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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

Working Party on Rail Transport

Sixtieth session

Geneva, 15-17 November 2006

Item 11 of the provisional agenda

**PRODUCTIVITY IN RAIL TRANSPORT\***

Transmitted by the International Union of Railways (UIC)

Note: Following the request of the Working Party at its fifty-ninth session (TRANS/SC.2/204, para. 28), the secretariat is reproducing below productivity data from UIC member railways, as well as the secretariat data for other UNECE member railways that are not UIC members, based on the following indicators adopted (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.

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\* The UNECE Transport Division has submitted the present document after the official document deadline due to resource constraints.

(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.

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RATIOS DES CHEMINS DE FER –RAILWAY RATIOS – 1970-2005

Année	Main d'oeuvre Staff		Transport fret Freight		Transport voyageurs Passengers		Trafic Traffic		Matériel Rolling stock	Lignes Lines	Energy Energie
	Agents par Km de ligne	VK+TK par agent	TK par Km de ligne	TK par agent	VK par Km de ligne	VK par agent	VK+TK par Km de ligne		TK par wagon	Trains-km par km	MJ par
Year	Employees per km of line	Pkm+TkM per employee	Tkm per km of line	Tkm per employee	Pkm per km of line	Pkm per employee	Pkm+TkM per km of line	Gross-ton-km per locomotive	Tkm per wagon	Train-km per km of line	MJ per gross ton-km
	en unités units		en milliers thousands								
	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)

**UNION EUROPÉENNE + AELE/EUROPEAN UNION + EFTA**

Allemagne/Germany

1970	14.6	267	2,487	170	1,411	97	3,898		239	19.5	
1975	14.8	265	2,391	161	1,535	103	3,926		219	20.1	
1980	13.3	322	2,784	210	1,489	112	4,272		262	20.8	
1985	12.7	350	2,890	227	1,563	123	4,453		259	20.7	
1990	11.8	336	2,469	210	1,489	127	3,958		244	20.9	
1995	7.1	441	1,666	236	1,451	205	3,116		283	20.6	
1996	6.3	504	1,663	264	1,507	240	3,170		282	20.8	
1997	6.1	567	1,889	311	1,551	256	3,439		324	21.8	
1998	5.5	636	1,930	351	1,565	285	3,494		358	22.9	
1999	7.5	513	1,891	253	1,941	260	3,832		377	25.1	
2000	5.0	832	2,099	424	2,023	408	4,122		405	26.9	
2003	6.9	576	2,052	297	1,931	279	3,982	62,674	615	24.5	226.7
2004	6.6	643	2,236	338	2,016	305	4,251	73,791	431	20.7	208.0
2005*	6.6	715	2,572	392	2,120	323	4,692	40,719	498	26.3	...

Autriche/Austria

1970	12.5	218	1,672	133	1,064	85	2,737		252	14.7	
1975	12.7	212	1,599	126	1,103	87	2,703		235	15.5	
1980	12.4	253	1,878	152	1,260	102	3,138		284	17.0	
1985	12.3	262	1,958	159	1,264	103	3,223		300	18.0	
1990	11.9	294	2,162	182	1,334	112	3,496		354	20.8	
1995	10.8	353	2,307	214	1,503	139	3,810		452	23.0	
1996	10.1	379	2,313	230	1,495	149	3,808		484	21.7	
1997	9.7	400	2,455	253	1,435	148	3,890		530	22.5	
1998	9.4	418	2,526	269	1,403	149	3,929		594	24.4	
1999	9.3	433	2,611	281	1,417	152	4,028		598	24.8	
2000	9.1	485	2,927	322	1,474	162	4,401		681	26.9	
2003	8.0	567	3,106	388	1,437	179	4,543	53,710	1,105	24.4	132.4
2004	8.0	593	3,308	411	1,462	182	4,770	55,012	1,084	24.3	123.3
2005*	8.2	538	2,951	358	1,485	180	4,436	34,849	1,072	23.0	...

