

Changes in Modal Split of Freight Transport in Major Countries (Cargo)

Country	Items	1965		1970		1975	
Japan	JNR and JR	56.4	(30)	62.4	(18)	46.6	(13)
	Private railways	0.9	(1)	1.0	(-)	0.8	(-)
	Automobile	48.4	(26)	135.9	(39)	129.7	(36)
	Coastal shipping	80.6	(43)	151.2	(43)	183.6	(51)
	Domestic air	-	(-)	0.1	(-)	0.2	(-)
	Total	186.3	(100)	350.7	(100)	360.8	(100)
UK	Railways	25.2	(21)	26.8	(19)	20.9	(15)
	Roads	68.8	(57)	85.0	(62)	91.8	(68)
	Coastal shipping (oil products)	25.0	(21)	23.2	(17)	20.7	(13)
	Coastal shipping (others)	0.2	(-)	0.1	(-)	0.4	(-)
	Pipeline	1.3	(1)	3.0	(2)	5.9	(4)
	Total	121.6	(100)	138.1	(100)	139.7	(100)
West Germany	Railways	58.2	(34)	71.5	(33)	55.3	(26)
	Roads	62.5	(36)	78.0	(36)	96.0	(45)
	Inland waterways	43.6	(25)	48.8	(23)	47.6	(22)
	Air	0.1	(-)	0.1	(-)	0.2	(-)
	Pipeline	8.9	(5)	16.9	(8)	14.6	(7)
	Total	173.3	(100)	215.3	(100)	213.7	(100)
France	Railways	64.6	(44)	70.4	(37)	64.0	(35)
	Roads	54.0	(37)	79.9	(42)	78.5	(42)
	Inland waterways	12.5	(9)	14.2	(7)	11.9	(6)
	Air	0.2	(-)	0.5	(-)	1.1	(1)
	Pipeline	15.1	(10)	27.6	(14)	30.2	(16)
	Total	146.4	(100)	192.6	(100)	185.7	(100)
USA	Railways	1140.3	(43)	1240.8	(40)	1221.2	(37)
	Trucks	578.0	(22)	662.9	(21)	730.5	(22)
	Inland waterways	422.2	(16)	512.5	(16)	550.3	(17)
	Air	3.1	(-)	5.3	(1)	6.4	(-)
	Pipeline	493.0	(19)	693.5	(22)	815.8	(24)
	Total	2636.6	(100)	3115.1	(100)	3324.2	(100)

Sources: The Transport Economic Statistics Handbook (1994) for Japan, The Annual Abstract of Statistics 1994 for the UK, Verkehr in Zahlen (1992) for West Germany (however, figures for 1992 are preliminary), Le Memento des Statistiques, SNCF (1993) for France, and the Statistical Abstract of the United States (1994) for the USA

Change in Rail Freight Tonnage by Commodity (Carload)

(Unit: 1000 tonnes)

FY	Farm goods	Raw materials	Industrial products	Others	Total
1960	9,541 [8,114]	89,096 [67,769]	42,917 [33,094]	8,060 [-]	235,648 [195,011]
1965	10,479 [8,837]	87,037 [58,896]	62,832 [50,360]	10,166 [-]	250,525 [198,104]
1970	9,166 [7,970]	74,850 [43,243]	82,392 [67,502]	9,618 [-]	247,099 [189,788]
1975	6,953 [4,845]	58,625 [34,338]	67,529 [56,063]	39,839 [34,961]	172,316 [129,577]
1980	5,556 [3,517]	53,374 [27,223]	64,628 [51,898]	32,851 [29,026]	156,409 [111,664]
1985	1,494 [755]	32,617 [13,561]	36,381 [27,659]	16,222 [14,393]	86,714 [56,368]
1986	1,043 [443]	30,080 [12,208]	32,445 [24,827]	13,125 [11,543]	76,694 [49,022]
1987	1,861 [1,273]	22,083 [10,143]	42,963 [29,654]	961 [470]	67,867 [41,541]
1988	1,574 [1,054]	20,127 [7,926]	43,085 [30,161]	794 [415]	65,580 [39,556]
1989	1,328 [924]	19,784 [7,309]	42,337 [29,296]	782 [382]	64,231 [37,912]
1990	1,196 [821]	20,360 [7,702]	42,855 [29,309]	985 [407]	65,396 [38,239]
1991	898 [618]	19,672 [7,224]	42,202 [28,648]	926 [478]	63,704 [36,973]
1992	878 [599]	18,079 [6,612]	40,857 [27,645]	914 [433]	60,728 [35,289]

