24:00	211	1	0	8	0	220	83	8	3	1	0	95	313	4	0	17	0	334	368	11	1	12	0	392	975	24	4	38	0	1041
24:00 ~ 01:00	240	1	0	0	0	241	80	1	0	1	0	82	295	3	0	9	0	307	240	4	3	6	0	255	855	9	3	18	0	885
01:00 ~ 02:00	147	0	0	0	0	147	56	3	0	1	0	60	76	1	0	4	0	81	264	5	1	1	1	272	543	9	1	6	1	560
02:00 ~ 03:00	125	1	0	4	0	130	59	1	3	3	1	67	61	1	0	3	0	65	151	3	1	1	0	156	396	6	4	11	1	418
03:00 ~ 04:00	92	0	1	3	0	96	51	5	1	0	1	58	56	0	0	3	0	59	117	4	0	3	0	124	316	9	2	9	1	337
04:00 ~ 05:00	23	3	1	1	0	28	40	0	1	1	0	42	31	1	0	5	0	37	120	4	3	7	3	137	214	8	5	14	3	244
05:00 ~ 06:00	31	5	3	3	1	43	53	7	1	11	1	73	52	5	0	16	0	73	104	5	4	28	0	141	240	22	8	58	2	330
06:00 ~ 07:00	255	0	0	7	1	263	91	12	3	15	4	125	185	9	3	24	0	321	172	9	7	25	4	217	703	30	13	71	9	826
Total	5854	119	67	78	5	6123	4430	274	218	97	141	5160	10326	186	92	714	8	11428	9915	597	200	559	80	11351	20325	1276	577	1448	254	34080

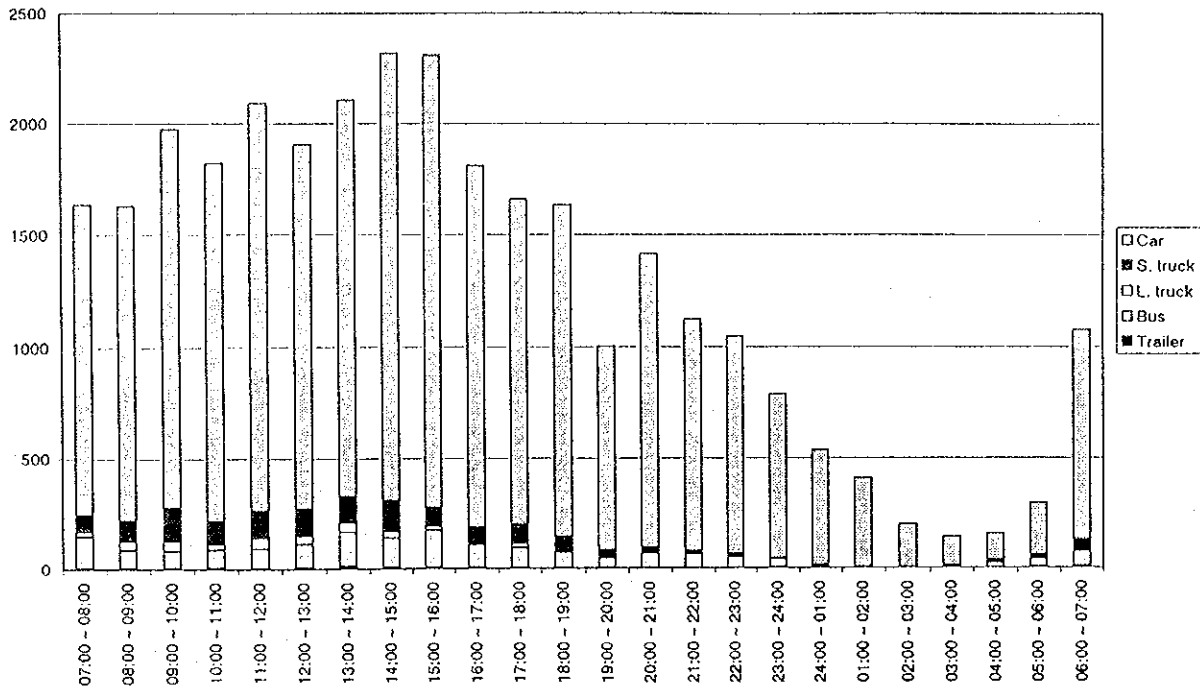


Figure D4.27(13) Hourly Traffic Volume by Vehicle Type - Measuring Point 7 (22/23.04.1998 - weekday)

Table D4.52(13) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 7 (22/23.04.1998 - weekday)

time	No. 7 a						No. 7 b						Total for No. 7					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 ~ 08:00	259	31	5	81	3	379	1133	44	17	64	0	1258	1392	75	22	145	3	1637
08:00 ~ 09:00	517	40	29	40	1	627	893	51	12	45	1	1002	1410	91	41	85	2	1629
09:00 ~ 10:00	749	72	27	43	1	892	947	76	17	36	4	1080	1696	148	44	79	5	1972
10:00 ~ 11:00	720	53	20	43	1	837	885	48	7	40	3	983	1605	101	27	83	4	1820
11:00 ~ 12:00	833	60	17	43	0	953	997	61	32	49	0	1139	1830	121	49	92	0	2092
12:00 ~ 13:00	811	55	11	49	0	926	824	65	27	59	4	979	1635	120	38	108	4	1905
13:00 ~ 14:00	839	64	12	65	7	987	941	52	32	87	8	1120	1780	116	44	152	15	2107
14:00 ~ 15:00	1151	79	15	69	1	1315	859	56	17	67	3	1002	2010	135	32	136	4	2317
15:00 ~ 16:00	1373	53	12	104	5	1547	657	31	7	63	3	761	2030	84	19	167	8	2308
16:00 ~ 17:00	964	37	5	59	4	1069	659	28	5	43	3	738	1623	65	10	102	7	1807
17:00 ~ 18:00	751	48	16	55	3	873	709	35	4	36	1	785	1460	83	20	91	4	1658
18:00 ~ 19:00	744	21	3	33	0	801	749	39	4	39	1	832	1493	60	7	72	1	1633
19:00 ~ 20:00	440	20	3	21	1	485	480	9	5	21	3	518	920	29	8	42	4	1003
20:00 ~ 21:00	680	19	1	36	1	737	640	4	1	32	1	678	1320	23	2	68	2	1415
21:00 ~ 22:00	517	5	1	25	0	548	533	5	0	39	0	577	1050	10	1	64	0	1125
22:00 ~ 23:00	496	5	0	31	0	532	487	7	1	20	1	516	983	12	1	51	1	1048
23:00 ~ 24:00	361	4	0	25	1	391	383	1	0	11	3	398	744	5	0	36	4	789
24:00 ~ 01:00	292	5	0	1	0	298	229	3	0	3	1	236	521	8	0	4	1	534
01:00 ~ 02:00	227	0	0	3	0	230	176	1	0	1	0	178	403	1	0	4	0	408
02:00 ~ 03:00	107	0	0	3	0	110	89	0	1	1	0	91	196	0	1	4	0	201
03:00 ~ 04:00	71	1	0	3	0	75	61	3	1	1	1	67	132	4	1	4	1	142
04:00 ~ 05:00	63	4	0	7	1	75	63	3	0	16	0	82	126	7	0	23	1	157
05:00 ~ 06:00	79	7	1	9	3	99	160	7	3	27	1	198	239	14	4	36	4	297
06:00 ~ 07:00	381	15	7	24	4	431	569	23	5	44	4	645	950	38	12	68	8	1076
Total	13425	698	185	872	37	15217	14123	652	198	844	46	15863	27548	1350	383	1716	83	31080

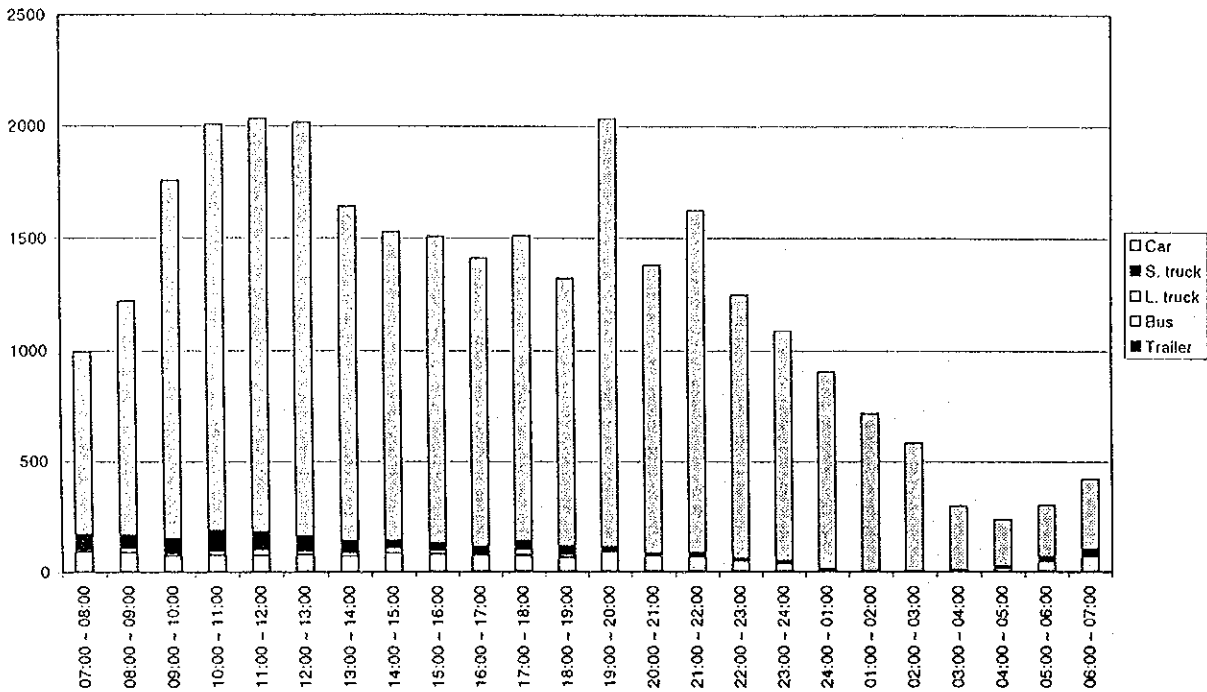


Figure D4.27(14) Hourly Traffic Volume by Vehicle Type - Measuring Point 7 (25/25.04.1998 - holiday)

Table D4.52(14) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 7 (25/26.04.1998 - holiday)

time	No. 7 a						No. 7 b						Total for No. 7					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	331	17	5	49	0	402	493	48	7	44	0	592	824	65	12	93	0	994
08:00 - 09:00	456	20	12	43	0	531	600	40	8	45	0	693	1056	60	20	88	0	1224
09:00 - 10:00	731	32	5	36	0	804	873	33	8	36	0	950	1604	65	13	72	0	1754
10:00 - 11:00	851	40	13	41	0	945	971	48	8	36	0	1063	1822	88	21	77	0	2008
11:00 - 12:00	760	32	15	35	0	842	1093	47	12	40	0	1192	1853	79	27	75	0	2034
12:00 - 13:00	936	25	11	41	0	1013	920	37	7	39	0	1003	1856	62	18	80	0	2016
13:00 - 14:00	807	27	9	36	0	879	693	24	8	36	0	761	1500	51	17	72	0	1640
14:00 - 15:00	801	16	7	51	0	875	587	17	15	35	0	654	1388	33	22	86	0	1529
15:00 - 16:00	871	12	9	44	0	936	507	19	9	37	0	572	1378	31	18	81	0	1508
16:00 - 17:00	779	17	3	39	0	838	520	11	7	36	0	574	1299	28	10	75	0	1412
17:00 - 18:00	704	20	16	36	0	776	667	17	11	40	0	735	1371	37	27	76	0	1511
18:00 - 19:00	581	15	7	32	0	635	627	19	7	35	0	688	1208	34	14	67	0	1323
19:00 - 20:00	821	7	3	48	0	879	1103	7	1	44	0	1155	1924	14	4	92	0	2034
20:00 - 21:00	629	1	0	31	0	661	671	8	0	41	0	720	1300	9	0	72	0	1381
21:00 - 22:00	744	0	1	36	0	781	797	11	3	32	0	843	1541	11	4	68	0	1624
22:00 - 23:00	588	0	0	25	0	613	603	11	0	23	0	637	1191	11	0	48	0	1250
23:00 - 24:00	545	4	0	31	0	580	492	8	0	7	0	507	1037	12	0	38	0	1087
24:00 - 01:00	512	1	0	5	0	518	379	3	0	5	0	387	891	4	0	10	0	905
01:00 - 02:00	397	1	0	1	0	399	316	0	0	1	0	317	713	1	0	2	0	716
02:00 - 03:00	309	0	0	0	0	309	272	0	0	1	0	273	581	0	0	1	0	582
03:00 - 04:00	164	1	1	3	0	169	129	1	0	1	0	131	293	2	1	4	0	300
04:00 - 05:00	125	1	0	7	0	133	88	4	0	12	0	104	213	5	0	19	0	237
05:00 - 06:00	117	3	0	19	0	139	121	16	0	28	0	165	238	19	0	47	0	304
06:00 - 07:00	155	7	0	29	0	191	165	21	3	41	0	230	320	28	3	70	0	421
Total	13714	299	117	718	0	14848	13687	450	114	695	0	14946	27401	749	231	1413	0	29794