## Belgique/Belgium

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)
1970	12.3	285	1,710	139	1,794	146	3,504		176	17.4	
1975	14.0	249	1,576	113	1,913	137	3,489		143	19.9	
1980	16.5	228	2,024	122	1,753	106	3,777		187	24.0	
1985	15.8	256	2,257	143	1,792	113	4,049		214	25.8	
1990	13.0	329	2,401	185	1,880	145	4,281		275	26.5	
1995	12.4	335	2,164	174	2,006	161	4,170		359	26.4	
1996	12.2	341	2,143	176	2,008	165	4,151		370	26.8	
1997	11.7	360	2,181	186	2,040	174	4,221		396	26.6	
1998	11.5	367	2,190	190	2,045	177	4,235		406	27.1	
1999	11.9	372	2,211	185	2,228	187	4,438		406	28.7	
2000	11.9	372	2,211	185	2,228	187	4,438		406	28.7	
2003	11.9	396	2,359	198	2,347	197	4,706	59,113	568	28.5	159.9
2004	11.2	415	2,175	195	2,454	220	4,628	61,693	571	28.8	150.5
2005*	10.5	464	2,295	218	2,583	246	4,879	24,499	637	27.6	...

## Espagne/Spain

1970	5.8	275	638	110	957	165	1,595		175	8.4	
1975	4.8	383	694	144	1,151	239	1,844		239	8.4	
1980	4.8	344	702	145	966	199	1,668		264	8.9	
1985	4.7	415	799	169	1,167	246	1,965		277	10.7	
1990	3.7	530	777	211	1,171	319	1,949		292	13.1	
1995	3.1	618	741	238	1,180	380	1,922		334	12.8	
1996	3.0	642	723	241	1,201	400	1,925		336	12.7	
1997	3.0	717	829	280	1,292	437	2,121		381	13.4	
1998	2.9	764	839	294	1,338	469	2,177		408	13.4	
1999	2.8	855	926	330	1,473	525	2,398		432	13.7	
2000	2.7	892	938	342	1,509	550	2,446		436	13.6	
2003	2.4	989	984	403	1,432	587	2,416	65,096	821	13.7	620.2
2004	2.4	934	825	347	1,395	587	2,220	65,124	694	13.7	688.2
2005	...	...	782	...	1,455	...	2,236	...	...	...	...

## Finlande/Finland

1970	4.8	304	1,080	226	372	78	1,452		275	7.3	
1975	4.9	330	1,088	222	530	108	1,617		287	7.5	
1980	4.7	402	1,372	290	529	112	1,901		388	7.4	
1985	4.5	426	1,367	305	546	122	1,914		436	7.4	
1990	3.4	578	1,424	414	568	165	1,992		550	7.0	
1995	2.6	832	1,626	624	541	208	2,167		636	7.0	
1996	2.5	809	1,503	591	555	218	2,058		597	6.9	
1997	2.5	916	1,680	683	576	234	2,256		721	7.5	
1998	2.4	945	1,685	704	576	241	2,260		755	7.6	
1999	2.3	971	1,671	719	585	252	2,256		750	7.6	
2000	2.2	1,053	1,727	788	582	265	2,308		800	7.7	
2003	1.9	1,191	1,717	894	571	297	2,288	49,405	887	8.2	127.2
2004	1.9	1,237	1,760	929	584	308	2,344	50,084	883	8.5	128.1
2005*	1.8	1,261	1,693	929	607	333	2,300	37,138	870	8.4	...

