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SURVEY OF INTERNATIONAL AIR TRANSPORT FARES AND RATES

September 1993

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Chapter 1 INTRODUCTION

TERMS OF REFERENCE, OBJECTIVES AND SCOPE OF THE SURVEY

1. This survey has been prepared pursuant to ICAO Assembly Resolution A21-26 Clause 1 a) by which the Assembly directed the Council to issue annually a survey of international air transport fares and rates. This report concerns data for September 1993 and is the twentieth in the series, the previous report being Circular 246 for September 1992.

2. In addition to these surveys of published fares and rates for scheduled transport of passengers and freight, the Organization publishes analytical studies of regional differences in the level of scheduled passenger fares and corresponding airline costs. The latter studies are carried out pursuant to Assembly Resolution A21-26 Clauses 1 b) and 1 d).

3. The purpose of the present report is to provide an overview of international fares and rates which are published in the multilateral airline tariff guides and are available to the general public, so as to permit comparisons of the levels of these fares and rates in different geographical areas.

4. As a basis the survey shows, for 17 different groups of international air routes, representative relationships between economy class normal passenger fares and general cargo rates for small shipments on the one hand and transport distances on the other hand for the sample month of September 1993. These relationships are compared amongst route groups and with world averages. A comparison is also made with September 1992 fares and rates levels. A sample survey is also presented, for each route group, of the relative availability and level of other types of fares and rates in September 1993.

5. In view of the increasing number of taxes and/or charges which are being levied on air passengers on top of the published air fare, the present survey also incorporates (in Chapter 3) an analysis of the over-all price of air travel including all the additional taxes and/or charges for the 17 international route groups.

DATA SOURCES

6. The main sources of data for this survey were the *ABC World Airways Guide* and the *ABC Air Cargo Guide*. The following basic data were obtained from magnetic tape provided by the publishers from the September 1993 issue of these guides for all international city-pairs with direct through-plane service:

- a) country and route group for each city-pair;
- b) economy class normal passenger fares available; and
- c) general cargo rates available for shipments up to 45 kg.

1

Additional data sources included Airline Passenger Tariffs, Air Tariffs, and The Air Cargo Tariffs publications. Information on supplementary taxes and/or charges levied on air passengers was also obtained from industry sources such as the Airline Passenger Tariffs, the Travel Information Manual and the Official Airline Guides.

ANALYSIS AND STATISTICAL METHODOLOGY

7. The basic data concerning the economy class normal passenger fares and general cargo rates were prepared and analysed with a view to providing information on three specific points:

- a) how fares and rates vary according to distance from one route group to another;
- b) how fares and rates changed compared with the previous year;
- c) how city-pairs are distributed by distance within each route group to show the relative importance of short-, medium- and long-haul routes.

8. These analyses involved the use of standard statistical techniques to establish the relationship between fares and rates on the one hand and distances on the other. This relationship was computed by means of least squares regression analysis. Fares and rates selected for each year were analysed as a function of distance for each of the 17 route groups and for the world. Basic statistical details concerning these equations for each route group are shown in Appendix 3.

SELECTION OF CITY-PAIRS AND ROUTE GROUPS

9. Economy class normal fares were analysed for a total of 10 582 city-pairs for which adequate data were available. General cargo rates for 4 882 city-pairs were also analysed. A city-pair was defined, for the purposes of this survey, on a directional basis. For example, Paris-Frankfurt was counted as one city-pair, while Frankfurt-Paris was counted as another.

10. Fares and rates were obtained for all those city-pairs listed in the ABC World Airways Guide and ABC Air Cargo Guide that met two criteria: firstly that each city be located in a different country; and secondly, that through-plane service, necessitating no connexion, be scheduled for September 1993. City-pairs for which only cabotage fares (domestic or between territories of the same State) were quoted were not listed. As far as cargo rates are concerned, the survey reflects the ABC Air Cargo Guide listings which include only those city-pairs between which there were all-cargo aircraft services or combination aircraft services operating with wide-body aircraft in September 1993.

11. Fares and rates between international city-pairs which met the above criteria were grouped on the basis of major route groups to permit regional analysis. These route groups, covering geographic areas described precisely in Appendix 1, are as follows:

- Route group 1: between North America and Central America/Caribbean
- Route group 2: between and within Central America and the Caribbean
- Route group 3: between Canada, Mexico and the United States
- Route group 4: between North America/Central America/Caribbean and South America
- Route group 5: local South America
- Route group 6: local Europe
- Route group 7: local Middle East

2

- Route group 8: local Africa
- Route group 9: between Europe and Middle East
- Route group 10: between Europe/Middle East and Africa
- Route group 11: North Atlantic
- Route group 12: Mid Atlantic
- Route group 13: South Atlantic
- Route group 14: local Asia/Pacific
- Route group 15: between Europe/Middle East/Africa and Asia/Pacific
- Route group 16: North and Mid Pacific
- Route group 17: South Pacific.

CITY-PAIR DISTANCES USED FOR ANALYSIS

12. The distances between pairs of cities selected for this survey are those defined by the shortest airline-operated routing. Where two points are linked by a non-stop airline service, the distance is termed the non-stop stage distance. This is in many cases synonymous with the "great circle" distance. However, this is not the case where the route flown departs from the most direct route due to the existence of restricted or prohibited areas, to navigational considerations or to other practical factors. Where two points are not linked by a non-stop airline service, the distance is determined by the non-stop stage distances of the sectors comprising the shortest airline operated route. These distances were computed within ICAO from the flight stage distances and flight itineraries provided by the publishers of the *ABC World Airways Guide*. All distances referred to in this survey are in kilometres.

SELECTION OF FARES AND RATES

13. The criteria used in selecting the passenger fares and the cargo rates for this survey were that they should be representative, available to the general public, and allow comparison on a world-wide basis. Furthermore, the fares and rates selected should be generally indicative of the level of international fares and rates as officially applied by the international scheduled airlines of the world.

14. There are two main categories of passenger fares on scheduled services, referred to as "normal" (unrestricted) fares and "special" fares. "Normal" (unrestricted) fares are those (in first, intermediate, or other class) which are available to members of the general public without limitations as to their purchase or use. In the past, "special" fares encompassed mostly promotional fares, i.e. fares lower than normal fares which are generally designed to generate revenue by attracting passengers who would not travel at the higher fares. These fares have conditions attached to them which limit their use in some instances (for example, requirements for advance purchase/reservations and/or limits on the period of stay).

15. In recent years, however, a new type of "special" fare has been created through the development of so-called "restricted" normal fares. These fares retain most of the characteristics historically associated with the normal fares, but they have restrictions on the availability or number of stopovers and, in some cases, on the ability to interline. On some routes, notably on the North Atlantic, these may be the only "normal" fares available in the economy class. Thus passengers who wish to retain all of the facilities traditionally associated with normal fares have to travel using the intermediate or first class fares. In most cases special fares are available for economy class round-trips only. Normal fares can, and special fares generally do, vary on a given route according to season. 16. Despite the appearance of the economy class "restricted" fares, economy class normal fares are still of major importance, and they also have a degree of commonality of definition among different routes which makes them susceptible to a route by route comparative analysis. Such a statistical analysis provides the foundation for this survey. Since, in some cases, economy class normal fares vary by season, and even by day of week or time of day, and since, in a few cases, different airlines may offer different economy class normal fares between the same city-pairs, the economy class normal fare selected for a city-pair for the purpose of this report was the *highest* available in the week commencing 1 September 1993. Return fares rather than one-way fares have been selected in order that they may be compared with special fares, most of which are available only on a round-trip basis; where return fares are available at less than twice the single fare, the former have been selected.

17. Special fares, even of a particular type, do not have the commonality of definition concomitant with normal fares. In addition to the economy class "restricted" fares discussed above, there are many other types of special fares, for example excursion fares (including advance purchase excursion fares); standby fares; budget fares; incentive, affinity and non-affinity group fares; individual and group inclusive tour fares; youth, family, military, pilgrim, local resident, student and teacher fares; etc. The most widely available of the special fares are excursion fares, which are generally restricted with respect to their validity in time. However, there is considerable variation from region to region in the combination of minimum and maximum travel duration and, in some cases, in the right to make intermediate stops at no extra cost.

18. In order to give an overview of the availability of different fare types among route groups on a comparative basis, fares have been classified into seven major groupings including first class normal, intermediate class normal and economy class normal fares as well as special fares in the case of economy class. The fares concerned are shown for a sample of 10 city-pairs in each route group. These samples show the different availability of the various fare groups and their level relative to the highest economy class normal fares. The 10 city-pairs selected from those used in the analysis of fare levels against distance are representative of each route group in terms of distances, traffic volumes, countries of origin and destination, and directionality of traffic.

19. It should be noted that in a few cases the tables of special fares may be incomplete, since there were seen to be some instances in 1993 of individual airlines offering special fares which were not quoted in any of the major multilateral airline guides. Also there are a number of fares which are not listed in the multilateral tariff manuals under the city-pairs concerned but are listed under the general rules sections of the manuals. These fares are sometimes agreed within IATA in the form of a resolution, established through single carrier filings, agreed on a bilateral basis or instituted through government orders. They generally apply to specific categories of people such as seamen, emigrants, students, etc. The level of these fares is usually specified as a percentage of normal fares. The applicability can range from a world-wide basis down to a city-pair. These fares are not shown in the tables of the sample city-pairs but a summary of their availability is given in Chapter 2. It should also be noted that while, in many instances, either discounts or special fares are available for children, these fares have not been included in this survey.

20. A similar distinction between "normal" and "special" categories can be made with respect to cargo rates, the main categories being general cargo rates and specific commodity rates. The general cargo rates are set at different levels according to the weight of the shipment, but regardless of the nature or value of the commodity being shipped. These rates generally vary according to the direction of shipment. Specific commodity rates are promotional rates, lower than general cargo rates at comparable weights, but involving restrictions (in terms of the nature of the commodity and minimum shipment sizes) designed to minimize dilution of revenue from general cargo rates. They are often very limited in terms of geographical application since they are introduced on a market by market basis where potential traffic is seen to exist.

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21. The basic general cargo rate is for shipments of up to 45 kg in weight (also called the N rate). At the 45 kg breakpoint there is generally a discount on the N rate in the order of 25 per cent. In route groups where air freight traffic is well developed, still lower rates may be available for shipments of 100, 500, or 1 000 kg, for example, and/or other large shipments. For the purpose of this survey, the basic rate selected was the under-45 kg general cargo rate, which is available in all regions of the world. It should be noted, however, that where the distance between the city-pairs is very short this "under-45 kg" rate may be overridden by the minimum charge which is established for the originating country (or, in some cases, city) concerned.

22. Since April 1988 a revised cargo tariff structure replacing the minimum charges, the general cargo rates and the specific commodity rates has been used between some European countries and from these countries to other European countries. This pricing system consists of a basic charge per consignment plus a rate per kg applicable to each kilogram in the consignment. For the purposes of this study, the cargo rate for the relevant city-pair was computed for a consignment of 45 kg.

23. The availability and level of certain other general cargo rates, and also specific commodity rates (as a group), are presented in comparative tables for a sample of 10 city-pairs in each route group. The criteria for selecting the 10 city-pairs were similar to those used in the case of passenger fares. The actual city-pairs selected may differ from those used for fares, however, as the basic selection of the city-pairs used in the analysis of rate levels against distance included only those city-pairs served by all-cargo aircraft or wide-body combination aircraft. Cargo rates such as bulk unitization (or freight-all-kinds) rates and discount rates for unit load devices are not presented separately since, where available, they bear a close relationship with one or other of the rate types presented. However, the text indicates route groups on which these rates are available.

24. It is important to note that the fares and rates used, while excluding any local taxes which are normally not included in the fares and rates as published in the multilateral tariff manuals (except as indicated in Chapter 3), represent an indication of the price paid by passengers and shippers and should not be confused with the actual revenue yield to the airline which is the weighted average of all the revenue received by the carrier (after any proration) from all normal and special fares and rates.

CURRENCIES

25. Since 1 October 1984 for rates and 1 July 1989 for fares, the IATA member airlines have established a world-wide system to negotiate and specify fares and rates in the local currency of the country of origin or in U.S. dollars (the latter usually for those countries where exchange rates suffer large fluctuations). Bankers' rates of exchange are used whenever currency conversion is required, such as when payment for air travel or for the shipment of merchandise by air is made in a country other than the one from where the travel or shipment commences. The currency adopted for comparative purposes throughout the survey is the United States dollar. The exchange rates used are the "IATA Clearing House Five Day Monthly Rate" for the month of August shown in Appendix 2.

SELECTION OF SURVEY PERIOD

26. The month of September was chosen as being one of the four sample months formerly covered by ICAO statistics on passenger traffic flow and is considered to be the most representative of year-round average fares and rates.

STRUCTURE OF THE SURVEY

27. Chapters 2, 3 and 4 present a comparative summary of the main results for the 17 major international route groups, together with certain estimated averages, for international passenger fares, international passenger air journey costs including all relevant supplementary taxes and/or charges and international cargo rates respectively. Chapter 5 presents a more detailed analysis of international passenger fares and cargo rates for each of the 17 international route groups separately including, in the case of route groups involving travel between two or more world regions, an analysis of fares and rates by direction. Appendix 1 gives a description of the specific geographic areas covered by each of the 17 international route groups used in this survey, and Appendices 2 and 3 cover the currency conversion rates and the regression equations, respectively, for September 1993.

Chapter 2 COMPARATIVE SUMMARY OF INTERNATIONAL PASSENGER FARES

INTRODUCTORY REMARKS

1. The objective of this chapter is to provide a world-wide perspective of international passenger fares, to compare them among route groups and the estimated world averages, and to compare the situation in September 1993 with that in September 1992. The findings are factual and descriptive in nature. By virtue of the scope of the survey the comparisons made are general, and relate only to the estimated values of fares as determined by the analyses. Within each route group, individual city-pairs will differ more or less from the general situation for the group as a whole, and no attempt has been made in this survey to weigh city-pairs according to the volume of traffic. In consequence, city-pairs which are relatively insignificant from the standpoint of traffic have been accorded as much importance as those between which large volumes of passenger traffic flow. This does not detract from the value of assessing the level of international airline fares from a regional and global point of view.

DISTRIBUTION OF INTERNATIONAL CITY-PAIRS BY ROUTE GROUP

2. An indication of the complexity of the international scheduled fares system is provided by the number of city-pairs with through-plane service for which economy class normal fares were obtained — a total of 10 582. In addition there were a limited number of city-pairs with through-plane service for which pertinent information on fares was missing in the multilateral airline guides, so that the number of the city-pairs above is less than the actual numbers with through-plane service. When it is considered that there may be in excess of fifty different passenger fares between two cities, a measure is obtained of the magnitude of the work involved in establishing fares on a global basis.

3. It may be seen from Table 2-1 that 3 255 city-pairs, about 31 per cent of the total analysed, were located in the route group "local Europe". Four route groups out of the seventeen accounted for 55 per cent of the total. In addition to "local Europe", these were "local Asia/Pacific", "between Europe/Middle East/Africa and Asia/Pacific" and "between Canada, Mexico and the United States". The three transatlantic route groups, "North Atlantic", "Mid Atlantic" and "South Atlantic" together accounted for about 8 per cent of the total number of international city-pairs, while the two transpacific route groups accounted for some 2 per cent of the total number of international city-pairs.

DISTRIBUTION OF INTERNATIONAL CITY-PAIRS BY DISTANCE

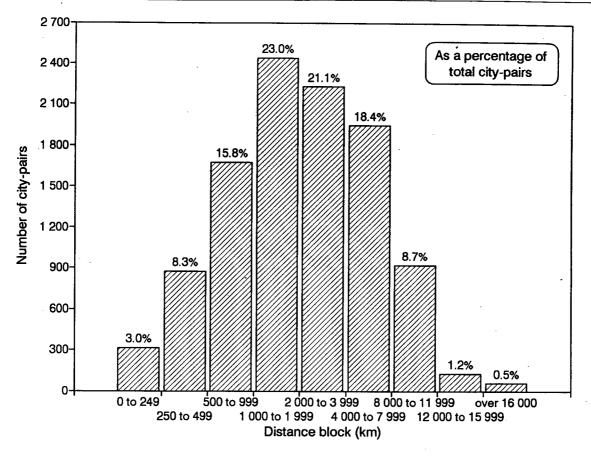
4. The average distance separating the 10 582 international city-pairs for which economy class normal fares were obtained was 3 255 km. This distance may be compared with an estimated average international passenger trip length in 1993 of 3 270 km. In comparing these two figures, it is important to bear in mind that the latter one is not only dependent on the volume of traffic travelling on different routes but also on the statistical base for counting airline passenger traffic. Thus a passenger who purchases a ticket between

Route groups	Number of city-pairs	Per cent	Cumulative per cent
International total — WORLD	10 582	100.0	-
Local Europe	3 255	30.8	30.8
Local Asia/Pacific	1 028	9.7	40.5
Between Europe/Middle East/Africa and Asia/Pacific	868	8.2	48.7
Between Canada, Mexico and the United States	664	6.3	55.0
Between Europe and Middle East	651	6.2	61.1
Europe Europe/Middle East and Africa	626	5.9	67.0
Local Africa	565	5.3	72.4
North Atlantic	548	5.2	77.5
Between North America and Central America/Caribbean	449	4.2	81.8
Between and within Central America and the Caribbean	386	3.6	85.4
Between North America/Central America/Caribbean			
and South America	367	3.5	88.9
Local Middle East	359	3.4	92.3
Mid Atlantic	226	2.1	94.4
Local South America	222	2.1	96.5
North and Mid Pacific	204	1.9	98.5
South Atlantic	116	1.1	99.5
South Pacific	48	0.5	100.0

Table 2-1. Distribution by route group of international city-pairs for which economy class normal fares were obtained (September 1993)

London and Tokyo, for example, may also decide to interrupt his journey at one or more cities en route. Although on a true ticket origin and destination basis this may be considered as one trip, in practice the passenger is considered as commencing a new journey after each stopover. The flight coupon surrendered to the airline at each new boarding therefore constitutes the statistical base for the airline passenger count rather than the ticket itself. When comparing fare and revenue yield data over time it should also be noted that the average city-pair distance has been falling steadily with the increasing introduction of non-stop and limited-stop services (it was 3 770 km in 1975, 3 446 km in 1980, 3 364 km in 1985 and 3 242 km in 1990), while the average passenger trip length has been on a generally rising trend (it was 2 510 km in 1975, 2 860 km in 1980, 3 040 km in 1985 and 3 250 km in 1990).

5. Graph 2-1 portrays the number and percentage distribution of city-pairs by distance block for the world sample of 10 582 city-pairs for which economy class normal fares were obtained in September 1993. Less than 3 per cent of the above city-pairs are separated by distances of less than 250 km, about 8 per cent fall in the distance block of 250-499 km, and almost 16 per cent in the block 500-999 km. Thus, over one-quarter of the sampled international city-pairs are located in the less than 1 000 km distance range, while only some 10 per cent are located in the more than 8 000 km distance range.



Graph 2-1. Distribution by distance block of city-pairs for which economy class normal fares were obtained (September 1993)

DISTRIBUTION OF INTERNATIONAL CITY-PAIRS BY ROUTE GROUP AND BY DISTANCE

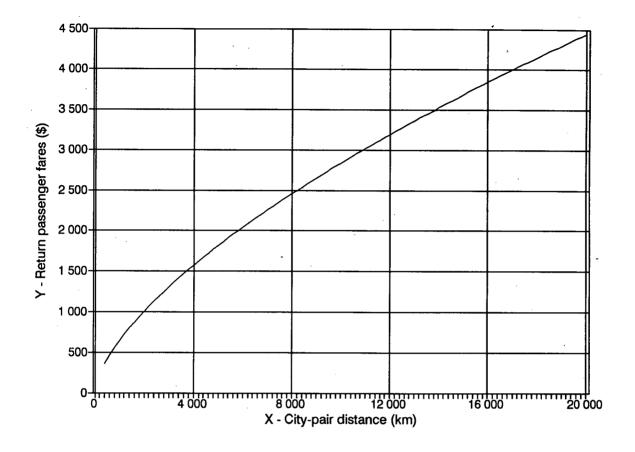
6. The average regional inter-city distance is shortest in the route group "between and within Central America and the Caribbean" at 653 km and in "local Europe" at 1 198 km, while the route groups with the longest average city-pair distance are the "North and Mid Pacific" at 11 051 km and the "South Atlantic" at 10 147 km. Table 2-2 compares the number of city-pairs in each route group that fall in the nine distance blocks selected for the purpose of this chapter.

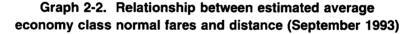
RELATIONSHIP BETWEEN ESTIMATED ECONOMY CLASS NORMAL FARES AND DISTANCE

7. As indicated in Chapter 1, there are two basic categories of passenger fares on scheduled services: normal and special fares. For the purposes of this survey, economy class normal fares have been defined as economy class fares which are available to members of the general public without limitations as to their purchase and use. However, for those few city-pairs where there is no economy class normal fare available, the highest economy class restricted fare has been used. The fares presented are return fares in order that they may be compared with special fares, most of which are available only on a round-trip basis.

		25		Numbe	er of city-pairs	by distance ((km)				
Route group	0 to 249	250 to 499	500 to 999	1 000 to 1 999	2 000 to 3 999	4 000 to 7 999	8 000 to 11 999	12 000 to 15 999	over 16 000	Number ot city- pairs	Average distance
International total - WORLD	316	874	1 677	2 439	2 232	1 944	917	127	56	10 582	3 255
Between North America and Central America/Caribbean	6	44	29	130	203	37	e H	-	-	449	2 245
Between and within Central America and the Caribbean	111	91	98	69	17	-		-	-	366	653
Between Canada, Mexico and the United States	23	57	133	193	228	28	2	-	-	. 664	1 772
Between North America/Central America/Caribbean and South America	8	13	41	45	96	118	45	1	-	367	4 152
ocal South America	4	18	38	76	61	25		-	-	222	1 979
ocal Europe	89	482	967	1 279	436	2	-	-	<u>.</u>	3 255	1 198
ocal Middle East	18	57	50	138	96			-		359	1 370
ocal Africa	34	56	144	163	134	34	3 2 1	-	· 	565	1 598
etween Europe and Middle East	÷.	2	20	59	380	190	. .:		-	651	3 282
etween Europe/Middle East and Africa	2	4	14	22	120	363	101	-		626	5 398
orth Atlantic	-	-	-		5	401	129	13	-	548	7 251
lid Atlantic	-	-	1000 C	2 0	a 	120	104	2	-	226	8 205
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ocal Asia/Pacific	21	48	141	224	321	242	31	*	ar 👝	1 028	2 936
etween Europe/Middlø East/Africa and Asia/Pacific	-	2	2	41	133	312	303	43	32	868	7 525
lorth and Mid Pacific	-		-	-	2	33	109	40	20	204	11 051
outh Pacific		12/20	24.72	_	20) <u>-</u> 23	20	18	8	2	48	8 845

Table 2-2. Distribution by distance block of city-pairs for which economy class normal fares were obtained (September 1993)





8. The relationship between estimated average economy class normal fares and distance in September 1993 may be observed in Graph 2-2. The estimated averages shown in this graph are for the world as a whole and may be used as a basis for comparing fares shown in Chapter 5 by route group. The curve of this graph has been statistically computed so as to reflect best the relationship between the fares and the distance (see Appendix 3 for further details).

COMPARATIVE LEVEL OF ECONOMY CLASS NORMAL FARES BY ROUTE GROUP

9. In September 1993, the lowest estimated average economy class normal fares for short distances were found on scheduled international routes on the "local South America" and "local Asia/Pacific" route groups (see Table 2-3). Fares on the "local South America" routes were also among the lowest at the middle range of distances, along with fares for routes between North America and Central America/ Caribbean ("North-Central America" in short form), between and within Central America and the Caribbean ("Central America"), between Canada, Mexico and the United States ("North America"), and between Europe/Middle East/Africa and Asia/ Pacific ("Europe-Asia/Pacific"). At long distances, the lowest fares were found on routes across the "North-Mid Pacific". The lowest average fare at the average distance in any route group was 11.8 cents per passenger-kilometre (at 11 100 km) on North-Mid Pacific routes.

				أهو	Cents per p	assenger-kil	ometre by d	istance (km)		
Rout	e group (short title)	94 14	250	500	1 000	2 000	4 000	8 000	12 000	16 000
nte	mational total - WORLD	1993	52.6	41.1	32.1	25.1	19.7	15.4	13.3	12.0
		(1992)	(53.3)	(41.8)	(32.8)	(25.7)	(20.1)	(15.8)	(13.7)	(12.4)
	North-Central America	1993	64.0	43.9	30.1	20.7	14.2	-	_	_
	Horar Contrain Amonda	(1992)	(58.8)	(40.5)	(27.9)	(19.2)	(13.2)	725	-	1 14
2	Central America	1993	45.3	32.2	22.8	16.2	-	-	_	-
	oonnal runanda	(1992)	(41.7)	(30.5)	(22.4)	(16.4)	-	-		-
	North America	1993	59.5	40.4	27.4	18.6	12.7	-	-	-
		(1992)	(51.6)	(35.9)	(25.0)	(17.4)	(12.1)	-	-	-
	North-South America	1993	-	25.4	22.0	19.0	16.4	14.2	-	-
10		(1992)	-	(25.5)	(21.9)	(18.8)	(16.1)	(13.8)	-	-
	South America	1993	27.8	23.6	20.0	17.0	14.5	-	-	-
510		(1992)	(27.4)	(23.4)	(19.9)	(16.9)	(14.4)	1 10	-	-
i.	Europe	1993	76.3	56.3	41.5	30.6	22.5	:: <u></u> -	-	
	-biobo	(1992)	(86.8)	(61.8)	(44.0)	(31.3)	(22.3)	-	-	-
	Middle East	1993	44.5	32.6	23.9	17.5	-	12211	100	
		(1992)	(42.9)	(31.9)	(23.8)	(17.7)		-	and the second s	-
8	Africa	1993	31.7	27.0	23.1	19.7	16.8	÷	-	-
		(1992)	(36.9)	(31.1)	(26.3)	(22.2)	(18.8)	100	17	-
).	Europe-Middle East	1993	-	38.1	32.3	27.4	23.3	-		-
	1	(1992)	i 📼	(36.4)	(32.0)	(28.2)	(24.8)	5.77	120	-
0.	Europe-Africa	1993	-	32.1	28.0	24.4	21.2	18.5		-
	*	(1992)	-	(29.6)	(27.3)	(25.3)	(23.4)	(21.6)	8 -	F. F
11.	North Atlantic	1993	-	-	·	-	21.5	16.9	14.7	-
		(1992)	- 1	1	-	-	(25.0)	(18.6)	(15.7)	-
12.	Mid Atlantic'	1993	1 4 -	-	-	÷.	-	-	-	-
	£ (4)	(1992)	. –	-	-		-	-		
13.	South Atlantic	1993	-	-	-	4	17.2	17.2	17.1	-
	ii.	(1992)	-	-	~	-	(18.8)	(18.9)	(18.9)	-
14.	Asia/Pacific	1993	26.4	23.7	21.2	18.9	17.0	15.2	14.2	-
		(1992)	(24.7)	(22.4)	(20.2)	(18.3)	(16.6)	(15.0)	(14.2)	-
15.	Europe-Asia/Pacific	1993	-	-	15.9	16.0	16.1	16.2	16.2	16.2
		(1992)	-	-	(9.9)	(11.7)	(13.8)	(16.3)	(17.9)	(19.2)
16.	North-Mid Pacific	1993	-	-	-	-		13.2	11.5	10.4
5		(1992)	-	1	-	-		(13.0)	(10.9)	(9.6)
17.	South Pacific	1993	-	-	-	-	20.9	17.6	15.9	14.8
		(1992)		_	-	40	(19.3)	(17.3)	(16.2)	(15.5)

Table 2-3. Comparison of average economy class normal fares per passenger-kilometre by route group and by distance

1. In September 1992 and 1993, fare levels across the Mid Atlantic were found to be more dependent on factors other than distance; hence no figures are shown for this route group.

