

Annex X – Traffic surveys and forecasts

Table 1 – Traffic volumes (2008)

No.	Station	Location (km)	Vehicles Counted (2008)
1	Răzeni	22	3252
2	North of Cimislia	57	4197
3	South of Cimislia	62	2607
4	S.Bugeac	82	2162
5	South of Comrat	96	2863

When forecasting traffic, the following annual growth rates were applied (Table 2).

Table 2 – Traffic Growth Rates (% per annum)

Traffic Growth Rates (% per annum)							
		Passengers			Goods		
From	To	Low	Central	High	Low	Centra	High
2008	2013	5.4	7.3	8.7	5.3	7.0	8.4
2014	2019	4.9	6.5	7.8	4.5	6.0	7.2
2020	2030	3.0	4.0	4.8	2.9	3.9	4.7

The consolidated results of traffic forecasts are shown in Table 3.

Table 3 – Forecasted Average Annual Daily Traffic (AADT)

Online Scheme			Low Growth		Central Growth		High Growth	
			2011	2030	2011	2030	2011	2030
Section No	From	To	AADT	AADT	AADT	AADT	AADT	AADT
1	Chisinau	Porumbrei	3.962	9.007	4.228	12.356	4,494	16.184
2	Porumbr e	R3 junction	3.962	9.007	4.228	12.356	4.494	16.184
3	R3 juncton	Cimislia	5.149	11.592	5.458	15.721	5.759	20.331
4	Cimislia urban area		6.461	14.445	6.818	19.432	7.157	24.904
5	Cimislia	Comrat	3.651	8,158	3.860	11,146	4,079	14.592
6	Comrat urban area		4.750	10,629	5,019	14.409	5.287	18.659
7	Comrat	R38	3.091	7.018	3.306	9,869	3.549	13.361

Table 4 – Results of Traffic Counts (MZA, 2014)

Location (km)		Passenger cars	Buses		Trucks				Total MZA 2014
			Route minibuses	Large buses	Light trucks	Medium trucks	Heavy trucks (3–4 axles)	Heavy trucks (4+ axles)	
1+300	Day 1	4855	220	75	361	185	89	227	6,011
	Day 2	4631	230	75	420	241	83	230	5,909
5+000	Day 1	3719	204	64	346	236	46	145	4,759
	Day 2	3522	197	60	351	222	71	108	4,530
22+000	Day 1	2741	79	31	330	220	36	136	3,573
	Day 2	2715	64	29	330	205	43	99	3,484
34+000	Day 1	2313	75	31	312	214	32	132	3,108
	Day 2	2233	63	29	310	205	43	99	2,982
Percentage composition of traffic flow									
1+300		80.8	3.7	1.2	6.0	3.1	1.5	3.8	100
5+000		78.2	4.3	1.3	7.2	4.9	1.0	3.0	100
22+000		76.7	2.2	0.9	9.2	6.2	1.0	3.8	100
34+000		74.4	2.4	1.0	10.0	6.9	1.0	4.3	100

Table 5 – Traffic growth rates by type of vehicle (% per annum)

Year range		Passenger transport vehicles			Freight transport vehicles		
		Average	Low	High	Average	Low	High
2011	2016	4.7	3.5	5,7	4.5	3.4	5.4
2016	2021	4.2	3.2	5.0	4.0	3.0	4.8
2021	2026	3.4	2.6	4.1	3.3	2.4	3.9
2026	2031+	2.9	2.2	3.5	2.8	2.1	3.3

Table 6 – Forecasted average daily traffic (MZA) by category of vehicle

Parameter	Passenger cars	Route minibuses	Light trucks	Buses	Medium trucks	Heavy trucks (3–4 axles)	Heavy trucks (4 + axles)	MZA
Growth rate 2014 - 2019 (%)	5.70	5.70	5.40	5.70	5.40	5.40	5.40	
Growth rate 2019 - 2024 (%)	5.00	5.00	4.80	5.00	4.80	4.80	4.80	
Growth rate 2024 - 2029 (%)	4.10	4.10	3.90	4.10	3.90	3.90	3.90	
Growth rate 2029 - 2034 (%)	3.50	3.50	3.30	3.50	3.30	3.30	3.30	
Growth rate 2034-2039 (%)	3.30	3.30	3.00	330	3.00	3.00	3.00	
km 1+300								
MZA 2014	4855	220	361	75	185	89	227	6012
2025	8511	386	617	131	316	152	388	10501
2039	13963	633	980	216	502	242	616	17151
km 5+000								
MZA 2014	3719	204	346	64	236	46	145	470
2025	6519	358	591	112	403	79	248	8310
2039	10696	587	939	184	641	125	394	13565
km 22+000								
MZA 2014	2741	79	330	31	220	36	136	3573
2025	4805	138	564	54	376	62	232	6231
2039	7883	227	896	89	597	98	369	10160

km 34+000								
MZA 2014	2313	75	312	31	214	32	132	3109
2025	4055	131	533	54	366	55	226	5419
2039	6652	216	847	89	581	87	358	8830

Table 7 – Traffic count data, 2024–2025

(km+)	Date of registration	Bicycles & motorcycles	Cars	Minibuses	Trucks			Articulated trucks (TIR)	Buses	Tractors and special vehicles	Agricultural vehicles	Total
					2 axles	3 & 4 axles	cu remorci					
11+495	2/15/2024	0	7739	1421	657	447			60	72	0	10396
16+650	2/16/2024	0	4028	676	253	140			3	21	0	5121
25+000	5/19/2025	6	5907	1428	461	264			16	0	0	8082

Table 8 – Projected traffic along the M3 road (Chişinău – Comrat – Giurgiuleşti – Romanian border)

(km 211.98 – 213.69 and M3.1 Giurgiuleşti – Ukrainian border, km 0.0 – 0.65)

Vehicle category	Bicycles	Motorcycles	Cars	Minibus	Bus	Light truck	Heavy truck	Van	MZA (physical vehicles)	MZA (car equivalent)
Equivalence coefficient (1 car = 1.0)	0.50	0.750	1.00	2.5	3	3.5	3.5	2		
Growth rate (%)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		
Average Daily Traffic (MZA) 2023	5	26	1676	39	13	314	168	94	2335	3708
2027	6	30	1895	44	15	355	190	107	2641	4194
2047	11	54	3439	81	27	644	344	194	4793	7612

Table 9 – Projected traffic on road R34 (km 175+915), junction with Giurgiuleşti bypass

Vehicle Category	Bicycles	Motorcycles	Cars	Minibus	Bus	Truck (2 axles)	Truck (3– 4 axles)	Truck (4+ axles)	Tractors and special vehicles	MZA (physical vehicles)	MZA (car equivalent)
Equivalence coefficient (1 car = 1.0)	0.50	0.750	1.0 0	2.5	3	2.5	3.5	3.5	2		
Growth rate (%/year)	3.00	3.00	3.0 0	3.00	3.0 0	3.00	3.00	3.00	3.00		
MZA 2024	75	145	235 1	322	11	102	26	659	18	3709	5647
2027	82	158	256 9	352	12	111	28	720	20	4053	6171
2047	149	288	466 2	639	22	202	52	1307	36	7356	11199