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ORGANIZATION OF NATIONAL CIVIL REGISTRATION AND VITAL STATISTICS SYSTEMS: AN UPDATE

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FOREWORD

The infrastructure of civil registration and vital statistics (CR/VS) systems can be quite complex and the organizational patterns varies greatly among countries. Although the United Nations Statistical Division had previously conducted questionnaire surveys to ascertain the organization structure of CR/VS systems, in 1984 the IIVRS made a limited survey to broaden the coverage of information on national CR/VS systems. The results of that survey were reported in the IIVRS Technical Papers No. 29 in 1986. In 1994, another questionnaire survey was conducted to update the information obtained a decade earlier. This survey also provided an opportunity to obtain data for the newly established nations of the former USSR and eastern Europe. This paper is essentially an update of the study published in Technical Paper No. 29.

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ORGANIZATION OF NATIONAL CIVIL REGISTRATION
AND VITAL STATISTICS SYSTEMS: AN UPDATE

For international comparison of vital statistics, it is imperative that the same definitions of vital events be adopted by each country. The data should also be classified in the same manner, and the basic tabulations must be the same for comparative purposes. International definitions and the statistical conventions adopted over the years have done much to bring about uniformity in definitions and classification of data.

To produce uniform statistics, the registration practices will also need to be the same within and between countries. Coordination within countries is exercised by the national registration office in countries where the registration system is centralized and by the national vital statistics office in countries where the registration system is decentralized. On the other hand, there is no mechanism for achieving uniformity of registration practices between countries aside from the international statistics conventions.

In all countries, the informant designated by law notifies the local registrar and provides demographic and other information about the vital event. These data are entered in the register and stored for retrieval until a request is received for a certified copy of the record. The local registrar also prepares a copy of the record for statistical purposes and transmits it to the vital statistics agency. Compilations of vital statistics are made at the State and/or National office of vital statistics.

By and large, the civil registration and vital statistics functions and procedures are relatively simple and do not differ greatly between countries. On the other hand, the infrastructure of the civil registration and vital statistics system can be quite complex and the organizational pattern varies greatly between countries.

To ascertain the organizational structure and national registration and vital statistics practices, the United Nations Statistical Division has conducted questionnaire surveys of the sources of vital statistics. The last such survey was undertaken between November 1976 and April 1979. In 1984, the IIVRS made a limited survey to broaden the coverage of information on national civil registration and vital statistics systems. The results of this survey were reported in the IIVRS Technical Papers No. 29, 1986. Although the quality of response was generally good, this survey showed how difficult it was to obtain a satisfactory response rate.

In 1994, another questionnaire survey was conducted to update the information obtained some 10 years before. This survey also provided an opportunity to obtain data for the newly established republics of the former U.S.S.R. and eastern Europe.

\ This report is essentially an update of the study of the organization of national civil registration and vital statistics systems based on a questionnaire survey made in 1984. At that time, a civil registration

questionnaire and a vital statistics questionnaire were sent to the respective offices represented in the IIVRS membership. Three follow ups were made over a period of 7 to 8 months. The quality of responses received was generally good, but the response rate, especially on the civil registration questionnaire was poor (less than 50 percent). It was felt, at that time, that the poor response rate was due to the difficulty of identifying all the national civil registration offices. Another possible reason may have been a language problem. If the questionnaire had been framed in one of the official languages of the country, instead of English, a better response may have resulted.

Accordingly, the questionnaires for the present survey were prepared in English, French and Spanish. The first batch of questionnaires was sent out in March of 1994. A follow up was made about 7 months after the initial mailing. There was considerable improvement in the return of the questionnaire as compared with the previous survey. The response rate for the civil registration portion increased from 46.7 percent in 1984 to 69.8 percent in 1994. The corresponding figures for the vital statistics questionnaire were 69.5 percent in 1984 and 83.8 percent in 1994. These improvements took place despite the fact that only one follow up was made in the 1994 survey as compared with 3 follow ups in the 1984 round.

A good deal of information has been collected to date on the civil registration and vital statistics systems in the various countries. However, there are still 21 countries where nothing is known about the organization of the registration and vital statistics systems. In addition, there are 6 countries for which no information is available with respect to the registration of vital events. The next step is to obtain world-wide coverage of information on the organization of national civil registration and vital statistics systems.