France

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)
1970	8.1	358	1,798	223	1,090	135	2,889		232	12.4	
1975	7.8	405	1,755	225	1,401	180	3,156		228	13.2	
1980	7.4	484	2,003	270	1,579	213	3,582		287	14.7	
1985	7.0	483	1,590	228	1,783	255	3,373		287	13.9	
1990	5.9	566	1,487	251	1,871	316	3,359		342	14.1	
1995	5.7	571	1,507	266	1,732	305	3,239		415	14.2	
1996	5.6	613	1,554	278	1,869	335	3,423		441	15.6	
1997	5.5	659	1,692	308	1,935	352	3,627		508	15.9	
1998	5.5	674	1,700	308	2,023	366	3,723		537	16.0	
1999	6.0	686	1,836	306	2,277	380	4,113		473	17.9	
2000	6.0	713	1,894	316	2,377	397	4,271		500	18.2	
2003	6.0	684	1,619	270	2,475	413	4,095	55,881	1,263	17.7	156.1
2004	5.9	703	1,585	271	2,531	432	4,116	57,479	1,236	17.8	159.6
2005*	5.7	699	1,390	243	2,601	455	3,990	23,938	1,164	17.1	...

Grèce/Greece

1970	4.9	209	264	54	750	154	1,014		76	7.3	
1975	5.0	250	368	74	874	176	1,242		89	7.1	
1980	4.9	188	331	67	595	121	926		75	6.1	
1985	6.1	164	298	49	704	115	1,002		69	6.6	
1990	5.4	194	245	46	796	148	1,041		56		
1995	5.1	149	118	23	634	125	752		26	7.4	
1996	4.7	178	136	29	708	149	844		30	7.8	
1997	4.7	187	127	27	753	160	879		37	7.4	
1998	4.7	172	137	29	675	143	812		118	7.3	
1999	4.6	181	142	31	689	150	830		92	7.3	
2000	4.2	242	185	45	820	197	1,006		123		
2003	3.7	228	189	51	652	177	841	21,514	131	6.8	664.2
2004	3.5	265	242	70	681	195	923	...	170	7.2	...
2005	3.2	303	238	75	720	228	958	...	191	6.9	...

Irlande/Rep. of Ireland

1970	10.2	51	249	24	266	26	515		56	5.2	
1975	10.1	72	283	28	448	44	731		73	5.4	
1980	9.1	92	321	35	519	57	840		144	6.8	
1985	8.0	104	309	38	526	65	835		308	7.0	
1990	6.1	154	303	50	631	104	934		322	7.3	
1995	5.7	170	308	54	661	116	969		330	6.8	
1996	5.6	170	292	52	663	118	954		348	7.9	
1997	5.5	179	268	49	713	130	981		320	8.0	
1998		286	244		744		989		286	8.1	
1999	2.7	379	276	100	764	279	1,039		282	8.0	
2000	2.8	351	256	92	724	259	980		264	8.0	
2003	3.0	343	207	68	834	274	1,042	45,649	253	7.8	410.1
2004	2.9	357	207	72	824	285	1,031	...	...	...	...
2005	2.8	381	158	55	928	326	1,086	...	327	9.7	...

## Italie/Italy

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)
1970	11.9	265	1,124	95	2,019	170	3,144		144	17.2	
1975	13.8	231	926	67	2,260	164	3,186		119	17.3	
1980	13.7	263	1,139	83	2,453	179	3,592		160	18.6	
1985	13.4	251	1,041	78	2,311	173	3,353		154	19.2	
1990	12.5	320	1,209	97	2,783	223	3,992		195	20.0	
1995	8.1	509	1,390	171	2,741	338	4,131		250	21.5	
1996	7.8	528	1,314	169	2,797	359	4,110		261	21.6	
1997	7.6	546	1,429	188	2,719	358	4,148		299	21.5	
1998	7.3	543	1,396	191	2,574	352	3,971		294	21.2	
1999	7.1	569	1,339	189	2,698	380	4,038		284	20.5	
2000	7.1	582	1,413	199	2,710	383	4,123		325	20.4	
2003	6.4	664	1,408	220	2,847	444	4,255	26,191	466	20.3	246.9
2004	6.3	658	1,296	207	2,818	451	4,115	26,897	429	21.0	229.3
2005*	6.1	676	1,286	210	2,844	465	4,130	10,668	472	20.5	...