10. In September 1993, the highest estimated average fare levels at shorter distances were seen for routes in "Europe". Fares for "Europe", "Europe-Middle East" and "Europe-Africa" routes were relatively high in the middle range of distances. For longest distance routes estimated average fare levels were relatively high for routes across the South Atlantic and between Europe-Asia/Pacific. The highest average fare at the average distance in any route group was 38.3 cents per passenger-kilometre (at 1 200 km) on routes in "Europe".

11. No estimated average fare levels against distance are shown in Table 2-3 for routes across the Mid Atlantic for September 1993 as these fares were found to be more dependent on other factors than distance.

CHANGES IN LEVEL OF ECONOMY CLASS NORMAL FARES BETWEEN 1992 AND 1993

12. Fares in this survey are generally expressed as the United States dollar equivalents, at the applicable exchange rates, of local selling fares (see Chapter 1). Hence the year-to-year changes in estimated fares include the effects of changes in the strength of the U.S. dollar relative to other currencies. Between September 1992 and September 1993, the U.S. dollar strengthened against many other world currencies. The local selling currency used in each country as well as the exchange rates to the U.S. dollar for each of the national currencies involved may be seen in Appendix 2. Where estimated fares are expressed in a currency against which the U.S. dollar had strengthened, the year-to-year increases in that currency are larger than those recorded when expressed in U.S. dollars. On the other hand, if estimated fares are expressed in a currency against which the U.S. dollar had weakened, the year-to-year increases in that currency are smaller than those recorded when expressed in U.S. dollars. The year-to-year increases in the survey therefore show a significant variation depending on the currency mix present in the individual route groups and the amount each currency has changed against the U.S. dollar during that same period.

13. As shown in Table 2-4, between September 1992 and September 1993 the estimated world average economy class normal fares expressed in U.S. dollars show decreases ranging from 1.5 per cent at 250 km to about 3 per cent at 16 000 km, whereas the same fares expressed in local selling currencies show increases between 13 per cent at the shorter distances and 4 per cent at the longer distances. The percentage changes between 1992 and 1993 shown for some individual route groups also vary considerably when fares are expressed in U.S. dollars or in the local selling currencies. It should be noted that in countries where the exchange rate of the national currency is volatile, air fares for international journeys are generally quoted in U.S. dollars. Hence, in those areas where the local currencies are linked to the U.S. dollar, or where the fares themselves are expressed in U.S. dollars, such as in most of the Americas (route groups 1 to 5), the U.S. dollar changes shown in the table tend to reflect the changes as expressed in selling currencies. The small difference shown between the change in fares expressed in U.S. dollar and those expressed in local selling currencies is due to the relative depreciation of the Canadian dollar and French Franc (used in the French Overseas Departments and Territories) against the U.S. dollar between September 1992 and September 1993.

14. The differences in the changes in fare levels on routes to, from and within Europe, Middle East and Africa when expressed in local selling currencies compared with those expressed in U.S. dollars reflect the relative depreciation of the currencies from countries in Europe, Middle East and Africa against the U.S. dollar between September 1992 and September 1993.

Table 2-4. Percentage change in average economy class normal fares by route group and by distance, between September 1992 and September 1993

		56		* 3	Percentage	change by dis	tance (km)		
Rou	te group (short title)	250	500	1 000	2 000	4 000	8 000	12 000	16 000
Inte	emational total — WORLD in U.S.\$ (in selling currencies)	-1.4 (13.0)	-1.7 (11.5)	-1.9 (10.0)	-2.2 (8.5)	-2.4 (7.0)	-2.7 (5.6)	-2.8 (4.8)	-2.9 (4.2)
1.	North-Central America in U.S.\$ (in selling currencies)	8.8 (8.5)	8.3 (8.3)	7.9 (8.2)	7.5 (8.0)	7.0 (7.8)	Ξ	12	
2.	Central America in U.S.\$ (in selling currencies)	8.6 (10.1)	5.3 (6.5)	2.2 (3.0)	-0.9 (-0.3)	. =	Ξ	Ξ	_
s.	North America in U.S.\$ (in selling currencies)	15.3 (20.7)	12.5 (17.0)	9.7 (13.4)	7.0 (9.9)	4.4 (6.6)	Ξ	Ξ	Ξ
	North-South America in U.S.\$ (in selling currencies)	-	-0.1 (0.1)	0.6 (0.8)	1.3 (1.6)	2.1 (2.3)	2.8 (3.1)	=	
	South America in U.S.\$ (in selling currencies)	1.4 (2.5)	1.1 (1.8)	0.8 (1.2)	0.5 (0.6)	0.2 (0.0)	=	Ξ	-
5.	Europe in U.S.\$ (in selling currencies)	-12.1 (7.3)	-8.9 (11.1)	-5.7 (15.0)	-2.3 (19.0)	1.2 (23.2)	о —	-	Ξ
	Middle East in U.S.\$ (in selling currencies)	3.8 (6.2)	2.1 (5.4)	0.4 (4.6)	-1.3 (3.8)	2 - 2 2 2	-	Ξ	-
J.	Africa in U.S.\$ (in selling currencies)	-14.1 (-2.1)	-13.2 (0.4)	-12.2 (3.0)	-11.2 (5.7)	-10.3 (8.4)	E.	Ξ	-
).	Europe-Middle East in U.S.\$ (in selling currencies)	2	4.7 (16.3)	0.9 (12.2)	-2.6 (8.3)	-6.1 (4.5)	Ξ	÷	-
0.	Europe-Africa in U.S.\$ (in selling currencies)	Ξ	8.7 (36.9)	2.4 (26.0)	-3.6 (16.0)	-9.2 (6.8)	-14.5 (-1.7)	-	Ξ
1.	North Atlantic in U.S.\$ (in selling currencies)		Ξ	Ξ	Ξ	-13.9 (1.4)	-9.3 (-0.5)	-6.5 (-1.5)	
2.	Mid Atlantic ¹ in U.S.\$ (in selling currencies)	= -	=	3	Ξ	·	-	±	-
3.	South Atlantic in U.S.\$ (in selling currencies)	Ξ	Ξ	Ξ	Ξ	-8.4 (3.7)	-8.8 (2.4)	-9.5 (0.6)	-
4.	Asia/Pacific in U.S.\$ (in selling currencies)	7.1 (7.3)	5.8 (5.9)	4.6 (4.5)	3.3 (3.1)	2.1 (1.8)	0.9 (0.4)	0.2 (-0.3)	=
5.	Europe-Asia/Pacific in U.S.\$ (in selling currencies)	Ξ	Ξ	60.4 (65.5)	36.7 (43.2)	16.5 (24.0)	-0.7 (7.3)	-9.6 (-1.4)	-15.4 (-7.1)
6.	North-Mid Pacific in U.S.\$ (in selling currencies)	.=	Ξ	=	=	-	1.7 (-1.1)	5.6 (3.7)	8.4 (7.1)
7.	South Pacific in U.S.\$ (in selling currencies)	Ξ	Ξ	1	Ξ	8.1 (12.7)	1.7 (4.6)	-1.9 (0.1)	-4.3 (-2.9)

 In September 1992 and 1993, fare levels across the Mid Atlantic were found to be more dependent on factors other than distance; hence no figures are shown for this route group. 15. On the North-Mid Pacific (route group 16), the relative strength of the Japanese yen continued to cause variations in the fare levels on this route group as a whole. Excluding fares from Japan, between September 1992 and September 1993 the estimated average fare levels expressed in U.S. dollars across the North-Mid Pacific show a decrease of about 1 per cent at the shorter distances and increases of just under 10 per cent at the longer ones. Similar changes in fares are shown when these are expressed in terms of local selling currencies. On the other hand, fares from Japan expressed in U.S. dollars showed increases of about 16 per cent at the shorter distances and some 22 per cent at the longer ones. However, in terms of Japanese yen, fares from Japan showed decreases ranging from about 6 per cent at the shorter distances to some 2 per cent at the longer ones between September 1992 and September 1993.

16. On routes involving the South Pacific (route group 17) the differences in the changes in fares when these are expressed in U.S. dollars compared with the same fares expressed in local selling currencies reflect the continued general appreciation of the U.S. dollar against the currencies of most countries in the South Pacific between September 1992 and September 1993.

17. Changes in the value of the U.S. dollar against the other world currencies are in part responsible for altering the relationship between fare levels for routes where fares are predominantly in U.S. dollars and those which are usually quoted in other local selling currencies. Table 2-5 demonstrates this effect by comparing at different periods in time the estimated average fare at 250 km of a route group with one of the highest fare levels (Europe) with that of a route group showing some of the lowest average fares (North America).

		ge fare at 250 km its per km)	Ratio local Europe/	U.S. dollar relative to European
Year	Local Europe	North America	North America	currencies
1985	36.3	25.3	1.4	
1987	54.0	26.4	2.1	Weakened
1991	71.7	47.1	1.5	Strengthened
1992	86.8	51.6	1.7	Weakened
1993	76.3	59.5	1.3	Strengtheneo

Table 2-5. Effect of changes in the value of the U.S. dollar on the relative level of fares

OTHER NORMAL FARES

18. Apart from the economy class normal fare, the other type of fare most widely available on a world-wide basis is the first class normal fare which, in September 1993, remained available for about 94 per cent of the international city-pairs analysed. As in the previous year, these fares were on average some 55 per cent higher than the applicable economy class normal fares. However, they were substantially higher (on average between some 95 and 125 per cent higher) on routes across the North Atlantic and the Pacific. In general on these routes intermediate class normal fares are widely available. Across the South Pacific first class or intermediate class restricted fares were also generally available in September 1993 but these fare types were less common across the North-Mid Pacific and fairly rare on routes across the North Atlantic.

19. In September 1993 intermediate class normal fares were available for about 65 per cent of international city-pairs, some 10 per cent less than in September 1992. This apparent decrease occurred because there is no agreement within IATA on the definition of an intermediate class for travel within Europe,

hence in September 1992 many airlines on those routes were still offering seats in the intermediate class cabin at the economy class normal fare level. This practice had almost disappeared in September 1993. Excluding routes within Europe, intermediate class fares were available on about 85 per cent of the remaining city-pairs (compared with 90 per cent in September 1992). In September 1993, intermediate class fares were generally scarce on routes between North America and Central America/Caribbean, between and within the Caribbean and Central America and within Europe. Where available, on routes other than within Europe, in September 1993 intermediate class normal fares were on average some 20 per cent higher than the applicable economy class normal fare, though they were on average some 30 per cent higher across the North Atlantic and the South Pacific.

ECONOMY CLASS SPECIAL FARES

20. "Restricted" normal fares, that is fares which would otherwise be classified as normal fares but which have restrictions on the availability or number of stopovers and, in some cases, on the ability to interline, have made inroads in certain route groups. Although restricted fares exist for all three classes of travel, the economy class restricted fares are those most widely available. In September 1993 they were available for about 23 per cent of the international city-pairs analysed compared with 20 per cent in September 1992. The increase in September 1993 is due to the wider availability of these fares on routes between and within Central America and the Caribbean. Elsewhere their availability varied widely from route group to route group. In addition to routes between and within Central America and the Caribbean, these fares remained commonly available on routes to/from and within North America and a few were available on routes within Middle East, between Europe and the Middle East, between Europe/Middle East and Africa, on routes across the Mid Atlantic and between Europe/Middle East/Africa and Asia/Pacific. However, in September 1993, economy class restricted fares were generally absent on the other route groups. Where available these fares were on average at a level some 20 per cent below that of the applicable normal fare.

21. The most widely offered type of special fare on scheduled international air services was, as in previous years, the excursion fare. The conditions attached to this fare type are generally minimal and characteristically pertain to the minimum/maximum stay requirements. Some stopovers are generally allowed at no extra cost and in some specific areas there are provisions for additional stopovers at a specified charge. The relative availability of excursion fares varies widely from route group to route group. This is due to a number of factors, such as the level of economy class normal fares, the relative importance of personal and tourist travel, the volume of traffic, and competitive considerations. In September 1993 excursion fares remained available for about 85 per cent of international city-pairs. Where available, these excursion fares were on average some 35 per cent lower than the economy class normal fares although they were substantially lower than the normal fares on routes across the South Pacific (some 50 per cent lower).

22. The existence of a wide range of other economy class special fares, in addition to those discussed above, was noted in Chapter 1. Such fares were, and in most instances still are, intended by the airlines to develop or promote travel by specific segments of the travel market. On some routes, however, the number of passengers travelling on such promotional fares currently represents a relatively high proportion of the traffic. Since promotional fares are lower than the normal fares, it follows that the lower unit revenues generated by promotional fare traffic must, in the long run, be either compensated for by higher average annual load factors or alternatively by revenues derived from normal fare-paying passengers, or some combination of both, to adequately cover the fully allocated costs involved.

23. The range of deep discount special fare types available and conditions applicable is wide and varies among geographical regions, nevertheless these may be broadly grouped into three major categories: advance purchase excursion fares ("Apex"), special excursion fares ("Pex") and "Budget" fares. The main condition attached to the Apex-type fares, as their name suggests, is that reservation and payment must be

made some period of time prior to travel. In addition they generally have minimum/maximum stay requirements, stopovers are usually not allowed (except on routes across the Pacific), combinations and transfers are often limited, voluntary re-routings are not allowed, and there is almost always a cancellation fee associated with them. Pex-type fares have similar conditions to the Apex-type fare except that they do not have an advance purchase requirement, although reservation and payment are still required to be made at the same time. Budget-type fares are generally only available on routes within Europe and across the North-Mid Pacific. They share most of the characteristics associated with the two other types of special fares discussed above. The major difference is that in general Budget-type fares do not have a minimum/maximum stay requirement and only the outbound journey needs to be booked at the time of payment.

24. A study of city-pair samples selected from each route group suggests that in September 1993 Apex and Pex-type fares, including Budget-type fares, existed in about 60 per cent of the cases; they predominate on routes in North America, Europe, across the North and South Atlantic and across the Pacific, but they remain fairly rare on routes between and within Central America and the Caribbean, within South America, within Middle East and between Europe/Middle East/Africa and Asia/Pacific. Where they exist, these fares were on average about 50 per cent lower than economy class normal fares.

25. In September 1993, group fares existed in some 30 per cent of the cases (compared with about 20 per cent in September 1992) at an average level some 45 per cent lower than the economy class normal fares.

26. From the study of city-pair samples, it can be concluded that relative to September 1992, there were no major developments in September 1993 with regard to the availability or level of special fares. However on several route groups the levels of some special fares moved either up or down relative to those of economy class normal fares, but with the exception of routes across the North-Mid Pacific, no other route group exhibited a consistent trend between September 1992 and September 1993. In the case of routes across the North-Mid Pacific, the apparent relative increase shown by all fare groups relative to the level of the highest economy class fare available occurred because for most city-pairs in this route group the latter is a restricted fare (no free stop-overs allowed). Hence in September 1993 for most city-pairs on routes across the North-Mid Pacific, the lowest unrestricted (normal) fare was the intermediate class normal fare.

PREFERENTIAL FARES

27. Preferential fares are those which are available only to passengers who meet certain requirements in terms of age, occupation, family relationship or affiliation to certain enterprises or associations. Listed below are some of the major types of preferential fares together with their area of application and level of discount offered. Other preferential fares not listed below may also have been available in September 1993. Because of their nature and the way in which they are established, preferential fares are discussed here in some detail and not generally covered in the individual route group analyses of Chapter 5.

28. Apart from the discounts for children which have a world-wide application, the fares with the widest area of application are those for seamen. IATA resolutions establish *individual fares for ships' crews* generally at a level 25 per cent below that of the applicable economy class normal fare. In September 1993 these fares were available on all international routes. *Group fares for ships' crews* also adopted through IATA have a smaller coverage. They were only applicable in the Europe/Middle East/Africa area (except within Middle East), between Europe/Middle East/Africa and Asia, and within Asia. Where available, these fares were some 25 to 50 per cent lower than the applicable economy class normal fare.

29. Other fares have been established through government orders to accommodate *seamen* (and in some cases their spouses and/or children) working on board vessels registered in Belgium, Denmark,

Finland, France, Germany, Greece, Ireland, Israel, Italy, Liberia, Luxembourg, Malaysia, Morocco, Kingdom of the Netherlands, Norway, Panama, Singapore, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom and the United States. With a few exceptions, these fares have world-wide application, however the actual area covered in practice is limited to the route network of the participating carriers. Where available, these fares were also some 25 to 45 per cent below the applicable economy class normal fare.

30. In September 1993, another fare type with a wide area of application was one for *students*. IATA resolutions covered this fare type for almost all areas except for most routes across the North Atlantic, the Pacific, within the Americas and between certain points within the Middle East. These fares were generally available at a level 25 per cent below the applicable economy class normal fare, although on routes within Africa and for specified points between the Middle East and Europe/Africa, they were available at a level 40 per cent lower than the applicable economy class normal fare, and for routes between Europe/Africa/Middle East and the South Asian Subcontinent/the People's Republic of China, they were available at levels 30 per cent lower than the applicable economy class normal fare. There were also a few student fares not covered by IATA agreements which were available for travel between certain countries in the Americas as well as for some routes across the Pacific.

31. The lack of student fares across the North Atlantic is in part offset by the availability of *youth fares* for travel between the United States/Canada and certain countries in Europe. In September 1993, other youth fares were also available, with some exceptions, for travel between the United States/Canada and Africa/Middle East, Mexico and the Middle East, within Europe, within the Middle East, between Europe and the Middle East, between points in Europe and Ethiopia/South Africa, between points in the Middle East and Western Africa, as well as from points in Europe to South East Asia, from Japan to points in Europe, Asia and the South Pacific, from the Republic of Korea to points in Europe and from the Philippines to points in South East Asia. Where available, these fares were at levels between 25 and 55 per cent lower than the applicable economy class fare. Depending on the area of application, youth fares also had some reservation restrictions (for example, in some cases reservations could only be made less than 72 hours before departure in either direction) and minimum and maximum stay requirements.

32. Preferential fare types with a more limited area of application are those for spouses and families. In September 1993, spouse fares were commonly available within Europe, on routes between Europe and Western Africa/South Africa and on routes from Japan to Europe, Asia/Pacific and the Americas. Family fares were applicable, with a few exceptions, between Europe and the Middle East, within Africa, within the Middle East, between the Middle East and Eastern Africa, from Japan to Canada, the United States and the South Pacific, and between the Scandinavian countries/Finland/Iceland and a number of countries in Europe. The general principle applying to these fares is that provided the head of the family pays the full amount of the first, intermediate or economy class normal fare, the spouse and/or other members of the family are generally allowed to travel at a fare level 50 per cent below the applicable normal fare.

33. In September 1993, *emigrant fares*, generally at levels between 25 to 45 per cent lower than the applicable economy class normal fares, were mainly found for travel from countries in the Asia/Pacific region to Canada and the United States, from a few European countries to Canada and countries in South America, and from countries in Europe, Asia, and South America to Australia. *Senior citizen fares* were mainly to be found on routes within the Middle East, between a few specified countries within Europe and between the United States/Canada and Europe, at levels some 10 to 50 per cent lower than the applicable fare.

34. Other preferential fares exist for *migrant workers* wishing to visit their home countries (mainly within Europe), *teachers* (within the Middle East), *pilgrims* (from points in the Middle East, from Europe to Jeddah, and from Africa and the South Asian Subcontinent to Jeddah/Medina) and *missionaries* (mainly from the United States to points in Europe). Preferential fares have also been established for United States citizens who are members of the *military* or who are *government officials*, and their families, for travel between the United States and points in Europe, and in Asia/Pacific. Most of these fares were at levels some 20 to 55 per cent below the applicable economy class normal fare in September 1993.

Chapter 3 THE IMPACT OF SUPPLEMENTARY TAXES OR CHARGES ON INTERNATIONAL AIR FARES

INTRODUCTORY REMARKS

1. As already indicated, the fares used in this survey are those available to the general public and published in the multilateral tariff manuals. These published fares generally encompass some local taxes and service or airport charges applied on the passenger. However, in many States supplementary taxes and/or charges are levied on top of the published fare. In view of the increasing proliferation of taxes and charges and the need to maintain consistency in comparisons of the price of international air travel among different route groups, this chapter contains an analysis comparing the price of air travel taking into account all those taxes and charges which a passenger has to pay in order to complete his/her journey.

2. The findings of this chapter are factual and descriptive in nature. No attempt was made to discuss the merits of the supplementary charges or taxes nor whether they should or should not be included in the published air fare (for more information on this subject, see Doc 8632 — *ICAO's Policies on Taxation in the Field of International Air Transport* and Doc 9082 — *Statements by the Council to Contracting States on Charges for Airports and Air Navigation Services*).

3. In keeping with the previous chapter, the comparisons made are general and relate only to the estimated values of fares and supplementary taxes and charges as determined by the analysis. Within each route group individual city-pairs will differ more or less from the general situation for the group as a whole. In particular there are differences between and within route groups on the number of city-pairs where supplementary taxes and charges apply and where these are included in the published air fare. Nevertheless the analysis does provide an over-all regional and global assessment of the impact of these supplementary taxes and charges on the over-all price level of an air journey.

TAXES AND CHARGES APPLICABLE TO INTERNATIONAL PASSENGER AIR TRANSPORT

4. The taxes or charges which passengers are required to pay in addition to the published air fare are generally established either as fixed amounts or as a percentage of the published fare. However some States use a variation of both these basic systems by establishing minimum and/or maximum limits to the tax expressed in percentage terms beyond which it becomes a fixed amount.

5. In September 1993, 176 States (or their overseas territories and dependencies) required passengers travelling on international scheduled air transport services to pay some form of additional tax or charge. In 173 of these States, passengers were required to pay some form of sales tax, airport service charge, embarkation tax and/or user fee (e.g. for security services, and customs and immigration services)

based on fixed amounts. In 117 of the 176 States, these additional taxes or charges were collected at the point of embarkation. In the remaining 59 States, however, they could be collected at the point of sale on behalf of the State or the relevant airport authority by the air carrier issuing the ticket.

6. In 43 of the 176 States, passengers were required to pay some form of local tax based on the percentage of the published fare and, with the exception of three States, these taxes were in addition to the ones discussed above. Taxes based on the percentage of the air fare are generally collected at the point of sale by the air carrier issuing the ticket and accrue to the State where the ticket is issued and/or the air journey is commenced.

7. Although in most States taxes or charges applied equally to all air passengers, in others the amounts to be paid differed between residents and non-residents or between citizens and aliens (for the purpose of this survey, if the State making this distinction was the originating State, then the taxes or charges applicable to residents or citizens were used; if on the other hand it was the State of turnaround, then the non-resident or alien taxes or charges were applied). Taxes or charges also varied on the basis of the route(s) flown, for example in a few States different levels of taxation or charges were applied for regional and for intercontinental routes.

8. A special situation prevails for fares for flights within and from Europe. As is still the case for most States in other regions of the world, airport authorities or national civil aviation administrations in Europe used to collect a passenger service charge at the point of embarkation. However, following recommendations by the Council of Europe in 1967 and the ICAO Facilitation Division in 1968, in 1970 the European Civil Aviation Conference (ECAC) adopted Recommendation ECAC/7-1 which recommended that, in order to reduce inconvenience to passengers and airport congestion, passenger service charges should be collected directly from the air carrier performing the air service. As shown in the ICAO Manual of Airport and Air Navigation Facility Tariffs (Doc 7100) passenger service charges do exist in Europe but are considered part of the normal cost of operation of an air carrier (such as landing and other airport charges) and are therefore taken into consideration by airlines and local civil aviation authorities when establishing the fare levels for flights originating in Europe.

9. Although for most States in Europe passenger service charges are included in the air fare, other supplementary taxes and charges may apply such as, for example, a security charge which in some European countries is collected at the point of sale. However, in general, for a large number of international flights within and from Europe, the passenger would have to pay little more than the published fare. A similar principle operates in some of the Francophone States in Western Africa.

DISTRIBUTION OF CITY-PAIRS WHERE SUPPLEMENTARY TAXES AND CHARGES ARE LEVIED

10. The data cover the same 10 582 city-pairs used in the analysis of the level of the economy class normal fare shown in Chapter 2. In September 1993 supplementary taxes and/or charges were applicable to either the outbound or inbound portion of the journey, or on both, for 9 995 city-pairs (94 per cent of the total world-wide). On a route group basis, supplementary taxes and/or charges were applicable on all routes within the Americas (route groups 1 to 5), across the North and South Atlantic (route groups 11 and 13) and those involving the Asia/Pacific region (route groups 14 to 17). Routes within the Middle East were the ones with the least number of city-pairs where supplementary taxes and/or charges apply (85 per cent of the total in that route group), followed by routes within Europe (88 per cent), between Europe and the Middle East (89 per cent), between Europe/Middle East and Africa (94 per cent), across the Mid Atlantic (96 per cent), and within Africa (99 per cent).

COMPARISON OF INTERNATIONAL AIR FARES AND SUPPLEMENTARY TAXES AND CHARGES

11. Table 3-1 shows the estimated average return economy class normal fare, first as published and second including supplementary taxes or charges, by route group at the average city-pair distance in the route group. Because these fares are based on a return journey, they also include any taxes or charges which would have applied for the inbound portion of the trip at the point of turnaround.

Table 3-1. Comparison of average return economy class normal fares, as published and with supplementary taxes and/or charges, by route group at average city-pair distances

		Aug ======		economy class September 1993	Taxes and charges additionation to the published fare1		
Rou	te group	Average city-pair distance (km)	As published (U.S.\$)	Plus taxes and or charges (U.S.\$)	(U.S.\$)	(% of published fare)	
	International average WORLD	3 300	1 389	1 432	43	3	
I.	International route groups:						
•	Between North America and Central America/Caribbean	2 200	863	915	53	6	
•	Between and within Central America and the Caribbean	700	381	426	45	12	
	Between Canada, Mexico and the United States	1 800	712	783	. 72	10	
•	Between North America/Central America/Caribbean and South America	4 200	1 366	1 450	84	6	
-	Local South America	2 000	681	758	77	· 11	
•	Local Europe	1 200	919	931	13	1	
•	Local Middle East	1 400	575	601	25	4	
-	Local Africa	1 600	664	721	58	9	
	Between Europe and Middle East	3 300	1 608	1 640	32	2	
0.	Between Europe/Middle East and Africa	5 400	2 160	2 176	15	1	
1.	North Atlantic	7 300	2 545	2 570	25	1	
2.	Mid Atlantic	8 200	2 857	2 951	94	3	
3.	South Atlantic	10 100	3 463	3 533	70	2	
4.	Local Asia/Pacific	2 900	1 035	1 078	43	4	
5.	Between Europe/Middle East/Africa and Asia/Pacific	7 500	2 423	2 458	35	1	
6.	North and Mid Pacific	11 100	2 620	2 668	48	2	
7.	South Pacific	8 800	3 027	3 057	30	1	

1. There are also taxes or charges *included* in the published fare which will vary according to route group (for example, taxes and charges are generally included in the published fare for most routes from Europe by inter-governmental agreement but such provisions are by no means universal).

