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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

Working Party on Rail Transport  
(Fifty-sixth session, 16-18 October 2002,  
agenda item 15)

**PRODUCTIVITY IN RAIL TRANSPORT**

Transmitted by the International Union of Railways (UIC)

Note: At its fifty-fourth session in 2000, the Working Party asked the representative of the International Union of Railways (UIC) to provide data from its member railways, and the representative of OSZhD to provide information from its member states that were not UIC members, on the following criteria (TRANS/SC.2/194, para. 23) in 2000:

(a) Labour productivity: (distinguishing between high-speed and conventional rail transport)

employees/km of network in use  
net ton-km + passenger-km employee.

(b) Productivity of freight transport:

per km: gross ton-km/km of network  
net ton-km/km of network  
per employee: gross ton-km/employee  
net ton-km/employee.

(c) Productivity of passenger transport: (distinguishing between high-speed and conventional rail transport)

per km: passenger-km/km of network  
per employee: passenger-km/employee

(d) Productivity of traffic: (distinguishing between high-speed and conventional rail transport)

net ton-km + passenger-km/km of network

(e) Productivity of locomotives: (distinguishing between high-speed and conventional rail transport)

gross ton-km/locomotive

(f) Productivity of wagons:  
net ton-km/wagon

(g) Productivity of lines: (where necessary only on railway lines to be determined)

passenger train-km + freight train-km /km of network

(h) Energy consumption (for traction power):

MJ/1000 gross ton-km.

The Working Party may wish to consider the reply received from UIC, which is reproduced below.

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### Ratios des chemins de fer - Railway ratios - 1970-2000

Année Year	Main d'oeuvre Staff	Transport fret Freight		Transport voyageurs Passengers		Trafic Traffic		Matériel Rolling stock	Lignes Lines
	Agents par Km de ligne	TK par Km de ligne	TK par agent	VK par Km de de ligne	VK par agent	VK+TK par Km de ligne	VK+TK par agent	TK par wagon	Trains-km par km
	Employees per km of line	Tkm per km of line line	Tkm per employee	Pkm per km of line	Pkm per employee	Pkm+Tkm per km of line	Pkm+Tkm per employee	Tkm per wagon	Train-km per km of line
	en unités units	en milliers thousands							
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)

### Union Européenne + AELE/European Union + EFTA

#### Allemagne/Germany

1970	14.6	2487	170	1,411	97	3,898	267	239	19.5
1975	14.8	2391	161	1,535	103	3,926	265	219	20.1
1980	13.3	2784	210	1,489	112	4,272	322	262	20.8
1985	12.7	2890	227	1,563	123	4,453	350	259	20.7
1990	11.8	2469	210	1,489	127	3,958	336	244	20.9
1995	7.1	1,666	236	1,451	205	3,116	441	283	20.6
1996	6.3	1,663	264	1,507	240	3,170	504	282	20.8
1997	6.1	1,889	311	1,551	256	3,439	567	324	21.8
1998	5.5	1930	351	1,565	285	3,494	636	358	22.9
1999	7.5	1,891	253	1941	260	3,832	513	377	25.1
2000	5.0	2099	424	2023	408	4,122	832	405	26.9

#### Autriche/Austria

1970	12.5	1,672	133	1,064	85	2737	218	252	14.7
1975	12.7	1,599	126	1,103	87	2703	212	235	15.5
1980	12.4	1,878	152	1,260	102	3,138	253	284	17.0
1985	12.3	1958	159	1,264	103	3,223	262	300	18.0
1990	11.9	2162	182	1,334	112	3,496	294	354	20.8
1995	10.8	2307	214	1,503	139	3,810	353	452	23.0
1996	10.1	2313	230	1,495	149	3,808	379	484	21.7
1997	9.7	2455	253	1,435	148	3,890	400	530	22.5
1998	9.4	2526	269	1,403	149	3,929	418	594	24.4
1999	9.3	2611	281	1,417	152	4,028	433	598	24.8
2000	9.1	2927	322	1,474	162	4,401	485	681	26.9