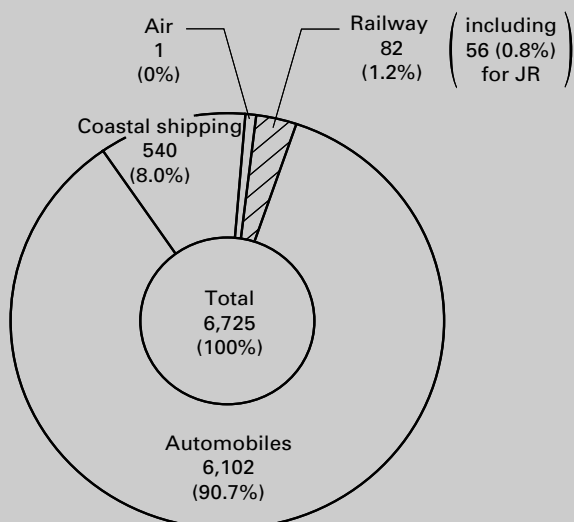
- Figures in parentheses for JR (Japan National Railways)
- Sources: The Private Railway Statistics Yearbook and the Land Transportation Statistics Handbook for private railways up to FY1960-1986, and data from JR Freight for figures for JR.
- Figures for JR for FY1960-1986 are for Japan National Railways, representing totals including freight handled without charge. Figures are rounded so totals may not tally. Furthermore, freight handled by mixed freight cars, freight carried without charge, freight carried for JNR business purposes and others are included in "Others".
- Sources: The Railway Statistics Yearbook for JR and private railway freight after FY1987. Furthermore, figures for JR are not comparable with figures up to FY1986 because they do not include freight handled without charge, and for other reasons.

(Unit: billion tonne-km)

1980	1985	1989	1990	1991	1992
37.0 (8)	21.6 (5)	24.7 (5)	26.7 (5)	26.7 (6)	26.2 (5)
0.7 (-)	0.5 (-)	0.5 (-)	0.5 (-)	0.5 (-)	0.4 (-)
178.9 (41)	205.9 (48)	260.7 (51)	272.2 (50)	281.6 (50)	279.4 (50)
222.2 (51)	205.8 (47)	224.7 (44)	244.5 (45)	248.2 (44)	248.0 (45)
0.3 (-)	0.5 (-)	0.8 (-)	0.8 (-)	0.8 (-)	0.8 (-)
439.1 (100)	434.3 (100)	511.4 (100)	544.7 (100)	557.8 (100)	554.8 (100)
17.6 (12)	15.3 (8)	17.3 (8)	15.8 (7)	15.5 (7)	15.3 (7)
95.9 (63)	103.2 (55)	137.8 (62)	136.3 (62)	130.0 (61)	126.0 (61)
41.4 (19)	38.9 (21)	34.1 (15)	32.1 (15)	31.7 (15)	30.1 (15)
0.4 (-)	18.7 (10)	23.8 (11)	23.6 (11)	26.0 (12)	25.0 (12)
10.1 (6)	11.2 (6)	9.8 (4)	11.0 (5)	11.1 (5)	11.2 (5)
165.4 (100)	187.3 (100)	222.8 (100)	218.8 (100)	214.3 (100)	207.6 (100)
64.9 (25)	64.0 (25)	62.1 (21)	61.8 (21)	63.0 (20)	56.8 (18)
124.4 (49)	132.2 (52)	160.3 (56)	169.8 (57)	187.7 (59)	192.9 (60)
51.4 (20)	48.2 (19)	54.0 (19)	54.8 (18)	54.3 (17)	55.5 (17)
0.3 (-)	0.3 (-)	0.4 (-)	0.4 (-)	0.4 (-)	0.5 (-)
14.3 (6)	10.5 (4)	11.2 (4)	13.3 (4)	13.5 (4)	13.3 (4)
255.3 (100)	255.2 (100)	288.0 (100)	300.1 (100)	318.9 (100)	319.0 (100)
69.5 (32)	55.8 (31)	53.2 (26)	51.5 (26)	51.5 (26)	50.4 (25)
97.9 (46)	89.1 (49)	116.7 (57)	114.8 (57)	117.2 (58)	120.0 (59)
12.2 (6)	8.4 (5)	7.3 (4)	7.2 (4)	6.8 (3)	6.9 (3)
2.2 (1)	3.0 (2)	3.9 (2)	4.2 (2)	4.0 (2)	4.1 (2)
33.3 (15)	24.2 (3)	23.0 (11)	20.5 (11)	22.5 (11)	23.0 (11)
215.1 (100)	180.5 (100)	201.1 (100)	198.2 (100)	202.0 (100)	204.4 (100)
1499.6 (38)	1440.1 (36)	1686.0 (37)	1723.2 (37)	1734.5 (37)	1781.2 (37)
893.0 (22)	981.5 (25)	1146.0 (25)	1182.6 (26)	1219.6 (26)	1330.1 (28)
654.9 (16)	614.6 (16)	714.0 (16)	746.6 (16)	743.4 (16)	730.5 (15)
8.0 (-)	11.3 (-)	16.0 (1)	16.1 (-)	16.1 (-)	- (-)
946.1 (24)	907.4 (23)	961.0 (21)	939.7 (21)	930.0 (21)	917.6 (20)
4001.6 (100)	3954.9 (100)	4523.0 (100)	4608.2 (100)	4643.6 (100)	4759.4 (100)

Modal Split of Freight Transport in Japan (FY1992)

Freight tonnage (Unit: million tonnes)



Freight tonne-km (Unit: billion tonne-km)

