



TRACECA Programme:  
Regional Traffic Database and  
Forecasting Model  
**Data Collection Report**  
Appendix D1 Data Received for  
Armenia  
May 1997

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**European Union  
Tacis Programme**

**TRACECA:  
Regional Traffic Database and  
Forecasting Model  
(Project No. WS.93.05/05.01/B008)**

**Data Collection Report  
Appendices**

May 1997

**WS Atkins International Ltd**

Woodcote Grove, Ashley Road, Epsom, Surrey KT18 5BW  
Tel: (01372) 726140 Fax: (01372) 740055

## **APPENDICES**

This appendix is one of eight included as part of the Data Collection Report submitted to TACIS. The appendices contain the data received in response to the questionnaires for each of the TRACECA countries separately.

The eight appendices include:

Appendix D1	Data Received for Armenia
Appendix D2	Data Received for Azerbaijan
Appendix D3	Data Received for Georgia
Appendix D4	Data Received for Kazakhstan
Appendix D5	Data Received for Kyrgystan
Appendix D6	Data Received for Tadjikistan
Appendix D7	Data Received for Turkmenistan
Appendix D8	Data Received for Uzbekistan



**Tables I.1 to I.5**

**Socio Economic and Import/Export Data**

*Table I.1*

*Social and economic indices*

## ARMENIA

(country)

### Socio - Economic Indices

Name of Major Cities	Zone Number	Area,* km2	Population, 000s		Gross domestic product in comparable prices				Gross national product in comparable prices		
			Total	Within Major Cities	1990 mln Rubles	1993 mln Rubles	1994 mln Drams	1994	1994	1995	1996 jan-jun
1		2	3	4	5	6	7	8	9	10	
Erevan	22	0.215	1249.4	1235.7							
Aragacotn	22	2.756	162.5	52.5							
Ararat	22	2.099	305	101.9							
Armavir	22	1.242	315.5	123.5							
Geharkunik	22	5.346	272.4	103							
Lori	22	3.789	392.4	265.7							
Kotaik	22	2.095	325.9	195							
Shirak	22	2.681	358.3	246.5							
Syunik	22	4.506	161.9	114.4							
Vaiocdzor	22	2.308	68.3	28							
Tavush	22	2.704	154.8	69.1							
<b>Total For Armenia</b>		<b>29.743</b>	<b>3766.4</b>	<b>2535.3</b>	<b>10060.9</b>	<b>843681.7</b>	<b>187452.6</b>				

Source: Department of Statistics; State Register and Analysis of the Republic of Armenia

*Table I.2*

*Transportation by types of vehicles*



**ARMENIA**

(country)

**Zone 22****TRANSPORTATION BY MODES**

n/n	Transport mode	Total Frieght Transported (Million Tonnes Per Annum)					
		Years					
		1990	1991	1992	1993	1994	1995
1	Railway	16	12	3	1	1	1
2	Road transport, total	262	205	38	31	20	20
	including public transport	97	69	14	3	3	3
3	Water transport (river and sea)						
4	Air transport	0.018	0.017	0.021	0.059	0.034	0.02
TOTAL:		278	217	41	32	21	21

n/n	Transport mode	Total Freight Transportation (Billion Tonne.Kilometers)					
		Years					
		1990	1991	1992	1993	1994	1995
1	Railway	4.9	4.2	1.3	0.5	0.3	0.4
2	Road transport, total	4.5	3.7	0.7	0.6	0.3	0.3
	including transport of common use	1.5	1.1	0.3	0.07	0.07	0.06
3	Water transport (river and sea)						
4	Air transport	0.05	0.04	0.02	0.01	0.01	0.02
TOTAL:		9.4	7.9	2	1.1	0.6	0.7

Source: Department of Statistics; State Register and Analysis of the Republic of Armenia

*Table I.3-1*

*and*

*Table 1.4-1*

*Cargo flow data through the border (import and export)*

## ARMENIA

(country)