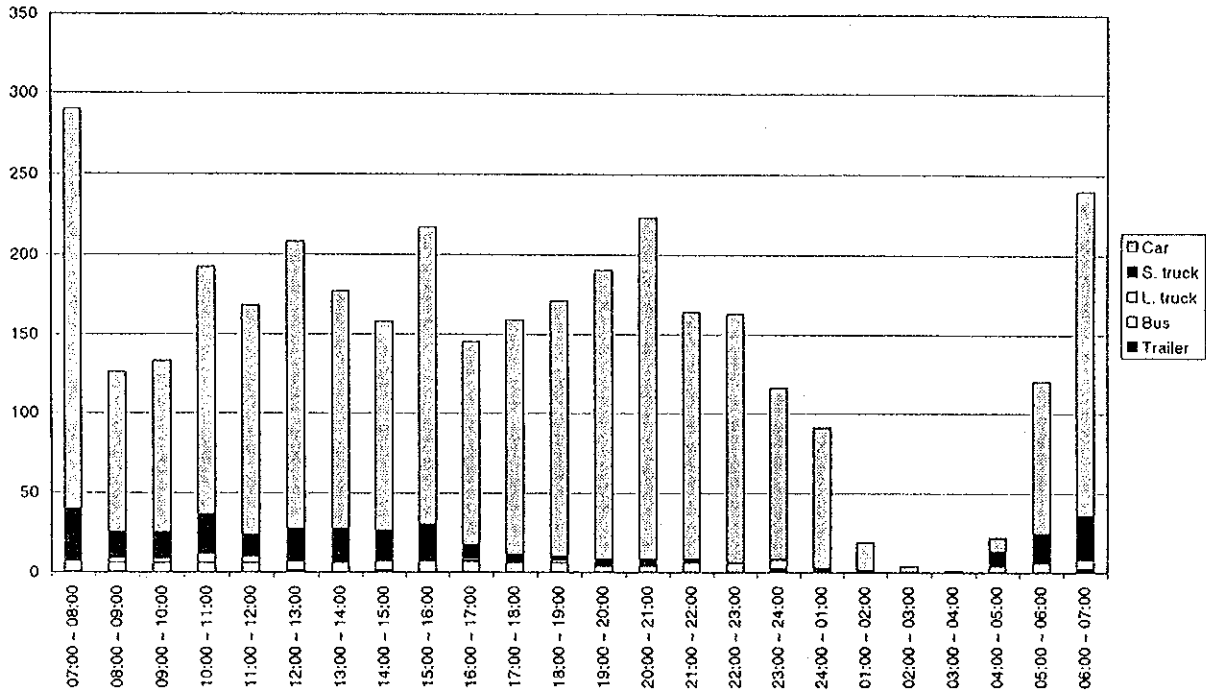


Figure D4.27(15) Hourly Traffic Volume by Vehicle Type - Measuring Point 8 (22/23.04.1998 - weekday)

Table D4.52(15) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 8 (22/23.04.1998 - weekday)

time	No. 8 a						No. 8 b						Total for No. 8					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	200	20	0	3	0	223	51	12	0	4	0	67	251	32	0	7	0	290
08:00 - 09:00	69	8	0	3	0	80	32	8	3	3	0	46	101	16	3	6	0	126
09:00 - 10:00	63	9	3	3	0	78	45	7	0	3	0	55	108	16	3	6	0	133
10:00 - 11:00	100	7	3	3	0	113	56	17	3	3	0	79	156	24	6	6	0	192
11:00 - 12:00	80	5	1	3	0	89	65	8	3	3	0	79	145	13	4	6	0	168
12:00 - 13:00	85	8	1	3	0	97	96	11	0	3	1	111	181	19	1	6	1	208
13:00 - 14:00	97	9	0	3	0	109	53	12	0	3	0	68	150	21	0	6	0	177
14:00 - 15:00	69	9	0	3	1	82	63	9	1	3	0	76	132	18	1	6	1	158
15:00 - 16:00	72	7	0	3	0	82	115	15	1	4	0	135	187	22	1	7	0	217
16:00 - 17:00	73	3	1	3	0	80	55	5	1	4	0	65	128	8	2	7	0	145
17:00 - 18:00	85	1	1	3	0	90	63	3	0	3	0	69	148	4	1	6	0	159
18:00 - 19:00	93	1	1	3	0	98	68	1	1	3	0	73	161	2	2	6	0	171
19:00 - 20:00	85	3	0	3	0	91	97	1	0	1	0	99	182	4	0	4	0	190
20:00 - 21:00	96	3	0	1	0	100	119	1	0	3	0	123	215	4	0	4	0	223
21:00 - 22:00	77	1	0	3	0	81	79	0	1	3	0	83	156	1	1	6	0	164
22:00 - 23:00	81	0	0	3	0	84	76	0	0	3	0	79	157	0	0	6	0	163
23:00 - 24:00	57	0	0	3	1	61	51	0	0	3	1	55	108	0	0	6	2	116
24:00 - 01:00	40	1	0	0	0	41	49	1	0	0	0	50	89	2	0	0	0	91
01:00 - 02:00	3	0	0	0	0	3	15	0	0	1	0	16	18	0	0	1	0	19
02:00 - 03:00	1	0	0	0	0	1	3	0	0	0	0	3	4	0	0	0	0	4
03:00 - 04:00	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1
04:00 - 05:00	4	5	0	1	0	10	5	4	0	3	0	12	9	9	0	4	0	22
05:00 - 06:00	84	8	0	3	0	95	12	9	1	3	0	25	96	17	1	6	0	120
06:00 - 07:00	169	15	0	3	1	188	36	12	0	3	1	52	205	27	0	6	2	240
Total	1783	123	11	56	3	1976	1305	136	15	62	3	1521	3088	259	26	118	6	3497

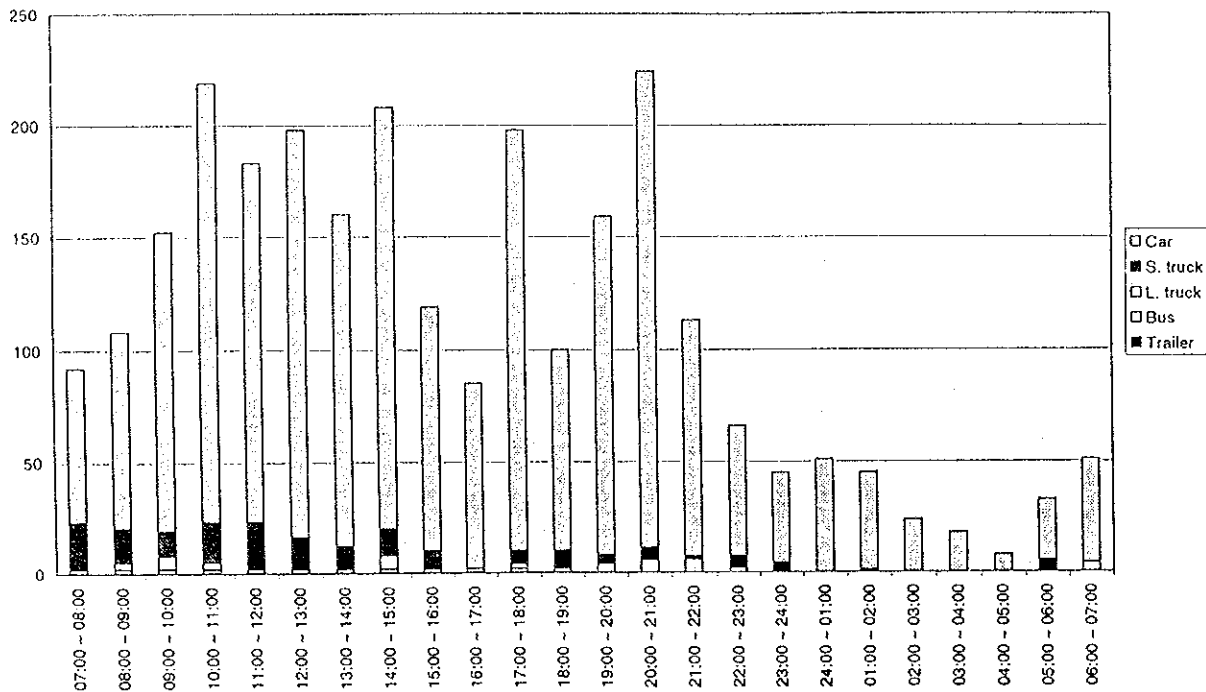


Figure D4.27(16) Hourly Traffic Volume by Vehicle Type - Measuring Point 8 (25/25.04.1998 - holiday)

Table D4.52(16) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 8 (25/26.04.1998 - holiday)

time	No. 8 a							No. 8 b					Total for No. 8					
	car	s. t.	L. t.	bus	trailer	total	car	s. t.	L. t.	bus	trailer	total	car	s. t.	L. t.	bus	trailer	total
07:00 - 08:00	52	12	0	1	0	65	17	9	0	1	0	27	69	21	0	2	0	92
08:00 - 09:00	59	8	0	1	0	68	29	7	3	1	0	40	88	15	3	2	0	108
09:00 - 10:00	80	7	3	1	0	91	53	4	3	1	0	61	133	11	6	2	0	152
10:00 - 11:00	121	5	3	1	0	130	75	13	0	1	0	89	196	18	3	2	0	219
11:00 - 12:00	83	9	0	1	0	93	77	12	0	1	0	90	160	21	0	2	0	183
12:00 - 13:00	91	8	0	1	0	100	91	5	1	1	0	98	182	13	1	2	0	198
13:00 - 14:00	73	7	0	1	0	81	75	3	0	1	0	79	148	10	0	2	0	160
14:00 - 15:00	93	5	3	1	0	102	95	7	3	1	0	106	188	12	6	2	0	208
15:00 - 16:00	64	4	0	1	0	69	45	3	1	1	0	50	109	7	1	2	0	119
16:00 - 17:00	39	0	0	1	0	40	44	0	0	1	0	45	83	0	0	2	0	85
17:00 - 18:00	80	1	1	1	0	83	108	5	1	1	0	115	188	6	2	2	0	198
18:00 - 19:00	43	4	0	1	0	48	47	4	0	1	0	52	90	8	0	2	0	100
19:00 - 20:00	79	1	0	3	0	83	72	3	0	1	0	76	151	4	0	4	0	159
20:00 - 21:00	97	3	1	3	0	104	116	1	0	3	0	120	213	4	1	6	0	224
21:00 - 22:00	51	0	0	3	0	54	55	1	0	3	0	59	106	1	0	6	0	113
22:00 - 23:00	36	3	1	1	0	41	23	1	0	1	0	25	59	4	1	2	0	66
23:00 - 24:00	25	0	0	1	0	26	16	3	0	0	0	19	41	3	0	1	0	45
24:00 - 01:00	15	0	0	0	0	15	36	0	0	0	0	36	51	0	0	0	0	51
01:00 - 02:00	19	0	1	0	0	20	25	0	0	0	0	25	44	0	1	0	0	45
02:00 - 03:00	9	0	0	0	0	9	15	0	0	0	0	15	24	0	0	0	0	24
03:00 - 04:00	7	0	0	0	0	7	11	0	0	0	0	11	18	0	0	0	0	18
04:00 - 05:00	4	0	0	0	0	4	4	0	0	0	0	4	8	0	0	0	0	8
05:00 - 06:00	16	3	0	0	0	19	12	1	0	1	0	14	28	4	0	1	0	33
06:00 - 07:00	31	0	0	1	0	32	16	0	0	3	0	19	47	0	0	4	0	51
Total	1267	80	13	24	0	1384	1157	82	12	24	0	1275	2424	162	25	48	0	2659