## Belgique/Belgium

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	12.3	1,710	139	1,794	146	3,504	285	176	17.4
1975	14.0	1,576	113	1,913	137	3,489	249	143	19.9
1980	16.5	2024	122	1,753	106	3,777	228	187	24.0
1985	15.8	2257	143	1,792	113	4,049	256	214	25.8
1990	13.0	2401	185	1,880	145	4,281	329	275	26.5
1995	12.4	2164	174	2006	161	4,170	335	359	26.4
1996	12.2	2143	176	2008	165	4,151	341	370	26.8
1997	11.7	2181	186	2040	174	4,221	360	396	26.6
1998	11.5	2190	190	2045	177	4,235	367	406	27.1
1999	11.9	2211	185	2228	187	4,438	372	406	28.7
2000	11.9	2211	185	2228	187	4,438	372	406	28.7

## Danemark/Denmark

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	10	723	71	1,657	162	2380	233	155	18
1975	11	984	91	1,876	174	2860	265	197	22
1980	11	803	73	1,887	172	2691	245	235	24
1985	9	708	81	1,840	210	2548	291	298	20
1990	9	738	85	2071	239	2809	324	373	22
1995	7	845	126	2036	304	2881	430	482	25
1996	8	748	93	1967	244	2715	337	490	24
1997	5	888	181	2230	455	3,119	636	546	26
1998	5	909	193	2280	485	3,189	679	717	27
1999	6	838	144	2213	380	3,051	524	836	26
2000	6	1,020	164	2629	422	3,648	586	933	30

## Espagne/Spain

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	5.8	638	110	957	165	1,595	275	175	8.4
1975	4.8	694	144	1,151	239	1,844	383	239	8.4
1980	4.8	702	145	966	199	1,668	344	264	8.9
1985	4.7	799	169	1,167	246	1,965	415	277	10.7
1990	3.7	777	211	1,171	319	1,949	530	292	13.1
1995	3.1	741	238	1,180	380	1,922	618	334	12.8
1996	3.0	723	241	1,201	400	1,925	642	336	12.7
1997	3.0	829	280	1,292	437	2,121	717	381	13.4
1998	2.9	839	294	1,338	469	2,177	764	408	13.4
1999	2.8	926	330	1,473	525	2,398	855	432	13.7
2000	2.7	938	342	1,509	550	2,446	892	436	13.6

Finlande/Finland

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	4.8	1,080	226	372	78	1,452	304	275	7.3
1975	4.9	1,088	222	530	108	1,617	330	287	7.5
1980	4.7	1,372	290	529	112	1,901	402	388	7.4
1985	4.5	1,367	305	546	122	1,914	426	436	7.4
1990	3.4	1,424	414	568	165	1,992	578	550	7.0
1995	2.6	1,626	624	541	208	2,167	832	636	7.0
1996	2.5	1,503	591	555	218	2,058	809	597	6.9
1997	2.5	1,680	683	576	234	2,256	916	721	7.5
1998	2.4	1,685	704	576	241	2,260	945	755	7.6
1999	2.3	1,671	719	585	252	2,256	971	750	7.6
2000	2.2	1,727	788	582	265	2,308	1,053	800	7.7

France

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	8.1	1,798	223	1,090	135	2,889	358	232	12.4
1975	7.8	1,755	225	1,401	180	3,156	405	228	13.2
1980	7.4	2,003	270	1,579	213	3,582	484	287	14.7
1985	7.0	1,590	228	1,783	255	3,373	483	287	13.9
1990	5.9	1,487	251	1,871	316	3,359	566	342	14.1
1995	5.7	1,507	266	1,732	305	3,239	571	415	14.2
1996	5.6	1,554	278	1,869	335	3,423	613	441	15.6
1997	5.5	1,692	308	1,935	352	3,627	659	508	15.9
1998	5.5	1,700	308	2,023	366	3,723	674	537	16.0
1999	6.0	1,836	306	2,277	380	4,113	686	473	17.9
2000	6.0	1,894	316	2,377	397	4,271	713	500	18.2