12. The table shows that in September 1993 at the world average city-pair distance of some 3 300 kilometres the estimated average published fare for that distance was some U.S.\$1 389 and the applicable additional taxes or charges amounted to some U.S.\$43, i.e. an additional 3 per cent on the published fare. With regard to the individual route groups, the table shows that in September 1993 the average fare varied from U.S.\$381 for the short-distance routes between and within Central America and the Caribbean to U.S.\$3 463 for South Atlantic routes. The additional taxes and/or charges in absolute amounts varied from a low of U.S.\$13 for routes within Europe (reflecting the intergovernmental agreement referred to above) to a high of U.S.\$94 for routes across the Mid Atlantic. In percentage terms the highest additional taxes and/or charges were found on routes between and within Central America and the Caribbean (12 per cent on the published fare), within South America (11 per cent on the published fare) and between Canada, Mexico and the United States (10 per cent on the published fare).

13. Table 3-2 shows the variation with distance for the estimated average air fare, as published and plus taxes and/or charges expressed in terms of US cents per passenger-kilometre, by route group and Table 3-3 shows the increase in the price of an air journey which these additional taxes and/or charges represent. The supplementary taxes and/or charges are seen to have a significant impact on the relative differences in fare levels amongst the various route groups, although fares in Europe remain the highest at the short and medium range with or without the additions.

14. On a world-wide basis the increase in price ranges from some 8 per cent at 250 kilometres to less than 1 per cent for distances over 10 000 kilometres. On a route group basis there are not only significant differences on the average level of supplementary taxes and/or charges but also a significant variation according to distance within individual route groups. Table 3-3 shows that in September 1993 supplementary taxes and/or charges added a substantial amount to the average published air fare for short/medium haul flights in the Americas (mainly on route groups 2 to 5), in Africa (route group 8) and in Asia/Pacific (route group 14).

15. In September 1993, the majority of the additional taxes and/or charges were established as fixed amounts rather than as a percentage of the published fare and hence they had a higher impact on those city-pairs with shorter distances. However the distribution and mixture of city-pairs by distance were also factors.

EFFECT OF SUPPLEMENTARY TAXES AND CHARGES ON SPECIAL FARES

16. Because of comparability on a world-wide basis and amongst route groups, the basic air fare used in this analysis was the economy class normal fare. As described in Chapter 2, other fare types were available on most route groups in September 1993. For example, excursion fares were generally widely available on all route groups, on average, at a level some 35 per cent below that of the applicable economy class normal fare. The impact of the additional taxes and/or charges where these are expressed as discrete amounts would therefore have represented a somewhat higher amount, in percentage terms, than the average figure suggested by the tables.

17. In September 1993, deep discount Advanced purchase excursion (Apex) and similar types of fares were predominant on routes within North America, within Europe and across the North and South Atlantic and the Pacific. The impact of additional taxes and/or charges and fees expressed as discrete amounts would have been particularly significant on these fares on routes within North America where a mixture of taxes based on percentages of revenue and fixed amounts were used and where the distances between city-pairs are much shorter than for the trans-Atlantic and trans-Pacific routes.

Table 3-2. Comparison of average economy class normal fares, as published¹ and plus taxes/charges per passenger-kilometre by route group and by distance

	•	• • •	Ŭ			Ŭ		•		
			**************			Dist	ance (km)			
			250	500	1 000	2 000	4 000	8 000	12 000	16 000
lou	e group				U.S	S. cents per	passenger	-kilometre		•
. In	ternational average — WORLD	as published plus taxes	52.6 56.9	41.1 43.9	32.1 33.9	25.1 26.2	19.7 20.2	15.4 15.6	13.3 13.4	12.0 12.0
I. Ir	ternational route groups:									
1.	Between North America and Central America/Caribbean	as published plus taxes	64.0 69.5	43.9 47.3	30.1 32.2	20.7 21.9	14.2 14.9	-	-	-
2.	Between and within Central America and the Caribbean	as published plus taxes	45.3 51.5	32.2 36.2	22.8 25.4	16.2 17.8	-	-	-	_
}.	Between Canada, Mexico and the United States	as published plus taxes	59.5 70.0	40.4 46.4	27.4 30.8	18.6 20.4	12.7 13.6	-	-	-
ŀ.	Between North America/ Central America/Caribbean and South America	as published plus taxes	-	25.4 29.4	22.0 24.7	19.0 20.8	16.4 17.5	14.2 14.7	-	 _
5.	Local South America	as published plus taxes	27.8 34.0	23.6 28.0	20.0 23.0	17.0 18.9	14.5 15.6	-	- -	- -
j.	Local Europe	as published plus taxes	76.3 77.8	56.3 57.2	41.5 42.1	30.6 30.9	22.5 22.7		-	-
	Local Middle East	as published plus taxes	44.5 47.9	32.6 34.7	23.9 25.1	17.5 18.2	-	,	. — —	_
I.	Local Africa	as published plus taxes	31.7 37.6	27.0 31.1	23.1 25.7	19.7 21.2	16.8 17.5	-	-	_
	Between Europe and Middle East	as published plus taxes	-	38.1 41.1	32.3 34.2	27.4 28.4	23.3 23.6	-		-
0.	Between Europe/Middle East and Africa	as published plus taxes	- -	32.1 33.2	28.0 28.7	24.4 24.8	21.2 21.5	18.5 18.6	-	
1.	North Atlantic	as published plus taxes	-	-	-	- 	21.5 21.8	16.9 17.0	14.7 14.8	_
2.	Mid Atlantic ²	as published plus taxes	-	-	_ , _	-	-	-	- -	-
3.	South Atlantic	as published plus taxes	- -	-	-	-	17.2 19.1	17.2 17.9	17.1 17.2	-
4.	Local Asia/Pacific	as published plus taxes	26.4 31.2	23.7 26.9	21.2 23.3	18.9 20.1	17.0 17.4	15.2 15.0	14.2 13.8	-
5.	Between Europe/Middle East/ Africa and Asia/Pacific	as published plus taxes	-	-	15.9 16.5	16.0 16.5	16.1 16.4	16.2 16.4	16.2 16.4	16.2 16.3
6.	North and Mid Pacific	as published plus taxes		_ `	-	- -	- -	13.2 13.5	11.5 11.7	10.4 10.6
7.	South Pacific	as published plus taxes	-	-	- - '		20.9 21.1	17.6 17.8	15.9 16.1	14.8 15.0

 As Table 3-1.
 In September 1993, fare levels across the Mid Atlantic were found to be more dependent on other factors than distance; hence no figures are shown for this route.

Table 3-3. Comparison of taxes and/or charges as a percentage of the published¹ average return economy class normal fare by route group and by distance

		2		in the	Distan	ce (km)		1000 - 20	
Rou	te group	250	500	1 000	2 000	4 000	8 000	12 000	16 00
					Perce	entage		14	
. Ir	ternational average - WORLD	8.2	6.8	5.4	4.1	2.7	1.4	0.6	0.1
1.1	nternational route groups:								
ι.	Between North America and Central America/Caribbean	8.7	7.9	7.0	6.2	5.4	-	-	-
	Between and within Central America and the Caribbean	13.7	12.4	11.1	.9.8	-	-	-	-
	Between Canada, Mexico and the United States	17.6	14.9	12.3	9.7	7.1		-	× -
	Between North America/ Central America/Caribbean and South America	_	15.6	12.5	9.4			¥.	
			1.00706033	100000	0.52.5.65	6.4	3.5	. 	-
•	Local South America	22.1	18.4	14.8	11.3	7.9		-	56 S
•11	Local Europe	2.0	1.7	1.4	1.2	0.9	1	× 2 	-
	Local Middle East	7.7	6.4	5.1	3.7	# 1	3 	-	1
22	Local Africa	18.8	14.9	11.2	7.6	4.1	3 <u>11</u>	-	194
•	Between Europe and Middle East	-	7.9	5.7	3.5	1.4	2=1		-
0.	Between Europe/Middle East and Africa		3.1	2.4	1.7	1.0	0.3	-	
1.	North Atlantic	8 . 8	-	्स	-	1.3	0.9	0.7	
2.	Mid Atlantic ²		-	9 10	-	754	2 00	, ini	191 e s
3.	South Atlantic	(1 1)	222	32 <u>77</u> 1	a	10.3	4.0	0.6	<u>.</u>
4.	Local Asia/Pacific	18.0	13.9	10.0	6.2	2.5	• 0.0 ·	0.0.	i=
5.	Between Europe/Middle East/ Africa and Asia/Pacific	***	-1	3.7	2.9	2.1	1.4	1.0	0.6
6.	North and Mid Pacific			-	-	=	1.9	1.8	1.7
7.	South Pacific	×	-	1. (H		1.1	1.0	1.0	0.9
	As Table 3-1. As Table 3-2.						2	ŧ	

Chapter 4 COMPARATIVE SUMMARY OF INTERNATIONAL CARGO RATES

INTRODUCTORY REMARKS

1. The objective of this chapter is to provide a world-wide perspective of international cargo rates, to compare rates among route groups and the estimated world averages, and to compare the situation in September 1993 with that in September 1992. The findings are factual and descriptive in nature. By virtue of the scope of the survey, the comparisons made are general and relate only to the estimated values of rates as determined by the analyses. Within each route group, individual city-pairs will differ more or less from the general situation for the group as a whole, and no attempt has been made in this survey to weigh city-pairs according to the volume of traffic. In consequence, city-pairs which are relatively insignificant from the standpoint of traffic have been accorded as much importance as those between which large volumes of freight traffic flow. This does not detract from the value of assessing the level of international airline rates from a regional and global point of view.

DISTRIBUTION OF INTERNATIONAL CITY-PAIRS BY ROUTE GROUP

2. Under-45 kg general cargo rates were obtained for 4 882 city-pairs with international throughplane scheduled services operated with all-cargo aircraft or wide-body combination aircraft. In addition there were a limited number of city-pairs with through-plane service for which pertinent information on rates was missing in the multilateral airline guides, so that the number of the city-pairs above is less than the actual numbers which would meet the required selection criteria.

3. It may be seen from Table 4-1 that 840 city-pairs, just over 17 per cent of the total analysed, were located in the route group "between Europe/Middle East/Africa and Asia/Pacific". Four route groups out of the seventeen accounted for almost 51 per cent of the total. In addition to routes "between Europe/Middle East/Africa and Asia/Pacific", these were "local Asia/Pacific", the "North Atlantic" and "local Europe". The remaining two transatlantic route groups, "Mid Atlantic" and "South Atlantic", together and the two transpacific route groups together, each accounted for about 6 per cent of the total number of international city-pairs.

DISTRIBUTION OF INTERNATIONAL CITY-PAIRS BY DISTANCE

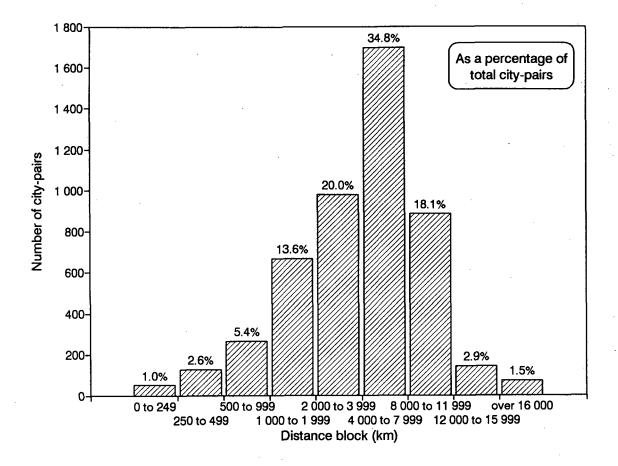
4. The average distance separating the 4 882 international city-pairs for which general cargo rates for shipments of less than 45 kg were obtained was 5 328 km. This distance may be compared with an estimated average international freight trip length in 1993 of 5 520 km. The difference between the two figures reflects the relatively higher volume of traffic travelling on long-haul routes as opposed to short-haul routes. With regard to the average city-pair distance, in recent years this has been steadily increasing due to the increase in long-haul all-cargo services such as on routes across the North Atlantic and across the Pacific.

Table 4-1. Distribution by route group of internationa	al city-pairs for which
general cargo rates (under 45 kg) were obtained	(September 1993)

Route groups	Number of city-pairs	Per cent	Cumulative per cent
International total — WORLD	4 882	100.0	-
Between Europe/Middle East/Africa and Asia/Pacific	840	17.2	17.2
Local Asia/Pacific	678	13.9	31.1
North Atlantic	524	10.7	41.8
Local Europe/Middle East and Africa	446	9.1	51.0
Local Europe	428	8.8	67.5
Between Europe and Middle East	377	7.7	67.5
Local Africa	255	5.2	72.7
North and Mid Pacific	251	5.1	77.8
Local Middle East	213	4.4	82.2
Between North America/Central America/Caribbean		сло-л ж	in a second
and South America	189	3.9	86.1
Mid Atlantic	179	3.7	89.7
Between North America and Central America/Caribbean	123	2.5	92.2
South Atlantic	106	2.2	94.4
Local South America	81	1.7	96.1
Between Canada, Mexico and the United States	77	1.6	97.6
Between and within Central America and the Caribbean	64	1.3	99.0
South Pacific	51	1.0	100.0

For example, for routes across the North-Mid Pacific, in September 1993 there were 251 city-pairs between which freight could be shipped directly (on combination or all-cargo scheduled flights) compared with 204 city-pairs for which passengers were offered direct services.

5. Graph 4-1 portrays the number and percentage distribution of city-pairs by distance block for the world sample of 4 882 city-pairs for which cargo rates were obtained in September 1993. Because one of the selection criteria for the city-pairs included in the analysis of cargo rates was that there should be a through-plane service operated with all-cargo aircraft or wide-body combination aircraft only, the distribution of city-pairs by distance tends to include a higher proportion of city-pairs at the longer distances. Hence in the case of cargo rates, some 77 per cent of the city-pairs surveyed are in distance ranges over 2 000 km compared with about 50 per cent for passenger fares.



Graph 4-1. Distribution by distance block of city-pairs for which general cargo rates (under 45 kg) were obtained (September 1993)

DISTRIBUTION OF INTERNATIONAL CITY-PAIRS BY ROUTE GROUP AND BY DISTANCE

6. The average regional inter-city distance is shortest in the route group "between and within Central America and the Caribbean" at 605 km and in "local Middle East" at 1 321 km, while the route groups with the longest average city-pair distance are the "North and Mid Pacific" at 11 670 km and the "South Atlantic" at 9 555 km. Table 4-2 compares the number of city-pairs in each route group that fall in the nine distance blocks selected for the purpose of this chapter.

RELATIONSHIP BETWEEN ESTIMATED GENERAL CARGO RATES FOR SMALL SHIPMENTS AND DISTANCE

7. The relationship between the estimated average international general cargo rates for shipments of less than 45 kg and distance in September 1993 may be seen in Graph 4-2. These are the rates paid per kilogram at various distances. The estimated averages shown in this graph are for the world as a whole and may be used as a basis for comparison with the rates shown in Chapter 5 by route group. The curves of this graph have been statistically computed so as to reflect best the relationship between the rates and the distance (see Appendix 3 for further details).

Table 4-2. Distribution by distance block of city-pairs for which general cargo rates (under 45 kg) were obtained (September 1993)										
Number of city-pairs by distance (km)									Number	
Route group	0 to 249	250 to 499	500 to 999	1 000 to 1 999	2 000 to 3 999	4 000 to 7 999	8 000 to 11 999	12 000 to 15 999	over 16 000	of city- pairs
International total - WORLD	51	128	265	665	978	1 697	885	141	72	4 882
Between North America and Central America/Caribbean	2	1	4	35	74	7	04 <u></u>	- -	<u></u>	123

11

15

21

36

196

89

81

10

8

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22

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188

59

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1

-

227

101

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-

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Between and within Central America and

Between North America/Central America/

Caribbean and South America

Between Europe and Middle East

Between Europe/Middle East/Africa

Between Europe/Middle East and Africa

Local South America

Local Middle East

Local Europe

Local Africa

North Atlantic

South Atlantic

Local Asia/Pacific

and Asia/Pacific

South Pacific

North and Mid Pacific

Mid Atlantic

Between Canada, Mexico and the United States

Average

distance.

5 328

2 572

605

2 169

5 559

2 624

1 460

1 321

1 890

3 807

5 908

7 248

7 940

- 9 555

3 659

7 902

11 670

9 525

64

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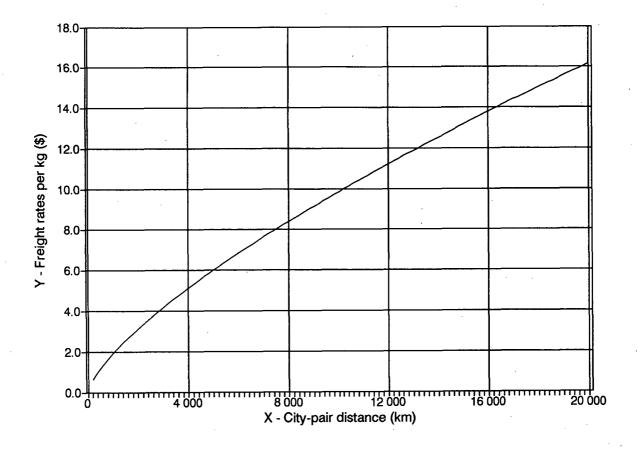
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Graph 4-2. Relationship between the estimated average international general cargo rates for shipments of less than 45 kg and distance (September 1993)

COMPARATIVE LEVEL OF GENERAL CARGO RATES FOR SMALL SHIPMENTS BY ROUTE GROUP

8. In September 1993 estimated average general cargo rates for shipments of less than 45 kg, as shown in Table 4-3, were lowest on the route groups "South America" and "Africa" at short distances, on the route groups "North-Central America" and "North America" at medium distances, and on the route groups "North-South America" and "Asia/Pacific" at the longest distances. The lowest average rate at the average distance in any route group was 80 cents per tonne-kilometre (at 2 200 km) on international routes in "North America".

9. The highest estimated rate levels at the short distances were seen for routes in "Europe" and "Central America". Rate levels in "Europe-Middle East" were among the highest at medium distances, and at the longest distances surveyed, rates on routes across the South Atlantic and in the route group "Europe-Asia/Pacific" were among the highest. The highest average rate at the average distance in any route group was 265 cents per tonne-kilometre (at 600 km) on routes in "Central America".

10. No cargo rate levels against distance are shown in Table 4-3 for routes between Europe/Middle East and Africa, across the North and Mid Atlantic, and the North-Mid Pacific for September 1993 as these rates were found to be more dependent on other factors than distance (see Chapter 5 for a fuller discussion).

Table 4-3. Comparison of average general cargo rates per tonne-kilometre for shipments of less than 45 kg, by route group and by distance

		Cents per tonne-kilometre by distance (km)									
Route group (short title)		250	500	1 000	2 000	4 000	8 000	12 000	16 000		
nternational total — WORLD	1993 (1992)	282 (295)	231 (243)	190 (200)	156 (164)	128 (135)	105 (111)	93 (99)	86 (91)		
North-Central America	1993 (1992)	295 (306)	223 (231)	169 (174)	128 (131)	97 (99)	-	-	. –		
2. Central America	1993 (1992)	372 (327)	284 (240)	218 (176)	166 (129)	-	-	-	-		
. North America	1993 (1992)	287 (301)	191 (196)	127 (127)	84 (83)	56 (54)	_	-	-		
. North-South America	1993 (1992)	-	· 225 (220)	180 (176)	144 (142)	115 (114)	92 (91)	-			
. South America	1993 (1992)	219 (242)	185 (201)	156 (167)	131 (139)	111 (115)	^		-		
. Europe	1993 (1992)	433 (496)	315 (380)	229 (290)	167 (222)	121 (170)	-	- - ,	-		
. Middle East	1993 (1992)	280 (306)	219 (220)	171 (158)	134 (114)	-	-	` _			
. Africa	1993 (1992)	210 (253)	186 (213)	164 (180)	145 (152)	128 (128)	v _	· _ ·	-		
. Europe-Middle East	1993 (1992)	-	182 (196)	170 (185)	160 (174)	150 (164)	-	-	· _ ·		
0. Europe-Africa ¹	1993 (1992)	-, -	_ (278)	_ (232)	_ (194)	(162)	_ (135)	· -	-		
1. North Atlantic ¹	1993 (1992)	-	 -	-	-	·	-	;;;;;;;;	· -		
2. Mid Atlantic ¹	1993 (1992)	-	-	-	-	-	-		-		
3. South Atlantic ¹	1993 (1992)	- -	-	-	-	162 -	- 1 36 	123	-		
4. Asia/Pacific	1993 (1992)	299 (254)	237 (207)	187 (170)	148 (139)	117 (113)	93 (93)	. 81 (82)	-		
5. Europe-Asia/Pacific	1993 (1992)	-	-	143 (134)	130 (127)	118 (120)	108 (114)	102 (110)	98 <u>(</u> 108)		
6. North-Mid Pacific ¹	1993 (1992)	- -	-		- -	-	- -	-	-		
7. South Pacific	1993 (1992)	- ' -	_		-	143 (141)	105 (105)	87 (89)	77 (79)		

 In September 1993, rate levels on routes between Europe/Middle East and Africa, across the North and Mid Atlantic and across the North-Mid Pacific were found to be more dependent on other factors than distance; hence no figures are shown for these route groups. This was also the case in September 1992 for the rate levels across the three Atlantic routes (North, Mid & South) and the North-Mid Pacific.

CHANGES IN LEVEL OF GENERAL CARGO RATES FOR SMALL SHIPMENTS BETWEEN 1992 AND 1993

11. As for passenger fares, cargo rates in this survey are generally expressed as the United States dollar equivalents, at the applicable exchange rates, of local selling rates (see Chapter 1). Hence, the year-to-year changes in estimated rates include the effects of changes in the strength of the U.S. dollar relative to other currencies. Between September 1992 and September 1993, the U.S. dollar strengthened against many other world currencies. The local selling currency used in each country as well as the exchange rates to the U.S. dollar for each of the national currencies involved may be seen in Appendix 2.

12. As shown by Table 4-4, between September 1992 and September 1993, the estimated world average general cargo rates expressed in U.S. dollars for shipments of less than 45 kg showed a decrease of under 5 per cent at 250 km and of about 6 per cent at 16 000 km. In terms of local selling currencies, cargo rates showed increases of some 5 per cent at the shorter distances and of about 1 per cent at the longer distances.

13. For the individual route groups the degree of change shown in the general cargo rates expressed in U.S. dollars between 1992 and 1993 depends to a large extent on the change in the relationship of the selling currencies in the countries concerned and the U.S. dollar. Hence in those areas such as the Americas (route groups 1 to 5) where rates are generally expressed in U.S. dollars, the changes shown in the table tend to reflect the changes in selling rates. The effect of changes in exchange rates on individual routes for cargo rates is not necessarily the same as for passenger fares because of the different city-pair mix in each route group and because in a number of countries either the fares or the rates but not both are established in U.S. dollars (see Appendix 2).

14. Between September 1992 and September 1993, the U.S. dollar appreciated against most of the currencies of the other countries in the rest of the world. Hence, the changes in rates are lower when rates are expressed in U.S. dollars than when expressed in local selling currencies. (For a more detailed analysis on exchange rates, see paragraphs 12 through 16 in Chapter 2.)

OTHER CARGO RATES

15. A study of city-pair samples selected from each route group suggests the following conclusions: for about 80 per cent of all international city-pairs, general cargo rates for shipments "over 45 kg" were available at some 25 per cent lower than the rates for smaller shipments. For almost 55 per cent of the citypairs there was at least one additional general cargo rate which could be used for very large shipments and which was on average almost 50 per cent lower than the "under-45 kg" rate. However, these rates for large shipments were predominant in particular route groups, and were uncommon in the route groups "South America", "Middle East", "Africa", "Europe-Africa" and "Asia/Pacific". Specific commodity rates existed for about 60 per cent of city-pairs in the world-wide sample. Where available, in September 1993 there were on average about 5 different types of specific commodity rates for a city-pair, in most of the cases with more than one rate per commodity depending on the minimum weight, and these rates were on average about 60 per cent lower than the comparable "under-45 kg" general cargo rate. Bulk unitization rates for the carriage of freight in unit load devices (ULDs) remained in general only widely available for routes originating or terminating in North America and on routes across the Mid Atlantic.

Table 4-4.	Percentage cha	nge in average	e general carg	o rates for sm	all shipments
by route	group and by dis	stance, betwee	en September	1992 and Sep	tember 1993

		12	Percentage change by distance (km)							
Route g	roup (short title)		250	500	1 000	2 000	4 000	8 000	12 000	16 000
interna	tional total - WORLD			<i>C.W.</i>	1	10 ⁻	*			
in	U.S.\$		-4.5	-4.8	-5.0	-5.2	-5.4	-5.6	-5.7	-5.8
(ir	n selling currencies)		(5.3)	(4.6)	(3.9)	(3.3)	(2.6)	(2.0)	(1.6)	(1.3)
	orth-Central America									
	U.S.\$ selling currencies)		-3.5 (-5.1)	-3.1 (-3.9)	-2.8 (-2.7)	-2.5 (-1.5)	-2.2 (-0.3)	-	-	
			(-5.1)	(-5.5)	(-2.1)	(-1.5)	(-0.3)		1000	100
	entral America U.S.\$		13.5	18.5	23.7	29.2	452.4	242	1000	425.0
	selling currencies)		(13.6)	(18.9)	(24.5)	(30.4)	-	-	-	-
	orth America									
in	U.S.\$		-4.8	-2.7	-0.5	1.7	3.9	-	-	-
(ir	n selling currencies)		(-1.5)	(0.4)	(2.4)	(4.5)	(6.5)	-	-	• -
. No	orth-South America									
	U.S.\$		-	2.3	1.9	1.6	1.2	0.9	-	-
	n selling currencies)		-	(3.1)	(2.7)	(2.2)	(1.8)	(1.3)	-	-
	outh America		100 C	معمون	1000	1000			10	
	U.S.\$ selling currencies)		-9.5 (-9.5)	-8.2	-6.8	-5.3	-3.9	-	-	-
			(-9.5)	(-8.2)	(-6.8)	(-5.3)	(-3.9)	-	—	-
	urope		-12.7	-17.0	.01 1	25.0	.29 7	1920	(1941)	1424
	U.S.\$ selling currencies)		(9.7)	(2.9)	-21.1 (-3.5)	-25.0 (-9.6)	-28.7 (-15.2)	-	-	. <u>5</u>
	and the second		(0.17)	(2.0)	(0.0)	(0.0)	(10.2)			
	iddle East U.S.\$		-8.4	-0.4	8.3	17.7	-	-	10 L	-
	n selling currencies)		(-7.9)	(1.7)	(12.3)	(24.0)	-		-	-
. At	frica									
in	U.S.\$		-16.7	-12.8	-8.6	-4.3	0.3	-	-	-
(ir	n selling currencies)		(-4.2)	(1.8)	(8.1)	(14.8)	(21.9)	-	·	-
	urope-Middle East								÷	
	U.S.\$		-	-7.3	-7.7	-8.1	-8.5	-		-
	n selling currencies)		-	(1.8)	(1.8)	(1.8)	(1.8)	-	-	-
	urope-Africa'		1						N	
	U.S.\$ selling currencies)		-	-	_	-	-2	-	-	
and the second	the second s									
	orth Atlantic ¹ U.S.\$		_	_	_		100	122	10 C	-
	selling currencies)		-	-	- 1	-	-	-	-	
2 M	id Atlantic1		(4)							
in	U.S.\$		-	-	· · · -	-	-	-	-	-
(ir	n selling currencies)		-	-	-	-	-	-	-	. —
3. Se	outh Atlantic'									
	U.S.\$		-	-	-	-	-15.2	-10.5	-7.7	-
	n selling currencies)		-	-	-	772	-3.4	1.0	3.7	-
	sia/Pacific		47.0	444						
	U.S.\$ selling currencies)		17.9 (15.8)	14.1 (12.4)	10.4 (9.1)	6.9 (5.9)	3.4 (2.8)	0.1 (-0.2)	-1.8 (-2.0)	-
	Contraction and the state of th		(10.0)	(12.4)	(0.1)	(0.0)	(2.0)	(0.2)	(2.0)	-
	urope-Asia/Pacific U.S.\$		-		6.8	2.5	-1.6	-5.5	-7.7	-9.2
	selling currencies)		-	-	(10.1)	(7.4)	(4.8)	(2.2)	(0.7)	(-0.3)
	orth-Mid Pacific1						(A COMPANY	Sec. Sec.	
	U.S.\$		-		-	1	-	-		_
	selling currencies)		-	-	-	-	-	-	-	-
	outh Pacific									
in	U.S.\$		-	-	-	-	1.6	-0.4	-1.6	-2.5
(ir	selling currencies)		-	-	-	-	(5.2)	(2.0)	(0.1)	(-1.1)

 In September 1993, rate levels on routes between Europe/Middle East and Africa, across the North and Mid Atlantic and across the North-Mid Pacific were found to be more dependent on other factors than distance; hence no figures are shown for these route groups. This was also the case in September 1992 for the rate levels across the three Atlantic routes (North, Mid & South) and the North-Mid Pacific.