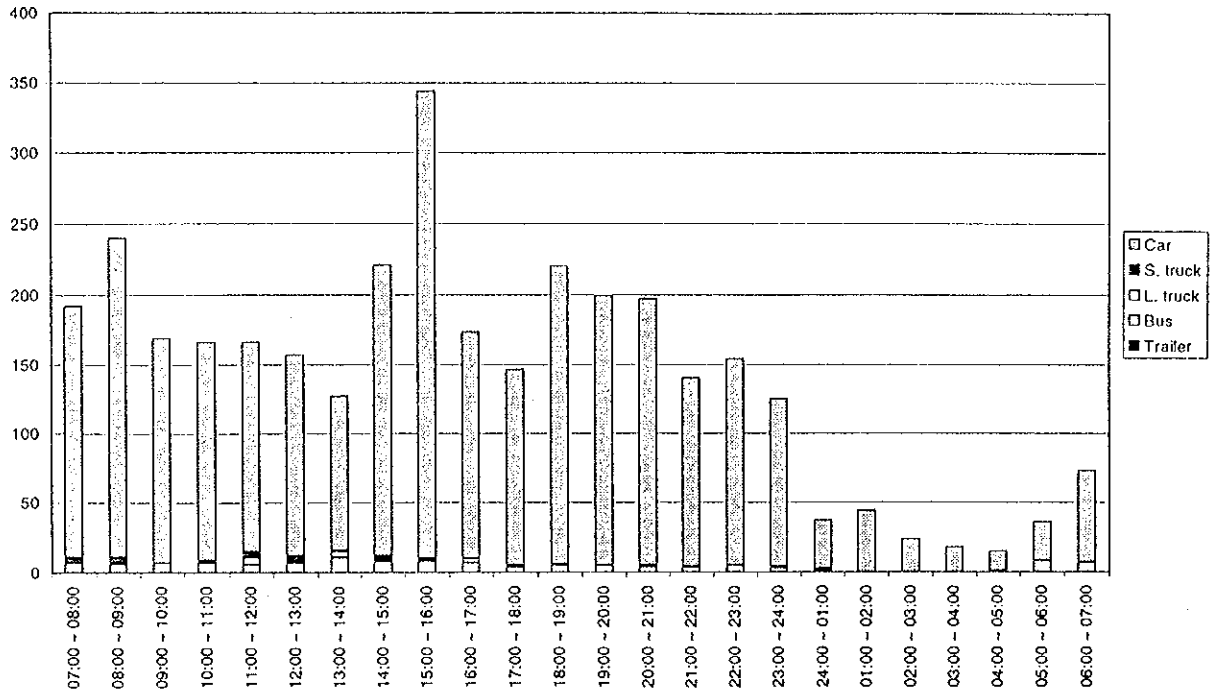


Figure D4.27(17) Hourly Traffic Volume by Vehicle Type - Measuring Point 9 (22/23.04.1998 - weekday)

Table D4.52(17) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 9 (22/23.04.1998 - weekday)

time	No. 9 a						No. 9 b						Total for No. 9					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	53	4	0	7	0	64	128	0	0	0	0	128	181	4	0	7	0	192
08:00 - 09:00	96	4	1	5	0	106	133	0	0	1	0	134	229	4	1	6	0	240
09:00 - 10:00	71	0	0	7	0	78	91	0	0	0	0	91	162	0	0	7	0	169
10:00 - 11:00	65	1	0	7	0	73	92	1	0	0	0	93	157	2	0	7	0	166
11:00 - 12:00	79	4	4	5	0	92	72	0	1	1	0	74	151	4	5	6	0	166
12:00 - 13:00	88	3	1	7	0	99	57	1	0	0	0	58	145	4	1	7	0	157
13:00 - 14:00	64	0	1	11	0	76	47	1	3	0	0	51	111	1	4	11	0	127
14:00 - 15:00	120	1	0	8	0	129	89	3	0	0	0	92	209	4	0	8	0	221
15:00 - 16:00	213	0	1	8	0	222	121	1	0	0	0	122	334	1	1	8	0	344
16:00 - 17:00	107	0	3	7	0	117	56	0	0	0	0	56	163	0	3	7	0	173
17:00 - 18:00	77	0	0	4	0	81	64	0	1	0	0	65	141	0	1	4	0	146
18:00 - 19:00	107	0	0	5	0	112	107	1	0	0	0	108	214	1	0	5	0	220
19:00 - 20:00	117	0	0	5	0	122	77	0	0	0	0	77	194	0	0	5	0	199
20:00 - 21:00	116	0	1	4	0	121	76	0	0	0	0	76	192	0	1	4	0	197
21:00 - 22:00	68	0	0	4	0	72	68	0	0	0	0	68	136	0	0	4	0	140
22:00 - 23:00	72	0	0	5	0	77	77	0	0	0	0	77	149	0	0	5	0	154
23:00 - 24:00	64	0	1	3	0	68	57	0	0	0	0	57	121	0	1	3	0	125
24:00 - 01:00	23	0	1	0	0	24	12	0	1	0	0	13	35	0	2	0	0	37
01:00 - 02:00	27	0	0	0	0	27	17	0	0	0	0	17	44	0	0	0	0	44
02:00 - 03:00	12	0	0	0	0	12	12	0	0	0	0	12	24	0	0	0	0	24
03:00 - 04:00	11	0	0	0	0	11	7	0	0	0	0	7	18	0	0	0	0	18
04:00 - 05:00	7	0	0	1	0	8	7	0	0	0	0	7	14	0	0	1	0	15
05:00 - 06:00	12	0	0	8	0	20	16	0	0	0	0	16	28	0	0	8	0	36
06:00 - 07:00	19	0	0	7	0	26	47	0	0	0	0	47	66	0	0	7	0	73
Total	1688	17	14	118	0	1837	1530	8	6	2	0	1546	3218	25	20	120	0	3383

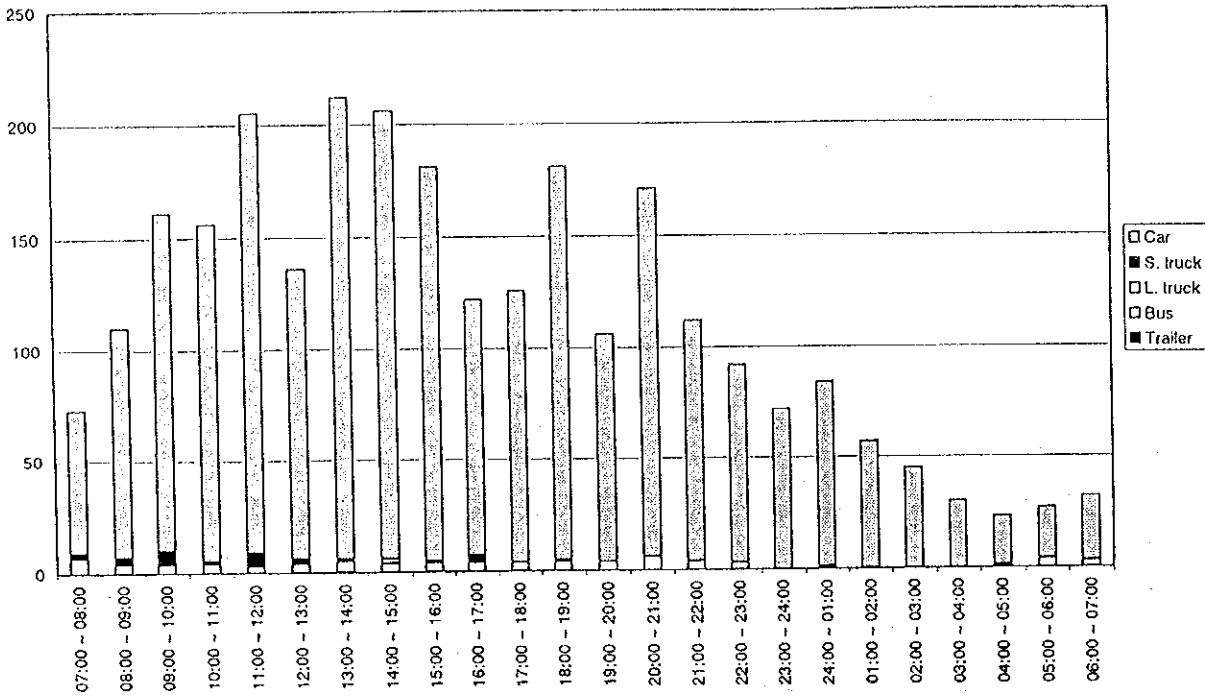


Figure D4.27(18) Hourly Traffic Volume by Vehicle Type - Measuring Point 9 (25/25.04.1998 - holiday)

Table D4.52(18) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 9 (25/26.04.1998 - holiday)

time	No. 9 a						No. 9 b						Total for No. 9					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	20	0	1	7	0	28	44	1	0	0	0	45	64	1	1	7	0	73
08:00 - 09:00	48	0	0	4	0	52	55	3	0	0	0	58	103	3	0	4	0	110
09:00 - 10:00	60	3	0	4	0	67	91	3	0	0	0	94	151	6	0	4	0	161
10:00 - 11:00	71	1	0	4	0	76	80	0	0	0	0	80	151	1	0	4	0	156
11:00 - 12:00	100	3	0	3	0	106	96	3	0	0	0	99	196	6	0	3	0	205
12:00 - 13:00	77	1	0	4	0	82	53	1	0	0	0	54	130	2	0	4	0	136
13:00 - 14:00	103	0	0	5	0	108	103	0	1	0	0	104	206	0	1	5	0	212
14:00 - 15:00	127	0	1	4	0	132	73	0	1	0	0	74	200	0	2	4	0	206
15:00 - 16:00	109	0	0	4	0	113	67	1	0	0	0	68	176	1	0	4	0	181
16:00 - 17:00	76	3	0	4	0	83	39	0	0	0	0	39	115	3	0	4	0	122
17:00 - 18:00	69	0	0	4	0	73	53	0	0	0	0	53	122	0	0	4	0	126
18:00 - 19:00	80	0	1	4	0	85	96	0	0	0	0	96	176	0	1	4	0	181
19:00 - 20:00	45	0	0	4	0	49	57	0	0	0	0	57	102	0	0	4	0	106
20:00 - 21:00	101	0	0	5	0	106	64	0	0	1	0	65	165	0	0	6	0	171
21:00 - 22:00	55	0	0	4	0	59	53	0	0	0	0	53	108	0	0	4	0	112
22:00 - 23:00	37	0	0	3	0	40	52	0	0	0	0	52	89	0	0	3	0	92
23:00 - 24:00	36	0	0	0	0	36	36	0	0	0	0	36	72	0	0	0	0	72
24:00 - 01:00	47	0	0	1	0	48	36	0	0	0	0	36	83	0	0	1	0	84
01:00 - 02:00	37	0	0	0	0	37	20	0	0	0	0	20	57	0	0	0	0	57
02:00 - 03:00	29	0	0	0	0	29	16	0	0	0	0	16	45	0	0	0	0	45
03:00 - 04:00	19	0	0	0	0	19	11	0	0	0	0	11	30	0	0	0	0	30
04:00 - 05:00	13	0	0	1	0	14	9	0	0	0	0	9	22	0	0	1	0	23
05:00 - 06:00	12	0	0	4	0	16	11	0	0	0	0	11	23	0	0	4	0	27
06:00 - 07:00	5	0	0	3	0	8	24	0	0	0	0	24	29	0	0	3	0	32
Total	1376	11	3	76	0	1466	1239	12	2	1	0	1254	2615	23	5	77	0	2720