Grèce/Greece

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	4.9	264	54	750	154	1,014	209	76	7.3
1975	5.0	368	74	874	176	1,242	250	89	7.1
1980	4.9	331	67	595	121	926	188	75	6.1
1985	6.1	298	49	704	115	1,002	164	69	6.6
1990	5.4	245	46	796	148	1,041	194	56	
1995	5.1	118	23	634	125	752	149	26	7.4
1996	4.7	136	29	708	149	844	178	30	7.8
1997	4.7	127	27	753	160	879	187	37	7.4
1998	4.7	137	29	675	143	812	172	118	7.3
1999	4.6	142	31	689	150	830	181	92	7.3
2000	4.2	185	45	820	197	1,006	242	123	

## Irlande/Rep. of Ireland

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	10.2	249	24	266	26	515	51	56	5.2
1975	10.1	283	28	448	44	731	72	73	5.4
1980	9.1	321	35	519	57	840	92	144	6.8
1985	8.0	309	38	526	65	835	104	308	7.0
1990	6.1	303	50	631	104	934	154	322	7.3
1995	5.7	308	54	661	116	969	170	330	6.8
1996	5.6	292	52	663	118	954	170	348	7.9
1997	5.5	268	49	713	130	981	179	320	8.0
1998		244		744		989	286	286	8.1
1999	2.7	276	100	764	279	1,039	379	282	8.0
2000	2.8	256	92	724	259	980	351	264	8.0

## Italie/Italy

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	11.9	1,124	95	2019	170	3,144	265	144	17.2
1975	13.8	926	67	2260	164	3,186	231	119	17.3
1980	13.7	1,139	83	2453	179	3,592	263	160	18.6
1985	13.4	1,041	78	2311	173	3,353	251	154	19.2
1990	12.5	1,209	97	2783	223	3,992	320	195	20.0
1995	8.1	1,390	171	2741	338	4,131	509	250	21.5
1996	7.8	1,314	169	2797	359	4,110	528	261	21.6
1997	7.6	1,429	188	2719	358	4,148	546	299	21.5
1998	7.3	1,396	191	2574	352	3,971	543	294	21.2
1999	7.1	1,339	189	2698	380	4,038	569	284	20.5
2000	7.1	1,413	199	2710	383	4,123	582	325	20.4

## Luxembourg

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	16.3	2812	172	944	58	3,756	230	180	15.8
1975	15.2	2393	158	1,064	70	3,457	228	172	15.8
1980	15.6	2459	157	911	58	3,370	216	184	16.1
1985	14.1	2219	158	848	60	3,067	218	209	16.1
1990	13.1	2269	174	768	59	3,037	232	226	18.1
1995	11.7	1924	165	1,040	89	2964	254	217	26.2
1996	11.5	1934	168	1,036	90	2971	258	230	26.6
1997	11.3	2066	183	1,077	96	3,142	279	248	26.1
1998	11.1	2095	188	1,095	98	3,190	287	244	26.7
1999	11.1	2219	201	1,131	102	3,350	303	276	27.8
2000	11.3	2307	205	1,212	108	3,518	313	241	26.8

Norvège/Norway

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	4.7	642	138	438	94	1,081	231	266	7.6
1975	4.3	604	139	528	121	1,132	260	284	7.8
1980	4.2	711	169	564	134	1,275	304	335	5.8
1985	3.7	678	181	528	141	1,207	322	389	7.7
1990	3.4	635	189	520	155	1,155	344	419	9.1
1996	2.7	656	242	609	225	1,265	467	681	9.3
1997	2.7	750	275	637	234	1,387	509	830	9.2
1998	2.6	743	285	647	248	1,389	533	1,044	9.3
1999	2.4	685	281	640	263	1,325	544	1,043	8.2
2000	2.3	693	296	631	269	1,323	565	1,078	8.2