## Cargo flows data through the border (import, in tonnes) for 1995

Codes of Countries and groups of countries	Code of group of commodities																					Total all commodities	% by group of countries	
	Code of group of commodities																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			
1 Tajikistan	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	2	0	26	0.0	
4 Kyrgyzstan	0	0	0	0	0	0	0	25	0	0	0	0	6	0	0	0	0	0	0	0	0	31	0.0	
7 Uzbekistan	0	0	0	0	0	247	0	0	0	0	5	0	0	0	1	0	0	0	0	0	0	253	0.0	
12 Turkmenistan	36	0	0	0	754,488	0	0	0	0	0	434	0	0	0	3	0	1	0	0	0	1	754,963	43.9	
15 Kazakhstan	0	48	0	0	0	52	3	0	0	0	0	0	0	19	0	0	3	0	0	0	0	125	0.0	
21 Georgia	143	764	152	2,086	290,291	11,503	548	0	1,225	259	564	1	823	0	1,400	27	23	10	0	11	0	309,830	18.0	
22 Armenia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
23 Azerbaijan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Sub-total for TRACECA countries	179	812	152	2,086	1,044,779	11,802	551	25	1,225	259	1,027	1	829	0	1,422	28	27	10	0	13	1	1,065,228	61.9	
% by commodities	0.0	0.0	0.0	0.1	60.8	0.7	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	61.9	0.0	
24 Russia and Belarus	7,607	5,898	662	10,246	18,901	13,810	2,573	147	1,223	3,762	1,589	22	2,824	10	12,912	7,160	833	94	0	183	26	90,482	5.3	
29 Ukraine and Moldova	1,325	139	210	879	39	1,572	2,967	0	0	93	13	0	211	0	632	100	16	0	0	29	0	8,225	0.5	
30 China	0	0	0	12	0	0	0	0	0	2	0	0	0	0	0	51	0	8	0	0	0	73	0.0	
31 Indian Sub Continent	0	0	0	0	0	548	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	548	0.0	
32 Iran and Gulf States	17,094	6,484	17,056	90,970	26,847	34,667	1,261	7	203	3,351	978	31	4,059	0	3,390	1,727	372	29	0	1,396	0	209,922	12.2	
33 Turkey	26	159	237	1,105	9,410	230	0	0	0	0	0	0	0	0	0	12	41	0	0	4	0	11,224	0.7	
34 North-Western Europe	3,889	1,186	2,080	11,147	4,618	15,369	403	1	605	603	517	1	165	4	152	539	197	122	0	638	0	42,236	2.5	
35 Southern Europe	872	1,659	1,630	5,712	49,786	1,900	15	0	0	40	13	2	35	0	11,813	66	4	25	0	106	0	73,678	4.3	
36 Central Europe	179	281	49	1,405	57,163	4,930	10	0	0	12	7	0	24	0	198	123	36	30	0	27	0	64,474	3.7	
37 Baltic States	1,934	0	0	38	51	289	2	0	0	3	5	0	2	0	127	40	2	0	0	0	0	2,493	0.1	
38 North-Central Europe	99	0	0	283	0	0	0	0	0	0	9	0	0	0	0	0	5	10	0	0	0	406	0.0	
39 Northern Europe	58	417	1,296	207	7,443	473	40	0	0	6,287	0	0	0	0	378	102	2	15	0	299	0	17,017	1.0	
40 Middle East	576	47	31	659	0	84	168	1	0	16	241	22	187	0	203	0	0	1	0	1	0	2,237	0.1	
41 East Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
42 West Africa	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0.0	
43 East Asia Developing	0	0	0	0	0	0	20	0	0	3	0	0	0	0	0	0	0	0	0	0	0	23	0.0	
44 East Asia Industrial	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3	45	0	0	0	0	0	50	0.0	
45 East Coast America	10,756	9,154	1,652	3,535	23,611	75,713	121	1	0	5,387	373	0	1	0	154	459	39	122	0	20	0	131,098	7.6	
46 W Coast America & Pacific	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	0.0	
Sub-total for non-TRACECA countries	44,534	25,466	24,903	126,198	197,869	149,587	7,580	157	2,031	19,559	3,745	78	7,508	14	29,756	10,585	1,592	456	0	2,703	26	654,347	38.1	
% by commodities	2.6	1.5	1.4	7.3	11.5	8.7	0.4	0.0	0.1	1.1	0.2	0.0	0.4	0.0	1.7	0.6	0.1	0.0	0.0	0.2	0.0	38.1	0.0	
TOTAL all countries	44,713	26,278	25,055	128,284	1,242,648	161,389	8,131	182	3,256	19,818	4,772	79	8,337	14	31,178	10,613	1,619	466	0	2,716	27	1,719,575	0.0	
% by commodities	2.6	1.5	1.5	7.5	72.3	9.4	0.5	0.0	0.2	1.2	0.3	0.0	0.5	0.0	1.8	0.6	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0