As in the earlier survey, the response rate (Table 1) for the vital statistics questionnaire was significantly higher than that for civil registration. Also, there was considerable variation in the response rates by region. As expected, the response rate was high for the European countries. Almost all the vital statistics offices in North America returned completed questionnaires whereas most of the registration offices in the Caribbean area failed to respond."

TABLE 1. Questionnaire Response Rate in Percent

	Civil Registration	Vital Statistics
All regions	69.8	83.8
Africa	63.0	74.0
America, North	43.8	95.2
America, South	60.0	80.0
Asia	70.0	85.0
Europe	80.0	94.2
Oceania	75.0	79.2

Organization of the Civil Registration System

A national registration system may be centralized or decentralized. In the decentralized system, there is no national registration office to oversee the national network of registration offices. This is the responsibility of the autonomous State or provincial authorities. The decentralized system of registration is found in countries with a federated form of government where there is a division of power between the federal and State governments. In these countries, the principal function of the national office is the compilation of national vital statistics. The national office of vital statistics is also charged with the responsibility for coordinating the activities of the registration offices in the autonomous states or provinces and for promoting the uniformity of registration practices and procedures. About 10 percent of the national civil registration systems are decentralized. The countries with a decentralized system may be identified in Appendix Table A by the absence of a national registration office.

In a centralized registration system, there is a national office over the State and local registration offices. This form of organization is found in countries where the powers of governance are centered in the national government. As may be seen in Table 2, the legal responsibility for civil registration in these countries is assumed by various ministries or departments. The principal ones are the Ministry of Interior (40 percent) and the Ministry of Justice (34 percent). In 11 percent of the countries, the Health Ministry is responsible for the registration function. These are logical choices. Because of the juridical uses of vital records, the Ministry of Justice would have considerable interest in the legal aspects of civil registration. The Ministry of Interior and the Ministry of Health are options for another reason. In the case of the Ministry of Interior, there is a national network of local government offices, whereas the Health Ministry will have, under its jurisdiction, community health centers and hospitals where births and deaths take place.

TABLE 2. MINISTRIES RESPONSIBLE FOR CIVIL REGISTRATION IN COUNTRIES WITH CENTRALIZED CIVIL REGISTRATION SYSTEMS BY REGION

	Interior	Justice	Health	Other
All regions	67 (40.3)	56 (33.7)	18 (10.8)	25 (15.1)
Africa	26 (54.2)	9 (18.8)	4 (8.3)	9 (18.8)
America, North	3 (13.6)	13 (59.1)	2 (9.1)	4 (18.2)
America, South	4 (40.0)	5 (50.0)	0 (0.0)	1 (10.0)
Asia	17 (41.5)	12 (29.3)	8 (19.5)	4 (9.8)
Europe	16 (29.9)	12 (35.3)	1 (2.9)	5 (14.7)
Oceania	1 (9.1)	5 (45.5)	3 (27.3)	2 (18.2)

Note: Percent in parenthesis

There are marked regional differences in the location of national registration offices. In over half of the African countries, the Home or Interior Ministry is responsible for civil registration whereas very few countries in North America and in Oceania reported to have the registration of vital events centered in the Ministry of Interior. In the Caribbean and

South American countries, and in Oceania, the Ministry of Justice is favored as the locus of responsibility for the civil registration function.

In many countries, civil registration is tied in organizationally with other government functions such as population registries, personal identification and maintenance of national electoral rolls, and compilation of national vital statistics. In such cases, it depends on the situation in the country as to where the registration function will be performed. For example, civil registration is part of the population registration program in the Ministry of Interior in Denmark, Finland and Israel. In Hungary, it is associated with population registration under the Board of Councils of the Council of Ministers, whereas in Norway and Sweden, they are in the Ministry of Finance.

In countries with a centralized system, the national registration office may have a direct line of authority over the local registration offices. This appears to be the situation in about 65 percent of the countries. In the rest of the countries, the national registration office gives advice and direction on technical matters to the personnel of the local registration offices under the administrative control of another ministry or department. This may make for a more complex administrative operation, especially if the local personnel also has responsibilities for functions other than civil registration which he regards as more important than the registration of vital events.

Another important aspect of the registration network is the location and number of local registration offices. It was not possible to get into the question of site of the registration offices, but information on the number of local registration offices was collected. There is a very large range in the number of local registration offices. Small countries like Macau, Hong Kong, Singapore, and Monaco which are essentially large cities have no need for an extensive network. Therefore, a few local registration offices can efficiently serve the public. On the other hand, most countries have the problem of reaching the rural population however remote. This requires many more local registration offices. The largest reported number is 225,000 by India. (No information is available for China or for the Russian republics.)