Pays-Bas/Netherlands

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	8.5	1,122	132	2546	299	3,668	431	188	31.3
1975	9.4	961	103	3,002	321	3,963	423	195	37.6
1980	9.3	1,179	126	3,094	332	4,273	458	299	38.4
1985	9.5	1,158	122	3,189	336	4,347	457	367	40.2
1990	9.4	1,097	117	3,953	423	5,050	540	458	41.9
1995	9.7	1,131	117	5,969	616	7,100	732	524	43.7
1996	9.4	1,140	121	5,145	545	6,285	666	541	43.5
1997	9.2	1,214	131	5,143	556	6,357	687	718	43.2
1998	9.4	1,345	144	5,299	566	6,644	710	812	43.3
1999	10.7	1,264	118	5,096	476	6,360	595	1,065	47.2
2000	10.2	1,363	133	5,268	515	6,631	648	1,147	

Portugal

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	7.1	216	30	788	111	1,004	141	86	7.8
1975	7.1	210	30	1,077	152	1,288	182	107	8.3
1980	6.8	277	41	1,684	246	1,961	287	171	9.6
1985	6.0	332	55	1,589	263	1,921	318	216	11.0
1990	7.2	476	66	1,849	256	2,325	322	319	11.0
1995	4.6	708	155	1,687	368	2,396	523	512	14.8
1996	4.6	652	142	1,580	345	2,231	488	442	15.5
1997	4.6	787	169	1,598	344	2,384	513	530	17.1
1998	4.7	733	156	1,647	351	2,380	508	479	16.4
1999	4.5	775	172	1,539	341	2,314	513	480	13.9
2000	4.4	776	176	1,291	292	2,066	468	525	14.1

## Royaume-Uni/United Kingdom

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	14.4	1,293	90	1,601	111	2894	200	63	23.8
1975	14.0	1,157	83	1,670	119	2827	202	89	24.0
1980	13.7	1,000	73	1,797	131	2796	204	125	24.4
1985	10.7	958	90	1,815	170	2773	260	278	23.5
1990	8.2	964	118	2001	245	2965	363	465	26.1
1995	6.2	785	127	1,769	287	2554	414		24.6
1996				1937					
1997				2063					
1998		1,042		2167		3,209			
1999		1,102		2261		3,363			
2000		1,113		2364		3,477			29.1

## Suède/Sweden

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	3.9	1,400	357	398	101	1,797	458	303	9.3
1975	3.5	1,319	374	499	142	1,818	516	291	8.7
1980	3.3	1,399	424	597	181	1,995	605	347	8.7
1985	3.2	1,538	475	585	180	2123	655	445	9.3
1990	2.6	1,707	648	563	214	2270	862	671	9.1
1995	2.2	1,896	856	636	287	2531	1,144	919	10.5
1996	2.2	1,832	819	633	283	2465	1,102	920	10.7
1997	1.9	1,387	730	666	351	2053	1,080	790	9.9
1998	1.8	1,416	771	695	378	2111	1,149	828	10.1
1999	1.8	1,457	818	752	423	2209	1,241	748	10.5
2000	1.0	1,551	1,535	604	598	2154	2133	804	

## Suisse/Switzerland

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	13.5	2175	161	2676	198	4,851	359	209	30.1
1975	13.5	1,695	125	2621	194	4,315	319	157	29.8
1980	12.7	2413	190	2986	235	5,399	426	241	32.2
1985	12.1	2265	187	3,014	249	5,279	436	245	35.1
1990	12.3	2700	219	3,552	289	6,252	508	318	40.2
1995	10.9	2648	242	3,624	331	6,272	573	413	38.6
1996	10.6	2408	227	3,735	351	6,142	578	355	40.1
1997	10.5	2690	257	4,024	385	6,714	642	408	39.2
1998	10.3	2897	280	4,095	396	6,992	677	454	41.8
1999	9.8	3,178	324	4,179	426	7,358	750	490	41.0
2000	9.3	3,432	370	4,136	446	7,568	815	550	43.0



## Pays d'Europe Centrale et Orientale/Central and Eastern Europe

### Albanie/Albania

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970		786		1,246		2032			
1975		1,055		1,423		2478			
1980		1,415							
1985									
1990	866.0	1,156	2022						
1995	7.1	78	11	292	41	371	52	26	1.7
1996	7.8	94	12	376	48	470	60	20	2.3
1997	6.7	51	8	213	32	264	39	11	1.6
1998									
1999	0.0	59		274		333			
2000	0.0	59		274		333			