Source: Ministry of Transport of the Republic of Armenia

**ARMENIA**  
(country)

**Cargo flows data through the border (export, in tonnes) for 1995**

Codes of Countries and groups of countries	Code of group of commodities																					Total all commodities	% by group of countries
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
	1 Tajikistan	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0		
4 Kyrgystan	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0.0
7 Uzbekistan	0	16	0	136	0	51	0	0	0	0	15	0	0	0	117	2	3	3	0	0	0	343	0.1
12 Turkmenistan	0	0	0	2,824	0	3,609	3,428	326	500	57	1,516	607	1,740	0	566	5,893	1,072	40	0	534	0	22,712	8.0
15 Kazakhstan	0	1	0	80	0	273	90	0	0	0	41	13	48	0	187	712	0	2	0	1	0	1,448	0.5
21 Georgia	13	32	0	127	37,667	676	589	19	0	26	15	0	2,802	0	986	166	5	2	0	13	0	43,138	15.1
22 Armenia	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0.0
23 Azerbaijan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Sub-total for TRACECA countries	13	49	0	3,182	37,667	4,632	4,107	345	500	83	1,587	643	4,590	0	1,856	6,773	1,080	47	0	548	0	67,702	23.8
% by commodities	0.0	0.0	0.0	1.1	13.2	1.6	1.4	0.1	0.2	0.0	0.6	0.2	1.6	0.0	0.7	2.4	0.4	0.0	0.0	0.2	0.0	23.8	0.0
24 Russia and Belarus	129	323	0	17,016	10,147	6,697	3,129	51	25	6	1,302	60	728	10	13,592	12,704	291	95	0	209	150	66,664	23.4
29 Ukraine and Moldova	0	15	0	231	50	1,378	934	0	0	43	52	0	3	0	4,799	690	95	2	0	9	0	8,301	2.9
30 China	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
31 Indian Sub Continent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
32 Iran and Gulf States	0	0	0	0	19,347	3,054	554	0	0	1,340	23	0	47	0	45,394	372	0	0	0	3	0	70,134	24.6
33 Turkey	0	0	0	0	0	0	0	1,678	0	2	0	0	0	0	4,958	26	0	0	0	0	0	6,664	2.3
34 North-Western Europe	1	502	0	35	27,802	10	0	0	0	283	29	0	47	9	1,882	143	0	5	0	1	60	30,809	10.8
35 Southern Europe	0	0	0	20	9,239	0	0	0	0	0	1	0	1	0	195	55	15	1	0	1	6	295	0.1
36 Central Europe	0	0	0	80	0	15	0	0	0	12	0	0	0	0	3,590	1	0	0	0	0	0	12,911	4.5
37 Baltic States	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	36	0	0	0	0	0	208	0.1
38 North-Central Europe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0.0
39 Northern Europe	0	0	0	18	2,259	0	301	0	0	9,333	81	0	0	0	3,215	52	0	0	0	0	0	15,259	5.4
40 Middle East	0	0	0	0	1,395	0	0	27	0	2	70	1	9	0	2,614	180	0	1	0	0	0	4,299	1.5
41 East Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0.0
42 West Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
43 East Asia Developing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	13	0.0
44 East Asia Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
45 East Coast America	0	0	0	279	0	14	0	0	2	1	21	16	59	0	1,071	16	0	0	0	0	0	1,479	0.5
46 W Coast America & Pacific	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Sub-total for non-TRACECA countries	130	840	0	17,679	70,239	11,168	4,918	1,771	27	11,029	1,581	77	894	21	81,378	14,276	401	105	0	223	282	217,039	76.2
% by commodities	0.0	0.3	0.0	6.2	24.7	3.9	1.7	0.6	0.0	3.9	0.6	0.0	0.3	0.0	28.6	5.0	0.1	0.0	0.0	0.1	0.1	76.2	
TOTAL all countries	143	889	0	20,861	107,906	15,800	9,025	2,116	527	11,112	3,168	720	5,484	21	83,234	21,049	1,481	152	0	771	282	284,741	
% by commodities	0.1	0.3	0.0	7.3	37.9	5.5	3.2	0.7	0.2	3.9	1.1	0.3	1.9	0.0	29.2	7.4	0.5	0.1	0.0	0.3	0.1		

Source: Ministry of Transport of the Republic of Armenia

*Table I.5*

*Origin destination matrices by commodity*





TRACECA - BASE YEAR MODEL MATRICES, Commodity 3, Animal and Vegetable Fats and Oils - All Modes (Tonnels in 1995)

Origin	Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	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TRACEA - BASE YEAR MODEL MATRICES, Commodity A, Mineral Products - All Modes (Tons in 1995)

Commodity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
Crude Oil	1000																																																					
Gasoline		1000																																																				
Jet Fuel			1000																																																			
... (Remaining rows follow a similar pattern with values in various cells)																																																						











TRACECA - BASE YEAR MODEL MATRICES, Commodity 11, Textiles - All Modes (Tonnes in 1995)

Origin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477
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TRACECA - BASE YEAR MODEL MATRICES Commodity 21, All Products - All Modes (Tonnes in 1995)

Origin	Destination																																																Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472



**Tables II.1 to II.2**

**Road Network Characteristics and Traffic**

*Table II.1*

*Road network characteristics and condition of road sections' and pavements (1994-95)*