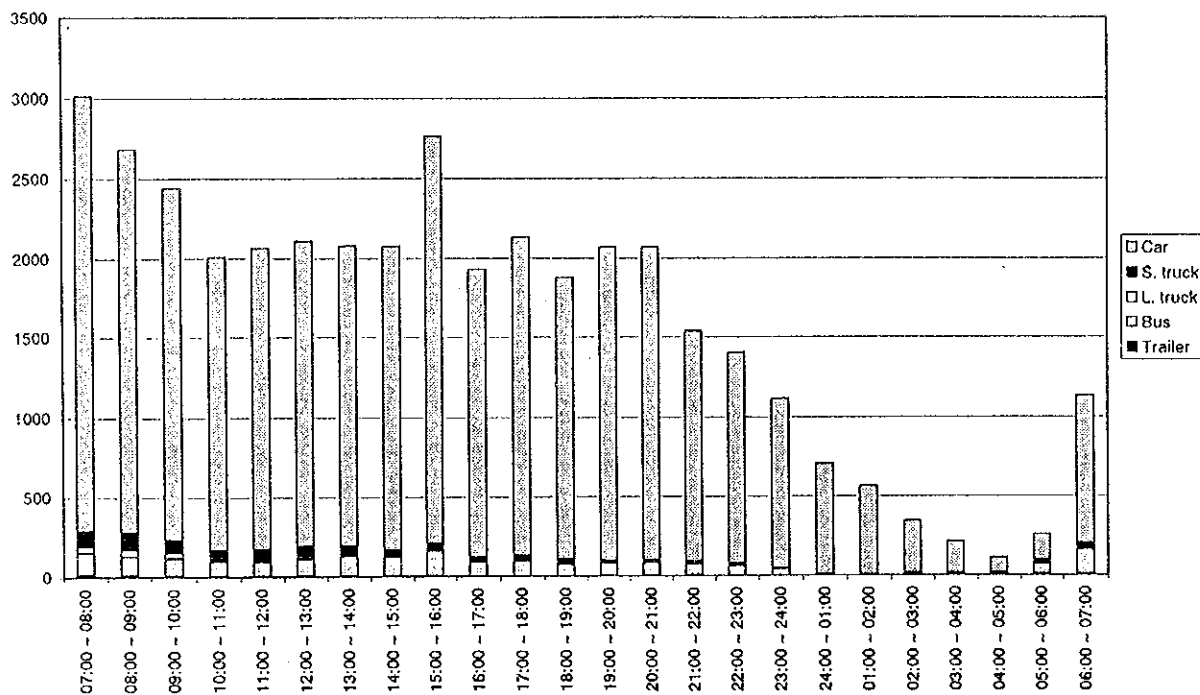


Figure D4.27(19) Hourly Traffic Volume by Vehicle Type - Measuring Point 10 (22/23.04.1998 - weekday)

Table D4.52(19) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 10 (22/23.04.1998 - weekday)

time	No. 10 a						No. 10 b						No. 10 c						No. 10 d						Total for No. 10					
	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total
07:00 ~ 08:00	1064	63	37	60	9	1233	119	7	0	27	0	153	815	9	0	44	0	868	723	23	0	12	0	758	2721	102	37	143	9	3012
08:00 ~ 09:00	989	55	33	51	7	1135	157	4	5	21	0	187	573	13	0	37	1	624	691	32	4	11	0	738	2410	104	42	120	8	2684
09:00 ~ 10:00	983	52	29	53	4	1121	141	4	4	17	1	167	528	7	0	32	0	567	559	13	3	8	0	583	2216	76	36	110	5	2438
10:00 ~ 11:00	631	20	7	32	1	691	161	3	3	21	0	188	547	15	0	32	0	594	507	17	1	9	0	534	1846	55	11	94	1	2007
11:00 ~ 12:00	623	20	8	27	0	678	185	11	3	23	1	223	556	11	3	31	0	601	529	21	3	9	0	562	1893	63	17	90	1	2064
12:00 ~ 13:00	656	24	11	31	3	725	149	4	4	23	1	181	564	11	1	40	0	616	549	20	3	13	0	585	1918	59	19	107	4	2107
13:00 ~ 14:00	651	15	11	48	3	728	183	8	4	25	0	220	512	9	0	41	0	562	541	13	1	11	0	566	1887	45	16	125	3	2076
14:00 ~ 15:00	739	12	5	37	1	794	247	1	0	24	3	275	412	7	1	47	0	467	513	9	4	12	1	539	1911	29	10	120	5	2075
15:00 ~ 16:00	1124	8	4	65	1	1202	369	3	4	27	3	406	569	13	0	49	0	631	495	11	3	15	0	574	2557	35	11	156	4	2763
16:00 ~ 17:00	673	5	3	28	0	709	211	1	0	15	0	227	457	4	0	33	0	494	472	13	3	12	0	500	1813	23	6	88	0	1930
17:00 ~ 18:00	691	7	8	39	0	745	200	1	1	16	0	218	632	5	0	31	0	668	483	11	1	8	0	503	2006	24	10	94	0	2134
18:00 ~ 19:00	608	5	0	25	0	638	164	3	1	12	0	180	563	4	0	32	0	599	444	9	3	5	0	461	1779	21	4	74	0	1878
19:00 ~ 20:00	715	4	3	33	1	756	224	0	0	12	1	237	563	4	1	25	1	599	472	1	0	4	0	477	1976	9	4	77	3	2069
20:00 ~ 21:00	752	4	0	36	1	793	237	0	0	11	0	248	545	4	0	25	0	574	441	3	1	7	1	453	1975	11	1	79	2	2068
21:00 ~ 22:00	484	3	1	23	0	511	183	1	0	8	0	192	500	8	0	33	0	541	281	1	1	8	1	292	1448	13	2	72	1	1536
22:00 ~ 23:00	485	4	0	28	0	517	161	1	0	8	0	170	441	3	1	20	0	465	244	1	0	7	0	252	1331	9	1	63	0	1404
23:00 ~ 24:00	391	1	0	21	0	413	135	0	0	5	0	140	312	1	1	7	0	321	229	1	1	7	0	238	1067	3	2	40	0	1112
24:00 ~ 01:00	313	1	1	1	0	316	95	0	0	0	0	95	172	0	1	1	0	174	119	1	0	1	0	121	699	2	2	3	0	706
01:00 ~ 02:00	241	0	0	1	0	242	64	0	0	0	0	64	185	0	0	1	0	186	73	0	0	0	0	73	563	0	0	2	0	563
02:00 ~ 03:00	147	0	3	3	0	153	51	0	0	0	0	51	75	0	4	1	0	80	60	0	0	0	1	61	333	0	7	4	1	345
03:00 ~ 04:00	84	0	0	3	0	87	23	0	0	0	0	23	68	3	0	0	0	71	29	1	0	1	1	32	204	4	0	4	1	213
04:00 ~ 05:00	35	1	0	4	0	40	17	0	0	1	0	18	23	0	0	0	4	27	23	1	0	0	0	24	98	2	0	5	4	109
05:00 ~ 06:00	43	0	1	15	1	60	21	0	0	9	0	30	48	7	0	28	0	83	53	12	1	13	4	83	165	19	2	65	5	256
06:00 ~ 07:00	203	7	3	45	4	262	52	3	0	24	0	79	323	8	0	65	0	396	360	9	3	23	0	395	938	27	6	157	4	1132
Total	13325	311	168	709	36	14549	3549	55	29	329	10	3922	9985	146	13	658	6	10908	8890	223	36	196	9	9354	33749	735	146	1892	61	36683

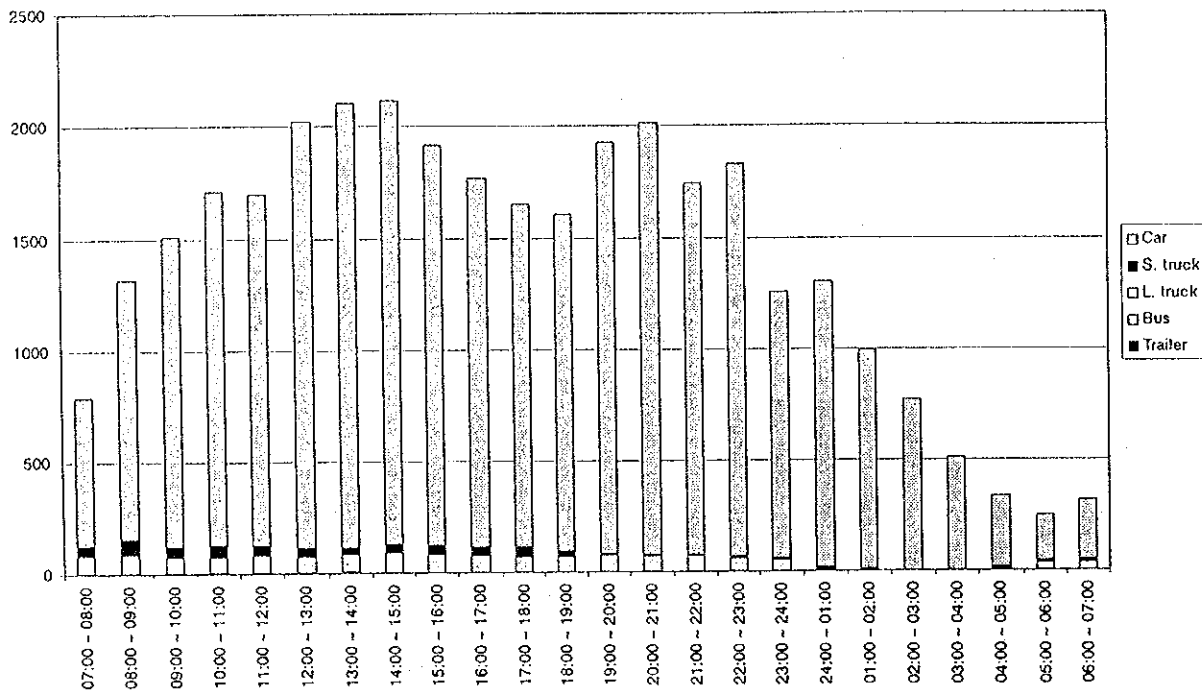


Figure D4.27(20) Hourly Traffic Volume by Vehicle Type - Measuring Point 10 (25/25.04.1998 - holiday)

Table D4.52(20) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 10 (25/26.04.1998 - holiday)

time	No. 10 a						No. 10 b						No. 10 c						No. 10 d						Total for No. 10					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 ~ 08:00	213	11	3	33	0	260	53	5	0	12	0	70	193	8	0	28	0	229	212	12	1	7	0	232	671	36	4	80	0	791
08:00 ~ 09:00	403	16	9	37	0	465	69	5	0	13	0	87	343	12	0	37	0	382	360	20	0	7	0	387	1175	53	9	84	0	1321
09:00 ~ 10:00	528	15	3	27	0	573	135	7	1	11	0	154	396	9	0	27	0	432	336	7	3	7	0	353	1395	38	7	72	0	1512
10:00 ~ 11:00	576	13	5	28	0	622	212	3	1	12	0	228	413	9	0	25	0	447	391	13	1	8	0	413	1592	38	7	73	0	1710
11:00 ~ 12:00	567	8	7	27	0	609	189	5	1	16	0	211	424	8	0	28	0	460	401	11	0	9	0	421	1581	32	8	80	0	1701
12:00 ~ 13:00	741	11	3	25	1	781	225	3	1	15	0	244	496	7	0	27	0	530	453	7	1	8	0	469	1915	28	5	75	1	2021
13:00 ~ 14:00	716	5	5	27	4	757	261	4	0	16	1	282	535	4	0	28	0	567	483	9	0	7	1	500	1995	22	5	78	6	2106
14:00 ~ 15:00	757	12	3	33	0	805	235	1	0	20	0	256	531	7	0	28	0	566	468	12	0	9	0	489	1991	32	3	90	0	2116
15:00 ~ 16:00	676	12	0	31	1	720	231	3	0	13	0	247	456	8	0	27	0	491	433	15	1	8	0	457	1796	38	1	79	1	1915
16:00 ~ 17:00	589	13	4	31	0	637	175	3	0	11	0	189	501	5	0	25	0	534	392	7	3	7	0	409	1660	28	7	74	0	1769
17:00 ~ 18:00	509	5	5	24	0	543	185	4	1	11	0	201	472	7	0	27	1	507	380	11	4	7	0	402	1546	27	10	69	1	1653
18:00 ~ 19:00	567	3	4	24	0	598	149	1	0	11	0	161	437	4	0	25	0	466	365	9	3	7	0	384	1518	17	7	67	0	1609
19:00 ~ 20:00	584	3	3	31	0	621	232	0	1	9	0	242	575	0	0	25	0	600	457	1	1	8	0	467	1848	4	5	73	0	1930
20:00 ~ 21:00	568	4	0	24	0	596	236	0	0	11	0	247	668	0	0	28	0	696	467	1	0	7	0	475	1939	5	0	70	0	2014
21:00 ~ 22:00	539	1	0	25	0	555	176	3	0	14	0	190	492	1	0	27	0	520	472	1	0	7	0	480	1669	6	0	70	0	1745
22:00 ~ 23:00	603	0	0	24	0	627	183	1	0	9	0	193	579	4	0	21	0	604	399	0	0	5	0	404	1764	5	0	59	0	1828
23:00 ~ 24:00	416	0	0	28	0	444	160	0	0	5	0	165	492	1	0	12	0	505	140	1	0	5	0	146	1208	2	0	50	0	1260
24:00 ~ 01:00	468	1	0	4	0	473	147	1	0	0	0	148	431	0	0	3	0	434	243	1	0	3	0	247	1289	3	0	10	0	1302
01:00 ~ 02:00	447	4	0	1	0	452	91	0	0	0	0	91	369	0	0	1	0	270	180	0	0	0	0	180	987	4	0	2	0	993
02:00 ~ 03:00	345	0	0	1	0	346	93	0	0	0	0	93	225	0	0	1	0	226	109	0	0	0	0	109	772	0	0	2	0	774
03:00 ~ 04:00	208	0	1	0	0	209	64	0	0	0	0	64	139	0	0	0	0	139	97	0	0	0	0	97	508	0	1	0	0	509
04:00 ~ 05:00	135	1	0	4	0	140	45	0	0	1	0	46	77	1	0	3	0	81	60	0	0	3	0	63	317	2	0	11	0	330
05:00 ~ 06:00	101	0	0	8	0	109	16	0	0	4	0	20	30	3	0	11	0	54	47	5	0	11	0	63	201	8	0	34	0	246
06:00 ~ 07:00	88	4	0	16	0	108	28	1	0	4	0	33	76	3	0	7	0	86	76	7	1	5	0	89	268	15	1	32	0	316
Total	11334	142	55	513	6	12050	3590	50	6	215	1	3862	9263	101	0	461	1	9826	7421	150	19	145	1	7736	31608	443	80	1334	9	31474