### Ex-Rép. yougoslave de Macédoine/The former Republic of Macedonia

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970									
1975									
1980	7.6	1,058	140	532	70	1,590	210	312	8.0
1985	8.1	1,437	177	603	74	2041	252	418	8.7
1990	8.7	1,105	128	510	59	1,615	187	316	7.5
1995	7.1	241	34	93	13	334	47	69	4.1
1996	6.3	388	62	171	27	559	89	111	4.6
1997	6.3	401	64	202	32	602	96	115	4.0
1998	6.1	584	95	215	35	798	130	168	3.9
1999	6.0	544	90	215	36	758	126	156	4.0
2000	5.9	754	127	252	42	1,006	170	217	4.5

### Bosnie-Herzégovine/Bosnia-Herzegovina

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1997	7.1	52	7	42	6	93	13		3.3
1998	7.2	84	12	54	7	139	19		3.8
1999	7.2	142	20	50	7	192	27	44	2.5
2000	7.5	227	30	50	7	276	37	79	2.6

## Bulgarie/Bulgaria

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	12.9	3,262	253	1,483	115	4,746	369	404	11.6
1975	13.4	4,031	301	1,764	132	5,795	433	553	13.7
1980	16.9	4,073	242	1,625	96	5,698	338	474	10.8
1985	17.3	4,229	244	1,812	105	6,041	349	429	14.5
1990	19.1	3,289	173	1,814	95	5,102	268	333	13.4
1995	13.4	2002	150	1,093	82	3,095	232	221	11.1
1996	11.4	1,751	154	1,180	104	2931	258	202	10.5
1997	12.8	1,725	135	1,371	107	3,097	242	203	10.6
1998	10.0	1,425	143	1,105	111	2530	254	179	9.6
1999	10.8	1,214	112	890	82	2104	195	166	9.5
2000	9.0	1,282	142	804	89	2086	231	186	8.4

## Croatie/Croatia

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	13.6	2354	173	1,548	114	3,902	287		13.6
1975	14.8	2631	178	1,456	99	4,088	277	435	13.5
1980	16.3	3,103	190	1,485	91	4,588	281	588	14.5
1985	17.4	3,554	204	1,664	96	5,218	300	614	16.1
1990	16.2	2690	166	1,412	87	4,102	253	476	14.7
1995	9.5	860	91	411	43	1,271	134	303	10.9
1996	8.4	630	75	377	45	1,007	120	263	10.0
1997	8.4	629	75	360	43	989	118	267	10.0
1998	7.6	672	89	338	45	1,010	133	285	10.0
1999	7.1	618	87	346	48	964	135	164	9.4
2000	6.8	656	96	365	54	1,021	150	179	9.6

## Estonie/Estonia

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970		4,766	1,026			5,792			
1975		5,769	1,390			7,159			
1980		6,561	1,564			8,125			
1985		6,389	1,634			8,023			
1990		6,800	1,472			8,272			
1995	8.1	3,500	433	412	51	3,913	484	476	7.9
1996	7.9	3,818	486	303	39	4,121	524	501	7.4
1997	7.4	4,975	671	271	37	5,246	708	598	8.3
1998	6.6	5,990	903	244	37	6,234	940	733	8.8
1999	6.3	7,252	1,149	246	39	7,498	1,188	1,107	9.4
2000	5.9	7,997	1,364	270	46	8,267	1,410	1,322	9.6

Ex Tchécoslovaquie/former Czechoslovakia

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	14.7	4,191	286	1,419	97	5,610	383	385	18.0
1975	14.2	4,735	334	1,398	99	6,133	433	19.2	
1980	15.7	5,036	320	1,374	87	6,411	407	14	
1985	16.1	5,036	312	1,511	94	6,547	406	436	19.3
1990	18.0	4,528	251	1,475	82	6,003	333	410	19.2