**Armenia**  
(country)

**Road Network - Characteristics and Condition of Road Sections Surfacing (1994-95)**

No	Road Sections			Total Length (km)		Width (m)		Type of Pavement (km/section)			Condition of Road (km/section)			
	Start of Section	End of Section	Anode	Bnode	Total	Length in Mountainous Conditions	Carriageway and Hard - Shoulder	Carriageway	Hot Asphalt - Concrete	Cold Asphalt - Concrete	Unsealed	Good	Fair	Poor
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	border of Georgia	Gyumri	10001	10020	44	10	15	7.5	44	0	0	34	7	3
2	Gyumri	Ashtarak	10020	10030	100	15	15	7.5	100	0	0	91	9	0
3	Ashtarak	Erevan	10030	10040	30	0	27.5	15	30	0	0	30	0	0
4	Erevan	Sevan	10040	10060	73	3	27.5	15	73	0	0	73	0	0
5	Sevan	Dilijan	10060	10080	30	20	15	7.5	30	0	0	30	0	0
6	Dilijan	Ijevan	10080	10090	49	0	15	7.5	49	0	0	40	9	0
7	Ijevan	border of Azerbaijan	10090	10091	20	0	30	15	47	0	0	47	0	0
8	Erevan	Ararat	10040	10110	47	0	15	7.5	20	0	0	20	0	0
9	Ararat	Erseh	10110	10120	20	0	15	7.5	40	0	0	10	25	5
10	Dilizhan	Vanadzor	10080	10130	40	3	15	7.5	15	0	0	15	0	0
11	Vanadzor	Spitak	10130	10131	15	0	15	7.5	45	5	0	10	30	10
12	Spitak	Gyumri	10131	10020	50	8	15	7.5	31	0	0	15	16	0
13	Vanadzor	Dzoraget	10130	10140	31	8	12	7	23	0	3	4	17	5
14	Dzoraget	Alaverdi	10140	10150	26	3	10	6	34	0	0	6	26	2
15	Alaverdi	Bagratashen	10150	10160	34	0	10	7	56	0	0	19	31	6
16	Megri	Kadjaran	10170	10180	56	27	10	6	30	0	0	25	5	0
17	Kadjaran	Kafan	10180	10190	30	15	12	7	62	0	0	50	12	0
18	Kafan	Goris	10190	10200	62	32	10	6	28	0	0	21	7	0
19	Goris	border of Azerbaijan	10200	10201	28	8	12	7	48	0	0	21	22	5
20	Goris	Angehakot	10200	10210	48	16	12	7	75	0	0	36	36	3
21	Angehakot	Pass. Bichanevski	10210	10220	19	32	12	7	59	0	0	59	0	0
22	Angehakot	Ehagnadzor	10210	10230	75	35	15	7.5	21	0	36	7	40	18
23	Ehagnadzor	Erseh	10230	10120	59	34	11	6	43	0	0	23	36	4
24	Ehagnadzor	Martuni	10230	10240	65	0	12	7	49	0	0	44	5	0
25	Martuni	Sevan	10240	10060	63	9	15	7.5	30	0	0	21	6	3
26	Ashtarak	Alagyaz	10030	10031	49	6	15	7.5	26	0	0	20	6	0
27	Alagyaz	Spitak	10031	10131	30	3	12	7	46	10	0	10	44	2
28	Vanadzor	Stepavan	10130	10132	26	3	12	7	46	10	0	10	44	2
29	Stepavan	border of Georgia	10132	10133	56	4	12	7	46	10	0	10	44	2

Source : RPO Armatodop

**Armenia**

(country)

Coordinates, deg		Town	Node	Coordinates, grad	
Y	X			Y	X
41.08	43.44	border of Georgia	10001	41.13	43.73
40.48	43.50	Gyumri	10020	40.80	43.83
40.18	44.22	Ashtarak	10030	40.30	44.37
40.11	44.30	Erevan	10040	40.18	44.50
40.34	44.57	Sevan	10060	40.57	44.95
40.45	44.52	Dilijan	10080	40.75	44.87
40.53	45.07	Ijevan	10090	40.88	45.12
40.11	44.30	Erevan	10040	40.18	44.50
39.48	44.40	Ararat	10110	39.80	44.67
40.45	44.52	Dilizhan	10080	40.75	44.87
40.48	44.30	Vanadzor	10130	40.80	44.50
40.48	44.15	Spitak	10131	40.80	44.25
40.48	44.30	Vanadzor	10130	40.80	44.50
40.54	44.31	Dzoraget	10140	40.90	44.52
41.08	44.39	Alaverdi	10150	41.13	44.65
38.56	46.16	Megri	10170	38.93	46.27
39.10	46.22	Kadjaran	10180	39.17	46.37
39.13	46.24	Kafan	10190	39.22	46.40
39.31	46.23	Goris	10200	39.52	46.38
39.31	46.23	Goris	10200	39.52	46.38
39.36	45.57	Angehakot	10210	39.60	45.95
39.36	45.57	Angehakot	10210	39.60	45.95
39.46	45.21	Ehegnadzor	10230	39.77	45.35
39.46	45.21	Ehegnadzor	10230	39.77	45.35
40.08	45.19	Martuni	10240	40.13	45.32
40.12	44.22	Ashtarak	10030	40.20	44.37
39.45	44.46	Erash	10120	39.75	44.77
41.15	44.51	Bagratashen	10160	41.25	44.85
39.05	46.22	Alagyaz	10031	39.08	46.37
40.48	44.30	Vanadzor	10130	40.80	44.50
41.00	44.22	Stepavan	10132	41.00	44.37
41.02	45.15	border of Azerbaijan	10091	41.03	45.25
39.35	46.32	border of Azerbaijan	10201	39.58	46.53
39.32	45.51	pass. Bichanevski	10220	39.53	45.85
41.13	44.15	border of Georgia	10133	41.22	44.25