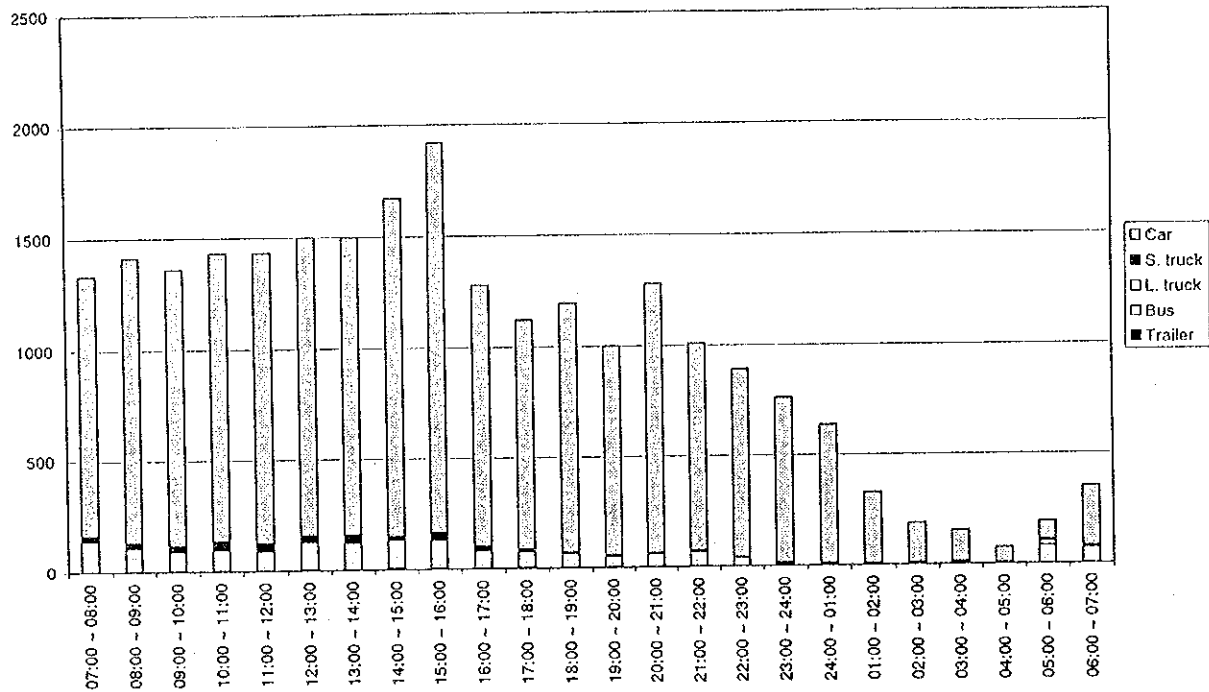


Figure D4.27(21) Hourly Traffic Volume by Vehicle Type - Measuring Point 11 (22/23.04.1998 - weekday)

Table D4.52(21) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 11 (22/23.04.1998 - weekday)

time	No. 11 a						No. 11 b						Total for No. 11					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	853	12	0	53	0	918	320	7	0	87	0	414	1173	19	0	140	0	1332
08:00 - 09:00	740	9	1	41	0	791	544	12	0	65	0	621	1284	21	1	106	0	1412
09:00 - 10:00	689	12	1	35	0	737	559	9	3	52	1	624	1248	21	4	87	1	1361
10:00 - 11:00	673	15	0	39	1	728	627	20	1	55	0	703	1300	35	1	94	1	1431
11:00 - 12:00	700	12	1	40	0	753	611	15	5	48	0	679	1311	27	6	88	0	1432
12:00 - 13:00	592	17	5	57	4	675	753	3	1	67	0	824	1345	20	6	124	4	1499
13:00 - 14:00	631	12	4	53	0	700	711	16	1	69	0	797	1342	28	5	122	0	1497
14:00 - 15:00	653	4	1	44	3	705	871	5	3	87	0	966	1524	9	4	131	3	1671
15:00 - 16:00	573	12	3	28	1	617	1184	13	4	100	1	1302	1757	25	7	128	2	1919
16:00 - 17:00	447	8	0	25	0	480	733	11	0	56	0	800	1180	19	0	81	0	1280
17:00 - 18:00	527	5	3	37	1	573	509	3	0	37	0	549	1036	8	3	74	1	1122
18:00 - 19:00	560	4	0	32	0	596	567	1	0	31	0	599	1127	5	0	63	0	1195
19:00 - 20:00	493	3	1	31	0	528	453	1	0	19	0	473	946	4	1	50	0	1001
20:00 - 21:00	627	0	0	33	0	660	593	4	0	25	0	622	1220	4	0	58	0	1282
21:00 - 22:00	413	1	0	35	1	450	524	3	0	32	0	559	937	4	0	67	1	1009
22:00 - 23:00	400	1	0	20	0	421	451	1	0	19	0	471	851	2	0	39	0	892
23:00 - 24:00	373	1	0	1	0	375	376	1	0	9	1	387	749	2	0	10	1	762
24:00 - 01:00	347	3	0	1	0	351	283	1	0	1	0	285	630	4	0	2	0	636
01:00 - 02:00	173	1	0	1	0	175	152	0	0	1	0	153	325	1	0	2	0	328
02:00 - 03:00	93	1	0	1	0	95	89	3	1	1	0	94	182	4	1	2	0	189
03:00 - 04:00	67	1	0	4	0	72	79	3	0	0	0	82	146	4	0	4	0	154
04:00 - 05:00	27	0	0	0	0	27	43	0	0	4	0	47	70	0	0	4	0	74
05:00 - 06:00	31	1	20	53	0	105	53	7	0	27	0	87	84	8	20	80	0	192
06:00 - 07:00	80	1	1	0	0	82	197	3	0	71	0	271	277	4	1	71	0	353
Total	10762	136	41	664	11	11614	11282	142	19	963	3	12409	22044	278	60	1627	14	24023

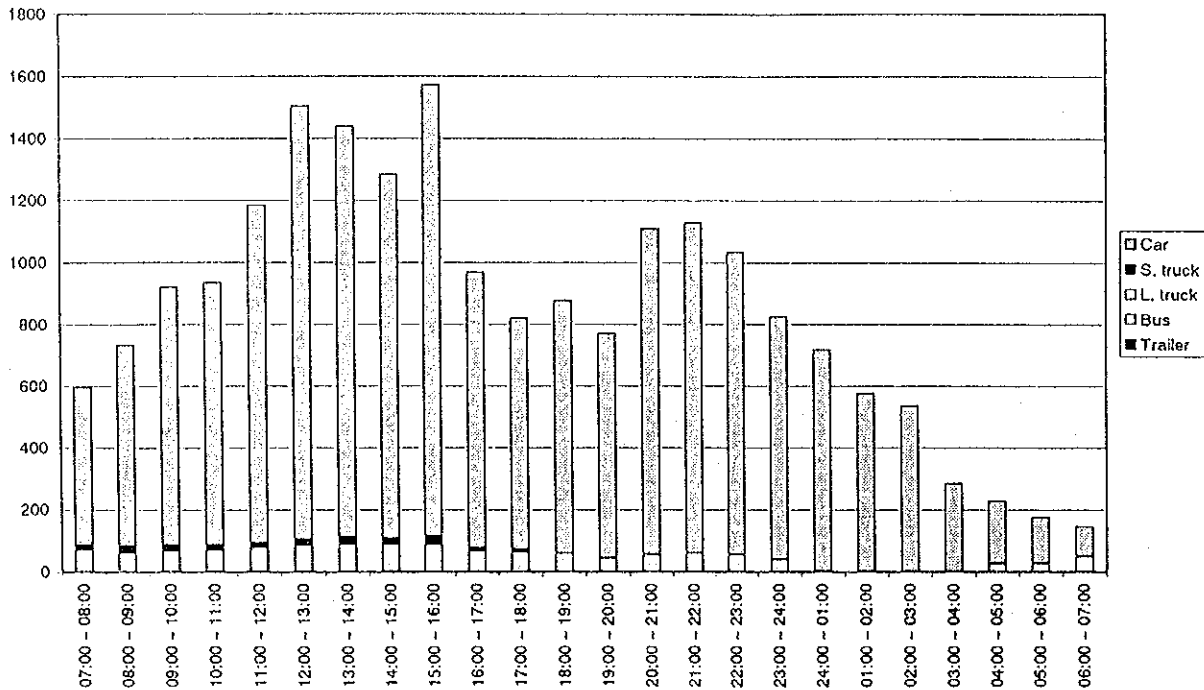


Figure D4.27(22) Hourly Traffic Volume by Vehicle Type - Measuring Point 11 (25/25.04.1998 - holiday)

Table D4.52(22) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 11 (25/26.04.1998 - holiday)

time																		
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	240	5	0	31	0	276	269	4	4	41	0	318	509	9	4	72	0	594
08:00 - 09:00	347	13	1	29	0	390	305	5	1	33	0	344	652	18	2	62	0	734
09:00 - 10:00	373	11	0	29	0	413	460	7	0	40	0	507	833	18	0	69	0	920
10:00 - 11:00	427	9	0	31	0	467	421	7	0	40	0	468	848	16	0	71	0	935
11:00 - 12:00	547	11	1	29	0	588	543	1	1	51	0	596	1090	12	2	80	0	1184
12:00 - 13:00	667	7	0	27	0	701	733	8	3	59	0	803	1400	15	3	86	0	1504
13:00 - 14:00	613	5	0	27	0	645	715	13	3	63	0	794	1328	18	3	90	0	1439
14:00 - 15:00	413	5	1	33	0	452	765	11	0	56	1	833	1178	16	1	89	1	1285
15:00 - 16:00	520	7	0	24	0	551	935	16	4	65	0	1020	1455	23	4	89	0	1571
16:00 - 17:00	373	3	0	29	0	405	519	4	1	40	0	564	892	7	1	69	0	969
17:00 - 18:00	347	4	1	27	0	379	400	3	0	37	0	440	747	7	1	64	0	819
18:00 - 19:00	427	0	0	25	0	452	388	1	0	35	0	424	815	1	0	60	0	876
19:00 - 20:00	340	0	0	31	0	371	387	0	0	13	0	400	727	0	0	44	0	771
20:00 - 21:00	491	1	0	33	0	525	560	0	0	24	0	584	1051	1	0	57	0	1109
21:00 - 22:00	512	1	0	37	0	550	553	0	0	24	0	577	1065	1	0	61	0	1127
22:00 - 23:00	457	0	0	36	0	493	520	0	0	20	0	540	977	0	0	56	0	1033
23:00 - 24:00	417	0	0	33	0	450	367	0	0	8	0	375	784	0	0	41	0	825
24:00 - 01:00	400	0	0	3	0	403	313	0	0	1	0	314	713	0	0	4	0	717
01:00 - 02:00	307	0	0	0	0	307	267	0	0	1	0	268	574	0	0	1	0	575
02:00 - 03:00	260	0	0	1	0	261	273	0	0	0	0	273	533	0	0	1	0	534
03:00 - 04:00	157	0	0	1	0	158	127	0	0	0	0	127	284	0	0	1	0	285
04:00 - 05:00	100	0	0	1	0	101	100	0	0	27	0	127	200	0	0	28	0	228
05:00 - 06:00	79	1	0	11	0	91	67	1	0	16	0	84	146	2	0	27	0	175
06:00 - 07:00	43	0	0	17	0	60	53	0	0	33	0	86	96	0	0	50	0	146
Total	8857	83	4	545	0	9489	10040	81	17	727	1	10866	18897	164	21	1272	1	20355