Hongrie/Hungary

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	17.7	2255	127	1,480	84	3,736	211		12.3
1975	18.5	2844	154	1,566	85	4,410	239		13.7
1980	17.6	3,093	176	1,467	83	4,560	259		14.2
1985	17.2	2783	162	1,220	71	4,003	232	311	14.2
1990	16.5	2102	128	1,168	71	3,270	199	254	13.4
1995	9.0	940	105	779	87	1,720	192	195	12.8
1996	8.6	851	99	803	94	1,654	193	205	12.0
1997	7.7	922	121	815	107	1,738	227	273	13.0
1998	7.4	926	125	851	115	1,776	239	279	12.9
1999	7.3	890	122	856	118	1,745	240	287	12.3
2000	7.1	933	131	1,216	171	2149	302	317	12.0

Lettonie/Latvia

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970		5,957		1,438		7,394			
1975		7,224		1,781		9,006			
1980	12.3	7,389	602	1969	160	9,358	762		11.7
1985	12.1	8,361	689	2187	180	10,548	869		12.2
1990	9.9	7,734	781	2239	226	9,972	1,007	1,672	12.1
1995	8.8	4,044	459	569	65	4,613	523	806	8.1
1996	8.3	5,144	621	476	58	5,620	679	1,064	8.5
1997	7.7	5,789	755	478	62	6,268	817	1,320	8.9
1998	7.5	5,385	721	439	59	5,824	780	1,243	8.3
1999	6.9	5,060	738	408	59	5,468	797	1,312	7.6
2000	6.6	5,710	869	307	47	6,017	916	1,455	7.8

Lituanie/Lithuania

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970		6,733		1,058		7,791			
1975		8,324		1,294		9,618			
1980		9,082		1,623		10,705			
1985		10,391		1,697		12087			
1990	9.4	9,595	1,025	1,814	194	11,409	1,219		
1995	8.7	3,606	412	564	65	4,171	477		
1996	8.6	4,058	473	478	56	4,535	529		
1997	8.4	4,315	513	421	50	4,737	563		
1998	8.5	4,137	488	400	47	4,537	536	637	7.8
1999	8.8	4,120	469	391	45	4,511	514	579	7.7
2000	8.2	4,681	571	321	39	5,002	610	678	8.0

## Pologne/Poland

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	13.5	3,682	272	1,383	102	5,065	375	429	13.4
1975	13.4	4,775	356	1,604	119	6,379	475	538	15.7
1980	13.4	4,878	365	1,704	127	6,582	492	573	15.6
1985	14.0	4,400	315	1,924	138	6,325	452	586	15.0
1990	12.8	3,118	243	1,921	150	5,038	393	637	14.3
1995	10.0	2844	283	874	87	3,717	371	711	12.2
1996	9.9	2878	289	846	85	3,724	374	684	12.4
1997	9.7	2901	299	854	88	3,755	387	662	12.5
1998	9.4	2625	280	886	94	3,511	374	697	12.2
1999	8.9	2406	270	940	105	3,346	375	574	12.2
2000	8.1	2394	296	873	108	3,268	403	415	11.8

## République slovaque/Slovakia

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1995	14.4	3,752	260	1,146	79	4,898	339	376	17.6
1996	14.3	3,234	227	1,026	72	4,261	299	375	16.4
1997	13.5	3,375	250	844	63	4,219	313	431	17.0
1998	13.5	3,206	238	850	63	4,056	301	432	16.1
1999	13.4	2693	202	810	61	3,504	262	329	15.6
2000	12.8	3,068	240	784	61	3,851	302	416	15.4

## République tchèque/Czech Republic

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1995	10.9	2400	219	851	78	3,251	297	303	16.9
1996	10.7	2367	222	860	81	3,226	302	304	16.3
1997	10.3	2199	214	818	80	3,016	293	283	15.3
1998	9.7	1939	200	742	77	2682	276	262	14.5
1999	9.5	1,757	184	740	78	2497	262	255	14.5
2000	9.2	1,839	200	776	84	2615	284	294	14.9