Chapter 5 FARES AND RATES BY INTERNATIONAL ROUTE GROUP

This chapter presents the analyses for the 17 international route groups on a standardized basis to facilitate comparisons. Descriptions of the route groups are given in Appendix 1. Details of the statistical methods used for estimating average economy class normal passenger fares and general cargo rates for small shipments are given in Appendix 3.

ROUTE GROUP 1: BETWEEN NORTH AMERICA AND CENTRAL AMERICA/CARIBBEAN

Economy class normal passenger fares

1. The curves on Graph 5-1 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

Estimated according along compl	Distance in km					
Estimated economy class normal fares per passenger-kilometre	250	500	1 000	3 000	5 000	
Fares in cents per pass-km, 1993						
Average	64.0	43.9	30.1	16.6	12.5	
Northbound	66.3	45.0	30.6	16.5	12.4	
Southbound	61.8	42.8	29.7	16.6	12.7	
Percentage change (%), 1993/1992						
Average	8.8	8.3	7.9	7.2	6.9	
Northbound	9.9	9.2	8.5	7.4	6.9	
Southbound	7.7	7.6	7.4	7.1	6.9	

Other passenger fares

3. Table 5-1 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first class normal fares were widely available in this route group. In September 1993 special fares for first class travel were available for 2 out of the 10 city-pairs. In September 1993 the economy class restricted fare was the special fare most widely available to the general public. Their level ranged between 10 to 45 per cent below the related economy class normal fare. Economy class excursion fares remained available on 8 city-pairs, while Apex fares were available for only 3 city-pairs in the sample compared with 6 city-pairs in September 1992. These and the other fares shown were those published in multilateral tariff manuals in September 1993; other fares may also exist as individual airline tariffs.

Route group 1 (cont.)

General cargo rates for small shipments

4. The curves on Graph 5-2 have been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

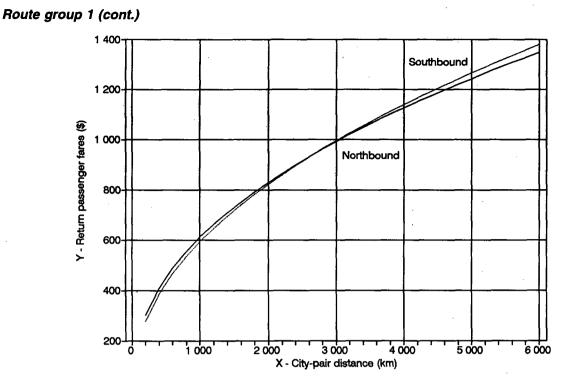
5. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

Estimated general cargo rates	Distance in km							
for shipments of less than 45 kg	250	500	1 000	3 000	5 000			
Rates in cents per tonne-km, 1993					0			
Average	295	223	169	109	89			
Northbound	266	210	166	114	96			
Southbound	313	231	170	105	84			
Percentage change (%), 1993/1992				55				
Average	-3.5	-3.1	-2.8	-2.3	-2.1			
Northbound	-5.8	-3.5	-1.2	2.5	4.3			
Southbound	-4.0	-4.5	-4.9	-5.7	-6.0			

6. Between September 1992 and September 1993, there was an increase in the directional imbalance in general cargo rate levels for shipments of less than 45 kg between the northbound and southbound directions at the longer distances.

Other cargo rates

7. Table 5-2 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several general cargo rates for shipments of more than 45 kg exist (including breakpoints at 100 and 300 kg) giving discounts averaging about 40 per cent for large shipments (over 500 kg). Specific commodity rates were available for 8 out of 10 city-pairs in the sample. They were on average at a level of about 40 per cent of the general cargo rates for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for 3 out of 10 city-pairs in the sample.



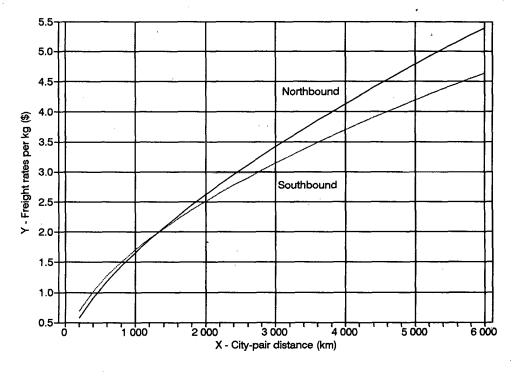


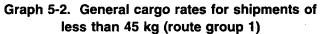
		INDIVIDUAL FARES						
	Flight	Highest economy class	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX	GROUP FARES Economy class
City-pair (originating city first)	distance (km)	normal (U.S.\$)	(as a percentage of the highest economy class normal far					e)
Panama City Los Angeles	4 940	1 886	_	-	81–91	33-49	_	-
Los Angeles — San José	4 390	1 344	160	-	87-91	50-65	_	-
Toronto Barbados	3 910	1 192	139	115	84-87	69-82	34-47	36
Aruba — New York	3 150	966	127 ²	-	57-90	44-52	-	42
Kingston — Toronto	2 870	1 060	143	120	87	62-70	33-40	35
New York - Santo Domingo	2 500	768	127-132 ²	_	57-89	50-59	59 -6 4	50
San Salvador — Houston	1 950	852	138	-	65-88	63-85	_	-
New Orleans — Guatemala	1 710	908	-	-	91	47-69		-
Port-au-Prince Miami	1 150	410	143	97	63	-	<u> </u>	_
Fort Lauderdale Nassau	290	280	120	-	64-82	-	-	-

 Table 5-1. Range of passenger fares available (route group 1)

Where applicable, only mid-week fare levels are shown; weekend fares are somewhat higher.
 First class restricted fares also available.

Route group 1 (cont.)





			GENERAL	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of kg rate) ¹	Range (as a percentage of under-45 kg rate)'	Number of commo- dities
Toronto — Barbados	3 910	49	4.55	76	59	_	-
Barbados - New York	3 370	45	2.77	77	60	27-68	5
Guatemala - Washington	3 000	45	4.02	69	52	29-30	1
Kingston — Toronto	2 870	45	3.55	77	66	17-31	2
New York — Santo Domingo	2 500	45-50	2.23-2.27	. 84	73	-	-
Miami — Antigua	2 140	45	1.98	78	72	66	1
San José — Miami	1 800	45-50	1.99-2.58	75	39-50	19-43	15
Miami — San Salvador	1 650	45	2.45	75	_	37-48	2
Port-au-Prince - Miami	1 150	45-50	1.47-1.49	80-81	62-80	42-56	4
Miami — Nassau	300	35-45	0.74-1.82	35-67	27-57	27	1

Table 5-2. Range of cargo rates available (route group 1)

1. Rates calculated as a percentage of the higher under-45 kg rate where applicable.

ROUTE GROUP 2: BETWEEN AND WITHIN CENTRAL AMERICA AND THE CARIBBEAN

Economy class normal passenger fares

1. The curve on Graph 5-3 has been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

	Distance in km						
Estimated economy class normal fares per passenger-kilometre	250	500	1 000	2 000	3 000		
Fares in cents per pass-km, 1993	45.3	32.2	22.8	16.2	13.3		
Percentage change (%), 1993/1992	8.6	5.3	2.2	-0.9	-2.6		

Other passenger fares

3. Table 5-3 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first class fares were available for 6 of the 10 city-pairs shown in September 1993, while intermediate class fares were only available for 3 city-pairs in the sample. The economy class restricted and excursion fares remained the special fares most widely available to the general public in September 1993. Their levels generally ranged between 10 and 60 per cent below that of the related economy class normal fare. A few special fares of other types were also available. Also in September 1993 the Eastern Caribbean Air Pass was available to passengers purchasing a transatlantic air fare in Europe. The Pass allowed up to six free stopovers to be made at any point of an air journey between Puerto Rico and Trinidad and Tobago.

General cargo rates for small shipments

4. The curve on Graph 5-4 has been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

5. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

· · · · · · · · · · · · · · · · · · ·	Distance in km						
Estimated general cargo rates for shipments of less than 45 kg	250	500	1 000	2 000	3 000		
Rates in cents per tonne-km, 1993	372	284	218	166	142		
Percentage change (%), 1993/1992	13.5	18.5	23.7	29.2	32.4		

Other cargo rates

6. Table 5-4 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several cargo rates for shipments

38

Route group 2 (cont.)

of more than 45 kg existed in each case (including breakpoints at 100 and 300 kg) giving a reduction of up to about 40 per cent for large shipments (over 500 kg). A few specific commodity rates were also available on this route group in September 1993.

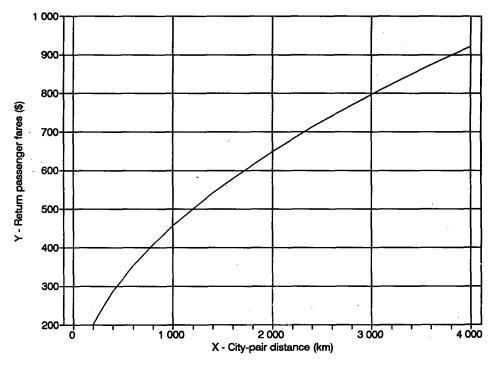
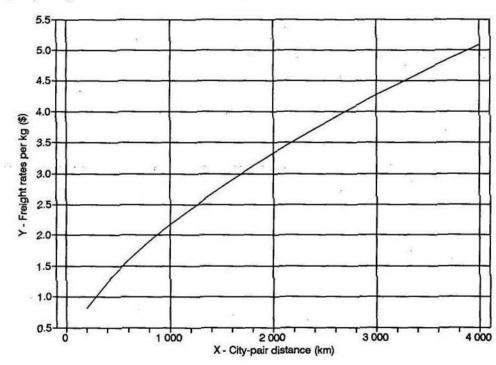


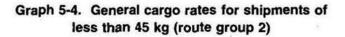


Table 5-3	. Range of passenge	r fares available (route group 2)
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		INDIVIDUAL FARES						
	Flight distance	Highest economy class normal	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX	GROUP FARES Economy class
City-pair (originating city first)	(km)	(U.S.\$)	(as a percentage of the highest economy class normal fare					
San Juan — San José	2 170	720	·	-	81	44-66	-	-
Mexico — Havana	1 770	520	130	-	-	79	-	-
Fort de France - Port au Prince	1 370	566	-	· _	100	62-86	<u>~</u>	-
San Salvador — Panama City	1 190	572	154	110	91	-	-	-
Port of Spain — Curaçao	850	488	-	-	-	41-65	-	
Aruba — San Juan	790	446	143'	-	47	-	29-38	-
Panama — San José	540	254	143	109	91		<u></u>	-
Guatemala — Tegucigalpa	410	224	144	-	91	61-68		-
Belize - San Pedro Sula	240	170	101	101	88-100	61-76	-	_
Antigua — Pointe-à-Pitre	100	134	-	****	-	66-80	-	70

1. First class restricted fares also available.





			GENERAL	CARGO RATE	S	SPECIFIC CON RATES	
City-pair (óriginating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate)	Range (as a percentage of under-45 kg rate)	Number of commo- dities
Havana — Mexico	1 770	52	2.60	77	61	58	1
Curaçao - San José	1 680	50	3.47	68	54	39-46	1
Panama City — Curaçao	1 190	50	2.85	78	49	. 31-57	7-
Pointe-à-Pitre - Port-au-Prince	1 170	57	4.15	76	46	-	-
Barbados — San Juan	920	45	2.74	74	49	51	1 1 1
Aruba - Port of Spain	730	50	2.76	77	77	-	-
Panama — San José	540	50	0.86	81	56	<u>.</u>	- *
Antigua - St. Lucia	- 360	50	1.03	83	82	-	
San Salvador Guatemala	200	45	0.31	77	77	-	-
Grenada — Port-of-Spain	180	50	0.80	91	74	-	

Table 5-4.	Range of	cargo rates	available	(route	group 2)

Route group 2 (cont.)

ROUTE GROUP 3: BETWEEN CANADA, MEXICO AND THE UNITED STATES

Economy class normal passenger fares

1. The curve on Graph 5-5 has been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

	Distance in km							
Estimated economy class normal fares per passenger-kilometre	. 250	500	1 000	2 000	4 000	6 000		
Fares in cents per pass-km, 1993	59.5	40.4	27.4	18.6	12.7	10.1		
Percentage change (%), 1993/1992	15.3	12.5	9.7	7.0	4.4	2.9		

Other passenger fares

3. Table 5-5 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first class normal and restricted fares were widely available in September 1993. Intermediate class fares remained available on 5 of the 10 city-pairs in the sample. Restricted and Apex fares were the special fares in economy class most widely available in this route group in 1993. The level of the economy class restricted fares whereas that of Apex fares ranged between 35 and 75 per cent below. Economy class excursion fares, which in September 1992 were available for 7 of the 10 city-pairs in the sample, in September 1993 were only available on 5 of the city-pairs in the sample. Where available, these fares showed reductions from the related economy class normal fares generally ranging from 25 to 65 per cent.

General cargo rates for small shipments

4. The curve on Graph 5-6 has been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

41

Route group 3 (cont.)

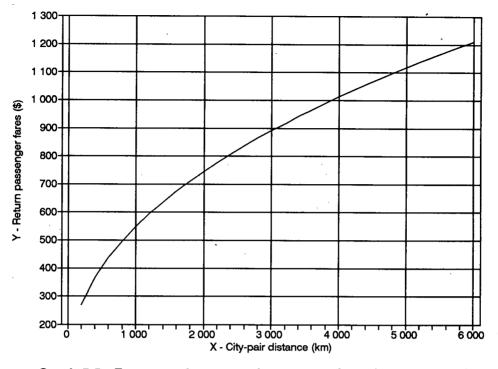
5. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

	Distance in km								
Estimated general cargo rates for shipments of less than 45 kg	250	500	1 000	2 000	4 000	6 000			
Rates per tonne-km in cents, 1993	287	191	127	84	56	44			
Percentage change (%), 1993/1992	-4.8	-2.7	-0.5	1.7	3.9	5.2			

Other cargo rates

6. Table 5-6 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several cargo rates for shipments of more than 45 kg were frequently available (including breakpoints below and above 500 kg). In September 1993, the average reduction for large shipments (over 500 kg) was about 30 per cent on the general cargo rate for small shipments (this compares with an average reduction of about 40 per cent in September 1992). Specific commodity rates were available on a few city-pairs in the sample. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for 2 of the sampled city-pairs.

Route group 3 (cont.)





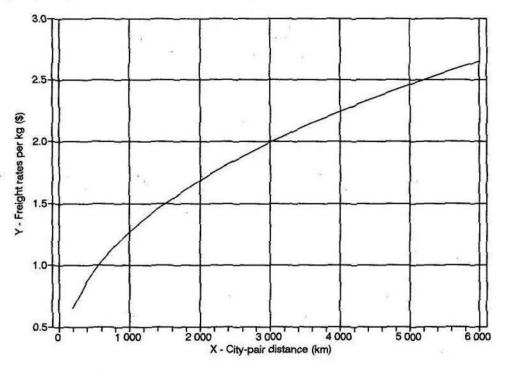
				INDIVIDU	AL FARES ¹			GROUP	
	Flight	Highest economy class	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX	GROUP FARES Economy class	
City-pair (originating city first)	(km)	normal (U.S.\$)							
Montreal Los Angeles	3 950	1 215	131-184	133 ³	64	_	26-42	60-66	
Mexico — Vancouver	3 940	762	154	100	-	74	54	-	
Seattle - Toronto	3 460	910	167-176	-	94	· _	30-59	· _	
Chicago — Mexico	2 720	842	147-159 ²	-	58	44-69	50-62	-	
Puerto Vallarta — San Francisco	2 500	998	97-133	-	72-100	35	36-49	-	
Toronto — Tampa	1 760	604	148-166 ²	102-118 ³	64-65	-	26-67	-	
Mexico — Dallas	1 510	504	161	-	-	48-72	48-61	_	
Chicago Montreal	1 190	610	148-163 ²	89	75-79	_	30-51	70-78	
Miami — Cozumel	900	342	140	-	100	65-76	-	_	
Toronto — Washington	560	501	150-159 ²	120	67-87	- .	29-56	-	

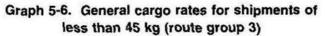
Table 5-5. Range of passenger fares available (route group 3)	Table 5-5.	Range of	passenger	fares available	(route -	group	3)
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Where applicable, only mid-week fare levels are shown; weekend fares are somewhat higher.
 First class restricted fares also available.

3. Intermediate class restricted fares also available.







		GENERAL CARGO RATES					SPECIFIC COMMODITY RATES		
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg ventage of kg rate) ¹		Range (as a percentage of under-45 kg rate)'	Number of commo- dities	
Honolulu — Vancouver	4 350	25	1.83	85	78		-	-	
Montreal - Los Angeles	3 950	23-25	1.75-2.06	65-71	-		-		
Mexico — Vancouver	3 940	50	3.61	86	72	4	25-54	5	
Cincinnati — Mexico	2 630	50	2.38	87	79		-	<u>_</u>	
Guadalajara — Los Angeles	2 110	38-45	1.49-1.56	66-81	56-58		38-48	8	
Toronto - Tampa	1 770	22	1.14	77	-		43-50	2	
Mexico Houston	1 230	45	1.07	79	77		41 .	1 .	
Chicago - Montreal	- 1 180	27	1.40	71	-		-	<u> </u>	
Miami — Cancun	860	50	1.08	85	67			-	
Toronto — New York	590	21-23	0.84	65-6 <i>9</i>	-		-	4	

Table 5-6. Range of cargo rates available (route group 3)

1. Rates calculated as a percentage of the higher under-45 kg rate when applicable.

ROUTE GROUP 4: BETWEEN NORTH AMERICA/CENTRAL AMERICA/ CARIBBEAN AND SOUTH AMERICA

Economy class normal passenger fares

1. The curves on Graph 5-7 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

Estimated economy class normal	Distance in km							
fares per passenger-kilometre	500	1 000	2 000	4 000	7 000	10 000		
Fares in cents per pass-km, 1993								
Average	25.4	22.0	19.0	16.4	14.6	13.5		
Northbound	25.3	21.7	18.6	15.9	14.1	13.0		
Southbound	25.6	22.3	19.4	16.9	15.1	14.1		
Percentage change (%), 1993/1992								
Average	-0.1	0.6	1.3	2.1	2.6	3.0		
Northbound	-0.5	0.4	1.4	2.3	3.1	3.5		
Southbound	0.3	0.8	1.3	1.8	2.2	2.4		

Other passenger fares

3. Table 5-7 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and intermediate class fares remained widely available in September 1993 in this route group. The most widely available economy class special fare was, as in previous years, the excursion fare. Where available, these fares showed reductions from the related economy class normal fares generally ranging from about 15 to 55 per cent. Economy class restricted, Pex and Apex type fares remained available for about half the city-pairs in the sample. "Circle fares" were also available for a few city-pairs in this route group in September 1993. These are published fares which allow for travel by a continuous circuitous air route and may include up to five free stopovers.

General cargo rates for small shipments

4. The curves on Graph 5-8 have been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

Route group 4 (cont.)

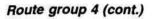
5. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

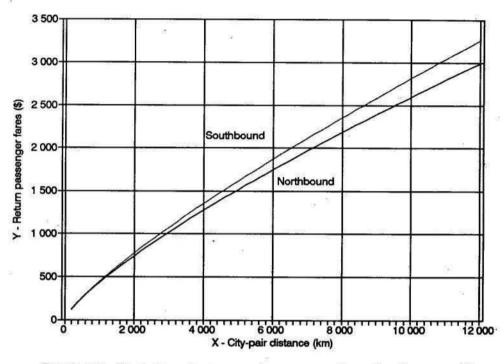
Estimated general cargo rates for	Distance in km							
shipments of less than 45 kg	500	1 000	2 000	4 000	7 000	10 000		
Rates in cents per tonne-km, 1993			÷	-0%				
Average	225	180	144	115	96	86		
Northbound	242	182	137	103	82	71		
Southbound	212	178	150	126	110	100		
Percentage change (%), 1993/1992			e.					
Average	2.3	1.9	1.6	1.2	1.0	0.8		
Northbound	7.8	5.4	2.9	0.5	-1.3	-2.5		
Southbound	-0.6	-0.3	0.0	0.4	0.6	0.8		

6. Between September 1992 and September 1993, there was an increase in the directional imbalance in general cargo rate levels for shipments of less than 45 kg between the northbound and southbound directions at the shorter and longer distances.

Other cargo rates

7. Table 5-8 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several cargo rates for shipments of more than 45 kg existed in each case (including breakpoints at 100 and 300 kg) giving, as in the previous years, a reduction of about 50 per cent on average for large shipments (over 500 kg). Specific commodity rates were also available for some city-pairs in the sample. These specific commodity rates were, on average, some 65 per cent lower than the general cargo rates for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for two city-pairs in the sample.





Graph 5-7. Economy class normal passenger fares (route group 4)

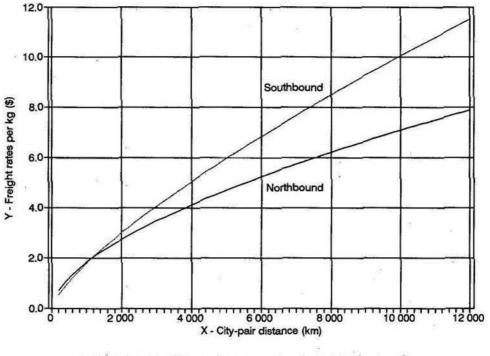
		INDIVIDUAL FARES						
14	Flight	Highest economy class normal	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX ² , PEX	GROUP FARES Economy class
City-pair (originating city first)	(km)	(U.S.\$)	A STATE AND A STATE A STATE AND A STATE					
Montreal — Buenos Aires	10 280	2 880	177	116	72	9. 	30-50	1
Santiago de Chile - New York	8 410	2 668	195	125	62-72	45-70	45-53	52
Rio de Janeiro — San José	6 220	1 852	161	116	-	55-77	-	18 18
Los Angeles — Quito	5 630	1 458	170	115	-	59-80	64	53
Miami — La Paz	4 880	1 686	174	121.	64	44-49	46-50	41
Miami — Manaus	3 880	1 884	185	118	65	-	42-45	8. <u>222</u>
Aruba — Lima	2 840	1 231	159	116		85	22	3 <u>999</u>
Caracas — Miami	2 190	790	145 ¹	123-133	43-76	46-65	7225	0
Bogota — Santo Domingo	1 600	740	145	108	3=3	47-70	() <u></u>	3
Port of Spain — Georgetown	570	294	147 ¹		81 46	49-59	(1) 1 111 12	5

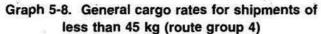
Table 5-7.	Range of	passenger (lares available	(route group	4)

1. First class excursion fares also available.

2. "Budget" fares also included.

Route group 4 (cont.)





12 JK 14		5.	GENERAL	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)	Over 45 kg (as a pero under-45	Over 500 kg centage of kg rate) ¹	Range (as a percentage of under-45 kg rate) ¹	Number of commo- dities
	10 - A.		1977 - Ar 68	- 104		No.	- 1960
Montreal — Buenos Aires	10 110	49	9.52	76	50	38	1
Santiago de Chile - New York	8 410	50	5.25-5.55	71-77	48-49	41-44	5
Rio de Janeiro — San José	6 220	50	5.95	76	41		ă a n ti
Los Angeles — Quito	5 620	50	7.23	73	54	-	-
Miami — La Paz	4 960	50	7.69	75	48	-	<u>-</u>
Miami — Manaus	3 880	50	6.20-6.51	73-77	55-58	42-44	1
Aruba — Lima	2 840	50	4.97	76	52		-
Caracas — Miami	2 190	50	2.49	73	47	14-29	5
Bogota — Santo Domingo	1 690	50	2.23	79	54	-	7 <u>44</u> 0
Aruba — Caracas	390	50	0.83	79	79	-	°

Table 5-8. Range of cargo rates available (route group 4)

1. Rates calculated as a percentage of the higher under-45 kg rate where applicable.

ROUTE GROUP 5: LOCAL SOUTH AMERICA

Economy class normal passenger fares

1. The curve on Graph 5-9 has been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

		Di	stance in km		
Estimated economy class normal fares per passenger-kilometre	250	500	1 000	3 000	5 000
Fares in cents per pass-km, 1993	27.8	23.6	20.0	15.5	13.7
Percentage change (%), 1993/1992	. 1.4	1.1	0.8	0.3	0.1

Other passenger fares

3. Table 5-9 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and intermediate class fares remained widely available in this route group in September 1993. Economy class excursion fares remained the only widely available special fares for individual travel in this route group. Their level was between about 15 and 55 per cent lower than the related economy class normal fares. A few "circle fares" for travel within South America were also available in September 1993. These are published fares which allow for travel by a continuous circuitous air route and may include up to five free stopovers.

General cargo rates for small shipments

4. The curve on Graph 5-10 has been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

5. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

	Distance in km								
Estimated general cargo rates for shipments of less than 45 kg	250	500	1 000	3 000	5 000				
Rates in cents per tonne-km, 1993	219	185	156	119	105				
Percentage change (%), 1993/1992	-9.5	-8.2	-6.8	-4.5	-3.4				

Route group 5 (cont.)

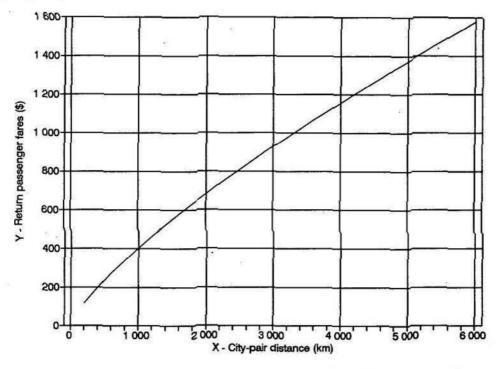
Other cargo rates

6. Table 5-10 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Seven of the city-pairs in the sample show a new general cargo rate tariff structure which was introduced in December 1989 so as to reflect more realistically the rate levels which were offered in the market-place. Under the new tariff structure general cargo rates for small shipments have the first breakpoint at 100 kg (not 45 kg). As in previous years, breakpoints at 300 kg remained available for all city-pairs in the sample. In September 1993 reductions for large shipments (over 500 kg) were available for the three city-pairs in the sample that continued to use the old tariff structure. The lack of availability of general cargo rates for large shipments for the other city-pairs should be viewed in the context of the new tariff structure. As for previous years, several specific commodity rates also remained available in this route group.



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1.