## Luxembourg

1970	16.3	230	2,812	172	944	58	3,756		180	15.8	
1975	15.2	228	2,393	158	1,064	70	3,457		172	15.8	
1980	15.6	216	2,459	157	911	58	3,370		184	16.1	
1985	14.1	218	2,219	158	848	60	3,067		209	16.1	
1990	13.1	232	2,269	174	768	59	3,037		226	18.1	
1995	11.7	254	1,924	165	1,040	89	2,964		217	26.2	
1996	11.5	258	1,934	168	1,036	90	2,971		230	26.6	
1997	11.3	279	2,066	183	1,077	96	3,142		248	26.1	
1998	11.1	287	2,095	188	1,095	98	3,190		244	26.7	
1999	11.1	303	2,219	201	1,131	102	3,350		276	27.8	
2000	11.3	313	2,307	205	1,212	108	3,518		241	26.8	
2003	11.6	258	2,036	176	953	82	2,989	24,176	179	26.4	169.4
2004	11.2	269	2,040	182	967	86	3,007	23,774	187	26.1	190.7
2005*	11.1	218	1,425	129	989	89	2,415	15,385	130	27.9	...

## Norvège/Norway

1970	4.7	231	642	138	438	94	1,081		266	7.6	
1975	4.3	260	604	139	528	121	1,132		284	7.8	
1980	4.2	304	711	169	564	134	1,275		335	5.8	
1985	3.7	322	678	181	528	141	1,207		389	7.7	
1990	3.4	344	635	189	520	155	1,155		419	9.1	
1996	2.7	467	656	242	609	225	1,265		681	9.3	
1997	2.7	509	750	275	637	234	1,387		830	9.2	
1998	2.6	533	743	285	647	248	1,389		1,044	9.3	
1999	2.4	544	685	281	640	263	1,325		1,043	8.2	
2000	2.3	565	693	296	631	269	1,323		1,078	8.2	
2003	1.8	586	513	285	541	301	1,054	47,883	...	8.6	511.3
2004	1.7	342	...	...	586	342	586	55,670	...	...	430.4
2005	1.4	442	...	...	597	442	597	...	...	6.9	...

Pays-Bas/Netherlands

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)
1970	8.5	431	1,122	132	2,546	299	3,668		188	31.3	
1975	9.4	423	961	103	3,002	321	3,963		195	37.6	
1980	9.3	458	1,179	126	3,094	332	4,273		299	38.4	
1985	9.5	457	1,158	122	3,189	336	4,347		367	40.2	
1990	9.4	540	1,097	117	3,953	423	5,050		458	41.9	
1995	9.7	732	1,131	117	5,969	616	7,100		524	43.7	
1996	9.4	666	1,140	121	5,145	545	6,285		541	43.5	
1997	9.2	687	1,214	131	5,143	556	6,357		718	43.2	
1998	9.4	710	1,345	144	5,299	566	6,644		812	43.3	
1999	10.7	595	1,264	118	5,096	476	6,360		1,065	47.2	
2000	10.2	648	1,363	133	5,268	515	6,631		1,147		
2003	9.7	657	1,432	148	4,926	509	6,359	25,043	2,228	42.5	...
2004	9.2	716	1,541	168	5,015	547	6,556	...	...	41.0	...
2005	9.7	540	...	...	5,236	540	5,236	...	...	40.6	...