In terms of workload, the local registration offices or the local registrars in the rural areas of most countries have relatively little to do on matters concerning the registration of births and deaths. There is a part time activity registering, on the average, fewer than one birth per day. Therefore, most of them do not regard registration to be an important part of their job. This poses a difficult management problem for the central registration office, especially where direct supervision of local registrars is not possible.

Although the public must have ready access to a local registration office, there appears to be too many local registration offices in most countries needed for an efficient operation. The question of setting up an optimum network of local registration offices needs to be studied on a country by country basis. In such a study, consideration should be given to the consolidation of local registration offices and the establishment of sub-registration offices. To reach remote and sparsely settled areas, the

possibility of having mobile units serve those areas should be considered.

Organization of the Vital Statistics System

A central statistical office is responsible for the national compilation of vital statistics in most countries of the world. However, these statistical offices are located in various ministries (see Table 3), the chief among them being the Ministry of Finance and Economics (29 percent), and Ministry of Planning (26 percent). In about 11 percent of the countries, the central statistical office is under the jurisdiction of the Ministry of Interior where most of the national registration offices are located. In other countries, the central statistical offices are independent agencies or in the office of the President or Prime Minister. In about 14 percent of the countries, the compilation of national vital statistics is the responsibility of the Health Ministry.

TABLE 3. MINISTRIES RESPONSIBLE FOR VITAL STATISTICS BY REGION

	Planning	Finance and Economics	Interior	Health	Other
All regions	36 (25.7)	41 (29.3)	16 (11.4)	19 (13.6)	28 (20.0)
Africa	23 (51.1)	10 (22.2)	3 (6.7)	3 (6.7)	6 (13.3)
America, North	1 (4.5)	13 (59.1)	2 (9.1)	3 (13.6)	3 (13.6)
America, South	2 (20.0)	2 (20.0)	0 (0.0)	2 (20.0)	4 (40.0)
Asia	8 (25.0)	1 (3.1)	7 (21.9)	9 (25.0)	8 (25.0)
Europe	1 (4.2)	12 (50.0)	4 (16.7)	1 (4.2)	6 (25.0)
Oceania	1 (14.3)	3 (42.9)	0 (0.0)	2 (28.6)	1 (14.3)

Note: Percent in Parenthesis.

In about 20 percent of the countries, the civil registration and the vital statistics functions are carried out in the same department or ministry. The advantage of having vital statistics and civil registration in the same ministry or administration is that it makes communication between the two agencies less difficult. This is most important from the standpoint of compilation of national vital statistics where uniformity of data is a prime requisite. It is essential that all the areas in the country use the same basic definitions and registration procedures, identical forms in the collection of data, and the same classifications so that there will be comparability in the statistics produced from records of vital events registered in different parts of the country. Without a close working relationship between the vital statistics and the registration authorities, it will not be possible to produce comparable vital statistics from place to place within the country and from year to year.

The problem of communication and coordination becomes more difficult when the vital statistics and the registration functions are in different ministries or departments. More difficult still are problems in some countries where the civil registration system is decentralized to a subnational level. In these countries, the vital statistics authorities have to deal with a number of autonomous bodies. Much of the success in

these cases will depend on the quality of national leadership and the good will of all concerned.

There are still a few national vital statistics offices without data processing equipment. Also, there are some that are not yet publishing vital statistics or are not current in the issuance of their annual vital statistics. Another problem area is in the production of cause of death statistics in the developing countries where not many deaths are attended by a medical practitioner. In these cases, there are relatively few medical certification of causes of death on which to base cause-of-death statistics.

Status of Civil Registration and Vital Statistics

A comprehensive evaluation of the status or the state of development of the civil registration and vital statistics systems will involve the assessment of various aspects of the registration and statistical process such as the adequacy of registration laws and regulations, promptness and completeness of registration, efficiency in providing certification of vital events, quality and completeness of data, efficiency of data processing, adequacy and usefulness of data produced, timeliness in the issuance of data, etc. Of these, perhaps the most useful single index of status is the measure of completeness with which births and deaths are registered.