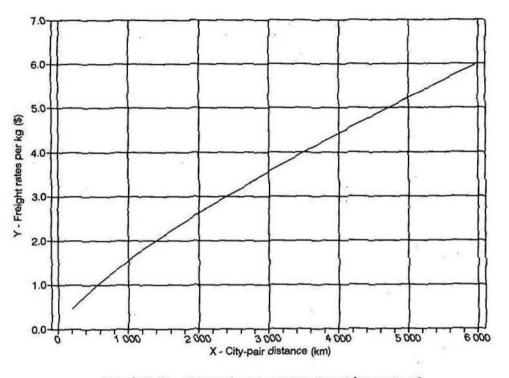




				INDIVIDU	AL FARES			- GROUP
	Flight	Highest economy class normal	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class PEX	FARES Economy class
City-pair (originating city first)	(km)	(U.S.\$)	(as a percentage of the highest economy class normal far					
Bogota — Buenos Aires	5 250	1 528	169	127	-	57-67		-
Rio de Janeiro — Caracas	4 530	1 594	160	111	-	49	-	
Santiago de Chile Quito	3 870	1 042	157	115	-	73-84	-	66
Caracas — Lima	2 750	1 014	145	107	-	50-77	50	-
La Paz — Sao Paulo	2 380	890	158	115	-	61	-	
Montevideo - Rio de Janeiro	1 830	676	161	116	<u>140</u> 2	72	-	-
Cordoba - Santa Cruz	1 550	334	-	-	<u></u>	85	-	-
Buenos Aires — Santiago de Chile	1 140	470	146	115	-	44-79	-	
Belem — Cayenne	810	372	166	116	-	68	-	-
Quito — Bogota	720	306	154	115	-	80	-	75

Table 5-9. Range of passenger fares available (route group !	Table 5-9.	Range of	passenger	fares available	(route d	group 5	5)
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Route group 5 (cont.)



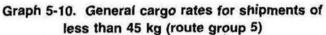


Table 5-10.	Range of	cargo rates	available l	route (group 5)

4. 4. ¹			GENERAL	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 100 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate}	Range (as a percentage of under-100 kg rate)	Number of commo- dities
Bogota — Buenos Aires	5 250	50	5.71	-	-	38-49	2
Rio de Janeiro - Caracas	4 530	50	4.801	77	40	31-35 ²	2
Lima — Rio de Janeiro	3 780	50	5.07'	78	56	17-34 ²	5
Caracas — Lima	2 750	50	4.01 ¹	75	52	22-32 ²	4
Santiago de Chile - Sao Paulo	2 590	35	3.15	-	-	35-42	4
Montevideo - Rio de Janeiro	1 830	35	1.83	-	-	34-48	3
Manaus La Paz	1 740	35	4.59	-	-	-	-
Buenos Aires - Santiago de Chile	1 140	35	0.49	-	-	108-210	3
Asuncion - Sao Paulo	- 1 110	35	1.25	-	-	-	-
Bogota — Quito	720	50	1.38	-	-	40-54	3
*							

The first breakpoint for general cargo rates remains at 45 kg (not 100 kg).
 As a percentage of the under-45 kg rate.

ROUTE GROUP 6: LOCAL EUROPE

Economy class normal passenger fares

1. The curve on Graph 5-11 has been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

Estimated economy class normal	Distance in km								
fares per passenger-kilometre	250	500	. 1 000	2 000	3 000	4 000			
Fares in cents per pass-km, 1993	76.3	56.3	41.5	30.6	25.6	22.5			
Percentage change (%), 1993/1992	-12.1	-8.9	-5.7	-2.3	-0.2	1.2			

3. Between September 1992 and September 1993, there was a significant narrowing in the spread of the economy class normal fare levels above and below the estimated average. This was to a large extent caused by the absence from the multilateral tariff manuals for September 1993 of air fares for some 169 city-pairs involving points between States belonging to the Commonwealth of Independent States. In September 1992 fare levels for these city-pairs were some 80 per cent below the average for the rest of the fares in local Europe.

Other passenger fares

4. Table 5-11 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, in September 1993 first class fares remained widely available in this route group. As in previous years, in September 1993 there was still no multilateral agreement within IATA on the definition of an intermediate class for travel within Europe. As such some airlines continued to publish intermediate class normal fares at the same level as the economy class normal fare. Economy class excursion fares remained widely available to the general public in this route group. Where available, they were on average some 35 per cent lower than the related economy class normal fares. Pex fare types were available for 8 city-pairs in the sample, while Apex and "Eurobudget" fare types were available for 7 city-pairs. "Eurobudget" fare levels ranged between 10 and 25 per cent below the applicable economy class normal fare, while Apex and Super Pex fare levels were some 60 to 70 per cent below the economy class normal fare.

General cargo rates for small shipments

5. The curve on Graph 5-12 has been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

53

Route group 6 (cont.)

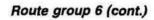
6. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

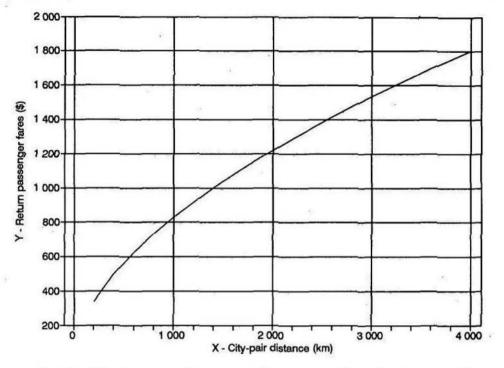
	Distance in km								
Estimated general cargo rates for shipments of less than 45 kg	250	500	1 000	2 000	3 000	4 000			
Rates in cents per tonne-km, 1993	433	315	229	167	138	121			
Percentage change (%), 1993/1992	-12.7	-17.0	-21.1	-25.0	-27.2	-28.7			

7. Between September 1992 and September 1993, the spread in the level of cargo rates for small shipments (under 45 kg) for routes within Europe above and below the estimated average remained significant. For countries from where the alternative cargo tariff structure introduced in April 1988 is being used, in September 1993 the rates were significantly higher at the shorter distances (some 35 per cent higher at 250 km) than the over-all average estimated rate level shown in the table above. However, at the longer distances (beyond 1 050 km) they were lower than the over-all average general cargo rate reaching some 25 per cent below at 4 000 km. The estimated average rate level for shipments from the rest of Europe, where the traditional cargo tariff structure applied, were similar to the over-all average at all the reference distances.

Other cargo rates

8. Table 5-12 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. There were generally few large shipment general cargo rates available for a given route with a breakpoint higher than 45 kg (except for routes from the United Kingdom and, in some cases, Ireland where the "small shipment" breakpoint was 100 kg). No specific commodity rates appeared to be available for the city-pairs in the sample in September 1993.



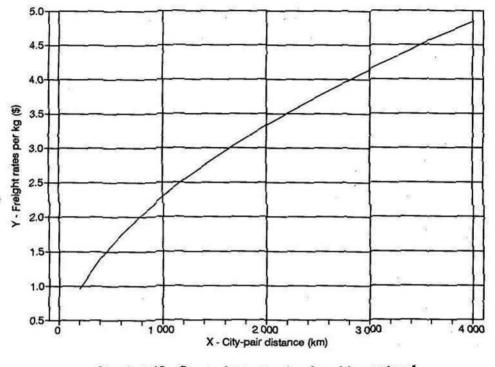


Graph 5-11. Economy class normal passenger fares (route group 6)

				INDIVIDU	AL FARES			GROUP	
	Flight	Highest economy class normal	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX, PEX	FARES Economy class	
City-pair (originating city first)	(km)	(U.S.\$)							
Paris — Istanbul	2 240	1 701	139	-	-	56	31		
Oujda — Frankfurt	1 900	952	140	-	-	65	48	17 - 12	
London - Seville	1 620	795	162	-	-	74	80	-	
Zurich - Malta	1 380	1 084	139	-	-	70	37-90		
Rome Bucharest	1 160	905	150	-	-	69	45-75	-	
Algiers — Tunis	620	171	151	100	-	55-73	-	-	
Prague — Warsaw	520	331	128	-	-	60	40-50	-	
Amsterdam — Birmingham	440	526	164	-	1.1 .1.1 55	74	42-95		
Brussels — Strasbourg	350	474	145	-		71	39-84	-	
Copenhagen — Gothenburg	230	402	-	-	-	-	32-64	41	

Table 5-11. Range of passenger fares available (route group 6)

Route group 6 (cont.)



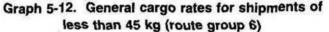


Table 5-12, Range of c	argo rates available	(route group 6)
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			GENERAL	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)	Over 45 kg (as a peru under-45	Over 500 kg centage of kg rate) ¹	Range (as a percentage of under-45 kg rate) ¹	Number of commo- dities
Tenerife — Frankfurt	3 190	40	2.95	79	56	2. 5 -	2 4 9
Lisbon — Amsterdam	1 850	32	1.88	77	45	2	33 76
Casablanca — Tunis	1 660	58-60	1.27-1.32	75-78	66-70	-	6 — 6
Rome — Istanbul ²	1 380	44	2.04	-	-		-
Paris — Madrid	1 070	56	2.57	75	-	5 == 6	-
Algiers — Marseille ³	770	40	0.90	-	55	-	-
London Frankfurt ³	650	50	1.98	-	55	- =	-
Berlin — Warsaw	520	71	2.51	78	-	12 - 0	
Helsinki Stockholm	400	55	1.50	86		y ===	
Dublin — Manchester ³	260 -	43	0.64	-	(<u>11</u>)	-	-

1. Rate calculated as a percentage of the higher under-45 kg rate when applicable.

2 Cargo rate structure based on a basic charge per consignment plus a rate per kilogram applicable to each kilogram in the consignment. For comparative purposes the charge per consignment is shown in the "Minimum charge" column and the "under-45 kg" rate was computed for a consignment of 45 kg.

3. The first breakpoint for general cargo rates is 100 kg (not 45 kg).

ROUTE GROUP 7: LOCAL MIDDLE EAST

Economy class normal passenger fares

1. The curve on Graph 5-13 has been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

	Distance in km							
Estimated economy class normal fares per passenger-kilometre	250	500	1 000	2 000	3 000			
Fares in cents per pass-km, 1993	44.5	32.6	23.9	17.5	14.6			
Percentage change (%), 1993/1992	3.8	2.1	0.4	-1.3	-2.3			

3. Between September 1992 and September 1993, the spread in the level of the economy class normal fares above and below the estimated average fares remained significant.

Other passenger fares

4. Table 5-13 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated in the sample, first and intermediate class fares remained widely available in September 1993. The only special fares available to the general public remained the economy class excursion fares. Where available, these fares were on average about one-third lower than the economy class normal fare. While there is a general lack of other economy class special fares available to the general public for travel within the Middle East, there are several preferential fares available for certain categories of passengers (youths, teachers, students, senior citizens, families, seamen and pilgrims). Where available these fares were some 20 to 50 per cent below the applicable economy class normal fare.

General cargo rates for small shipments

5. The curve on Graph 5-14 has been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

6. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

		Di	stance in km		
Estimated general cargo rates for shipments of less than 45 kg	250	500	1 000	2 000	3 000
Rates in cents per tonne-km, 1993	280	219	171	134	116
Percentage change (%), 1993/1992	-8.4	-0.4	8.3	17.7	23.6

Route group 7 (cont.)

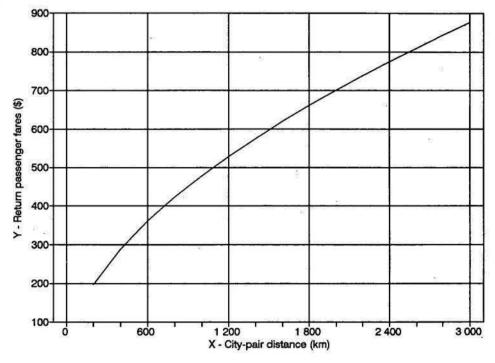
7. Between September 1992 and September 1993, there was a significant narrowing in the spread of general cargo rates for small shipments (under 45 kg) above and below the estimated average level. Hence in September 1993, these rates on routes within the Middle East were more dependent on distance and less dependent on other factors than in September 1992.

Other cargo rates

8. Table 5-14 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Generally, and as for previous years, only one general cargo rate for larger shipments was available for a given route, with a breakpoint of 45 kg. This general cargo rate for shipments of more than 45 kg was about 25 per cent lower than the rate for small shipments. A number of specific commodity rates continued to be available in this route group, giving an average reduction of around 60 per cent on the general cargo rates for small shipments.

Route group 7 (cont.)

4

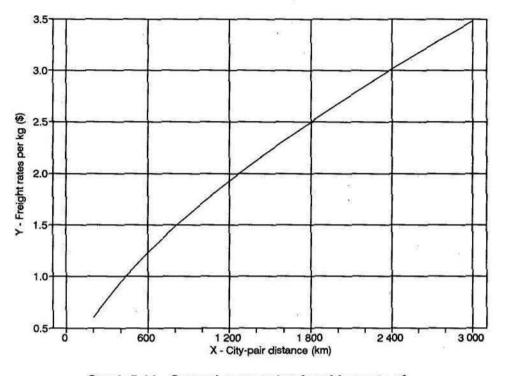


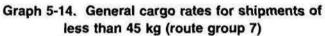


				INDIVIDU	AL FARES	0.22		GROUP
City-pair (originating city first)	Flight distance (km)	Highest economy class normal (U.S.\$)	First class normal	Inter- mediate class normal as a percentag	Economy class restricted ge of the highe	Economy class excursion st economy cla	Economy class APEX ass normal fam	FARES Economy class
Dubai — Cairo	2 420	1 024	139	115	-	74	5 4 6	(1)
Sanaa — Damascus	2 140	1 024	140	110		70	-	93 77 -33
Bahrain — Larnaca	1 880	915	137	115		60		9 Vi 19 – 0
Cairo — Riyadh	1 610	700	138	110	=.	66	3555	-
Tehran — Sharjah	1 220	501	150	110	<u>—</u>		-	-
Jeddah — Aden	1 170	699	140	110	=	66	-	—
Kuwait — Dubai	850	321	139	110	-	70	-	-
Muscat — Doha	700	473	-1	-1	80-100	-	-	+
Shiraz — Abu Dhabi	600	377	150	110	÷	-	20 <u>-</u>	-
Amman Beirut	240	155	136	110	(12) 10)	-0 ₁₄		3 — 3

Table 5-13.	Range of	passenger	fares available	(route group 7)

Route group 7 (cont.)





			GENERAL	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate)	Range (as a percentage of under-45 kg rate)	Number of commo- dities
Dubai — Cairo	2 420	22	4.29	75	-	25-70	3
Abu Dhabi — Amman	2 000	22	3.60	75	-	-	-
Beirut — Bahrain	1 680	18	1.48	78	-	45	1
Cairo — Riyadh	1 610	25	2.37	75	-	25-50	16
Tehran — Sharjah	1 220	21	2.09	75	- *	22-56	13
Khartoum — Jeddah	970	59	1.62	74	9 85	24-50	8
Kuwait — Dubai	850	20	1.61	75	-	-	-
Muscat - Doha	- 700	15	1.57	75	-	-	-
Shiraz — Abu Dhabi	600	22	1.32	74	-	30-43	5
Bandar Abbas — Sharjah	230	22	0.67	76	-	-	

Table 5-14. Range of cargo rates available (route group 7)

ROUTE GROUP 8: LOCAL AFRICA

Economy class normal passenger fares

1. The curve on Graph 5-15 has been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

Estimated economy class normal	Distance in km										
fares per passenger-kilometre	250	500	1 000	2 000	4 000	6 000					
Fares in cents per pass-km, 1993	31.7	27.0	23.1	19.7	16.8	15.3					
Percentage change (%), 1993/1992	-14.1	-13.2	-12.2	~11.2	-10.3	~9.7					

Other passenger fares

3. Table 5-15 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and intermediate class fares remained widely available in this route group in September 1993. Economy class excursion fares were also widely available at an average level some 30 per cent lower than the related economy class normal fares. In September 1993, Pex-type fares were available for 6 of the city-pairs in the sample, in general, at levels some 45 per cent lower than the applicable economy class normal fare. A few group fares were also available.

General cargo rates for small shipments

4. The curve on Graph 5-16 has been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

5. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

Estimated conoral cares rates for	Distance in km									
Estimated general cargo rates for shipments of less than 45 kg	250	500	1 000	2 000	4 000	6 000				
Rates in cents per tonne-km, 1993	210	186	164	145	128	120				
Percentage change (%), 1993/1992	-16.7	-12.8	-8.6	-4.3	0.3	3.0				

61

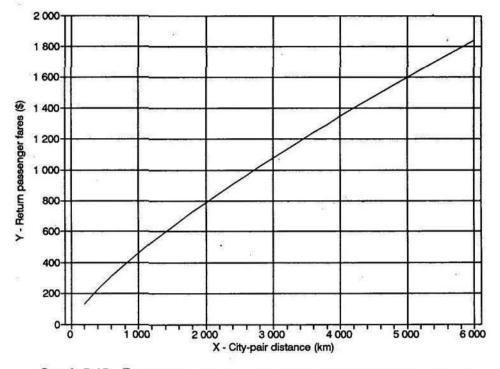
Route group 8 (cont.)

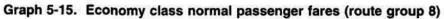
Other cargo rates

6. Table 5-16 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. The only general cargo rates widely available for other than small shipments remained those with a breakpoint of 45 kg, which were around 25 per cent lower than the general cargo rates for small shipments. On the other hand, some specific commodity rates remained available in this route group, giving an average reduction of around 55 per cent on the general cargo rates for small shipments.

Route group 8 (cont.)

c.

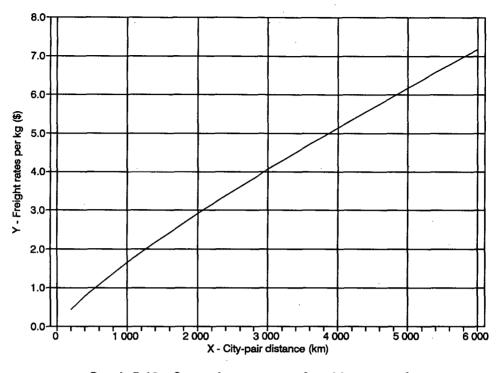


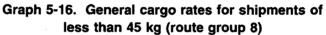


	2	INDIVIDUAL FARES								
City-pair (originating city first)	Flight	Highest economy class normal	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class PEX	GROUP FARES Economy class		
	(km)	(U.S.\$)	(as a percentaç	ge of the highe	st economy cl	ass normal fan	re)		
Addis Ababa — Lagos	3 920	1 232	140	110	-	69		50-60		
Nairobi — Johannesburg	2 910	744	145	115	-	81	74	-		
Lomé — Kinshasa	2 050	971	140	115	-	70	54-55	·		
Dar-es-Salaam — Lusaka	1 500	506	145	115	-	70	-	50-60		
Dakar — Bamako	1 060	491	140	115	-	70	55	-		
Johannesburg — Harare	960	441	145	115	-	70	-	60		
Antananarivo — St. Denis	870	605	145	115	-	71	-	50-60		
Abidjan — Cotonou	710	313	140	115		70	55	_ *		
Niamey — Ouagadougou	420	225	140	115	-	70	55	1.000		
Conakry - Freetown	120	130	142	114	-	71	54	50-58		

Table 5-15. Range of passenger fares available (route group 8)

Route group 8 (cont.)





			GENERAL	CARGO RATE	S	SPECIFIC COMMODITY RATES		
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate)	Range (as a percentage of under-45 kg rate)	Number of commo- dities	
Harare — Accra	4 310	24	1.86	75	_	50	1	
Addis Ababa — Lagos	3 920	32	4.46	75	_	23-58	6	
Nairobi — Johannesburg ¹	2 910	25	3.04	· _	-	19-59	6	
Lomé - Bangui	1 970	40	3.23	76	-	· _	-	
Dakar — Bamako	1 060	40	2.10	74	-	-	-	
Johannesburg — Harare ¹	960	18	1.29	_	50	31-67	4	
Brazzaville — Libreville	830	40	1.38	76	-	-	-	
Abidjan — Cotonou	710	40	1.38	76	-	-	_	
Niamey - Ouagadougou	420	40	0.86	75	-	-	-	
Bujumbura — Kigali	180	21	0.13	75		-	-	

Table 5-16. Range of cargo rates available (route group 8)

1. The first breakpoint for general cargo rates is 100 kg (not 45 kg).

ROUTE GROUP 9: BETWEEN EUROPE AND MIDDLE EAST

Economy class normal passenger fares

1. The curves on Graph 5-17 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

			Distance in km								
Estimated economy class normal fares per passenger-kilometre			500	1 000	2 000	4 000	6 000				
Fares in cents per pass-km, 1993											
Average	18:22		38.1	32.3	27.4	23.3	21.1				
Eastbound		14 H	38.2	33.4	29.1	25.5	23.5				
Westbound			38.0	31.3	25.8	21.3	19.0				
Percentage change (%), 1993/1992											
Average			4.7	0.9	-2.6	-6.1	-8.1				
Eastbound			15.0	4.0	-5.9	-14.8	-19.7				
Westbound			-4.6	~1.9	0.8	3.6	5.3				

3. Between September 1992 and September 1993, there was a significant decrease in the directional imbalance in the level of the estimated economy class normal fare per passenger-kilometre expressed in U.S. dollars at the shorter and longer distances.

4. Also between September 1992 and September 1993, there was a significant narrowing in the spread of the economy class normal fare levels above and below the estimated averages in the westbound direction. Hence in September 1993, fares from the Middle East to Europe were more dependent on distance and less dependent on other factors than in September 1992.

Other passenger fares

5. Table 5-17 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and intermediate class fares remained widely available in this route group in September 1993. Economy class excursion fares remained widely available to the general public at levels about 35 per cent lower on average than the applicable economy class normal fares. In September 1993, Pex-type fares were available on 6 of the 10 city-pairs in the sample (compared with 4 city-pairs in September 1992). Where available the level of these fares was, on average, some 50 per cent below that of the related economy class normal fare.

General cargo rates for small shipments

6. The curves on Graph 5-18 have been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

Route group 9 (cont.)

7. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

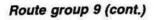
	Distance in km									
Estimated general cargo rates for shipments of less than 45 kg	500	1 000	2 000	4 000	6 000					
Rates in cents per tonne-km, 1993										
Average	182	170	160	150	144					
Eastbound	194	186	179	172	168					
Westbound	167	154	. 142	130	124					
Percentage change (%), 1993/1992			ř.							
Average	-7.3	-7.7	8.1	-8.5	-8.7					
Eastbound	4.7	-3.8	-11.5	-18.6	-22.5					
Westbound	-18.4	-11.6	-4.1	4.0	-9.0					

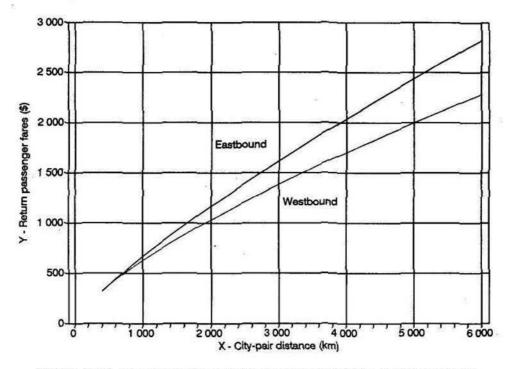
8. Between September 1992 and September 1993, there was a small increase in the directional imbalance in the rate levels between the eastbound and westbound direction of the estimated general cargo rates expressed in U.S. dollars for shipments of less than 45 kg at the shorter distances. However, it decreased significantly at the longer distances.

9. Between September 1992 and September 1993, there was a significant narrowing in the spread of general cargo rates for small shipments (less than 45 kg) above and below the estimated average for rates in the westbound direction. Thus, in September 1993 rate levels in this direction were more dependent on distance and less dependent on other factors than those in the eastbound direction.

Other cargo rates

10. Table 5-18 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. General cargo rates with a breakpoint of 45 kg remained some 25 per cent lower than the general cargo rates for small shipments (for routes from the United Kingdom the first breakpoint was 100 kg). General cargo rates for large shipments (including breakpoints above and below 500 kg) remained available for 6 of the 10 city-pairs in the sample. A large number of specific commodity rates remained available for 8 of the city-pairs in the sample. Where available they were at levels some 50 per cent lower on average than the general cargo rates for small shipments.



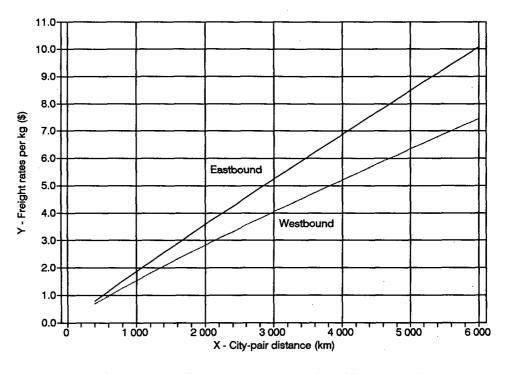


Graph 5-17. Economy class normal passenger fares (route group 9)

		INDIVIDUAL FARES							
	Flight	Highest economy class	First class normal	inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class PEX	GROUP FARES Economy class	
City-pair (originating city first)	distance (km)	normal (U.S.\$)	((as a percentage of the highest economy class normal far					
London — Abu Dhabi	5 520	2 102	187	120	74	79	57	59	
Dubai — Brussels	5 250	2 114	144	110	-	52-67	-	56	
Zurich — Dubai	4 770	2 919	145	112	-	66	41-53	-	
Tehran — Paris	4 190	1 747	147	115	-	77		-	
Amsterdam — Tel Aviv	3 310	1 990	146	100	-	52-62	26	-	
Jeddah — Tunis	3 250	1 197	140	110	-	59-68	-	-	
Cairo — Frankfurt	2 920	1 197	146	115	-	68	63	52	
Warsaw — Damascus	2 430	995	146	110	-	66	58	43	
Budapest - Beirut	2 030	1 170	133	100		58	57	37	
Amman Istanbul	1 210	512	129	115	-	68	-	52	

Table 5-17. Range of passenger fares available (route group 9)

Route group 9 (cont.)



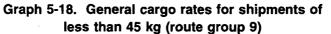


Table 5-18. Range of cargo rates available
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			GENERAL	S	SPECIFIC COMMODITY RATES		
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate)	Range (as a percentage of under-45 kg rate)	Number of commo- dities
London — Abu Dhabi ¹	5 510	75	7.08	_	44	65-67	6
Dubai — Brussels	5 150	52	7.59	75	32	22-37	5
Zurich — Dubai	4 770	80	8.11	78	31	40	1
Tehran — Paris	4 190	47	6.47	75	27	_	
Kuwait — Frankfurt	4 020	47	5.07	75	35	18-33	4
Riyadh — Vienna	3 680	47	5.38	75	32	28	1
Amsterdam — Tel Aviv	3 310	79	6.73	75		36-100	10
Cairo — Frankfurt	2 920	43	3.05	75	-	32-54	12
Tunis — Amman	2 430	37	1 83	75	-	40-52	3
Athens — Lamaca	950	32	0.97	-	-	-	-

1. The first breakpoint for general cargo rates is 100 kg (not 45 kg).

ROUTE GROUP 10: BETWEEN EUROPE/MIDDLE EAST AND AFRICA

Economy class normal passenger fares

1. The curves on Graph 5-19 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

	Distance in km								
Estimated economy class normal fares per passenger-kilometre	1	500	1 000	2 000	4 000	7 000	10 000		
Fares in cents per pass-km, 1993									
Average	• 3	2.1	28.0	24.4	21.2	19.0	17.7		
Northbound	3	7.7	30.1	24.0	19.1	15.9	14.2		
Southbound	2	7.4	26.0	24.7	23.5	22.6	22.0		
Percentage change (%), 1993/1992									
Average		8.7	2.4	-3.6	-9.2	-13.5	-16.1		
Northbound	_	2.7	-5.1	-7.4	-9.7	-11.5	-12.6		
Southbound	2	0.5	9.8	0.1	-8.7	-15.3	-19.2		

3. Between September 1992 and September 1993, there was a decrease in the directional imbalance of fare levels between the northbound and southbound directions at the shorter and longer distances.