Portugal

1970	7.1	141	216	30	788	111	1,004		86	7.8	
1975	7.1	182	210	30	1,077	152	1,288		107	8.3	
1980	6.8	287	277	41	1,684	246	1,961		171	9.6	
1985	6.0	318	332	55	1,589	263	1,921		216	11.0	
1990	7.2	322	476	66	1,849	256	2,325		319	11.0	
1995	4.6	523	708	155	1,687	368	2,396		512	14.8	
1996	4.6	488	652	142	1,580	345	2,231		442	15.5	
1997	4.6	513	787	169	1,598	344	2,384		530	17.1	
1998	4.7	508	733	156	1,647	351	2,380		479	16.4	
1999	4.5	513	775	172	1,539	341	2,314		480	13.9	
2000	4.4	468	776	176	1,291	292	2,066		525	14.1	
2003	3.6	568	867	240	1,185	328	2,051	47,697	696	12.9	275.6
2004	3.2	628	800	251	1,199	376	1,999	56,711	690	12.8	267.8
2005	...	...	853	...	1,202	...	2,055	...	...	...	...

Royaume-Uni/United Kingdom

1970	14.4	200	1,293	90	1,601	111	2,894		63	23.8	
1975	14.0	202	1,157	83	1,670	119	2,827		89	24.0	
1980	13.7	204	1,000	73	1,797	131	2,796		125	24.4	
1985	10.7	260	958	90	1,815	170	2,773		278	23.5	
1990	8.2	363	964	118	2,001	245	2,965		465	26.1	
1995	6.2	414	785	127	1,769	287	2,554			24.6	
1996					1,937						
1997					2,063						
1998			1,042		2,167		3,209				
1999			1,102		2,261		3,363				
2000			1,113		2,364		3,477			29.1	
2003	1.2	3,113	1,172	1,006	2,453	2,106	3,625	...	32,502	26.4	...
2004	1.1	3,358	1,253	1,108	2,545	2,250	3,798	...	...	27.8	...
2005	2.0	1,565	1,018	506	2,130	1,059	3,148	...	...	29.3	...

## Suède/Sweden

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)
1970	3.9	458	1,400	357	398	101	1,797		303	9.3	
1975	3.5	516	1,319	374	499	142	1,818		291	8.7	
1980	3.3	605	1,399	424	597	181	1,995		347	8.7	
1985	3.2	655	1,538	475	585	180	2,123		445	9.3	
1990	2.6	862	1,707	648	563	214	2,270		671	9.1	
1995	2.2	1,144	1,896	856	636	287	2,531		919	10.5	
1996	2.2	1,102	1,832	819	633	283	2,465		920	10.7	
1997	1.9	1,080	1,387	730	666	351	2,053		790	9.9	
1998	1.8	1,149	1,416	771	695	378	2,111		828	10.1	
1999	1.8	1,241	1,457	818	752	423	2,209		748	10.5	
2000	1.0	2,133	1,551	1,535	604	598	2,154		804		
2003	1.3	1,407	1,300	996	535	410	1,835	24,135	1,511	8.8	875.1
2004	1.3	1,414	1,326	1,018	515	396	1,842	...	1,704	...	...
2005	...	...	...	...	...	...	...	...	...	...	...

## Suisse/Switzerland

1970	13.5	359	2,175	161	2,676	198	4,851		209	30.1	
1975	13.5	319	1,695	125	2,621	194	4,315		157	29.8	
1980	12.7	426	2,413	190	2,986	235	5,399		241	32.2	
1985	12.1	436	2,265	187	3,014	249	5,279		245	35.1	
1990	12.3	508	2,700	219	3,552	289	6,252		318	40.2	
1995	10.9	573	2,648	242	3,624	331	6,272		413	38.6	
1996	10.6	578	2,408	227	3,735	351	6,142		355	40.1	
1997	10.5	642	2,690	257	4,024	385	6,714		408	39.2	
1998	10.3	677	2,897	280	4,095	396	6,992		454	41.8	
1999	9.8	750	3,178	324	4,179	426	7,358		490	41.0	
2000	9.3	815	3,432	370	4,136	446	7,568		550	43.0	
2003	8.9	815	3,296	371	3,957	445	7,253	26,934	862	46.1	231.6
2004	8.4	784	2,745	329	3,806	456	6,552	30,656	812	46.6	201.2
2005*	8.6	971	3,784	439	4,593	532	8,377	11,984	1,055	51.1	...