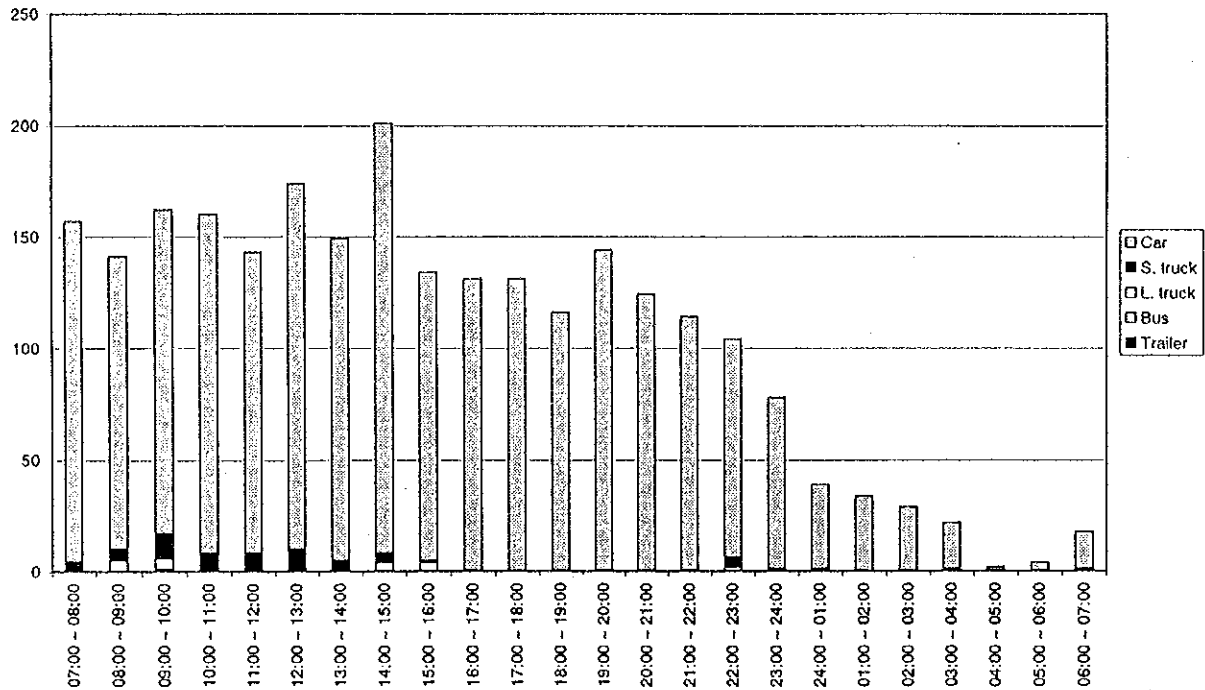


Figure D4.27(23) Hourly Traffic Volume by Vehicle Type - Measuring Point 12 (22/23.04.1998 - weekday)

Table D4.52(23) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 12 (22/23.04.1998 - weekday)

time	No. 12 a						No. 12 b						Total for No. 12					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	80	1	1	0	0	82	73	1	0	1	0	75	153	2	1	1	0	157
08:00 - 09:00	59	5	4	0	0	68	72	0	1	0	0	73	131	5	5	0	0	141
09:00 - 10:00	77	7	0	0	0	84	68	4	5	0	1	78	145	11	5	0	1	162
10:00 - 11:00	83	3	1	0	2	89	69	1	0	1	0	71	152	4	1	1	2	160
11:00 - 12:00	72	4	1	0	0	77	63	3	0	0	0	66	135	7	1	0	0	143
12:00 - 13:00	93	1	0	0	0	94	71	8	0	0	1	80	164	9	0	0	1	174
13:00 - 14:00	91	3	0	1	0	95	53	1	0	0	0	54	144	4	0	1	0	149
14:00 - 15:00	101	3	1	0	0	105	92	1	3	0	0	96	193	4	4	0	0	201
15:00 - 16:00	61	1	3	0	0	65	68	0	1	0	0	69	129	1	4	0	0	134
16:00 - 17:00	68	0	0	0	0	68	63	0	0	0	0	63	131	0	0	0	0	131
17:00 - 18:00	64	0	0	0	0	64	67	0	0	0	0	67	131	0	0	0	0	131
18:00 - 19:00	52	0	0	0	0	52	64	0	0	0	0	64	116	0	0	0	0	116
19:00 - 20:00	76	0	0	0	0	76	68	0	0	0	0	68	144	0	0	0	0	144
20:00 - 21:00	59	0	0	0	0	59	65	0	0	0	0	65	124	0	0	0	0	124
21:00 - 22:00	71	0	0	0	0	71	43	0	0	0	0	43	114	0	0	0	0	114
22:00 - 23:00	51	3	1	0	0	55	47	1	1	0	0	49	98	4	2	0	0	104
23:00 - 24:00	41	0	0	0	0	41	36	1	0	0	0	37	77	1	0	0	0	78
24:00 - 01:00	17	1	0	0	0	18	21	0	0	0	0	21	38	1	0	0	0	39
01:00 - 02:00	21	0	0	0	0	21	13	0	0	0	0	13	34	0	0	0	0	34
02:00 - 03:00	17	0	0	0	0	17	12	0	0	0	0	12	29	0	0	0	0	29
03:00 - 04:00	13	1	0	0	0	14	8	0	0	0	0	8	21	1	0	0	0	22
04:00 - 05:00	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0	0	0	2
05:00 - 06:00	3	0	0	0	0	3	1	0	0	0	0	1	4	0	0	0	0	4
06:00 - 07:00	12	1	0	0	0	13	5	0	0	0	0	5	17	1	0	0	0	18
Total	1283	34	12	1	2	1332	1143	21	11	2	2	1179	2426	55	23	3	4	2511

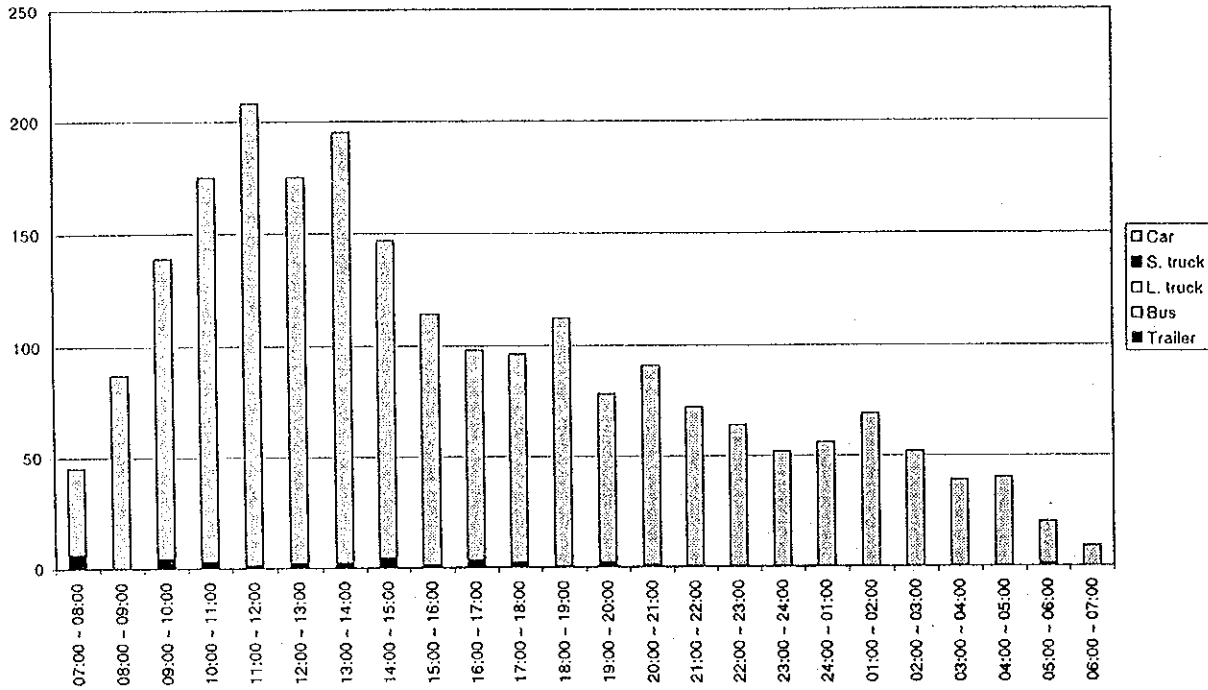


Figure D4.27(24) Hourly Traffic Volume by Vehicle Type - Measuring Point 12 (25/25.04.1998 - holiday)

Table D4.52(24) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 12 (25/26.04.1998 - holiday)

time	No. 12 a						No. 12 b						Total for No. 12					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	15	3	0	0	0	18	24	3	0	0	0	27	39	6	0	0	0	45
08:00 - 09:00	35	0	0	0	0	35	52	0	0	0	0	52	87	0	0	0	0	87
09:00 - 10:00	60	3	0	0	0	63	75	1	0	0	0	76	135	4	0	0	0	139
10:00 - 11:00	67	1	1	0	1	70	105	0	0	0	0	105	172	1	1	0	1	175
11:00 - 12:00	96	0	0	0	0	96	111	0	1	0	0	112	207	0	1	0	0	208
12:00 - 13:00	77	1	1	0	0	79	96	0	0	0	0	96	173	1	1	0	0	175
13:00 - 14:00	80	1	0	0	0	81	113	1	0	0	0	114	193	2	0	0	0	195
14:00 - 15:00	67	3	0	0	0	70	76	0	1	0	0	77	143	3	1	0	0	147
15:00 - 16:00	53	0	0	0	0	53	60	1	0	0	0	61	113	1	0	0	0	114
16:00 - 17:00	52	3	0	0	0	55	43	0	0	0	0	43	95	3	0	0	0	98
17:00 - 18:00	47	1	0	0	0	48	47	1	0	0	0	48	94	2	0	0	0	96
18:00 - 19:00	55	0	0	0	0	55	57	0	0	0	0	57	112	0	0	0	0	112
19:00 - 20:00	40	1	0	0	0	41	36	1	0	0	0	37	76	2	0	0	0	78
20:00 - 21:00	37	0	0	1	0	38	53	0	0	0	0	53	90	0	0	1	0	91
21:00 - 22:00	32	0	0	0	0	32	40	0	0	0	0	40	72	0	0	0	0	72
22:00 - 23:00	17	0	0	0	0	17	27	0	0	0	0	27	64	0	0	0	0	64
23:00 - 24:00	28	0	0	0	0	28	24	0	0	0	0	24	52	0	0	0	0	52
24:00 - 01:00	33	0	0	0	0	33	23	0	0	0	0	23	56	0	0	0	0	56
01:00 - 02:00	41	0	0	0	0	41	28	0	0	0	0	28	69	0	0	0	0	69
02:00 - 03:00	31	0	0	0	0	31	21	0	0	0	0	21	52	0	0	0	0	52
03:00 - 04:00	23	0	0	0	0	23	16	0	0	0	0	16	39	0	0	0	0	39
04:00 - 05:00	15	0	0	0	0	15	25	0	0	0	0	25	40	0	0	0	0	40
05:00 - 06:00	8	0	0	0	0	8	11	1	0	0	0	12	19	1	0	0	0	20
06:00 - 07:00	5	0	0	0	0	5	4	0	0	0	0	4	9	0	0	0	0	9
Total	1034	17	2	1	1	1055	1167	9	2	0	0	1178	2201	26	4	1	1	2233