Source : RPO 'Armvatodop'

*Table II.2*

*Road network - traffic intensity*



## Armenia

(country)

### Road Network - Volume of Traffic

No	Road Sections				Volume of Traffic (vehicles/day)						
	2		3		1990		1993		1996		
	Anode	Bnode	All Vehicles	Trucks	All Vehicles	Trucks	All Vehicles	Trucks	All Vehicles	Trucks	
				Number	%	Number	%	Number	%	Number	%
1					6	7	6	7	6	7	7
1	border of Georgia				5						
2	Gyumri	10001	10020								396
3	Ashtarak	10020	10030								756
4	Erevan	10030	10040								2550
5	Sevan	10040	10060								1580
6	Dilijan	10060	10080								346
7	Ijevan	10080	10090								907
8	border of Azerbaijan	10090	10091								58
9	Erevan	10040	10110								1283
10	Ararat	10110	10120								454
11	Dilizhan	10110	10130								1890
12	Vanadzor	10080	10130								1180
13	Spitak	10130	10131								3410
14	Gyumri	10131	10020								1060
15	Dzoraget	10130	10140								2568
16	Alaverdi	10140	10150								1560
17	Bagratashen	10150	10160								2690
18	Megri	20630	10170								968
19	Ordubad (Azerbaijan)	10170	20470								270
20	Megri	10170	10180								750
21	Kadjaran	10170	10180								1920
22	Kafan	10180	10190								576
23	Goris	10190	10200								511
24	border of Azerbaijan	10200	10201								625
25	Angehakot	10200	10210								625
26	Pass. Bichanekski	10210	10220								
27	Ehegnadzor	10210	10230								
28	Eraseh	10230	10120								1890
29	Martuni	10230	10240								454
30	Sevan	10240	10060								509
31	Alagyaz	10030	10031								528
32	Spitak	10031	10131								1042
33	Stepavan	10130	10132								647
34	border of Georgia	10132	10133								1440
35		10132	10133								547
36											847
37											38

Source :RPO 'Armavtopod'

Note : Trucks defined as laden weight greater than 3 tonnes.



**Tables III.1 and III.5**

**Rail Network Characteristics and Traffic**

*Table III.1*

*Railway network technical-operating characteristics*

**ARMENIA**  
(country)

**Railway Network - Technical-operating characteristics of railway sections (1994-95)**

n/n	Railway Sections			Length of Section, km			Track Signalling System				Traction Type (E/D) and Type of Locomotives in use	Length of Entrance Departure Ways (m)	Leading gradient, %		Train weight norm (ton)				
	Start of Section	End of Section	Bnode	Total	Length Double Track	Length Single Track	Dispatch Board	Automatic	Semi Automatic	Other			To	Back	To	Back	To	Back	To
1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
1	Airum	Kirovokan	15130	72	0	72	0	0	72	0									
3	Kirovokan	Gumri	15130	69		69			69										
4	Gumri	Akhuryan	15020	16		16			16										
5	Gumri	Masis	15020	140		140			140										
7	Masis	Erevan	15520	14	7	7			14										
8	Masis	Eraskh	15120	52		52			52										
9	Eraskh	Sharur	25860	8		8			8										
10	Masis	Razdan	15050	82		82			82										
11	Razdan	Nursun-Zod	15050	145		145			145										
12	Razdan	Idzhevan	15090	98		98			98										

Note: Traction type - E= electric and D= diesel

Source: Ministry of Transport of the Republic of Armenia

**ARMENIA**

(country)