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

## Albanie/Albania

1970			786		1,246		2,032				
1975			1,055		1,423		2,478				
1980			1,415								
1985											
1990	866.0		1,156	2,022							
1995	7.1	52	78	11	292	41	371		26	1.7	
1996	7.8	60	94	12	376	48	470		20	2.3	
1997	6.7	39	51	8	213	32	264		11	1.6	
1998											
1999	0.0		59		274		333				
2000	0.0		59		274		333				
2003	5.0	60	69	14	235	47	304	3,879	38	2.2	...
2004	...	...	...	...	...	...	...	...	...	...	...
2005*	4.9	45	58	12	163	33	221	1,103	32	2.0	...



Anc. Rép. de Macédoine/The former Yugoslav Republic of Macedonia

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)
1970											
1975											
1980	7.6	210	1,058	140	532	70	1,590		312	8.0	
1985	8.1	252	1,437	177	603	74	2,041		418	8.7	
1990	8.7	187	1,105	128	510	59	1,615		316	7.5	
1995	7.1	47	241	34	93	13	334		69	4.1	
1996	6.3	89	388	62	171	27	559		111	4.6	
1997	6.3	96	401	64	202	32	602		115	4.0	
1998	6.1	130	584	95	215	35	798		168	3.9	
1999	6.0	126	544	90	215	36	758		156	4.0	
2000	5.9	170	754	127	252	42	1,006		217	4.5	
2003	5.2	130	538	103	140	27	678	15,737	155	3.1	164.7
2004	...	...	621	...	136	...	757	...	...	...	...
2005*	4.2	214	758	181	134	32	893	14,839	348	3.2	...

Bosnie-Herzégovine/Bosnia and Herzegovina

1997	7.1	13	52	7	42	6	93			3.3	
1998	7.2	19	84	12	54	7	139			3.8	
1999	7.2	27	142	20	50	7	192		44	2.5	
2000	7.5	37	227	30	50	7	276		79	2.6	
2003	7.1	50	302	43	53	7	355	5,266	75	3.3	292.1
2004	...	...	612	...	53	...	665	...	...	...	...
2005	...	...	...	...	...	...	...	...	...	...	...

Bulgarie/Bulgaria

1970	12.9	369	3,262	253	1,483	115	4,746		404	11.6	
1975	13.4	433	4,031	301	1,764	132	5,795		553	13.7	
1980	16.9	338	4,073	242	1,625	96	5,698		474	10.8	
1985	17.3	349	4,229	244	1,812	105	6,041		429	14.5	
1990	19.1	268	3,289	173	1,814	95	5,102		333	13.4	
1995	13.4	232	2,002	150	1,093	82	3,095		221	11.1	
1996	11.4	258	1,751	154	1,180	104	2,931		202	10.5	
1997	12.8	242	1,725	135	1,371	107	3,097		203	10.6	
1998	10.0	254	1,425	143	1,105	111	2,530		179	9.6	
1999	10.8	195	1,214	112	890	82	2,104		166	9.5	
2000	9.0	231	1,282	142	804	89	2,086		186	8.4	
2003	8.0	226	1,221	153	583	73	1,804	28,422	378	8.4	164.0
2004	7.8	236	1,224	157	617	79	1,841	28,356	405	8.2	166.6
2005	8.1	225	1,243	153	575	71	1,818	...	426	...	...