Periodically, the countries are asked by the United Nations to make an assessment of the registration completeness of births and deaths. These evaluations, (C) for registration completeness of 90 percent or more and (U) for completeness of less than 90 percent, are published in the United Nations Yearbook and in the Population and Vital Statistics Report. In some cases, the evaluations are based on the results of sample surveys. Most of them are "guesstimates". However, in terms of the United Nations standard of completeness, these estimates probably represent a reasonably good assessment^a of the situation. In some instances, the national authorities may be over-optimistic about the effectiveness of the compulsory provisions of the registration law.

Data on completeness of birth and death registration as reported by the countries are shown in Appendix Table 2 and summarized in Table 4. Of the countries that reported this information, birth registration was considered to be complete in 54 percent of the countries. The corresponding figure for death registration is 51 percent. These percentages are significantly higher than those reported in the previous survey. However, these comparisons do not necessarily mean that there has been an improvement in the registration of vital statistics in the various countries. These differences have arisen mainly from reports from several newly established countries in Europe and Asia for which no previous information was available.

TABLE 4. NUMBER AND PERCENT OF COUNTRIES IN THE REGION REPORTING COMPLETE REGISTRATION OF BIRTHS AND DEATHS

	Birth Registration		Death Registration	
	No.	Percent	No.	Percent
All regions	119	54.3	111	50.7
Africa	10	19.6	7	13.7
America, North	27	81.8	26	78.8
America, South	5	41.7	5	41.7
Asia	22	68.8	19	59.4
Europe	44	95.7	44	95.7
Oceania	11	66.4	10	55.6

Births and deaths are completely registered in almost all the countries in Europe reporting this information. Registration coverage is also relatively good in the various countries in North America which includes the Caribbean countries and Central America. At the other end of the range are the African countries. Except for the island countries, registration coverage is poor in the sub-Saharan countries. Also, there is need for substantial improvement in registration coverage in Asia, South America and Oceania.

SUMMARY

This is a report on the organization and status of national civil registration and vital systems based on a questionnaire survey conducted in 1994. The survey shows that the organizational pattern of the national civil registration network varies considerably between countries. In 90 percent of the countries, the system is centralized, that is, the local registration offices are under the technical direction of a central office in the national government. In the 10 percent of the countries where the system is decentralized, there is no national registration office as such and civil registration is a function carried out by the State or provincial government.

There was considerable improvement in the response rate to the present questionnaire survey over that conducted 10 years previous to it. However, there are still a number of countries for which no information is available on the organization of the civil registration and vital statistics systems.

In the countries with a centralized registration system, the Ministry of Interior or Home Affairs is responsible for the registration function in 40 percent of the countries. In 34 percent of the countries, the Ministry of Justice is in charge of registration of vital events. The Health Ministry with its network of health centers is responsible for civil registration in 11 percent of the countries. There is a notable regional pattern in the national organization of the registration systems.

In countries with a centralized registration system, a national office has a direct line of authority over the entire network of registration offices in about 65 percent of the countries. In the remainder of the countries, the local registration offices are manned on a part-time basis by personnel of another ministry. This gives rise to problems in the supervision of

registration activities.

The accessibility of registration offices to the public is determined by the number and location of the local registration offices. Very few countries can afford the luxury of a registration network exclusively for that purpose. The use of existing local government facilities usually results in a less than ideal organizational arrangement for the registration of vital events. One draw back, that is, the dependence on part-time employees of another ministry has already been mentioned. Another problem is the number of local registration offices in the system. This number varies greatly by country and ranges from two or three offices in a small country to almost a quarter of a million in India. The number of local registration offices in the rural areas in most countries is such that, on the average, fewer than one vital event is registered per day. With such a small work load, it is difficult to impress the local registrar of the importance of this activity. It is also difficult to upgrade the position of the local registrar. The problem of establishing a registration network to best serve the public in an efficient manner is an important one and deserves study.

As expected, the central statistical office is charged with the responsibility for compiling national vital statistics in most countries. In more than half of the countries, the central statistical office is located in the Ministry of Finance and Economics and Ministry of Planning. In about 14 percent of the countries, the Ministry of Health is responsible for compiling national vital statistics. In about 11 percent of the countries, the central statistical office is part of the Ministry of Interior where most of the national registration offices are located.

For ease of coordination and operation, it would be desirable to have the national registration and vital statistics agencies located in the same ministry or department. This is usually not the case. In only 20 percent of the countries do we find the civil registration and vital statistics functions being carried out in the same ministry. In countries with a decentralized system of registration, the problem of coordination is more difficult because the national vital statistics office has to deal with registration offices in whatever number of independent federated States.