## Roumanie/Romania

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	15.6	3,917	251	1,616	103	5,533	354		11.8
1975	16.0	5,195	324	2027	126	7,223	451		14.2
1980	17.0	5,834	342	2090	123	7,924	465	449	15.1
1985	17.7	5,726	323	2777	157	8,504	480	413	14.0
1990	21.8	4,297	197	2695	123	6,992	320	294	13.5
1995	13.1	2113	162	1,660	127	3,773	289	151	10.8
1996	12.2	2122	173	1,612	132	3,734	305	245	11.0
1997	11.9	1936	163	1,388	117	3,324	280	220	10.8
1998	9.2	1,547	168	1,181	128	2728	295	114	9.8
1999	9.3	1,290	139	1,083	117	2373	256	104	8.7
2000	9.2	1,443	157	1,024	111	2467	268	139	8.6

Slovénie/Slovenia

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	17.8	3,123	176	1,307	74	4,430	249		21.0
1975	18.2	2963	163	1,522	84	4,485	247		21.6
1980	19.4	3,640	188	1,357	70	4,997	258		23.0
1985	20.7	4,057	196	1,576	76	5,633	272		24.6
1990	17.8	3,522	198	1,196	67	4,718	265	484	21.3
1995	8.2	2399	293	495	60	2894	353	339	15.9
1996	8.1	1951	241	510	63	2461	304	310	15.3
1997	7.8	2184	279	513	65	2697	344	353	15.3
1998	7.6	2192	288	537	70	2729	358	359	15.0
1999	7.5	2140	284	519	69	2658	353	403	15.1
2000	7.5	2162	288	587	78	2749	366	415	15.4

Turquie/Turkey

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	8.2	704	85	696	84	1,400	170	323	5.4
1975	8.1	815	101	568	70	1,383	171	372	4.8
1980	6.3	599	96	716	114	1,315	210	217	4.3
1985	6.6	922	140	773	117	1,695	257	342	5.4
1990	5.8	922	158	760	130	1,683	288	354	5.4
1995	5.2	984	188	678	130	1,662	317	423	5.1
1996	5.1	1,023	202	608	120	1,631	322	456	5.2
1997	4.9	1,102	224	679	138	1,781	363	521	5.4
1998	4.9	962	198	716	147	1,677	345	466	5.1
1999	5.6	936	167	708	126	1,644	293	450	5.1
2000	5.4	1,113	204	673	124	1,785	328	540	5.3

Yougoslavie/Yugoslavia

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	13.0	1,871	144	1,063	82	2934	225	313	11.7
1975	14.5	2149	148	1,022	71	3,171	219	416	12.6
1980	15.1	2643	175	1,098	73	3,741	248	554	13.4
1985	16.8	3,094	185	1,293	77	4,386	262	545	15.1
1990	14.8	2439	165	1,193	81	3,633	246	445	13.8
1995	9.8	362	37	648	66	1,010	103		
1996	9.8	512	52	451	46	963	98		
1997	9.2	603	66	434	47	1,037	113		
1998	9.0	613	68	399	45	1,013	113	120	7.3
1999	8.7	312	36	209	24	522	60	77	4.8
2000		503		323		826			

## Communauté des Etats Indépendants/Commonwealth of Independent States

### Bélarus/Belarus

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	16.9	9,240	548	1,294	77	10,534	625		12.0
1975	17.2	11,446	665	1,652	96	13,098	761		14.1
1980	18.0	12,134	673	1,948	108	14,082	781		15.0
1985	16.9	13,417	796	2,515	149	15,932	945		16.0
1990	16.1	13,744	856	3,071	191	16,815	1,047	1,654	18.0
1995	13.6	4,602	338	2,256	166	6,859	503	643	11.1
1996	14.0	4,691	335	2,102	150	6,792	484		10.9
1997	14.3	5,528	386	2,329	163	7,858	548		11.1
1998	14.6	5,491	377	2,399	165	7,890	542		10.8
1999	14.2	5,528	389	3,055	215	8,583	604		10.5
2000	14.2	5,701	403	3,215	227	8,916	630		10.7