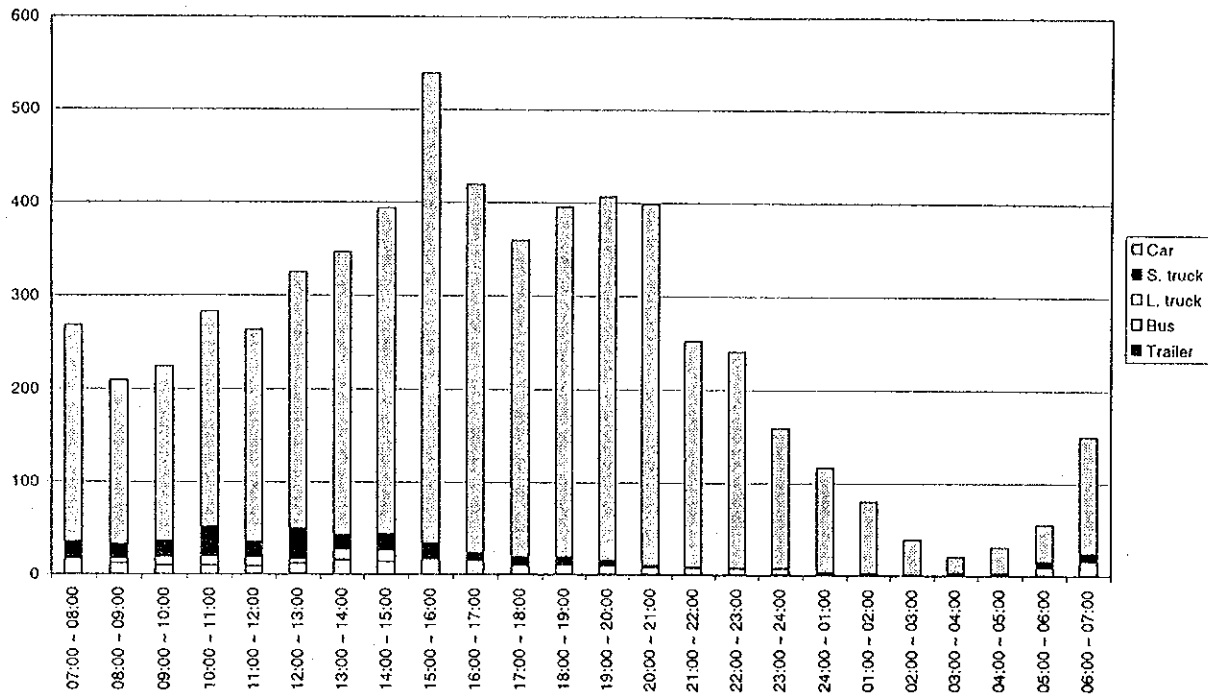


Figure D4.27(25) Hourly Traffic Volume by Vehicle Type - Measuring Point 13 (22/23.04.1998 - weekday)

Table D4.52(25) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 13 (22/23.04.1998 - weekday)

time	No. 13 a						No. 13 b						Total for No. 13					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	83	9	0	9	0	101	151	7	1	8	0	167	234	16	1	17	0	268
08:00 - 09:00	71	8	1	4	0	84	107	7	4	8	0	126	178	15	5	12	0	210
09:00 - 10:00	100	12	5	5	0	122	89	5	4	5	0	103	189	17	9	10	0	225
10:00 - 11:00	107	15	3	5	0	130	124	16	7	5	0	152	231	31	10	10	0	282
11:00 - 12:00	133	8	7	3	0	151	96	7	3	5	1	112	229	15	10	8	1	263
12:00 - 13:00	143	13	4	3	0	163	133	19	1	8	1	162	276	32	5	11	1	325
13:00 - 14:00	171	8	7	5	0	191	133	7	4	11	0	155	304	15	11	16	0	346
14:00 - 15:00	221	9	8	7	0	245	129	8	4	7	0	148	350	17	12	14	0	393
15:00 - 16:00	373	5	1	9	0	388	133	9	1	8	0	151	506	14	2	17	0	539
16:00 - 17:00	229	3	1	8	0	241	167	3	1	7	0	178	396	6	2	15	0	419
17:00 - 18:00	180	4	0	5	0	189	160	5	0	5	0	170	340	9	0	10	0	359
18:00 - 19:00	160	4	0	7	0	171	216	4	0	4	0	224	376	8	0	11	0	395
19:00 - 20:00	212	1	0	5	0	218	179	3	1	5	0	188	391	4	1	10	0	406
20:00 - 21:00	228	1	0	4	0	233	160	1	0	4	0	165	388	2	0	8	0	398
21:00 - 22:00	123	0	0	4	0	127	121	0	0	4	0	125	244	0	0	8	0	252
22:00 - 23:00	129	0	0	4	0	133	105	0	0	3	0	108	234	0	0	7	0	241
23:00 - 24:00	73	0	0	3	0	76	79	0	0	4	0	83	152	0	0	7	0	159
24:00 - 01:00	67	3	0	0	0	70	47	0	0	0	0	47	114	3	0	0	0	117
01:00 - 02:00	43	0	0	1	0	44	35	0	0	1	0	36	78	0	0	2	0	80
02:00 - 03:00	24	0	0	0	0	24	15	0	0	0	0	15	39	0	0	0	0	39
03:00 - 04:00	11	0	1	1	0	13	7	0	0	1	0	8	18	0	1	2	0	21
04:00 - 05:00	13	0	0	1	0	14	16	0	0	1	0	17	29	0	0	2	0	31
05:00 - 06:00	23	4	1	5	0	33	17	1	0	4	0	22	40	5	1	9	0	55
06:00 - 07:00	15	4	0	4	0	23	112	3	1	12	0	128	127	7	1	16	0	151
Total	2932	111	39	102	0	3184	2531	105	32	120	2	2790	5463	216	71	222	2	5974

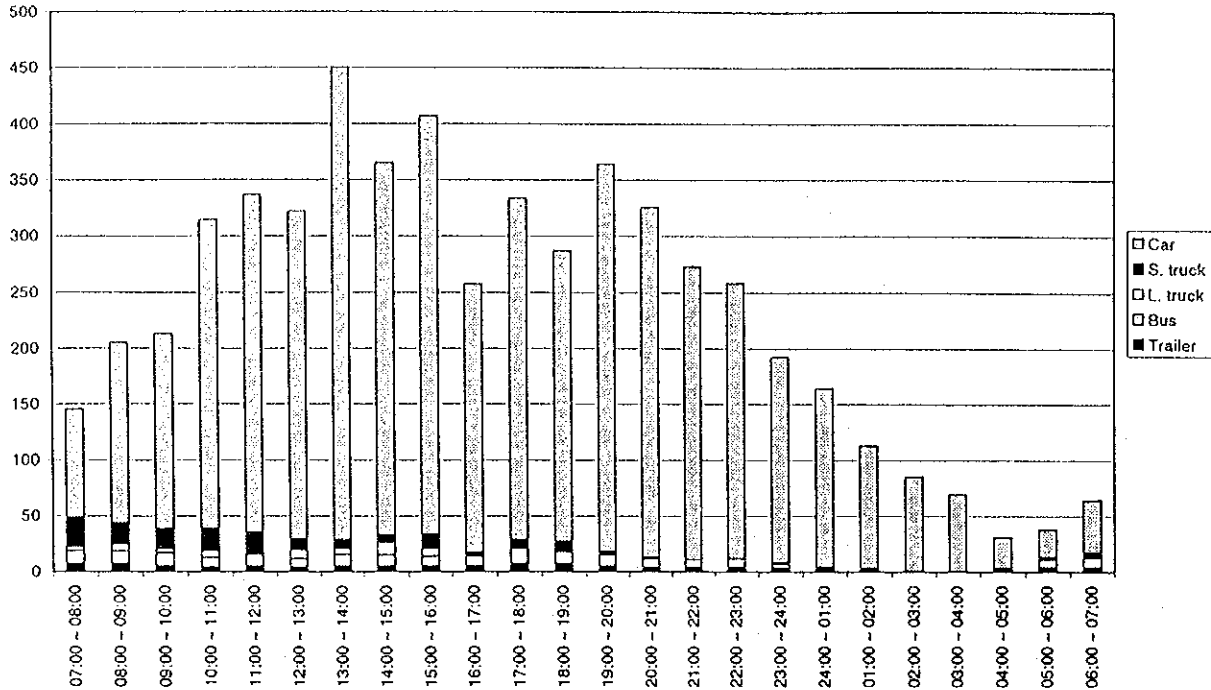


Figure D4.27(26) Hourly Traffic Volume by Vehicle Type - Measuring Point 13 (25/25.04.1998 - holiday)

Table D4.52(26) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 13 (25/26.04.1998 - holiday)

time	No. 13 a						No. 13 b						Total for No. 13					
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 ~ 08:00	40	8	1	7	7	63	57	17	3	5	0	82	97	25	4	12	7	145
08:00 ~ 09:00	67	7	3	7	7	91	95	11	3	5	0	114	162	18	6	12	7	205
09:00 ~ 10:00	79	12	1	5	5	102	96	5	3	7	0	111	175	17	4	12	5	213
10:00 ~ 11:00	136	7	3	4	4	154	141	12	3	5	0	161	277	19	6	9	4	315
11:00 ~ 12:00	131	12	1	4	4	152	171	5	1	7	1	185	302	17	2	11	5	337
12:00 ~ 13:00	160	5	4	4	4	177	133	4	4	4	0	145	293	9	8	8	4	322
13:00 ~ 14:00	229	4	5	5	5	248	193	3	1	5	0	202	422	7	6	10	5	450
14:00 ~ 15:00	200	3	7	5	5	220	133	3	4	5	0	145	333	6	11	10	5	365
15:00 ~ 16:00	227	7	4	5	5	248	147	5	3	4	0	159	374	12	7	9	5	407
16:00 ~ 17:00	120	1	1	5	5	132	120	1	0	4	0	125	240	2	1	9	5	257
17:00 ~ 18:00	135	3	0	7	7	172	151	4	0	7	0	162	306	7	0	14	7	334
18:00 ~ 19:00	133	5	0	7	7	152	127	4	0	4	0	135	260	9	0	11	7	287
19:00 ~ 20:00	187	1	0	5	5	198	159	1	1	5	0	166	346	2	1	10	5	364
20:00 ~ 21:00	161	0	0	4	4	169	152	1	0	4	0	157	313	1	0	8	4	326
21:00 ~ 22:00	117	0	0	4	4	125	145	0	0	3	0	148	262	0	0	7	4	273
22:00 ~ 23:00	127	0	0	4	4	135	119	0	0	4	0	123	246	0	0	8	4	258
23:00 ~ 24:00	95	1	0	3	3	102	89	0	0	1	0	90	184	1	0	4	3	192
24:00 ~ 01:00	92	1	0	1	1	95	68	0	0	1	0	69	160	1	0	2	1	164
01:00 ~ 02:00	59	0	0	1	1	61	51	0	0	1	0	52	110	0	0	2	1	113
02:00 ~ 03:00	56	0	0	0	0	56	29	0	0	0	0	29	85	0	0	0	0	85
03:00 ~ 04:00	45	0	0	0	0	45	24	0	0	0	0	24	69	0	0	0	0	69
04:00 ~ 05:00	15	0	0	1	1	17	13	0	0	1	0	14	28	0	0	2	1	31
05:00 ~ 06:00	12	1	0	4	4	21	13	1	0	3	0	17	25	2	0	7	4	38
06:00 ~ 07:00	15	1	0	4	4	24	32	3	0	5	0	40	47	4	0	9	4	64
Total	2658	79	30	96	96	2959	2458	80	26	90	1	2655	5116	159	56	186	97	5614

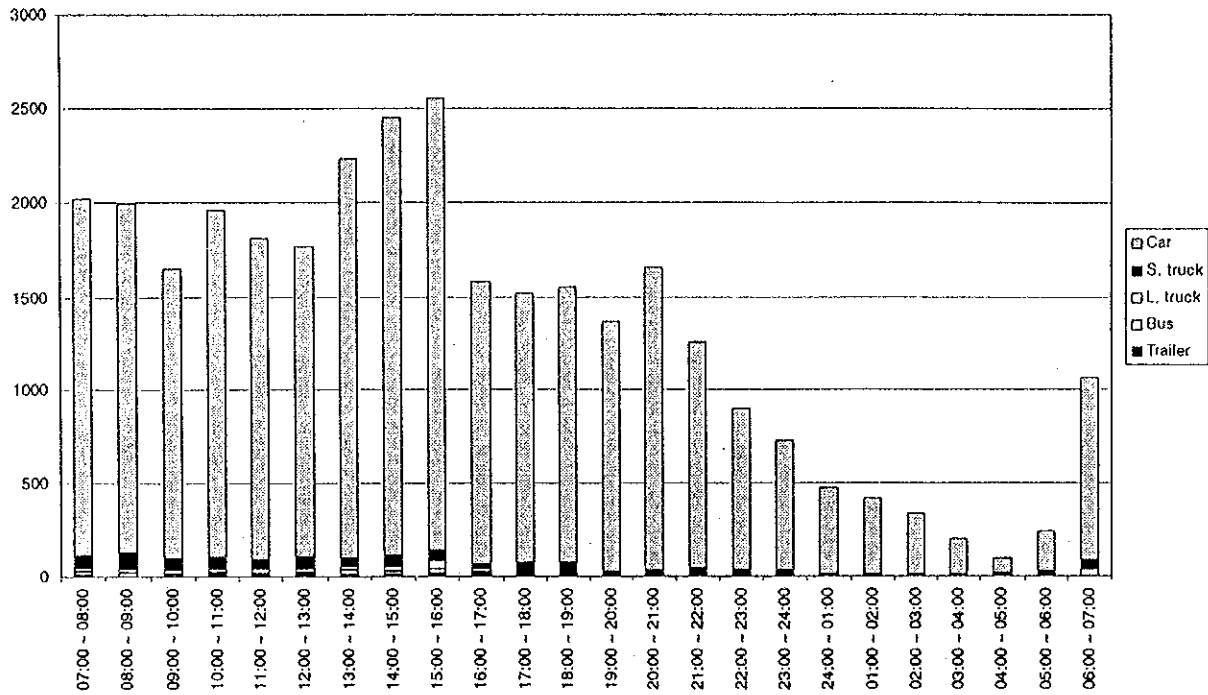


Figure D4.27(27) Hourly Traffic Volume by Vehicle Type - Measuring Point 14 (22/23.04.1998 - weekday)