Hongrie/Hungary

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)	
1970	17.7	211	2,255	127	1,480	84	3,736				12.3	
1975	18.5	239	2,844	154	1,566	85	4,410				13.7	
1980	17.6	259	3,093	176	1,467	83	4,560				14.2	
1985	17.2	232	2,783	162	1,220	71	4,003		311		14.2	
1990	16.5	199	2,102	128	1,168	71	3,270		254		13.4	
1995	9.0	192	940	105	779	87	1,720		195		12.8	
1996	8.6	193	851	99	803	94	1,654		205		12.0	
1997	7.7	227	922	121	815	107	1,738		273		13.0	
1998	7.4	239	926	125	851	115	1,776		279		12.9	
1999	7.3	240	890	122	856	118	1,745		287		12.3	
2000	7.1	302	933	131	1,216	171	2,149		317		12.0	
2003	6.9	284	1,005	147	939	137	1,945	28,599	434		12.4	221.8
2004	6.6	313	1,125	171	928	141	2,053	35,210	558		13.1	213.2
2005*	5.8	348	1,133	194	897	154	2,030	18,151	538		12.6	...

Lettonie/Latvia

1970			5,957		1,438		7,394					
1975			7,224		1,781		9,006					
1980	12.3	762	7,389	602	1,969	160	9,358				11.7	
1985	12.1	869	8,361	689	2,187	180	10,548				12.2	
1990	9.9	1,007	7,734	781	2,239	226	9,972		1,672		12.1	
1995	8.8	523	4,044	459	569	65	4,613		806		8.1	
1996	8.3	679	5,144	621	476	58	5,620		1,064		8.5	
1997	7.7	817	5,789	755	478	62	6,268		1,320		8.9	
1998	7.5	780	5,385	721	439	59	5,824		1,243		8.3	
1999	6.9	797	5,060	738	408	59	5,468		1,312		7.6	
2000	6.6	916	5,710	869	307	47	6,017		1,455		7.8	
2003	6.3	1,281	7,755	1,227	336	53	8,091	152,101	3,292		8.3	104.3
2004	6.6	1,184	7,435	1,130	357	54	7,792	152,756	3,165		8.1	111.3
2005	6.1	1,288	7,546	1,227	376	61	7,922	157,893	3,388		8.0	...

Lituanie/Lithuania

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		12,087					
1990	9.4	1,219	9,595	1,025	1,814	194	11,409					
1995	8.7	477	3,606	412	564	65	4,171					
1996	8.6	529	4,058	473	478	56	4,535					
1997	8.4	563	4,315	513	421	50	4,737					
1998	8.5	536	4,137	488	400	47	4,537		637		7.8	
1999	8.8	514	4,120	469	391	45	4,511		579		7.7	
2000	8.2	610	4,681	571	321	39	5,002		678		8.0	
2003	7.1	943	6,458	908	244	34	6,702	95,702	1,231		8.4	136.0
2004	6.6	1,022	6,530	985	249	37	6,779	97,587	1,258		8.0	133.3
2005	6.4	1,138	7,030	1,100	242	38	7,271	96,708	1,338		8.2	...



Roumanie/Romania

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)
1970	15.6	354	3,917	251	1,616	103	5,533			11.8	
1975	16.0	451	5,195	324	2,027	126	7,223			14.2	
1980	17.0	465	5,834	342	2,090	123	7,924		449	15.1	
1985	17.7	480	5,726	323	2,777	157	8,504		413	14.0	
1990	21.8	320	4,297	197	2,695	123	6,992		294	13.5	
1995	13.1	289	2,113	162	1,660	127	3,773		151	10.8	
1996	12.2	305	2,122	173	1,612	132	3,734		245	11.0	
1997	11.9	280	1,936	163	1,388	117	3,324		220	10.8	
1998	9.2	295	1,547	168	1,181	128	2,728		114	9.8	
1999	9.3	256	1,290	139	1,083	117	2,373		104	8.7	
2000	9.2	268	1,443	157	1,024	111	2,467		139	8.6	
2003	7.2	296	1,346	187	781	109	2,127	27,021	241	8.8	223.9
2004	6.4	327	1,315	204	796	123	2,111	27,185	258	8.9	245.0
2005	6.2	335	1,348	217	738	119	2,086	30,362	266	8.9	...