### Fédération russe/Russian Federation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	14.8	18,453	1,248	1,963	133	20,417	1,381		
1975	15.0	23,409	1,562	2,260	151	25,669	1,713		
1980	15.4	24,259	1,570	2,413	156	26,672	1,727		
1985	14.3	25,662	1,793	2,581	180	28,243	1,973		
1990	21.4	28,933	1,354	3,147	147	32,080	1,502		
1995	18.7	13,889	741	2,200	117	16,088	858		14.9
1996	18.1	12,990	719	2,081	115	15,071	835	1,711	13.8
1997	16.9	12,697	752	1,965	116	14,662	868	1,866	13.0
1998	14.8	11,834	800	1,458	99	13,293		1,722	12.0
1999	14.4	14,001	974	1,639	114	15,641	1,088	2,128	13.0
2000	15.0	13,912	925	1,533	102	15,445	1,027	2,186	14.2

### Moldova

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970									
1975									
1980									
1985									
1990									
1995	15.4	2,265	147	768	50	3,033	197		5.9
1996	14.4	2,100	146	665	46	2,765	192		5.4
1997	13.1	2,131	163	597	46	2,728	208		4.4
1998	13.4	2,176	162	538	40	2,714	202	188	4.4
1999	9.3	1,081	116	301	32	1,382	148	103	3.3
2000	10.8	1,350	125	277	26	1,627	151	132	3.2

Ukraine

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1995	18.6	8,659	465	2820	151	11,479	616	368	12.6
1996	18.1	7,229	400	2614	145	9,843	544	726	11.4
1997	16.7	7,116	427	2419	145	9,535	572	1446	10.7
1998	16.6	7,050	426	2218	134	9,268	560	794	10.5
1999	16.4	6,957	425	2118	129	9,075	554	679	10.4
2000	16.9	7,750	460	2321	138	10,071	597	931	10.9

**Autres pays/Other Countries**

Etats Unis/U.S.A.

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	1.7	3,304	1966	0	0	3,304		624	2.0
1975	1.5	3,326	2213	0	0	3,326		638	2.1
1980	1.5	4,114	2796	22	15	4,136		784	2.3
1985	1.1	4,321	3,952	26	24	4,347	3,976	901	2.0
1990	1.0	5,967	6,279	38	40	6,006	6,319	1,245	2.6
1995	0.9	7,919	8,990	36	41	7,955	9,031		3.3
1996	0.8	8,137	9,653	34	40	8,170	9,693	1,596	3.3
1997	0.9	8,372	9,772	35	41	8,407	9,813	1,550	3.5
1998	0.9	8,655	9,914	37	42	8,692	9,956	1,528	3.5
1999	0.9	9,048	10,317	37	42	9,085	10,359	1,529	3.6
2000	0.8	9,278	11,033	39	46	9,317	11,079	1,550	3.8

Japon/Japan

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1970	22.0	2943	134	9,082	413	12025	546	404	32.6
1975	20.2	2164	107	10,121	501	12285	608	366	32.0
1980	19.4	1,733	89	9,058	467	10,792	556	355	31.0
1985	13.3	1,029	77	9,498	713	10,527	791	490	29.9
1990	9.6	1,323	138	11,729	1,226	13,052	1,364	888	37.6
1995	9.6	1,229	129	12367	1,294	13,596	1,422	1,067	38.8
1996	9.2	1,223	132	12492	1,351	13,715	1,483	1,178	38.5
1997	9.0	1,206	134	12275	1,362	13,482	1,496	1,211	38.7
1998	8.8	1,124	128	12038	1,375	13,163	1,503	1,203	38.6
1999	8.5	1,107	130	11941	1,398	13,048	1,528	1,269	38.3
2000	7.8	1,081	139	11937	1,532	13,019	1,671	1,238	38.3

Source : Publication "Statistique Internationale des Chemins de fer/International Railway Statistics". UIC, Paris

TK : Tonnes-Kilomètres  
VK : Voyageurs-Kilomètres

Tkm : Tonnes-Kilomètres  
Pkm : Passengers-Kilomètres