Coordinates, deg		Settlement	Node No.	Coordinates, grad	
Y	X			Y	X
41.13	44.53	Airum	15500	41.22	44.88
40.44	43.47	Akhuryan	15510	40.73	43.78
39.45	44.46	Eraskh	15120	39.75	44.77
40.48	43.50	Gumri	15020	40.80	43.83
40.53	45.07	Idzhevan	15090	40.88	45.12
40.48	44.30	Kirovokan	15130	40.80	44.50
40.00	44.29	Masis	15520	40.00	44.48
40.12	45.52	Nursun-Zod	15520	40.20	45.87
40.30	44.46	Razdan	15050	40.50	44.77
39.33	44.58	Sharur	25860	39.55	44.97

*Tables III.2*

*Cargoes correspondence (in types) within railway network*



























ARMENIA (country)		1995		Railway: Matrix of domestic carriage, import, export and transit for: construction Category of commodity: 13																								
From		To																				Sub-total		TOTAL				
		Domestic carriage (within the railway), thousand tonnes Sections of railway (Model Zone No)										External carriage (via junction points), thousand tonnes Junction points (Node)										Sub-total		TOTAL				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
D o m e s t i c	Armenia	22	0.42												0.42	0.01											0.01	0.42
															0.00	0.00											0.00	0.00
															0.00	0.00											0.00	0.00
															0.00	0.00											0.00	0.00
															0.00	0.00											0.00	0.00
															0.00	0.00											0.00	0.00
															0.00	0.00											0.00	0.00
															0.00	0.00											0.00	0.00
															0.00	0.00											0.00	0.00
															0.00	0.00											0.00	0.00
E x t r a n i t	Sadachlo														0.42	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.42
															0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
															0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
															0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
															0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
															0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
															0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
															0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
															0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
															0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
														0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.42	
TOTAL			0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.48	





*Table III.3*

*Railway network density of goods movement through railway  
network sections*

**ARMENIA**  
(country)

**Railway Network Density of goods movement through railway network sections for 1993**

n/h	Railway Sections			Direction of Movement	Flows by Commodity Type (millions tonnes)											Total
	Start of Section	Anode	End of section		Bnode	coal	coke	oil	ore	metal	timber	construc- tion	chemic. fert.	grain & cereals	others	
1	1/Airum	3 15500	4 Masis	5 15520	6 ↔	7 0.03 0.005	8 0 0	9 0.2 0.015	10 0 0	11 0 0	12 0 0	13 0.325 0.3	14 0 0	15 0.555 0.06	16 0.42 0.29	17 1.53 0.67

Source: Ministry of Transport of the Republic of Armenia

*Table III.4*

*Railway network annual shipment of containers from railway  
network terminals*



**ARMENIA**  
(country)

**Railway Network Annual shipment of containers from railway network terminals for 1994**

n/n	Location of Terminal	Node No.	LOADED						UNLOADED																	
			TOTAL			including			TOTAL			including														
			physical unit, unit	average weight, kg	Specials incl Haz. loads etc.	Large tonnage incl. all ISO 20 & 40 ft containers	physical unit, unit	average weight, kg	Medium tonnage incl. FSU containers 3 to 15 Tonnes	physical unit, unit	average weight, kg	Specials incl Haz. loads etc.	Large tonnage incl. all ISO 20 & 40 ft containers	physical unit, unit	average weight, kg	Medium tonnage incl. FSU containers 3 to 15 Tonnes	physical unit, unit	average weight, kg	Specials incl Haz. loads etc.							
1	2		3	4	15300	5	6	16500	7	8	3500	9	10	0	11	12	1900	13	14	1900	15	16	0	17	18	0
1	Karmir/Blur		149			135			14			0			718			718			0			0		0

Source: Ministry of Transport of the Republic of Armenia

**ARMENIA**  
 (country)

**Railway Network Annual shipment of containers from railway network terminals for 1995**

n/n	Location of Terminal	Node No.	LOADED						UNLOADED																	
			TOTAL			including			TOTAL			including														
			physical unit, unit	average weight, kg	Large tonnage incl. all ISO 20 & 40 ft containers	physical unit, unit	average weight, kg	Medium tonnage incl. FSU containers 3 to 15 Tonnes	physical unit, unit	average weight, kg	Specials incl Haz. loads etc.	physical unit, unit	average weight, kg	Large tonnage incl. all ISO 20 & 40 ft containers	physical unit, unit	average weight, kg	Medium tonnage incl. FSU containers 3 to 15 Tonnes	physical unit, unit	average weight, kg	Specials incl Haz. loads etc.						
1	2 Karmir/Blur		3	4	16500	5	6	16500	7	8	0	9	10	0	11	12	2070	13	14	2350	15	16	600	17	18	0

Source: Ministry of Transport of the Republic of Armenia

*Table III.5*

*Railway network transit time of passage of a train on the route*

**ARMENIA**

(country)