Slovénie/Slovenia

1970	17.8	249	3,123	176	1,307	74	4,430			21.0	
1975	18.2	247	2,963	163	1,522	84	4,485			21.6	
1980	19.4	258	3,640	188	1,357	70	4,997			23.0	
1985	20.7	272	4,057	196	1,576	76	5,633			24.6	
1990	17.8	265	3,522	198	1,196	67	4,718		484	21.3	
1995	8.2	353	2,399	293	495	60	2,894		339	15.9	
1996	8.1	304	1,951	241	510	63	2,461		310	15.3	
1997	7.8	344	2,184	279	513	65	2,697		353	15.3	
1998	7.6	358	2,192	288	537	70	2,729		359	15.0	
1999	7.5	353	2,140	284	519	69	2,658		403	15.1	
2000	7.5	366	2,162	288	587	78	2,749		415	15.4	
2003	6.9	477	2,664	386	632	92	3,296	47,566	759	15.8	149.7
2004	6.7	476	2,561	383	626	93	3,186	49,157	773	16.2	149.4
2005*	6.6	497	2,643	401	633	96	3,275	42,087	822	16.1	...

Turquie/Turkey

1970	8.2	170	704	85	696	84	1,400		323	5.4	
1975	8.1	171	815	101	568	70	1,383		372	4.8	
1980	6.3	210	599	96	716	114	1,315		217	4.3	
1985	6.6	257	922	140	773	117	1,695		342	5.4	
1990	5.8	288	922	158	760	130	1,683		354	5.4	
1995	5.2	317	984	188	678	130	1,662		423	5.1	
1996	5.1	322	1,023	202	608	120	1,631		456	5.2	
1997	4.9	363	1,102	224	679	138	1,781		521	5.4	
1998	4.9	345	962	198	716	147	1,677		466	5.1	
1999	5.6	293	936	167	708	126	1,644		450	5.1	
2000	5.4	328	1,113	204	673	124	1,785		540	5.3	
2003	4.0	420	990	249	676	170	1,666	38,761	536	4.8	427.3
2004	4.0	424	1,075	272	602	152	1,678	40,758	584	5.3	348.6
2005*	3.0	530	1,028	339	579	191	1,607	28,282	555	5.2	...





## Japon/Japan

	(a1)	(a2)	(b1)	(b2)	(c1)	(c2)	(d1)	(e)	(f)	(g)	(h)
1970	22.0	546	2,943	134	9,082	413	12,025		404	32.6	
1975	20.2	608	2,164	107	10,121	501	12,285		366	32.0	
1980	19.4	556	1,733	89	9,058	467	10,792		355	31.0	
1985	13.3	791	1,029	77	9,498	713	10,527		490	29.9	
1990	9.6	1,364	1,323	138	11,729	1,226	13,052		888	37.6	
1995	9.6	1,422	1,229	129	12,367	1,294	13,596		1,067	38.8	
1996	9.2	1,483	1,223	132	12,492	1,351	13,715		1,178	38.5	
1997	9.0	1,496	1,206	134	12,275	1,362	13,482		1,211	38.7	
1998	8.8	1,503	1,124	128	12,038	1,375	13,163		1,203	38.6	
1999	8.5	1,528	1,107	130	11,941	1,398	13,048		1,269	38.3	
2000	7.8	1,671	1,081	139	11,937	1,532	13,019		1,238	38.3	
2003	7.1	1,848	1,126	158	12,018	1,689	13,144	48,606	2,491	38.5	...
2004	6.8	1,937	1,107	163	12,079	1,775	13,185	53,490	2,434	38.4	...
2005	...	...	...	...	...	...	...	...	...	...	...

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

Energy balances of OECD and Non-OECD countries 2004 (IEA Statistics)

TK : Tonnes-Kilomètres

Tkm : Tonnes-Kilometres

VK : Voyageurs-Kilomètres

Pkm : Passengers-Kilometres

\* 2005 data are calculated on the basis of gross-ton-km freight, 2003 and 2004 data refer to gross-ton-km total.