Other passenger fares

4. Table 5-19 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and intermediate class fares were widely available in this route group in September 1993. Economy class excursion fares were also widely available, with levels averaging some 30 per cent lower than the applicable economy class normal fare. For 6 city-pairs, Apex and Pex-type fares remained available at levels some 45 per cent lower than the applicable economy class normal fare.

General cargo rates for small shipments

5. The curves on Graph 5-20 have been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances. The graph shows only the variations in the southbound direction as no significant relationship existed in September 1993 between rates and distances for the northbound direction or over-all (see paragraph 7 below).

Route group 10 (cont.)

6. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

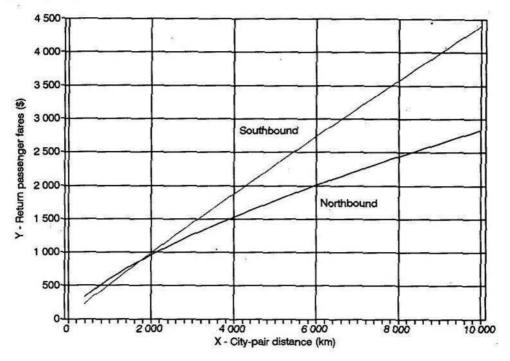
Estimated general cargo rates for	Distance in km									
shipments of less than 45 kg	500	1 000	2 000	4 000	7 000	10 000				
Rates in cents per tonne-km, 1993										
Average			[se	e paragrap	oh 7]					
Northbound				e paragrar						
Southbound	324	276	235	200	176	162				
Percentage change (%), 1993/1992			· · · ·	÷.,						
Average			Ise	e paragrap	oh 71	1				
Northbound				e paragrar						
Southbound	83.8	47.9	19.0	-4.3	-19.7	-28.2				

7. Between September 1992 and September 1993, there was a significant broadening in the spread of general cargo rate levels for small shipments (less than 45 kg) above and below the estimated average for rates in both directions. Also figures suggest that in September 1993, rate levels in the northbound direction were virtually independent of distance and therefore were not included. This lack of relationship between rates and distances was in part influenced by the relatively lower general cargo rate levels for small shipments from countries in Southern Africa. In September 1993, these rates expressed in U.S. dollars were some 50 per cent lower than the estimated average rates from the other countries in Africa to Europe and the Middle East.

Other cargo rates

8. Table 5-20 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. As in previous years, the only general cargo rates for large shipments widely available were those with a breakpoint of 45 kg, at a level 25 per cent lower than the general cargo rates for small shipments (except on routes to/from points in Southern Africa where the first breakpoint is at 100 kg). A significant number of specific commodity rates remained available in this route group, giving an average reduction of around 60 per cent on the general cargo rate for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for one city-pair in the sample (London-Johannesburg).



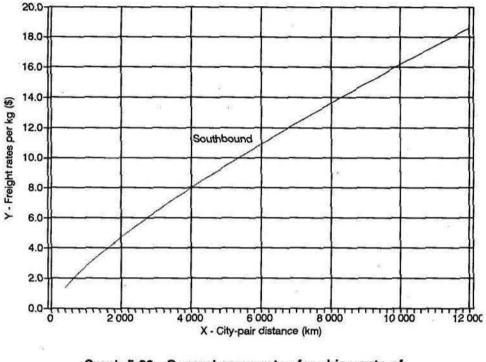


Graph 5-19. Economy class normal passenger fares (route group 10)

		12 12 - Li		INDIVIDU	AL FARES			GROUP
	Flight	Highest economy class normal	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX, PEX	GHOUP FARES Economy class
City-pair (originating city first)	(km)	(U.S.\$)	(as a percentage of the highest economy class normal far					
Moscow — Lusaka	9 600	5 736	157	115		68-79	-	50-56
London — Johannesburg	9 070	2 939	227	131	57	67	49	1
Harare — London	8 300	1 755	168	119	1.000	80-86	60	59
Johannesburg — Tel Aviv	6 500	1 425	162	115	-	83	71	62
Kinshasa — Brussels	6 240	2 670	145	115		66	55	1
Lisbon — Luanda	5 780	2 233	145	115	-	75	-	-
Rome — Nairobi	5 400	2 221	160	115	-	78	53	-
Abidjan — Paris	4 900	2 213	151	115	-	67	55	-
Cairo — Kano	3 100	953	126	116	-	70	-	53
Addis Ababa — Jeddah	1 410	649	282	218	321	56-72	·*/	52-61

Table 5-19. Range of passenger fares available (route group 10)

Route group 10 (cont.)



Graph 5-20. General cargo rates for shipments of less than 45 kg (route group 10)

			GENERAL (SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)	Over 45 kg (as a pero under-45		Range (as a percentage of under-45 kg rate)'	Number of commo- dities
London — Johannesburg ²	9 070	75	9.78	-	-	71-81	10
Harare - London ²	8 300	40	4.37	-	60	33-39	2
Frankfurt - Dar-es-Salaam	6 980	89	10.27	78	42		<u></u>
Johannesburg — Tel Aviv ²	6 620	27	3.30	<u></u>	-		<u>11</u> 18
Kinshasa — Brussels	6 240	56-60	5.05-6.76	56-75		20-57	12
Lisbon — Luanda	5 780	38	6.73	75	-	-	41
Rome — Nairobi ²	5 400	62	7.07	-	39	-	<u></u> !!
Abidjan — Paris	4 900	59	6.04	75	-	21	1
Cairo Kano	3 100	35	3.78	75	-	13-52	6
Addis Ababa Jeddah	1 410	32	2.77	75		13-47	8

Table 5-20. Range of cargo rates available (route group 10)

1. Rates calculated as a percentage of the higher under-45 kg rate where applicable.

2. The first breakpoint for general cargo rates is 100 kg (not 45 kg).

ROUTE GROUP 11: NORTH ATLANTIC

Economy class normal passenger fares

1. The curves on Graph 5-21 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

Estimated according sources		32	D	istance in km		
Estimated economy class normal fares per passenger-kilometre		4 000	6 000	8 000	10 000	12 000
Fares in cents per pass-km, 1993						
Average	•	21.5	18.7	16.9	15.6	14.7
Eastbound		21.6	19.0	17.3	16.1	15.2
Westbound		21.4	18.3	16.5	15.1	14.1
Percentage change (%), 1993/1992						
Average		-13.9	-11.2	-9.3	-7.8	-6.5
Eastbound		-5.4	-3.5	-2.1	-1.0	-0.1
Westbound		-21.3	-18.2	-15.9	-14.1	-12.6

3. Between September 1992 and September 1993, there was a significant decrease in the directional imbalance in economy class normal fares between the eastbound and westbound direction at the shorter distances.

4. When comparing fare levels by direction on the North Atlantic it should be noted that these refer to return fares. On many North Atlantic routes carriers are applying lower fares for return journeys in an attempt to discourage the practice of passengers obtaining reduced fares through the purchase of two one-way fares. In September 1993 return fares for 94 out of 273 city-pairs in the westbound direction were some 8 to 16 per cent lower than twice the corresponding one-way fare.

Other passenger fares

5. Table 5-21 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and intermediate class fares were widely available on the North Atlantic but were frequently very high relative to the economy class "normal" fares, in some cases reflecting the low level of the economy class restricted fare and non-availability of an economy class unrestricted fare. Economy class restricted fares remained a major feature of this route group (offered on 7 out of 10 city-pairs in the sample). Excursion fares were available on most of the sample city-pairs in this route group at levels some 40 per cent lower than the applicable highest economy class "normal" fare. Apex and/or Pex-type fares were seen to be available for almost all city-pairs at an average reduction of some 55 per cent on the applicable economy class normal fare. Group fares remained available on a few routes.

General cargo rates for small shipments

6. The curves on Graph 5-22 have been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances. The

Route group 11 (cont.)

graph shows only the variation of rates with distance in the eastbound direction as no significant relationship existed in September 1993 between rates and distances for the westbound direction or over-all (see paragraph 8 below).

7. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

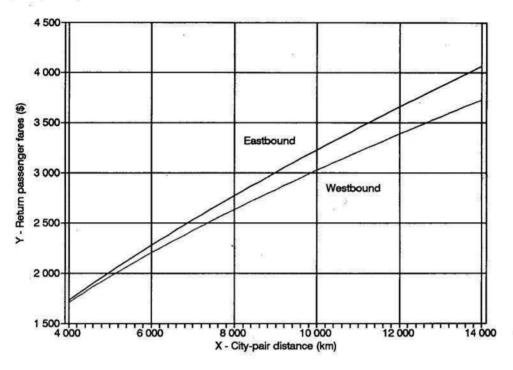
			Distance in km		
Estimated general cargo rates for shipments of less than 45 kg	4 000	6 000	8 000	10 000	12 000
Rates in cents per tonne-km, 1993	Υ	12			
Average			[see paragra	ph 8]	
Eastbound	142	118	104	94	87
Westbound			[see paragra	ph 8] 👘	
Percentage change (%), 1993/1992					
Average	52	4	(see paragra	ph 81	
Eastbound	-2.6	-2.8	-3.0	-3.1	-3.2
Westbound		24	[see paragra	ph 8]	

8. In September 1993 there was a significant spread in the level of general cargo rates for small shipments (less than 45 kg) above and below the average rates in both directions. Also figures for September 1993 suggest that rates across the North Atlantic in the westbound direction were virtually independent of distance and therefore were not included. This lack of relationship between rates and distance was in part influenced by the relatively lower general cargo rate levels for small shipments from Germany, Greece and South Africa. In September 1993 these rates expressed in U.S. dollars were some 50 to 60 per cent lower than the estimated average rates from the other countries in Europe/Middle East/Africa for routes across the North Atlantic.

Other cargo rates

9. Table 5-22 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several general cargo rates for shipments of more than 45 kg exist in each case, including for most city-pairs discounts for shipments over 100 and 300 kg. Large shipments of over 500 kg benefited from reductions of between about 30 and 70 per cent, averaging some 60 per cent. In September 1993 there were fewer specific commodity rates on routes across the North Atlantic than in previous years. Where available these rates were on average some 60 per cent lower than the general cargo rates for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for 6 city-pairs in the sample.







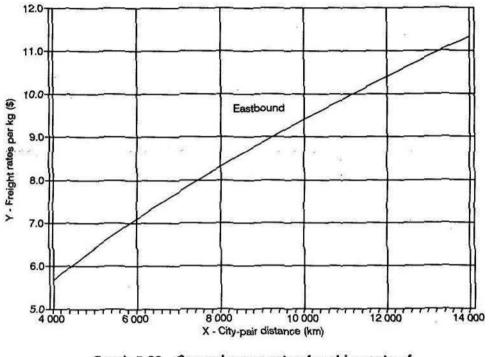
			2042-19-00	INDIVIDU	AL FARES		33	00000		
18	Flight	Highest economy class	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX PEX	GROUP FARES Economy class		
City-pair (originating city first)	distance (km)	(U.S.\$)	UNITED STATES AND A STATE AND							
Jeddah — New York	10 220	2 700	167	110	82	48-60	Ξ.	47-53		
Amsterdam — Los Angeles	8 960	3 016	211	134	-	57	43	÷		
New York — Lagos	8 440	3 048	167	116	96	70	58	-		
Houston — Paris	8 070	2 478	234	146	100	62	43-52			
Frankfurt — Atlanta	7 410	2 784	191	109	100	n) ⁽¹²²⁾	29-34	-		
Miami — Madrid	7 110	1 836	269	164	100	70	47-56	50		
Chicago — Copenhagen	6 850	2 164	232	118	100	-	42-54	-		
Milan — Toronto	6 610	2 117	192	114	200	55	50	-		
Montreal — Warsaw	6 470	2 607	183	108		58	36-41	-		
London — New York ²	5 540	1 860	312-318 ³	171-175	55-68	45	31-45	-		

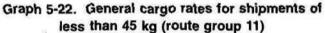
Table 5-21.	Range of	passenger	fares available	(route	group 11)

1. Where applicable, only mid-week fare levels are shown; weekend fares are somewhat higher.

Fares for supersonic aircraft also available.
 First class restricted fares also available.

Route group 11 (cont.)





	99 <u>7 - 1</u> 9		GENERAL C	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of kg rate)'	Range (as a percentage of under-45 kg rate)' 31	Number of commo- dities
Jeddah — New York	10 220	61	12.70	69	46	31	1
Amsterdam - Los Angeles	8 960	79	10.66	79	37	32-40	10
New York - Lagos	8 440	70	14.49	76	53	33-56	7
Houston - Paris	8 070	70	8.87-10.38	68-79	27-35	21-31	1
Frankfurt — Atlanta	7 410	89	3.63	83	70	-	-
Miami — Madrid	7 110	70	8.76	80	32	20-26	1
Chicago - Copenhagen ²	6 850	70	7.40-8.83		<u>1212</u> 5	v 😐 z	5: 2 <u>-</u> 25
Milan — Toronto ²	6 610	62	5.10	-	42	3 — 17	8 — 3
London — New York ²	6 510	75	5.90	-	29	24-25	2
Montreal - Warsaw	6 460	57	6.45	81	35	25-79	4

Table 5-22. Range of cargo rates available (route group 11)

Rates calculated as a percentage of the higher under-45 kg rate where applicable.
 The first breakpoint for general cargo rates is 100 kg (not 45 kg).

ROUTE GROUP 12: MID ATLANTIC

Economy class normal passenger fares

1. The curves on Graph 5-23 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group. The graph shows only the variation of fares with distance for the westbound direction as no significant relationship existed in September 1993 between fares and distance for the eastbound direction or over-all (see paragraph 3 below).

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

-	Distance in km						
Estimated economy class normal fares per passenger-kilometre	6 000	8 000	10 000	12 000			
Fares in cents per pass-km, 1993			1960				
Average			igraph 3]	12			
Eastbound		[see para	(graph 3]				
Westbound	20.0	18.6	17.5	16.7			
Percentage change (%), 1993/1992	2			<i>1</i> 1			
Average		[see para	graph 3]				
Eastbound		[see para					
Westbound	-21.5	-17.7	-14.6	-12.0			

3. Between September 1992 and September 1993, the spread in economy class normal fare levels above and below the estimated averages in the eastbound direction remained significant. Hence, in September 1993 fares in this direction continued to be less dependent on distance and more dependent on other factors than those in the westbound direction.

Other passenger fares

4. Table 5-23 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and intermediate class fares were widely available in this route group. Economy class excursion fares continued to be widely available in September 1993 at an average level some 25 per cent lower than the applicable economy class normal fares. As for the previous year, Apex and Pex-type fares were available for most city-pairs in the sample, at a level about 50 per cent lower than the applicable economy class normal fare on average.

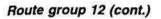
General cargo rates for small shipments

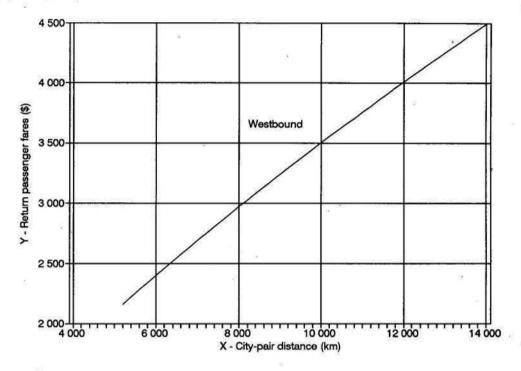
5. In September 1993 there was a significant spread in the level of rates for small shipments (less than 45 kg) above and below the average in the eastbound and westbound directions. Rate levels in both directions were virtually independent of distance and are therefore not included. The scatter of actual rates above and below the average in the westbound direction (i.e. to the Caribbean and Latin America) was generalized and not mainly due to the relatively lower rates from Germany, although the latter remained a factor.

Route group 12 (cont.)

Other cargo rates

6. Table 5-24 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several general cargo rates for shipments of more than 45 kg existed in each case, including discounts for shipments over 100 and 300 kg. With the exception of shipments from Germany, shipments over 500 kg continued to benefit from reductions of some 60 to 75 per cent on the small shipment rate. Similarly, specific commodity rates were available for most city-pairs in the sample, giving as in previous years a reduction of some 70 per cent on average from the small shipment rate. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for 5 of the 10 city-pairs in the sample.







			INDIVIDUAL FARES							
	Flight	Highest economy class normal	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX, PEX	GROUP FARES Economy class		
City-pair (originating city first)	(km)	(U.S.\$)								
Lima — Madrid	10 170	3 086	172	109	-	66-85	61	8.00		
Moscow — Havana	9 860	2 884	165	112	8 — 8	66	56	59-62		
Amsterdam — Guayaquil	9 830	4 078	165	109	-	76	42	22 23 - 0		
Mexico — Frankfurt	9 550	2 720	180	115	10	69	39	5 77 1		
Bogota — Paris	8 640	2 394	179	115	3 12	67-77	-	13 - 11		
Caracas — Milan	8 060	2 406	165	110	2	62-80	2 	32 - 31		
Frankfurt — San Juan	7 490	2 849	158	111	5	73	39	3 2		
Port of Spain — London	7 090	2 514	198	128	64	37 — 33	46-51	-		
Madrid — Santo Domingo	6 690	2 239	174	112	3770	82	53-58	54		
Lisbon — Recife	5 860	1 893	168	110	1 	77	. 58	55		

Table 5-23. Range of passenger fares available (route group 12)

Route group 12 (cont.)

In September 1993 there was no significant relationship between rates and distance on routes across the Mid Atlantic in either direction.

Graph 5-24. General cargo rates for shipments of less than 45 kg (route group 12)

			GENERAL	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight Minimum Under 45 kg 500 l distance charge 45 kg (as a percentage		Range (as a percentage of under-45 kg rate)	Number of commo- dities			
Lima — Madrid	10 030	51	14.66	77	36	12-33	12
Amsterdam Guayaquil	9 840	79	18.37	77	24-42	28-36	9
Mexico — Frankfurt	9 770	60	9.84	84	41	13-65	15
Bogota — Paris	8 660	55	10.30	80	38	11-44	15
Caracas — Milan	8 060	60	10.30	80	27	9-27	11
Paris — Havana'	7 740	84	12.63	-	-		<u>. N</u>
Frankfurt — San Juan	7 380	89	4.07	84	74	97	2
Port of Spain — London	7 090	68	15.00	76	38	4-60	4
Madrid — Santo Domingo ¹	6 690	61	6.47	-	44	45-69	2
Lisbon — Recife	5 860	38	8.55	75	43	22-40	18

Table 5-24. Range of cargo rates available (route group 12)

ROUTE GROUP 13: SOUTH ATLANTIC

Economy class normal passenger fares

1. The curves on Graph 5-25 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

Estimated economy class normal	Distance in km									
fares per passenger-kilometre	6 000	8 000	10 000	12 000	14 000					
Fares in cents per pass-km, 1993										
Average	17.2	17.2	17.1	17.1	17.1					
Eastbound	19.3	17.5	16.2	15.3	14.5					
Westbound	15.5	16.9	18.1	19.1	20.0					
Percentage change (%), 1993/1992										
Average	-8.4	-8.8	-9.2	-9.5	-9.7					
Eastbound	-0.5	0.1	0.5	0.9	1.3					
Westbound	-14.1	-16.2	-17.8	-19.1	-20.2					

3. Between September 1992 and September 1993, there was an increase in the directional imbalance in economy class normal fares between the eastbound and westbound directions at the shorter distances, however the directional imbalance in fare levels at the longer distances decreased.

Other passenger fares

4. Table 5-25 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, in September 1993 first and intermediate class fares were widely available in this route group. Economy class excursion fares continued to be widely available in September 1993 on average at levels some 25 per cent below the related economy class normal fare. Apex and Pex-type fares remained available for most city-pairs in the sample at levels ranging between about 35 and 65 per cent below the economy class normal fare.

General cargo rates for small shipments

5. The curves on Graph 5-26 have been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

Route group 13 (cont.)

6. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

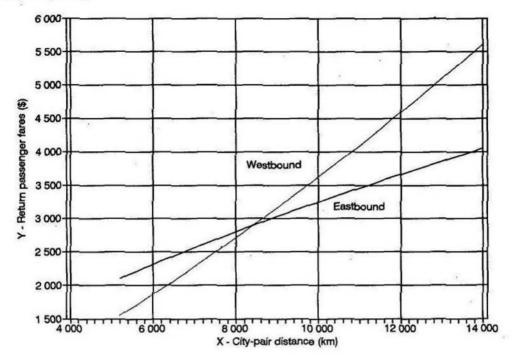
	- 8 - 14 - 16 - 16 - 16 - 16 - 16 - 16 - 16	16-13-13-13-13 14	na an	()) - 105 - 61 - 5	-10					
Estimated general cargo rates	Distance in km									
for shipments of less than 45 kg	6 000	8 000	10 000	12 000	14 000					
Rates in cents per tonne-km, 1993										
Average	146	136	128	123	118					
Eastbound	150	136	126	118	112					
Westbound	143	136	131	127	124					
Percentage change (%), 1993/1992			¥1							
Average	-12.5	-10.5	-9.0	-7.7	-6.5					
Eastbound	-2.7	-1.4	-0.4	0.4	1.1					
Westbound	-20.1	-18.0	-16.4	-15.0	-13.8					

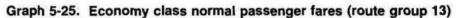
7. Between September 1992 and September 1993, there was a significant broadening of the spread in the level of general cargo rates for small shipments (less than 45 kg) above and below the average rates in the westbound direction (to South America). Figures for September 1993 suggest that rates across the South Atlantic in the westbound direction are more dependent on distance and less dependent on other factors than in September 1992 when these rates were virtually independent of distance.

Other cargo rates

8. Table 5-26 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several cargo rates for shipments of more than 45 kg exist in each case including discounts for shipments over 100 and 300 kg. Shipments over 500 kg continued to benefit from an average reduction of some 60 per cent on the small shipment rate. As in previous years a large number of specific commodity rates also remained available in this route group, with an average level some 70 per cent lower than the general cargo rates for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) remained available for one city-pair in the sample (London-Rio de Janeiro). The high level of the general cargo rates across the South Atlantic should thus be considered in the context of the particularly large number of lower rates available.





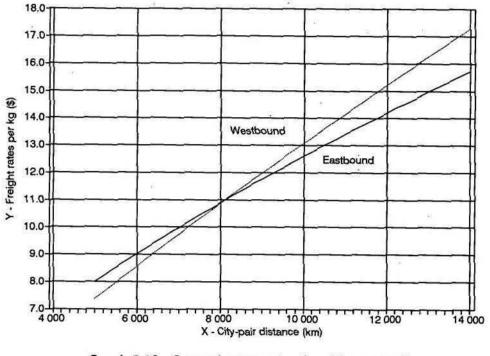


				INDIVIDU	AL FARES			CROUR	
	Flight	Highest economy class	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX, PEX	GROUP FARES Economy class	
City-pair (originating city first)	distance (km)	normal (U.S.\$)	(as a percentage of the highest economy class normal fare)						
Frankfurt — Santiago de Chile	12 410	4 976	149	110	-	93	40	-	
Santiago de Chile - Paris	12 240	3 675	150	112	-	67	50	-	
Amsterdam — Montevideo	11 460	4 714	156	112	-	75	40	-	
Buenos Aires - Rome	11 160	3 435	. 150	110	-	69	51	-	
Copenhagen — Rio de Janeiro	10 230	4 066	166	112	-	76	35-53	-	
Sao Paulo — Zurich	9 730	3 272	157	112	-	65-69	53	-	
Asuncion — Madrid	9 340	2 301	152	110	-	69	56	-	
London - Rio de Janeiro	9 250	2 441	291	183	-	108	63	-	
Lisbon - Sao Paulo	7 960	2 130	162	110	-	77	56	1.000	
Rio de Janeiro — Johannesburg	7 360	2 620	143	115	-	51-86	5 	-	

Table 5-25. Range of passenger fares available (route group 13)

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Route group 13 (cont.)



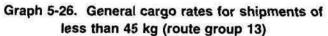


Table 5-26. Ran	nge of car	go rates av	ailable (route	group 13)
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			GENERAL	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate)	Range (as a percentage of under-45 kg rate)	Number of commo- dities
Buenos Aires — Moscow	13 600	50	15.62	76	43	-	_
Frankfurt — Santiago de Chile ¹	12 700	89	8.07	-	58	-	-
Santiago de Chile - Paris	12 320	50	14.56	75	36	14-17	8
Amsterdam - Montevideo1	11 380	79	16.00	-	27	-	-
Buenos Aires — Rome	11 170	50	13.69	75	38	13-66	21
Copenhagen — Rio de Janeiro	10 180	72	14.74	76	37	27-32	2
Montevideo - Madrid	9 970	50	12.33	76	40	17-36	10
London — Rio de Janeiro ¹	9 250	75	9.75	-	41	48-83	3
Lisbon - Sao Paulo	8 070	38	8.70	75	43	18-40	19
Sao Paulo — Dakar	5 310	50	8.46	78	34	19	1

ROUTE GROUP 14: LOCAL ASIA/PACIFIC

Economy class normal passenger fares

1. The curve on Graph 5-27 has been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the ollowing table:

Estimated assessment class as mot	Distance in km									
Estimated economy class normal fares per passenger-kilometre	250	500	1 000	. 2 000	4 000	7 000	10 000			
Fares in cents per										
pass-km, 1993	26.4	23.7	21.2	18.9	17.0	15.5	14.6			
Percentage change (%),		~								
1993/1992	7.1	5.8	4.6	3.3	2.1	1.1	0.5			

Other passenger fares

3. Table 5-27 shows for September 1993 for a sample of 10 city-pairs in the route group the ange of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and ntermediate class fares remained widely available in September 1993. Economy class excursion fares were available for 8 out of 10 city-pairs in the sample. Where available, these fares ranged between about 5 and 35 per cent below the level of the applicable economy class normal fare. Apex and Pex-type fares were available for a few city-pairs in the sample at a level some 20 to 65 per cent below the level of the applicable economy class normal fares, not appearing in multilateral ariff manuals, are known to be available for many city-pairs in this route group.

General cargo rates for small shipments

1. The curve on Graph 5-28 has been statistically computed so as to reflect best the average evel of general cargo rates for shipments of less than 45 kg for this route group at different distances.

5. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the ollowing table:

				Distance	in here		
Estimated general cargo rates for shipments of less than 45 kg	250	500	1 000	2 000 4 000		7 000	10 000
			1 000	2 000	+ 000	1 000	
Rates in cents per	10000	100000	0.222		100220	1000	19727
tonne-km, 1993	299	237	187	148	117	97	86
Percentage change (%),	21270	100000	1000 01	12/12		1000 A	12/12/1
1993/1992	17.9	14.1	10.4	6.9	3.4	0.7	-1.0

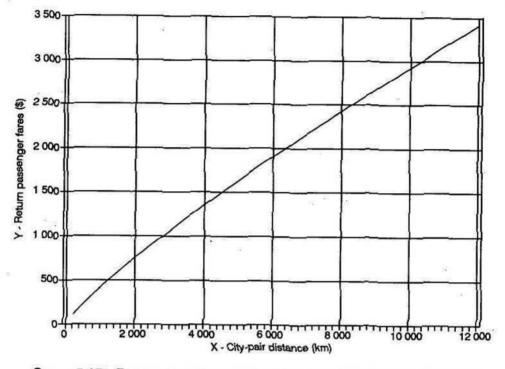
Route group 14 (cont.)