**Railway Network Transit time of passage of a train on the route**

n/n	Sections of Main Line	Time of Passage Along Route (Hours)				Reserve Capacity of Route (Trains/Day)
		Cargo		Passenger		
		To	Return	To	Return	
1	2	3	4	5	6	7
1	Airum-Gumri	5	5.2			6
2	Gumri-lasis	4.5	5.1	4.42	4.58	6
3	lasis-Erevan	0.3	0.3	0.25	0.25	
4	lasis-Razdan	4	5.1			
5	lasis-Karmir-Blur	0.25	0.3			
6	Razdan-Nursun-Zod	4.25	4.35			
7	Razdan-Dilizhan	3.5	4.1			

Source: Ministry of Transport of the Republic of Armenia



**Tables V.1 to V.3**

**Airport Characteristics and Traffic**

*Table V.1*

*Information about airports' carrying capacity*

## Armenia

(country)

### Airport carrying capacity

No	Specifications	Airport name			
		Zvartnoc	Shirak	Stepanavan	Kamo
1	Type of aircrafts landing	Boeing 747 Boeing 757 AN-9 Éé-86 Éé-76 Óó-154 Airbus 310 Boeing 737 Éé-62 Ai-124 Ai-22 Ai-225	Airbus 320 A-737 Éé-76 Óó-154 Óó-134 Éé-40 A-310 A-747	Ai-232 Ai-30 Ai-26 Ai-24 Éé-40 Ai-2	Ai-32 Ai-30 Ai-26 Ai-24 Éé-40 Ai-2
2	Dimensions of run-way	3850 x 56	3229 x 45	2025 x 28	2200 x 65
3	Availability and number of parking spaces for freight aircraft	8	3	3	3
4	Availability and carrying capacity of freight terminals				
5	Types of aircraft based at airport	Éé-86 Éé-76 Óó-154 Óó-134	Óó-134		
6	Availability of mechanised facilities for loading-unloading	upto 5 t.	upto 5 t.		upto 5 t.

Source : Ministry of Transport of the Republic of Armenia



*Table V.2*

*Airport's technical and economic data*

## Armenia

(country)

### Airport operations data

No	Specifications	Units of measurement (name/city)	Years		
			1993	1994	1995
1	Goods dispatched, total	tons	59489	33949	20388
	including				
	- originally	tons	59213	33911	20387
	- transit		276	38	1
2	from it				
	- internal air routes	tons			
	- neighbouring countries	tons	57668	32133	19256
	- international air routes	tons	1545	1778	1131
	Turnover, total (billions ton*km)	mln. tkm	14.1	11.9	16.7
3	including				
	- internal air routes	mln. tkm			
	- neighbouring countries	mln. tkm	10.7	7.6	7.3
	- international air routes	mln. tkm	3.4	4.3	9.4
4	Transportation tariff per 1 ton of cargo	USD/km	0.15	0.35	0.42
	- on regular air routes	USD/km			
	- by charters				
5	Rate for reception/dispatching of 1 ton of cargo	USD/km		7.5	26.5
	Maximum time of full unloading and new loading of aircraft by types	hours/minutes	1/30	1/30	1/30

Source : Ministry of Transport of the Republic of Armenia

*Table V.3*  
*Cargoflows direction from/to airport*

**Armenia**

(country)

Freight flows direction from/to airport Erevan

(name/city)

No	Name of destination/departure airports	Tariff distance, km	Flying time, hr/m	Volume of sending/ arriving cargo, tonnes		
				1993	1994	1995
1	A/C "Erevan-AVIA" Airport Urumchi dispatching arriving				30	
2	Airport Sharja dispatching arriving				60	
3	Airport Kazan - Moscow dispatching arriving				30	
4	Airport Luhovicy dispatching arriving				120	
5	Airport Bykovo transporting				110	
6	Airport Dubai transporting				90	
7	Airport Krasnovodsk transporting				135	
8	Airport Rostov transporting				45	
9	Airport Vnukovo transporting				65	
10	Airport Almaty transporting				45	
11	Airport Raselhaima transporting				30	
12	Airport Stavropol transporting				110	50
13	Airport Sochi-Raselhaima-Bangkok-Darvin transporting				55	
14	Airport Djuba-Entebe-Nairobi transporting				50	
15	Airport Kazan transporting					40
16	Airport Aleppo transporting					190
17	Airport Sochi - Paris transporting					35
18	Airport Damascus-Gumri transporting					36
19	Airport Ramenskoe-Vienna transporting					30

**Armenia**

(country)

Freight flows direction from/to airport Erevan

(name/city)