Table D4.52(27) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 14 (22/23.04.1998 - weekday)

time	No. 14 a						No. 14 b						No. 14 c						No. 14 d						Total for No. 14					
	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total	car	s. l.	l. l.	bus	trailer	total
07:00 ~ 08:00	551	15	7	9	5	589	437	7	5	1	0	450	488	29	3	11	1	532	431	12	4	1	0	448	1909	63	19	22	6	2019
08:00 ~ 09:00	449	32	3	7	1	492	504	8	8	0	0	520	476	29	5	9	1	520	441	9	8	1	0	459	1870	78	24	17	2	1991
09:00 ~ 10:00	403	16	4	5	0	428	419	15	3	0	0	437	375	23	8	5	1	412	356	9	5	0	0	370	1553	63	20	10	1	1647
10:00 ~ 11:00	520	15	4	4	3	546	400	8	7	0	0	415	527	27	5	11	1	571	407	12	3	0	0	422	1834	62	19	15	4	1954
11:00 ~ 12:00	440	19	4	4	0	467	408	9	7	1	0	425	467	15	5	4	0	491	405	7	11	1	1	425	1720	50	27	10	1	1808
12:00 ~ 13:00	410	35	5	9	3	482	427	8	4	1	0	440	387	19	8	5	3	422	404	11	3	0	1	419	1658	63	20	15	7	1763
13:00 ~ 14:00	547	15	5	13	5	585	513	5	4	0	0	522	545	11	7	11	5	579	529	8	5	1	0	543	2134	39	21	25	10	2229
14:00 ~ 15:00	600	17	7	7	3	634	624	11	7	0	0	642	580	17	12	8	7	624	537	8	3	0	0	548	2341	53	29	15	10	2448
15:00 ~ 16:00	689	21	11	12	5	738	527	8	4	1	0	540	683	20	17	13	11	744	520	7	8	0	0	535	2419	56	40	26	16	2557
16:00 ~ 17:00	420	9	4	9	1	443	328	1	3	3	0	335	392	12	8	5	3	420	379	1	3	1	0	384	1519	23	18	18	4	1582
17:00 ~ 18:00	364	5	0	3	7	379	383	1	0	0	0	384	345	16	7	7	9	384	361	4	5	1	1	372	1453	26	12	11	17	1519
18:00 ~ 19:00	516	15	5	8	4	548	341	3	4	1	0	349	280	9	3	5	7	304	345	4	1	0	0	350	1482	31	13	14	11	1551
19:00 ~ 20:00	413	4	0	4	1	422	387	0	0	1	0	388	240	4	1	3	0	248	308	1	0	0	0	309	1348	9	1	8	1	1367
20:00 ~ 21:00	453	4	3	7	1	468	360	3	0	0	0	363	433	4	0	4	1	442	376	3	0	0	0	379	1622	14	3	11	2	1652
21:00 ~ 22:00	373	12	4	4	0	393	192	0	0	0	0	192	427	7	3	3	1	441	219	3	0	1	4	227	1211	22	7	8	5	1253
22:00 ~ 23:00	251	5	0	4	3	263	163	1	0	0	0	164	307	4	0	7	0	318	153	1	0	1	0	155	874	11	0	12	3	900
23:00 ~ 24:00	185	3	0	3	1	192	125	1	0	1	0	127	253	1	4	7	0	265	137	1	1	3	0	142	700	6	5	14	1	726
24:00 ~ 01:00	101	1	0	1	0	103	95	0	1	1	0	97	147	1	0	0	0	148	120	3	0	0	0	123	463	5	1	2	0	471
01:00 ~ 02:00	96	1	0	0	0	97	83	0	0	0	0	83	152	3	0	0	0	155	85	1	0	0	1	87	416	5	0	0	1	422
02:00 ~ 03:00	77	1	0	0	1	79	68	1	1	0	0	70	113	0	0	1	0	114	72	1	0	0	0	73	330	3	1	1	1	336
03:00 ~ 04:00	51	1	0	1	1	54	37	1	0	1	0	39	73	4	0	0	0	77	32	0	0	0	0	32	193	6	0	2	1	202
04:00 ~ 05:00	13	4	0	3	0	20	15	3	0	1	1	20	43	1	0	1	1	46	9	1	0	0	0	10	80	9	0	5	2	96
05:00 ~ 06:00	57	4	0	4	0	65	65	4	0	1	0	70	53	5	0	3	1	62	41	1	0	1	0	43	216	14	0	9	1	240
06:00 ~ 07:00	339	13	3	21	0	376	191	11	3	1	0	206	293	8	1	7	1	310	160	8	1	3	1	173	983	40	8	32	2	1065
Total	8350	257	69	142	45	8663	7092	109	61	15	1	7278	8079	289	97	130	54	8629	6827	116	61	15	9	7028	30348	751	288	302	109	31798

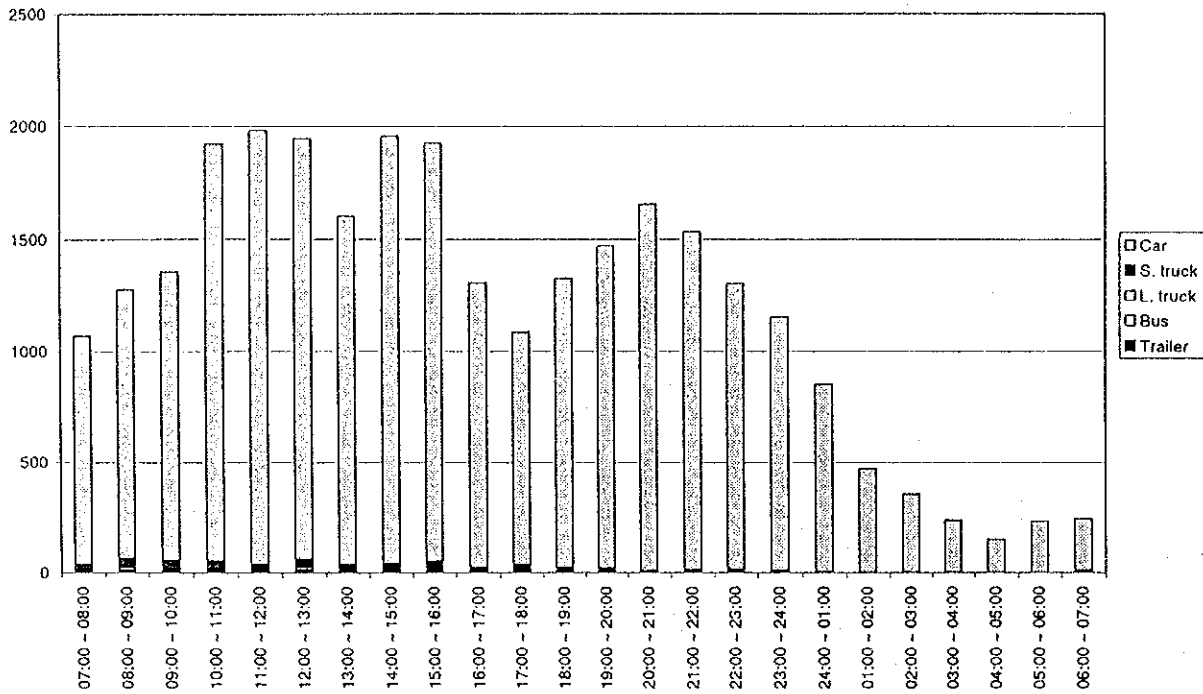


Figure D4.27(28) Hourly Traffic Volume by Vehicle Type - Measuring Point 14 (25/25.04.1998 - holiday)

Table D4.52(28) Hourly Traffic Volume by Direction and Vehicle Type - Measuring Point 14 (25/26.04.1998 - holiday)

time	No. 14 a					No. 14 b					No. 14 c					No. 14 d					Total for No. 14									
	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total	car	s. t.	l. t.	bus	trailer	total
07:00 - 08:00	289	7	0	1	0	297	45	8	0	1	0	54	312	0	4	3	0	319	387	7	3	1	0	398	1033	22	7	6	0	1068
08:00 - 09:00	316	5	5	5	0	331	109	13	0	1	0	123	464	11	7	5	0	487	427	5	4	0	0	436	1216	34	16	11	0	1277
09:00 - 10:00	368	15	0	7	0	390	151	11	0	0	0	162	447	8	4	3	0	462	333	5	1	0	0	339	1299	39	5	10	0	1353
10:00 - 11:00	653	12	4	3	1	673	289	8	1	0	0	298	536	9	1	3	1	550	393	7	1	0	0	401	1871	36	7	6	2	1922
11:00 - 12:00	577	4	3	3	0	587	287	5	1	0	1	294	708	4	1	5	0	718	373	4	4	1	0	382	1945	17	9	9	1	1981
12:00 - 13:00	600	5	7	3	0	615	263	13	0	0	0	276	643	7	1	5	1	660	360	8	1	0	0	389	1886	33	12	10	4	1945
13:00 - 14:00	672	0	1	1	3	677	209	9	0	0	1	219	260	3	5	4	1	273	427	5	0	0	0	432	1568	17	6	5	5	1601
14:00 - 15:00	640	1	0	3	0	644	331	16	0	0	0	347	437	8	0	5	1	451	507	5	1	1	0	514	1913	30	1	9	1	1956
15:00 - 16:00	600	3	5	7	3	618	316	8	0	0	0	324	431	8	3	5	1	448	527	4	5	0	0	534	1874	23	11	12	4	1924
16:00 - 17:00	333	4	0	3	0	340	217	3	0	0	0	220	357	4	1	3	1	366	379	1	0	0	0	380	1286	12	1	6	1	1306
17:00 - 18:00	380	4	3	4	0	391	104	3	0	0	0	107	309	5	1	3	3	321	360	4	0	1	0	365	1053	16	4	8	3	1084
18:00 - 19:00	352	1	1	3	0	357	243	1	0	0	0	244	364	4	0	4	1	373	347	4	0	1	0	352	1306	10	1	8	1	1326
19:00 - 20:00	337	1	0	1	0	339	297	5	0	0	0	302	407	4	0	3	1	415	413	3	0	0	0	416	1454	13	0	4	1	1472
20:00 - 21:00	371	1	1	1	0	374	339	3	0	0	0	242	620	0	0	0	0	620	417	1	0	0	0	418	1647	5	1	1	0	1654
21:00 - 22:00	327	3	0	1	0	331	140	4	0	0	0	144	629	3	0	0	0	632	427	0	0	0	0	427	1523	10	0	1	0	1534
22:00 - 23:00	283	1	1	3	0	288	156	3	1	0	0	160	600	0	0	0	0	600	253	3	0	1	0	257	1292	7	2	4	0	1305
23:00 - 24:00	260	1	1	0	0	262	195	0	1	0	1	197	427	3	1	0	0	431	260	0	0	1	0	261	1142	4	3	1	1	1151
24:00 - 01:00	227	1	0	1	0	229	101	0	0	0	0	101	284	0	0	0	0	284	235	0	1	1	0	237	847	1	1	2	0	851
01:00 - 02:00	191	0	0	0	0	191	56	0	0	0	0	56	97	0	0	0	0	97	127	0	0	0	0	127	471	0	0	0	0	471
02:00 - 03:00	149	3	0	0	0	152	72	0	0	0	0	72	77	0	0	0	0	77	56	0	0	0	0	56	354	3	0	0	0	357
03:00 - 04:00	105	0	1	1	0	107	37	0	0	0	0	37	43	0	0	0	0	43	51	0	0	0	0	51	236	0	1	1	0	238
04:00 - 05:00	56	0	0	1	0	57	24	0	0	0	0	24	44	0	0	0	0	44	25	0	0	0	0	25	149	0	0	1	0	150
05:00 - 06:00	113	0	0	0	0	113	32	0	0	0	0	32	63	0	0	0	0	63	24	0	0	0	0	24	242	0	0	0	0	242
06:00 - 07:00	164	1	1	1	0	167	39	1	0	0	0	40	0	5	0	0	0	5	29	0	0	1	0	30	232	7	1	2	0	242
Total	8163	73	34	55	10	8335	3952	114	4	2	3	4075	4559	86	32	51	14	5739	7157	66	19	9	0	7251	27831	339	89	117	34	28400