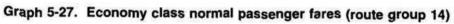
6. Between September 1992 and September 1993, the spread of general cargo rate levels for small shipments (less than 45 kg) above and below the estimated average for rates in this route group remained significant.

Other cargo rates

7. Table 5-28 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. The only general cargo rates widely available for other than small shipments remained those with a breakpoint of 45 kg. These general cargo rates for shipments of more than 45 kg were about 25 per cent lower than the rates for small shipments. Specific commodity rates were available for most city-pairs in the sample at a level some 55 per cent lower on average than the general cargo rates for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for a few city-pairs mainly within the South West Pacific area.

Route group 14 (cont.)

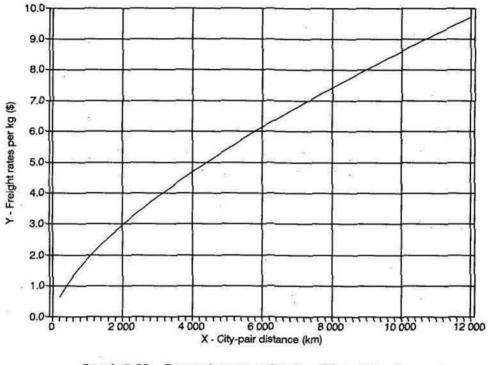


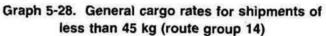


				INDIVIDU	AL FARES	2.9462		CROUR
City-pair (originating city first)	Flight	Highest economy class	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX, PEX	GROUP FARES Economy class
	(km)	(U.S.\$)	(as a percentage of the highest economy class normal far					
Auckland — Singapore	8 410	2 265	150	115	-	36-69	34-51	19 <u>11</u>
Karachi — Manila	5 720	1 095	144	115	-	58	-	57
Beijing — Karachi	4 860	1 593	140	110	-	66		2
Bangkok — Seoul	3 690	1 222	147	115	3 <u></u> -	85	1120	
Hong Kong — Tokyo	2 940	828	155	126	-	95	-	76
Melbourne — Christchurch	2 410	817	174	136	-	60	47-81	47
Port Moresby — Brisbane	2 090	870	175	133	-	-	69	53
Sydney — Noumea	1 980	857	145	125		55		52
Kuala Lumpur — Jakarta	1 200	398	131	115-123	-	75		-
Madras — Colombo	650	109	145	130	-		-	-

Table 5-27. Range of passenger fares available (route group 14)

Route group 14 (cont.)





			GENERAL	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate)	Range (as a percentage of under-45 kg rate)	Number of commo- dities
Auckland — Singapore	8 410	28	7.14	75	-	21-32	3
Karachi — Manila	5 720	15	3.07	75		. 17-60	4
Beijing — Karachi	4 860	19	3.76	- 75	-	(<u>111</u>)	1944
Bangkok — Seoul	3 690	28	4.34	75	-	39-58	2
Hong Kong — Tokyo	2 940	25	2.88	75		55-57	4
Melbourne — Christchurch	2 410	24	3.67	75	44	23-42	з
Port Moresby — Brisbane	2 090	31	2.74	100	85	32-73	4
Sydney — Noumea	1 980	24	2.03	75	-	70	1
Kuala Lumpur — Jakarta.	1 200	20	1.30	75	-	-	-
Colombo — Male	650	11	0.60	69	-	-	-

Table 5-28. Range of cargo rates available (route group 14)

ROUTE GROUP 15: BETWEEN EUROPE/MIDDLE EAST/AFRICA AND ASIA/PACIFIC

Economy class normal passenger fares

1. The curves on Graph 5-29 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

Estimated economy class normal	Distance in km								
fares per passenger-kilometre	1 000	3 000	6 000	10 000	14 000	18 000			
Fares in cents per pass-km, 1993	¥ 10	- 97		0000					
Average	15.9	16.1	16.1	16.2	16.2	16.2			
Eastbound	21.6	19.1	17.7	16.7	16.1	15.7			
Westbound	11.7	13.4	14.7	15.7	16.3	16.9			
Percentage change (%), 1993/1992									
Average	60.4	24.5	6.1	-5.7	-12.7	-17.7			
Eastbound	79.2	26.5	1.5	-13.7	-22.4	-28.3			
Westbound	42.8	22.0	10.5	2.7	-2.1	-5.6			

3. Between September 1992 and September 1993, there was an increase in the directional imbalance in the level of the estimated economy class normal fare per passenger-kilometre between the eastbound and westbound directions at the shorter distances and a decrease at the longer ones.

4. Also between September 1992 and September 1993, there was a significant increase in the estimated level of the average fare at the shorter distances and a decrease at the longer ones. These changes in the average fare level were in part caused by the absence from the multilateral tariff manuals for September 1993 of fares for some 76 city-pairs involving points between States belonging to the Commonwealth of Independent States. In September 1992 fare levels for these city-pairs were some 30 to 60 per cent below the average for the rest of the fares in this route group. Had these 76 city-pairs not been present in the analysis for September 1992 the over-all average change between September 1992 and September 1993 would have ranged between an increase of about 6 per cent at the shorter distances to a decrease of about 8 per cent at the longer ones.

Other passenger fares

5. Table 5-29 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first and intermediate class normal fares remained widely available for this route group in September 1993. Economy class excursion fares or Apex and Pex-type fares remained available for 9 city-pairs in the sample. The level of these fares ranged between 15 to 60 per cent below the related economy class normal fare. Other fares, not appearing in multilateral tariff manuals, are known to be available for some city-pairs in this route group.

General cargo rates for small shipments

6. The curves on Graph 5-30 have been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

Route group 15 (cont.)

7. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

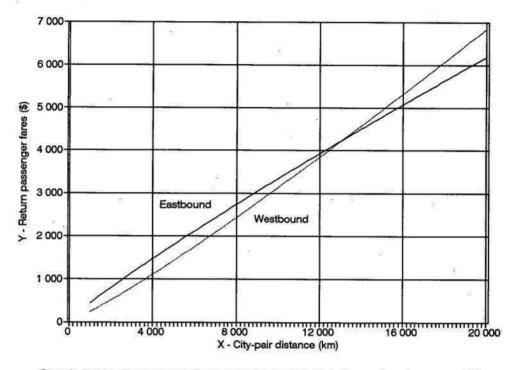
Following and a second second second second	Distance in km									
Estimated general cargo rates for shipments of less than 45 kg	1 000	3 000	6 000	10 000	14 000	18 000				
Rates in cents per tonne-km, 1993		7	(4)	31		- 10 - 10 M				
Average	143	123	112	104	100	96				
Eastbound	245	169	134	113	101	92				
Westbound	82	89	93	97	99	101				
Percentage change (%), 1993/1992										
Average	6.8	0.1	-3.9	-6.7	-8.5	-9.8				
Eastbound	10.7	-2.2	-9.6	-14.7	-17.8	-20.1				
Westbound	0.1	0.9	1.3	1.7	1.9	2.1				

8. Between September 1992 and September 1993, there was an increase in the directional imbalance in the level of the estimated general cargo rate for small shipments (less than 45 kg) between the eastbound and westbound direction at the shorter distances. However, at the longer distances the directional imbalance showed a small decrease.

Other cargo rates

9. Table 5-30 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline As in previous years general cargo rates for shipments of more than 45 kg remained widely available. Discounts for large shipments (over 500 kg) were available for some city-pairs giving an average reduction of some 45 to 50 per cent with substantially lower levels in two instances. In September 1992, a number of specific commodity rates remained available in the route group at a level some 55 per cent lower on average than the general cargo rate for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for two city-pairs in the sample (Sydney-Frankfurt and Perth-Harare).





Graph 5-29. Economy class normal passenger fares (route group 15)

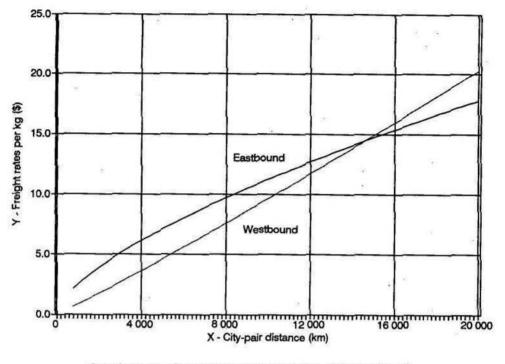
				INDIVIDU	IAL FARES			
	Flight distance	Highest economy class normal	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX, PEX	GROUP FARES Economy class
City-pair (originating city first)	(km)	(U.S.\$)	(as a percentage of the highest economy class normal far					
Sydney — Frankfurt	16 510	4 115	154 ¹	1151		41-53	3 - 0	1754
Jakarta — Rome	12 920	3 240	162	110	-	57	-	66
London — Tokyo	9 590	4 181	179	114	49	49	41	41
Zurich — Seoul	8 750	4 538	174	113	312233	51	40-46	2
Perth — Harare	8 500	3 409	1541	118 ¹	58	49	-	8 <u>—</u> 86
Bahrain — Manila	7 370	2 362	150	110	3 — 3	70	-	60
Bombay — Moscow	5 050	2 124	141	115	33 — (5)	43	-	29-37
Nairobi — Bombay	4 530	624	151	115	21 — 22	83	-	a <u>-</u> a ⁷⁸
Dhaka — Dubai	3 540	968	132	110	3 - 9		-	70
Dhahran — Karachi	1 710	721	142 ²	110		70-72	-	61
					12	10 m		

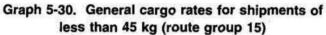
Table 5-29. Range of passenger fares available (route group 15)

1. First and intermediate class restricted fares also available.

2. First class excursion fares also available.

Route group 15 (cont.)





		GENERAL CARGO RATES					MODITY
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate)	Range (as a percentage of under-45 kg rate)	Number of commo- dities
Sydney Frankfurt	16 510	37	8.68	75	24	22-94	3
Zurich - Seoul	12 340	80	14.98	71	28		-
Jakarta Rome	11 630	64	10.29	80	-	34-58	11
London — Tokyo ¹	9 590	75	12.15	-	54	30-57	9
Perth — Harare ¹	8 500	37	5.95		50	26-36	1
Bahrain Manila	7 560	59	14.58	75	-		
Nairobi — Bombay	5 500	27	3.42	75		50	1
Delhi — Moscow ¹	4 360	18	3.39	1.1	50	42-68	5
Dhaka — Abu Dhabi	3 540	18	3.45	75	50	(),	-
Dhahran — Karachi	1 710	37	2.90	75	-	39-54	2

Table 5-30. Range of cargo rates available (route group 15)

1. The first breakpoint for general cargo rates is 100 kg (not 45 kg).

ROUTE GROUP 16: NORTH AND MID PACIFIC

Economy class normal passenger fares

1. The curve on Graph 5-31 has been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre for which a relationship with distance exist are shown in the following table:

	Distance in km								
Estimated economy class normal fares per passenger-kilometre	6 000	8 000	10 000	14 000	18 000				
Fares in cents per pass-km, 1993									
Average	14.6	13.2	12.2	10.9	10.0				
Eastbound	15.8	14.2	13.1	11.6	10.6				
Westbound	13.5	12.3	11.4	10.2	9.4				
Percentage change (%), 1993/1992				Q1	14				
Average	-0.9	1.7	3.8	7.1	9.6				
Eastbound	1.0	4.7	7.6	12.3	15.8				
Westbound	-2.7	-1.2	0.0	1.8	3.2				

3. The major cause for the spread in the level of fares expressed in U.S. dollars above and below the average in the eastbound direction (from Asia) was the high fare levels from Japan which continued to remain well above the estimated average. In September 1993, economy class normal fares from Japan across the North-Mid Pacific were represented by 33 of the 102 city-pairs in the eastbound direction. In U.S. dollar terms these fares were on average between 65 and 90 per cent higher than the estimated average fares from other Asian countries across the North-Mid Pacific.

Other passenger fares

4. Table 5-31 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first class normal fares are relatively high in comparison with economy class normal fares on the North-Mid Pacific routes. On the other hand, intermediate class normal as well as some restricted fares were available for almost all city-pairs in the sample. In September 1993, economy class restricted fares were available for almost all city-pairs in the sample, and in most cases (8 city-pairs out of 10) they represented the highest economy class fare available. Thus in September 1993, for most city-pairs in this route group, the lowest unrestricted (normal) fare was the intermediate class normal fare. Economy class excursion fares were offered on 6 of the 10 city-pairs in the sample, at average levels some 25 per cent below the economy class normal fare. The relatively commonly available Apex and Pex-type fares on average offered reductions of around 35 per cent of the related economy class normal fare. In September 1993 group fares were available for 6 of the 10 city-pairs in the sample. Where available, group fares were some 20 to 55 per cent below the applicable economy class normal fare. "Circle fares" were also available for a few city-pairs in the sample. These are published fares which allow for travel by a continuous circuitous air route which may include points in the South Pacific.

General cargo rates for small shipments

5. The curve on Graph 5-32 has been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances. The

Route group 16 (cont.)

graph shows only the variation of rates with distance in the westbound direction as no significant relationship existed in September 1993 between rates and distance for the eastbound direction (see paragraph 7 below).

6. Estimated small shipment general cargo rate levels per tonne-kilometre for which a relationship with distance exists are shown in the following table:

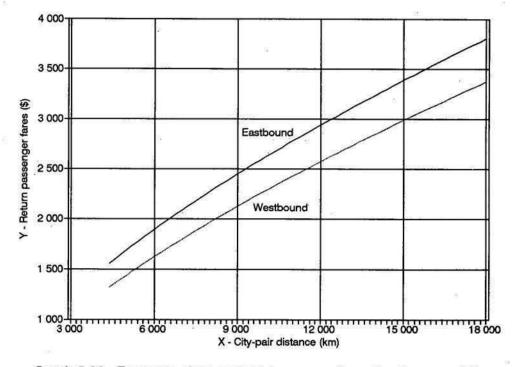
Estimated reserve rates	Distance in km								
Estimated general cargo rates for shipments of less than 45 kg	6 000	8 000	10 000	14 000	18 000				
Rates in cents per tonne-km, 1993									
Average Eastbound			[see paragrap						
Westbound	106	04	[see paragrap 85	74	67				
westbound	106	94	65	/4	67				
Percentage change (%), 1993/1992									
Average			[see paragrap	h 7]					
Eastbound			[see paragrap						
Westbound	-3.8	-2.1	-0.7	1.5	3.1				

7. As in previous years in September 1993 cargo rates from Asia across the North-Mid Pacific remained virtually independent of distance. The scatter of actual rates above and below the average from Asia is generalized and not mainly due to relatively high rates from Japan, although the latter remained a factor.

Other cargo rates

8. Table 5-32 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several general cargo rates for shipments of more than 45 kg existed in each case (including breakpoints at 100 and 300 kg for all city-pairs in the sample) with an average reduction of some 50 per cent for large shipments (over 500 kg). In September 1993, specific commodity rates were available for almost all the city-pairs in the sample with an average reduction of some 60 per cent on the applicable general cargo rate for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for 4 out of 10 city-pairs in the sample.

Route group 16 (cont.)



Graph 5-31. Economy class normal passenger fares (route group 16)

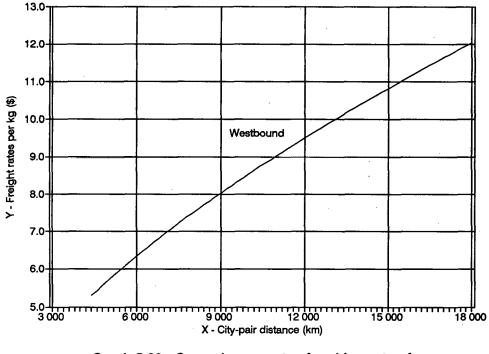
		-		INDIVIDU	AL FARES'			00010
	Flight	Highest economy class	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX, PEX	GROUP FARES Economy class
City-pair (originating city first)	distance (km)	normal (U.S.\$)	((as a percentage of the highest economy class normal fare				
Lima — Tokyo	15 470	3 294	199	110	92	3577	62	-
Kuala Lumpur — Los Angeles	14 140	2 517	161	110 ²	-	82	49	70-76
Singapore — San Francisco	13 610	3 279	157	110 ²	100	63-88	54	68-75
Los Angeles — Manila	11 800	1 624	266-274	146-151	100	81	53-85	-
Tokyo — Mexico	11 450	3 843	229	120	100	-	68	68
San Francisco — Hong Kong	11 110	2 026	205-231	119-126	93-100	47-70	49-76	47-72
Hong Kong — Vancouver	10 250	1 984	223	115	100	88	81	82
Seattle — Beijing	9 790	2 222	211	136	100	19 <u>10</u> -1	76-86	
Seoul - Seattle	8 350	1 738	196	128 ²	100	70-82	Ŧ	71
Honolulu — Tokyo	6 130	1 526	236	137	100	(= 2	56	-

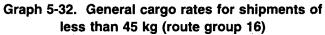
Table 5-31. Range of passenger fares available (route group 16)

1. Where applicable, only mid-week fare levels are shown; weekend fares are somewhat higher.

2. Intermediate class restricted fares also available.

Route group 16 (cont.)





			GENERAL C	SPECIFIC COMMODITY RATES			
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)	Over 45 kg (as a pero under-45		Range (as a percentage of under-45 kg rate) ¹	Number of commo- dities
Lima — Tokyo	15 470	60	12.19	76 ⁻	49	27-35	9
Kuala Lumpur — Los Angeles	14 140	43	7.08	76	55	34-72	6
Singapore — San Francisco	13 680	65-106	10.98-11.76	71-76	50-54	40-70	5
Los Angeles — Manila	12 630	55	8.21	° 77	-	37	1
Tokyo — Mexico	11 450	98	22.78	76	50	50	2
San Francisco — Hong Kong	11 110	55	8.68	77	-	29-35	2
Hong Kong — Vancouver	10 250	60	10.98	76	47	40-63	11
Los Angeles — Osaka	9 760	55	8.19	76	49	14-19	11
Seoul - Seattle	8 350	45	4.66	7 9	68	_	-
Honolulu — Tokyo	6 130	55	6.77	77	50	29-38	3

Table 5-32. Range of cargo rates available (route group 16)

1. Rates calculated as a percentage of the higher under-45 kg rate where applicable.

ROUTE GROUP 17: SOUTH PACIFIC

Economy class normal passenger fares

1. The curves on Graph 5-33 have been statistically computed so as to reflect best the way in which the economy class normal passenger fares vary with distance for city-pairs within this route group.

2. Estimated economy class normal fare levels per passenger-kilometre are shown in the following table:

Estimated economy class normal	Distance in km							
fares per passenger-kilometre	4 000	6 000	8 000	12 000	16 000			
Fares in cents per pass-km, 1993					1) 1967 (* 146			
Average	20.9	18.9	17.6	15.9	14.8			
Eastbound	18.5	17.4	16.6	15.6	15.0			
Westbound	23.7	20.6	18.6	16.2	14.7			
Percentage change (%), 1993/1992								
Average	8.1	4.3	1.7	-1.9	-4.3			
Eastbound	-6.0	-3.9	-2.4	-0.3	1.2			
Westbound	25.3	13.5	5.8	-4.1	-10.6			

3. Between September 1992 and September 1993, there was a significant increase in the directional imbalance in the level of the estimated economy class normal fare per passenger-kilometre between the eastbound and westbound directions at the shorter distances and a decrease at the longer ones.

4. Between September 1992 and September 1993, there was a significant decrease in the spread of economy class normal fares above and below the estimated average in the eastbound direction. Hence in September 1993, fare levels in this direction were more dependent on distance and less dependent on other factors than in September 1992.

Other passenger fares

5. Table 5-33 shows for September 1993 for a sample of 10 city-pairs in the route group the range of fares available as appearing in multilateral airline guides. As illustrated by the sample, first class normal fares are relatively high in comparison with economy class normal fares on South Pacific routes. On the other hand, intermediate class normal fares were available for all the city-pairs in the sample whereas first and/or intermediate class restricted fares were available on 9 of the city-pairs in the sample. Economy class restricted fares were also widely available in this route group. In general they were at a level ranging some 10 to 30 per cent lower than the applicable economy class normal fare. Economy class excursion fares, in most cases at a level of more than 50 per cent below the economy class normal fare, were widely available. Apex-type fares were very common, ranging from 30 to 75 per cent below the applicable economy class normal fares. In September 1993, one-way Apex fares were widely available, generally at a higher level than the excursion fares (special fares are generally only available for round trips). Several "circle fares" were also available in September 1993. These are published fares which allow for travel by a continuous circuitous air route which may include points in the North-Mid Pacific.

General cargo rates for small shipments

6. The curves on Graph 5-34 have been statistically computed so as to reflect best the average level of general cargo rates for shipments of less than 45 kg for this route group at different distances.

Route group 17 (cont.)

7. Estimated small shipment general cargo rate levels per tonne-kilometre are shown in the following table:

	Distance in km									
Estimated general cargo rates for shipments of less than 45 kg	4 000	6 000	8 000	12 000	16 000					
Rates in cents per tonne-km, 1993										
Average	143	119	105	87	77					
Eastbound	125	104	92	77	67					
Westbound	169	137	118	96	83					
Percentage change (%), 1993/1992										
Average	1.6	0.4	0.4	~1.6	-2.5					
Eastbound	-2.3	-3.5	-4.4	-5.6	-6.5					
Westbound	3.8	2.9	2.3	1.4	0.8					

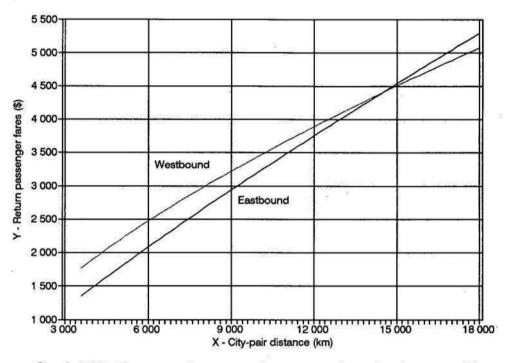
8. Between September 1992 and September 1993, there was an increase in the directional imbalance in the level of the estimated general cargo rate for small shipments (less than 45 kg) between the eastbound and westbound direction at the shorter and longer distances.

9. Also between September 1992 and September 1993, the spread of rates for small shipments above and below the average in the eastbound direction remained significant. Thus in September 1993, rates in the eastbound direction were significantly less dependent on distance and more dependent on other factors than those in the westbound direction.

Other cargo rates

10. Table 5-34 shows for September 1993 for a sample of 10 city-pairs in the route group the range of cargo rates available as appearing in multilateral airline guides. Several general cargo rates for shipments of more than 45 kg were often available (including breakpoints at 100 and 300 kg for most city-pairs in the sample). As for previous years, reductions of about 35 per cent on average were available for large shipments (over 500 kg) with a substantially lower level in one instance in the sample. Specific commodity rates were also available in this route group, with an average reduction of some 60 per cent on the applicable general cargo rates for small shipments. Bulk unitization rates for freight carried in unit load devices (ULDs) were available for 5 out of 10 city-pairs in the sample.





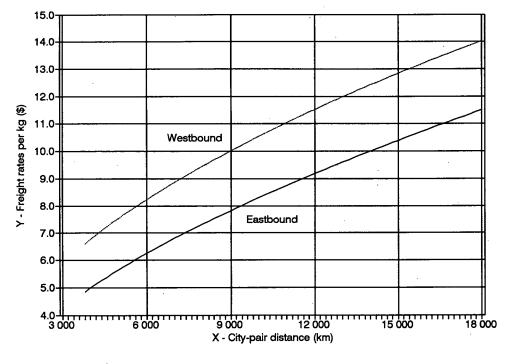
Graph 5-33. Economy class normal passenger fares (route group 17)

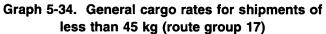
				INDIVIDU	AL FARES			COOLID
	Flight	Highest economy class	First class normal	Inter- mediate class normal	Economy class restricted	Economy class excursion	Economy class APEX	GROUP FARES Economy class
City-pair (originating city first)	(km)	normal - (U.S.\$)	(as a percentag	ge of the highe	st economy cla	ass normal fare)
Sydney - New York	18 920	4 372	179	125	87	41	38	0 01
Los Angeles — Melbourne	12 770	4 154	207	135	72	29-41	24-59	
Auckland — Los Angeles	10 490	3 530	191	124	83	-	28-42	5 - 92
Buenos Aires — Auckland ¹	10 420	2 836	174	120		66-82	55-69	
Los Angeles — Nadi	9 210	3 194	215	136	76	42	26-43	8 77 8
Melbourne — Honolulu	8 870	3 197	171	126	88	36	24-56	-
Rarotonga — Los Angeles	7 750	2 852	194	126	84	-	35-51	-
Honolulu — Auckland	7 090	2 760	219	136	90	51	25-67	-
Los Angeles — Papeete	6 610	2 376	213	127	100	39-48	34-39	-
Nadi — Honolulu	5 110	2 089	172	137	72	37	52	

Table 5-33. Range of passenger fares available (route group 17)

1. First and Intermediate class restricted fares not available in September 1993.

Route group 17 (cont.)





			GENERAL	CARGO RATE	S	SPECIFIC COMMODITY RATES		
City-pair (originating city first)	Flight distance (km)	Minimum charge (U.S.\$)	Under 45 kg (U.S.\$/kg)		Over 500 kg centage of 5 kg rate)	Range (as a percentage of under-45 kg rate)	Number of commo- dities	
Chicago — Sydney	14 860	83	14.09	79	62	-	_	
Los Angeles — Melbourne	12 770	66	13.10	80	63	-	-	
Auckland — Los Angeles	10 490	44	9.68	40	20	21-41	3	
Buenos Aires — Auckland	10 420	80	15.64	77	59	26-68	2	
Los Angeles — Nadi	9 200	66	9.11	76	67	36	1	
Melbourne — Honolulu	8 870	34	7.34	64	-	31	1	
Rarotonga — Los Angeles	8 840	44	5.31	75	67	29-39	3	
Honolulu - Auckland	7 090	66	6.98	78	75	46	1	
Los Angeles — Papeete	6 610	66	10.45	76	68	20-72	10	
Papeete — Honolulu	4 420	56	8.96	77	73	29	3	

Table 5-34. Range of cargo rates available (route group 17)

Appendix 1

DESCRIPTION OF ROUTE GROUPS

Route group	Description
1	Between North America and Central America/Caribbean. Includes routes between on the one hand Canada and/or the United States (including Alaska and Hawaii) and on the other hand Central America and the Caribbean. Routes between the United States and Puerto Rico/Virgin Islands are considered domestic and are excluded. Central America/ Caribbean is defined as the geographical area covered by route group 2 but excluding Mexico.
2	Between and within Central America and the Caribbean. Includes routes between or among the Bahamas, Belize, Bermuda, Costa Rica, El Salvador, Guatemala, Honduras, the islands of the Caribbean Sea (including Puerto Rico and the Virgin Islands), Mexico, Nicaragua and Panama.
3	Between Canada, Mexico and the United States. Includes routes between or among the above States. The United States includes Alaska and Hawaii but excludes Puerto Rico and the Virgin Islands.
4	Between North America/Central America/Caribbean and South America. Includes routes between the geographical areas defined on the one hand by route group 1 and/or Mexico and on the other hand by route group 5 ("local South America").
5	Local South America. Includes routes between or among the following States: Argentina, Bolivia, Brazil, Chile, Colombia (including San Andres Island), Ecuador, Falkland Islands (Malvinas), French Guiana, Guyana, Paraguay, Peru, Suriname, Uruguay and Venezuela.
6	Local Europe. Includes routes between or among the States of geographical Europe, Algeria, Azores, Canary Islands, Greenland, Iceland, Madeira, Malta, Morocco, Tunisia and Turkey.
7	Local Middle East. Includes routes between or among the following States: Bahrain, Cyprus, Egypt, Islamic Republic of Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Sudan, Syrian Arab Republic, United Arab Emirates and Yemen.
8	Local Africa. Includes routes between or among the States of continental Africa and offshore islands, but excluding Algeria, Azores, Canary Islands, Egypt, Madeira, Malta, Morocco, Sudan and Tunisia.
9	Between Europe and Middle East. Includes routes between the two geographical areas defined by route group 6 ("local Europe") and route group 7 ("local Middle East") respectively.
10	Between Europe/Middle East and Africa. Includes routes between on the one hand the geo- graphical areas defined by route group 6 ("local Europe") and/or route group 7 ("local Middle East") and on the other hand the geographical area defined by route group 8 ("local Africa").