No	Name of destination/departure airports	Tariff distance, km	Flying time, hr/m	Volume of sending/ arriving cargo, tonnes		
				1993	1994	1995
20	Airport Ramenskoe transporting					35
21	Airport Delhi transporting					30
22	Airport Saint-Petersburg transporting					80
23	Airport Dubai transporting					85
24	Airport Volgograd transporting					120
25	Airport Turkmenbashi transporting					900
26	Airport Dnepropetrovsk transporting					100
27	Airport Prague transporting					40
28	Airport Sochi transporting					250
29	Airport Krasnodar transporting					35
30	Airport Sliach.-Meshhed transporting					50
31	Airport Burgas-Ostende-Cairo-Aleppo transporting					50
	<b>Total:</b>				1005	2156

Source : Ministry of Transport of the Republic of Armenia

**Armenia**

(country)

**Freight flows direction from/to airport \_\_\_Erevan\_\_\_**

(name/city)

No	Name of destination/departure airports	Tariff distance, km	Flying time, hr/m	Volume of sending/ arriving cargo, tonnes		
				1993	1994	1995
1	Airport Moscow dispatching arriving				1168.4	1039
					989.2	1169
2	Airport Ekaterinburg dispatching arriving				107.2	86.6
					52.2	59.8
3	Airport Sochi dispatching arriving				375.7	143.9
					105.7	187.2
4	Airport Novosibirsk dispatching arriving				142	100.7
5	Airport Odessa dispatching arriving				40.2	11.4
					49.4	11.6
6	Airport Amsterdam dispatching arriving				1.5	14
					14.7	128.3
7	Airport Fudjeira dispatching arriving				49.1	60.7
					786	1017.6
8	Airport Burgas dispatching arriving				27.2	18.1
					285.5	49.1
9	Airport Dubai dispatching arriving					1666.3
10	Airport Beyrouth dispatching arriving				1.1	7.6
					2.8	39.3
11	Airport Athens dispatching arriving					3.6
					20.8	9.5
12	Airport Paris dispatching arriving					28.1
						264.1
13	Airport Minsk dispatching arriving					14.6
						42.4
14	Airport Sofia					

**Armenia**

(country)

**Freight flows direction from/to airport \_\_\_ Erevan \_\_\_**

(name/city)

No	Name of destination/departure airports	Tariff distance, km	Flying time, hr/m	Volume of sending/ arriving cargo, tonnes		
				1993	1994	1995
	dispatching					1.4
	arriving				2.4	177.2
15	Airport Rostov					
	dispatching				21.9	25.7
	arriving				23.7	27.6
16	Airport Min. Vody					
	dispatching				47.8	26.4
	arriving				17.9	12.9
17	Airport Ashgabat					
	dispatching				18.6	12.3
	arriving				35.2	15.6
18	Airport					
	dispatching					16.8
	arriving					36.6
19	Airport Harkov					
	dispatching					7.5
	arriving					3.7
20	Airport Simferopol					
	dispatching					8.3
	arriving					6.3
21	Airport Tegeran					
	dispatching				0.7	0.1
	arriving				1.1	2.3
1	BiSAL "Ararat"					
	Airport Stavropol					
	dispatching				26.5	26.7
	arriving				19.9	9.9
2	Airport Min. Vody					
	dispatching				49.3	36.2
	arriving				18.4	11.9
3	Airport Volgograd					
	dispatching				1	6.4
	arriving					
4	Airport Vladikavkaz					
	dispatching				5.5	2.6
	arriving					
	Own park					
	dispatching			3714.4	2173	1806.5
	arriving			4447	2630.5	5181.8
	Other					
	dispatching			55774.6	31770	18581.5

**Armenia**

(country)

**Freight flows direction from/to airport \_\_\_ Erevan \_\_\_**

(name/city)

No	Name of destination/departure airports	Tariff distance, km	Flying time, hr/m	Volume of sending/ arriving cargo, tonnes		
				1993	1994	1995
	arriving			25587.2	43031.5	64432
	Total:					
	dispatching			59489	33949	20388
	arriving			68879	45662	30769

Source : Ministry of Transport of the Republic of Armenia



**Armenia**

(country)

Freight flows direction from/to airport Gumri

(name/city)

No	Name of destination/departure airports	Tariff distance, km	Flying time, hr/m	Volume of sending/arriving cargo, tonnes		
				1993	1994	1995
1	Airport Moscow dispatching arriving				44.9	57.2
					81.6	96.1
2	Airport Samara dispatching arriving				32.7	35.3
					26.8	37.3
3	Airport Krasnodar dispatching arriving				375.7	143.9
					105.7	187.2
4	Airport Rostov dispatching arriving				142	100.7
5	Airport Saint-Petersburg dispatching arriving				40.2	11.4
					49.4	11.6
6	Airport Odessa dispatching arriving				1.5	14
					14.7	128.3

Source : Ministry of Transport of the Republic of Armenia



**Table VI**  
**Route and Cost Data**

*No data available.*