Route group	Description
11	North Atlantic. Includes routes between on the one hand Canada and/or the United States
	(including Alaska and Hawaii) and on the other hand the geographical areas defined by IATA Tariff Conference 2 ("local Europe" and/or "local Middle East" and/or "local Africa").
12	Mid Atlantic. Includes routes between on the one hand gateway points in the geographica
	areas defined by route group 2 and/or route group 5 ("local South America") but north of Ric
	de Janeiro and on the other hand the geographical areas defined by IATA Tariff Conference 2 ("local Europe" and/or "local Middle East" and/or "local Africa").
13	South Atlantic. Includes routes between on the one hand Rio de Janeiro or any other gateway
	south thereof in route group 5 ("local South America) and on the other hand the geographica
	areas defined by IATA Tariff Conference 2 ("local Europe" and/or "local Middle East" and/or
	"local Africa").
14	Local Asia/Pacific. Includes IATA Tariff Conference 3, that is international routes within Asia
	to the east of the Islamic Republic of Iran and of the Ural Mountains, Australia, New Zealand
	Papua New Guinea, the islands of the Pacific Ocean excluding the Hawaiian Islands, Midway and Palmyra.
15	Between Europe/Middle East/Africa and Asia/Pacific. Includes routes between the
16	geographical areas defined by IATA Tariff Conference 2 on the one hand and that defined
	by IATA Tariff Conference 3 on the other hand.
16	North and Mid Pacific. Includes routes via the North and Mid Pacific Ocean between on the
	one hand points in the Americas (i.e. IATA Tariff Conference 1) and on the other hand Asia
	and/or the islands adjacent thereto (i.e. IATA Tariff Conference 3 except Australia, New
	Zealand, Papua New Guinea and the islands of the South Pacific).
17	South Pacific. Includes routes via the South Pacific Ocean between on the one hand points
	in the Americas (i.e. IATA Tariff Conference 1) and on the other hand Australia, New Zealand
	Papua New Guinea and the islands of the South Pacific.

Appendix 2

CURRENCY CONVERSION RATES

18 Te		Sec.	Currency units per U.S. dollar ¹		
Country or area	Local selling currency in September 1993	ISO code	1993	1992	
Afghanistan ²	U.S. Dollar	USD	1.00	1.00	
Albania ²	U.S. Dollar	USD	1.00	1.00	
Algeria	Algerian Dinar	DZD	19.94	20.93	
Angola ²	U.S. Dollar	USD	1.00	546.53 ³	
Anguilla ²	U.S. Dollar	USD	1.00	2.70 ³	
Antigua and Barbuda ²	U.S. Dollar	USD	1.00	- 2.70 ³	
Argentina ²	U.S. Dollar	USD	1.00	1.00	
Armenia ²	U.S. Dollar	USD	1.00	1.00	
Aruba	Aruban Guilder	AWG	1.79	1.79	
Australia	Australian Dollar	AUD	1.48	1.38	
Austria	Schilling	ATS	11.91	10.27	
Azerbaijan ²	U.S. Dollar	USD	1.00	1.00	
Bahamas ⁴	Bahamian Dollar	BSD	1.00	1.00	
Bahrain	Bahraini Dinar	BHD	0.38	0.38	
Bangladesh⁴	Taka	BDT	39.85	39.00	
Barbados ²	U.S. Dollar	USD	1.00	1.00	
Belarus ²	U.S. Dollar	USD	1.00	1.00	
Belgium	Belgian Franc	BEF	35.81	30.05	
Belize ²	U.S. Dollar	USD	1.00	1.00	
Benin	CFA Franc	XOF	297.13	247.69	
Bermuda⁴	Bermudian Dollar	BMD	1.00	1.00	
Bhutan	Ngutrum	BTN	31.55	30.21	
Bolivia ²	U.S. Dollar	USD	1.00	1.00	
Botswana	Pula	BWP	2.46	2.07	
Brazil ²	U.S. Dollar	USD	1.00	1.00	
British Virgin Islands ²	U.S. Dollar	USD	1.00	1.00	
Brunei Darussalam	Brunei Dollar	BND	1.60	1.61	
Bulgaria ²	U.S. Dollar	USD	1.00	1.00	
Burkina Faso	CFA Franc	XOF	297.13	247.69	
Burundi	Burundi Franc	BIF	232.28	187.95	
Cambodia ²	U.S. Dollar	USD	1.00	1.00	
Cameroon	CFA Franc	XAF	297.13	247.69	
Canada	Canadian Dollar	CAD	1.32	1.20	
Cape Verde ²	U.S. Dollar	USD	1.00	1.00	
Cayman Islands ²	U.S. Dollar	USD	1.00	0.853	
Central African Republic	CFA Franc	XAF	297.13	247.69	
Chad	CFA Franc	XAF	297.13	247.69	
Chile ²	U.S. Dollar	USD	1.00	1.00	
China	Renminbi	CNY	5.76	5.46	
Colombia ²	U.S. Dollar	USD	1.00	1.00	
Comoros	Comoro Franc	KMF	297.13	247.69	
Congo	CFA Franc	XAF	297.13	247.69	
		70 U	201.10	241.00	

	Local selling currency	ISO		
Country or area	in September 1993	code	1993	1992
Costa Rica ²	U.S. Dollar	USD	1.00	1.00
Côte d'Ivoire	CFA Franc	XOF	297.13	247.69
Croatia ²	U.S. Dollar	USD	1.00	1.00
Cuba	Cuban Peso	CUP	0.75	0.76
Cyprus	Cypriot Pound	CYP	0.51	0.42
Czechoslovakia	Koruna	CSK	29.63	27.30
Democratic People's Republic of Korea	North Korean Won	KPW	2.19	2.22
Denmark	Danish Krone	DKK	6.95	5.64
Djibouti	Djibouti Franc	DJF	174.25	176.53
Dominica ²	U.S. Dollar	USD	1.00	2.70 ³
Dominican Republic ²	U.S. Dollar	USD	1.00	1.00
Ecuador ²	U.S. Dollar	USD	1.00	1.00
Egypt	Egyptian Pound	EGP	3.33	3.29
El Salvador ²	U.S. Dollar	USD	1.00	1.00
Equatorial Guinea	CFA Franc	XAF	297.13	247.69
Estonia ²	U.S. Dollar	USD	1.00	1.00
Ethiopia	Ethiopian Birr	ETB	5.00	2.07
Federated States of Micronesia	U.S. Dollar	USD	1.00	1.00
Fiji	Fijian Dollar	FJD	1.52	1.49
Finland	Markka	FIM	5.82	4.00
France	French Franc	FRF	5:94	4.95
French Polynesia	CFP Franc	XPF	108.05	90.07
French Antilles	French Franc	FRF	5.94	4.95
Gabon	CFA Franc	XAF	297.13	247.69
Gambia ²	U.S. Dollar	USD	1.00	1.00
Georgia ²	U.S. Dollar	USD	1.00	1.00
Germany	Deutsche Mark	DEM	1.69	1.46
Ghana ²	U.S. Dollar	USD	1.00	1.00
Greece	Drachma	GRD	237.39	180.58
Grenada ²	U.S. Dollar	USD	1.00	2.70 ³
Guatemala ²	U.S. Dollar	USD	1.00	1.00
Guinea ²	U.S. Dollar	USD	1.00	1.00
Guinea-Bissau ²	U.S. Dollar	USD	1.00	1.00
Guyana²	U.S. Dollar	USD	1.00	1.00
Haiti ²	U.S. Dollar	USD	1.00	1.00
Honduras ²	U.S. Dollar	USD	1.00	1.00
Hong Kong	Hong Kong Dollar	HKD	7.75	7.73
Hungary	Forint	HUF	98.44	79.39
lceland⁵	Icelandic Krona	ISK	71.51	54.12
India	Indian Rupee	INR	31.55	30.21
Indonesia ²	U.S. Dollar	USD	1.00	1.00
Iran, Islamic Republic of	Iranian Rial	IRR	600.00	600.00
Iraq	Iraqi Dinar	IQD	0.31	0.32
Ireland	Irish Pound	IEP	0.72	0.55
Israel ²	U.S. Dollar	USD	1.00	1.00
Italy	Italian Lira	ITL	1 604.43	1 108.99

e.	5x.		Currency units per U.S. dollar'		
Country or area	Local selling currency in September 1993	ISO code	1993	1992	
Jamaica ²	U.S. Dollar	USD	1.00	1.00	
Japan	Yen	JPY	101.85	126.36	
Jordan	Jordanian Dinar	JOD	0.70	0.67	
Kazakhstan ²	U.S. Dollar	USD	1.00	1.00	
Kenya ²	U.S. Dollar	USD	1.00	1.00	
Kiribati	Australian Dollar	AUD	1.48	1.38	
Kuwait	Kuwaiti Dinar	KWD	0.30	0.29	
(yrgyzstan ²	U.S. Dollar	USD	1.00	1.00	
.ao People's Democratic Republic ²	U.S. Dollar	USD	1.00	1.00	
atuio ²	U.S. Dollar	USD	1.00	1.00	
ebanon ²	U.S. Dollar	USD	1.00	- 399.85 ³	
esotho	Loti	LSL	3.36	2.77	
.iberia⁴	Liberian Dollar	LRD	1.00	1.00	
libyan Arab Jamahiriya	Libyan Dinar	LYD	0.29	0.26	
lithuania ²	U.S. Dollar	USD	1.00	1.00	
Luxembourg	Luxembourg Franc	LUF	35.81	30.05	
Madagascar	Malagasy Franc	MGF	1 951.84	1 788.31	
Malawi	Kwacha	MWK	4.36		
Malaysia	Malaysian Ringgit	MYR	2.57	2.50	
Aaldives ²	U.S. Dollar	USD	1.00	1.00	
fali	CFA Franc			247.69	
Aaita	Maltese Lira	MTL	0.39	0.30	
lauritania	Ouguiya	MRO	113.34	78.28	
Aauritius	Mauritius Rupee	MUR	18.19	14.74	
fexico ²	U.S. Dollar	USD	1.00	1.00	
foldova, Republic of ²	U.S. Dollar	USD	1.00	1.00	
Ionaco	French Franc	FRF	5.94	4.95	
1 Angolia ²	U.S. Dollar	USD	1.00	1.00	
Montserrat ²	U.S. Dollar	USD	1.00	2.703	
lorocco	Moroccan Dirham	MAD	9.68	8.07	
lozambique	Metical	MZM	4 009.46	2 796.39	
1yanmar	Kyat	MMK	6.05	5.86	
Jamibia, Rep. of	Rand	ZAR	3.36	2.77	
lauru	Australian Dollar	AUD	1.48	1.38	
lepal ²	U.S. Dollar	USD	1.00	42.70 ³	
letherlands Antilles	Netherlands Antillean Guilder	ANG	1.79	1.79	
etherlands, Kingdom of the	Guilder	NLG	1.91	1.65	
ew Zealand	New Zealand Dollar	NZD	1.80	1.86	
licaragua ²	U.S. Dollar	USD	1.00	1.00	
liger	CFA Franc	XOF	297.13	247.69	
ligeria ⁴	Naira	NGN	297.13	18.62	
lorway	Norwegian Krone	NOK	7.35	5.76	
Oman	Rial Omani	OMR	0.38	0.38	
akistan	Pakistan Rupee	PKR	29.92	25.19	
anama ²	U.S. Dollar	USD	1.00	1.00	
apua New Guinea	Kina	PGK	0.97	0.97	
araguay ²	U.S. Dollar	USD	1.00	1.00	
alaguay					
Peru ²	U.S. Dollar	USD	1.00	1.00	

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Currency units	per	
U.S. dollar ¹	•	

Country or area	Local selling currency in September 1993	ISO code	1993	1992	
Poland ²	U.S. Dollar	USD	1.00	1.00	
Portugal	Portugese Escudo	PTE	173.08	125.87	
i onugai	Tortugese Escudo		170.00	123.07	
Qatar	Qatari Riyal	QAR	3.64	3.64	
Republic of Korea ²	U.S. Dollar	USD	1.00	1.00	
Reunion	French Franc	FRF	5.94	4.95	
Romania ²	U.S. Dollar	USD	1.00	1.00	
Russian Federation ²	U.S. Dollar	USD	1.00	1.00	
Rwanda	Rwanda Franc	RWF	145.03	138.21	
Saint Kitts & Nevis ²	U.S. Dollar	USD	1.00	2.70 ³	
Saint Lucia ²	U.S. Dollar	USD	1.00	2.70 ³	
Saint Vincent and the Grenadines ²	U.S. Dollar	USD	1.00	2.70 ³	
Samoa	Tala	WST	2.53	2.43	
Sao Tome and Principe ²	U.S. Dollar	USD	1.00	1.00	
Saudi Arabia	Saudi Riyal	SAR	3.74	3.74	
Senegal	CFA Franc	XOF	297.13	247.69	
Seychelles	Seychelles Rupee	SCR	5.15	4.98	
Sierra Leone ²	U.S. Dollar	USD	1.00	1.00	
Singapore	Singapore Dollar	SGD	1.61	1.61	
Slovenia ²	U.S. Dollar	USD	1.00	1.00	
Solomon Islands	Solomon Island Dollar	SBD	3.17	2.94	
Somalia ²	U.S. Dollar	USD	1.00	1.00	
South Africa	Rand	ZAR	3.36	2.77	
Spain	Spanish Peseta	ESP	139.06	93.70	
Sri Lanka	Sri Lanka Rupee	LKR	49.02	44.17	
Sudan	Sudanese Dinar	SDD	13.86	10.00	
Suriname ⁴	Suriname Guilder	SRG	1.79	1.79	
Swaziland	Lilangeni	SZL	3.36	2.77	
Sweden	Swedish Krona	SEK	8.01	5.33	
Switzerland	Swiss Franc	CHF	1.50	1.31	
Syrian Arab Republic	Syrian Pound	SYP	42.00	33.00	
Tajikistan ²	U.S. Dollar	USD	1.00	1.00	
Thailand	Baht	THB	25.14	25.57	
Тодо	CFA Franc	XOF	297.13	247.69	
Tonga	Pa'anga	TOP	1.48	1.38	
Trinidad and Tobago ²	U.S. Dollar	USD	1.00	1.00	
Tunisia	Tunisian Dinar	TND	1.03	0.83	
Turkey ²	U.S. Dollar	USD	1.00	1.00	
Turkmenistan ²	U.S. Dollar	USD	1.00	1.00	
Turks and Caicos Islands ²	U.S. Dollar	USD	1.00	1.00	
Tuvalu	Australian Dollar	AUD	1.48	1.38	
Uganda ²	U.S. Dollar	USD	1.00	1.00	
Ukraine ²	U.S. Dollar	USD	1.00	1.00	
United Arab Emirates	UAE Dirham	AED	3.67	3.67	
United Kingdom	Pound Sterling	GBP	0.67	0.52	
United Republic of Tanzania ²	U.S. Dollar	USD	1.00	318.69 ³	
United States	U.S. Dollar	USD	1.00	1.00	
Uruguay ²	U.S. Dollar	USD	1.00	1.00	
Uzbekistan ²	U.S. Dollar	USD	1.00	1.00	

2					y units per dollar ¹	
Country or area	*	Local selling currency in September 1993	ISO code	1993	1992	0
Vanuatu		Vatu	VUV	120.89	111.81	
Venezuela ²		U.S. Dollar	USD	1.00	1.00	
Viet Nam ²		U.S. Dollar	USD	1.00	1.00	
Yemen		Yemeni Rial	YER	12.01	12.01	
Zaire ²		U.S. Dollar	USD	1.00	1.00	a.
Zambia ²	· · · · ·	U.S. Dollar	USD	1.00	1.00	
Zimbabwe		Zimbabwe Dollar	ZWD	6.64	4.86	
÷						

 "IATA Clearing House 5-day Monthly Rate" for the month of August.
 International fares and rates from these countries are usually quoted in U.S. dollars.
 In September 1992 international fares, and/or rates from these countries were quoted in local currency.
 International fares from these countries are usually quoted in U.S. dollars whereas cargo rates are usually quoted in local currency.

5. International cargo rates from these countries are usually quoted in U.S. dollars, whereas fares are usually quoted in local currency.

Appendix 3

STATISTICAL METHODOLOGY AND CONVERSIONS

1. In linear regression involving two variables there is an independent variable (the X value) and a dependent variable (the Y value). The linear function or relationship between these variables is estimated by determining two constants, *a* and *b*. In this survey fares and rates were considered as the dependent variable in separate analyses, while the distance between the city-pairs over which the fare or rate applied was taken as the independent variable. Here, the terms "dependent" and "independent" connote that the variable Y (in this case the fare or rate) is assumed to depend on, and is estimated from, the value of the variable X (in this case distance).

2. The straight line which estimates best the assumed relationship between two sets of statistical data (fares and distances) is computed in linear regression by the method of "least squares". The principle of least squares states that the [equation of the] line of best fit to a set of values is the line about which the sum of the squares of the errors of estimation (i.e. the differences between the values estimated by the equation and the actual values) will be minimized.

3. There are several types of assumed relationships or "models", to which linear least squares regression techniques may be applied. One is the simple relationship Y = a + b (X), in which Y is assumed to be a linear function of X; another is the relationship $Y = a(X^b)$, in which Y is assumed to be a function of X to some "power", i.e. b. Using logarithms, the latter relationship can be transformed into the equivalent relationship log $Y = \log a + b$ (log X), which is also a linear relationship (if the logarithms of the data are used). Least squares regression techniques may also be applied to this logarithmic relationship; the least squares technique then produces the "best" estimating relationship (minimizing the errors of estimation) in terms of the logarithms of the data.

4. In this survey, economy class normal fares/"under 45 kg" general cargo rates (*Y* values) were analysed as a function of distance (*X* values) for each of the 17 route groups and for the world. Only log linear estimates of average fares and rates were computed since these have been found to provide a better relationship statistically than the linear arithmetic form. It was further decided to show the log linear estimates plotted on arithmetic graph paper, rather than on log/log paper, to assist readers of this survey.

5. The regression equations for September 1993 by route and by fare/rate type are shown in the following two tables. While in general the levels of fares and rates for most route groups are, to a greater and lesser degree, clearly dependent on distance, for a few route groups the coefficient of the correlation is relatively low. In such cases, only data for those route groups for which a statistical test (t-test) has shown the relationship between the level of fares or rates with distance to be significant are presented in this study.

Regression equations

Economy class normal passenger fares: September 1993 (X = city-pair distances in km; Y = return fare in U.S.)

			Number of	x	Y	Equation $y = ax^b$		
						Coefficients		Correlation coefficient
	Route Group		city-pairs	mean	mean	8	b	R
	International total	WORLD	10 582	3 255	1 326	7,446	0.645	0.878
1.	Between North America	ALL	449	2 245	856	25.765	0.456	0.823
	and Central	Northbound	220	2 242	861	28,972	0.441	0.803
	America/Caribbean	Southbound	229	2 248	852	22.933	0.471	0.842
2.	Between and within Central America and the Caribbean	ALL	386	653	344	13.876	0.506	0.879
	Calibbean							1
3.	Between Canada, Mexico and the United States	ALL	664	1 772	687	25.936	0.442	0.800
4.	Between North	ALL	367	4 152	1 329	1.881	0.790	0.971
	America/Central America/	Northbound	182	4 075	1 266	2.026	0.777	0.970
	Caribbean and South America	Southbound	185	4 227	1 391	1.761	0.801	0.973
5.	Local South America	ALL	222	1 979	664	2.049	0.764	0.948
6.	Local Europe	ALL	3 255	1 198	907	17.337	0.560	0.805
7.	Local Middle East	ALL	359	1 370	586	10.594	0.551	0.685
8.	Local Africa	ALL	565	1 598	653	2.228	0.772	0.916
9.	Between Europe and	ALL	651	3 282	1 615	3.318	0.763	0.849
	Middle East	Eastbound	324	3 283	1 767	2.556	0.806	0.824
	middle Eddt	Westbound	327	3 281	1 464	4.286	0.722	0.925
10.	Between Europe/Middle	ALL	626	5 398	2 225	2,219	0.801	0.834
	East and Africa	Northbound	308	5 413	1 902	5.748	0.673	0.801
	Last Life / mod	Southbound	318	5 384	2 538	0.866	0.926	0.908
11.	North Atlantic	ALL	548	7 251	2 552	7.666	0.653	0.668
		Eastbound	275	7 254	2 602	5.980	0.683	0.756
		Westbound	273	7 248	2 502	9.825	0.622	0.602
12.	Mid Atlantic	ALL	226	8 205	2 888	27.013	0.517	0.477
		Eastbound	111	8 206	2 711	182.479	0.299	0.352
		Westbound	115	8 205	3 059	3.875	0.739	0.616
13.	South Atlantic	ALL	116	10 147	3 525	0.380	0.989	0.816
		Eastbound	57	10 181	3 279	7,259	0.662	0.876
		Westbound	59	10 113	3 762	0.023	1.300	0.872
14.	Local Asia/Pacific	ALL	1 028	2 936	1 079	1.280	0.840	0.898
15.	Between Europe/Middle	ALL	868	7 525	2 518	0.304	1.007	0.899
	East/Africa and	Eastbound	436	7 495	2 628	0.932	0.889	0.898
	Asia/Pacific	Westbound	432	7 555	2 407	0.097	1.127	0.922
16.	North and Mid Pacific	ALL	204	11 051	2 695	6.069	0.651	0.605
10.	torul and mid r admo	Eastbound	104	11 072	2 932	7.555	0.635	0.520
		Westbound	100	11 029	2 450	4.910	0.667	0.793
17.	South Pacific	ALL	48	8 845	3 027	3.261	0.752	0.849
17.	Bouur Facilic	Eastbound	24	8 843	2 898	1.289	0.849	0.857
		Westbound	24	8 846	3 156	8.250	0.655	0.882
		Westbound	24	0 040	0 100	0.200	0.000	0.002

Regression equations

General cargo rates for shipments of less than 45 kg: September 1993 (X = city-pair distances in km; Y = rates per kg in U.S.)

						Equation y = ax ^b			
	14				V	Coefficients		Correlation coefficient	
	Route Group		Number of city-pairs	X mean	Y mean	а	b	R	
	International total	WORLD	4 882	5 328	6.545	0.014	0.715	0.836	
1.	Between North America	ALL	123	2 572	3.002	0.027	0.598	0.822	
	and Central	Northbound	56	2 499	3.097	0.018	0.659	0.809	
	America/Caribbean	Southbound	67	2 632	2.923	0.035	0.561	0.843	
2.	Between and within Central America and the Caribbean	ALL	64	605	1.558	0.031	0.613	0.839	
з.	Between Canada, Mexico and the United States	ALL	77	2 169	1.685	0.074	0.412	0.839	
4.	Between North	ALL	189	5 559	5.704	0.017	0.412	0.839	
	America/Central America/	Northbound	87	5 522	4.887	0.031	0.591	0.895	
	Caribbean and South America	Southbound	102	5 590	6.401	0.010	0.751	0.929	
5.	Local South America	ALL	81	2 624	3.276	0.009	0.754	0.815	
6.	Local Europe	ALL	428	1 460	2.893	0.055	0.540	0.678	
7.	Local Middle East	ALL	213	1 321	2.071	0.020	0.646	0.822	
8.	Local Africa	ALL	255	1 890	2.869	0.006	0.822	0.848	
9.	Between Europe and	ALL	377	3 807	6.073	0.003	0.907	0.677	
	Middle East	Eastbound	190	3 785	6.902	0.003	0.943	0.674	
		Westbound	187	3 829	5.231	0.003	0.881	0.744	
10.	Between Europe/Middle	ALL	446	5 908	8.428	0.088	0.513	0.354	
	East and Africa	Northbound	216	5 927	5.535	0.595	0.249	0.239	
		Southbound	230	5 890	11.144	0.014	0.768	0.659	
11.	North Atlantic	ALL	524	7 248	7.483	0.076	0.511	0.338	
		Eastbound	267	7 281	7.985	0.058	0.552	0.542	
	191	Westbound	257	7 213	6.963	0.120	0.451	0.252	
12.	Mid Atlantic	ALL	179	7 940	10.874	0.151	0.470	0.215	
		Eastbound	85	7 915	11.583	0.483	0.352	0.259	
		Westbound	94	7 963	10.232	0.059	0.565	0.227	
13.	South Atlantic	ALL	106	9 555	12.745	0.013	0.747	0.500	
		Eastbound	51	9 674	12.300	0.030	0.657	0.924	
		Westbound	55	9 445	13.158	0.006	0.829	0.433	
14.	Local Asia/Pacific	ALL	678	3 659	4.845	0.019	0.662	0.684	
15.	Between Europe/Middle	ALL	840	7 902	9.336	0.004	0.863	0.709	
	East/Africa and	Eastbound	422	7 871	10.158	0.025	0.662	0.665	
	Asia/Pacific	Westbound	418	7 934	8.506	0.001	1.071	0.792	
16.	North and Mid Pacific	ALL -	251	11 670	10.838	0.508	0.320	0.251	
		Eastbound	124	11 682	12.382	5.144	0.082	0.052	
		Westbound	127	11 659	9.331	0.040	0.583	0.813	
17.	South Pacific	ALL	51	9 525	9.481	0.060	0.551	0.571	
Constraint Constraints		Eastbound	23	9 043	8.315	0.050	0.555	0.480	
		Westbound	28	9 921	10.438	0.121	0.485	0.774	

ICAO PUBLICATIONS IN THE AIR TRANSPORT FIELD

The following summary gives the status and also describes in general terms the contents of the various series of publications in the air transport field issued by the International Civil Aviation Organization:

International Standards and Recommended Practices on Facilitation (designated as Annex 9 to the Convention) which are adopted by the Council in accordance with Articles 37, 54 and 90 of the Convention on International Civil Aviation. The uniform observance of the specifications contained in the International Standards on Facilitation is recognized as practicable and as necessary to facilitate and improve some aspect of international air navigation, while the observance of any specification contained in the Recommended Practices is recognized as generally practicable and as highly desirable to facilitate and improve some aspect of international air navigation. Any differences between the national regulations and practices of a State and those established by an International Standard must be notified to the Council in accordance with Article 38 of the Convention. The Council has also invited Contracting States to notify differences from the provisions of the Recommended Practices;

Council Statements on policy relating to air transport questions, such as the economics of airports and en-route air navigation facilities, taxation and aims in the field of facilitation;

Digests of Statistics which are issued on a regular basis, presenting the statistical information received from Contracting States on their civil aviation activities;

Circulars providing specialized information of interest to Contracting States. They include regional studies on the development of international air passenger, freight and mail traffic and specialized studies of a world-wide nature;

Manuals providing information or guidance to Contracting States on such questions as airport and air navigation facility tariffs, air traffic forecasting techniques and air transport statistics.

Also of interest to Contracting States are reports of meetings in the air transport field, such as sessions of the Facilitation Division and the Statistics Division and conferences on the economics of airports and air navigation facilities. Supplements to these reports are issued, indicating the action taken by the Council on the meeting recommendations, many of which are addressed to Contracting States.

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