As of the time of the previous questionnaire survey in 1984, the registration of births and deaths was considered to be complete in about one-half of the countries of the world. The results of this survey show a significant increase in the countries with complete registration. This, however, is an artifact resulting mainly from reports from the newly formed republics in eastern Europe and the former Soviet Union.

Appendix A. Agencies Responsible for Civil Registration and National
Vital Statistics: Countries by Continent

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	<u>Subnational</u>	<u>National</u>	
<u>Africa</u>			
Algeria	...	Ministere de l'Interieur	Office National des Statistiques Premier Ministere
Angola	Registo civil	Direccao Nacional dos Registos Notariado e Identificacao, Ministerio de Justica	Direccao Nacional de Estadistica Ministerio de Plano
Benin	Mairie	Ministere de l'Interieur	Institut National de la Statistique et de l'Analyses Economique, Ministere du Plan et de la Reconstruction Economique
Botswana	District Commissioner's Office	Civil Registration Division Ministry of Labour and Home Affairs	Central Statistical Office, Ministry of Finance and Development Planning
Burkina Faso	Centres d'etat civil	Ministere de l'Administration Territoriale	Institut National de la Statistiques et de la Demographie, Ministere du Plan et de la Cooperation
Burundi	...	Department de la Population Ministere de l'Interieur	Department de la Population Ministere de l'Interieur
Cameroon	Bureau Municipal Ministere de l'Administration Territoriale	Service d'Etat Civil Ministere de l'Administration Territoriale	Direction de la Statistique et de la Comptabilite National, Ministere du Plan et Amenagement du Territoire
Cape Verde	Secretariado administrativos	Direccao Geral dos Registos e Notariado, Ministerio la Justica	Direccao Geral de Estatistica Ministerio de Cordenacao Economica
Central African Republic	Les centres d'etat civil	Service de l'Etat Civil et de la Demographic, Ministere de la Securite Public et de l'Administration	Service de l'Etat Civil et du Recensement Demographique, Ministere de l'Interieur
Chad	Centres d'etat civil Ministere de l'Interieur et de la Securite	Direction de la Statistique, des Etudes Economiques et Demographie Ministere du Plan de la Cooperation	Direction de la Statistiques, des Etudes Economique et Demographiques, Direction du Plan, Ministere du Plan et de la Cooperation
Comoros	...	...	...
Congo	Bureau d'etat civil Ministere de l'Interieur	Direction Nationale de l'Etat Civil, Ministere de l'Interieur	Centre National de la Statistique et des Economiques, Ministere du Plan et de l'Economie
Djibouti	...	Direction de la Population Ministere de l'Interieur des Postes et Telecommunications	Direction National de la Statistique Ministere du Commerce, Transports, et du Tourism

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>Africa</u>			
Egypt	Health centers	Civil Registration Department, Ministry of Interior	Central Agency for Public Mobilization and Statistics
Equatorial Guinea	District courts of justice	Juzgado de Distrito, Ministerio de Justicia Culto y Registro Civil	Direccion General de Estadistica, Ministerio Economia y Hacienda
Ethiopia	...	Ministry of Interior (rural areas), Ministry of Housing and Urban Development (urban areas)	Central Statistical Authorities
Gabon	Centres Principaux et secondaires	Ministeries of the Interior and Justice	...
Gambia	Health Inspectors	Medical & Health Dept., Ministry of Health, Labour & Social Welfare	Medical & Health Dept., Ministry of Health, Labour and Social Welfare
Ghana	Municipal offices, hospitals & health centers	Births & Deaths Registry, Ministry of Local Government	Births & Deaths Registry, Central Registry Office Ministry of Local Government
Guinea	...	...	...
Guinea-Bissau	Delegacoes do Registro Civil (Sector Regional)	Registro Civil, Comissariado de Estado de Justicia	Direcao General de Estadistica, Comissariado de Estado de Desenvolvimento Economico e Planificacao
Ivory Coast	Les Mairies et Sous-Prefectures	Ministere de l'Interieur	Institut National de la Statistiques, Ministere de l'Economique, Finances et Plan
Kenya	Local registry, offices and District registers	Department of Civil Registration, Office of the President	Central Bureau of Statistics, Ministry of Planning and National Development
Lesotho	District Secretaries	Registrar General's Office Ministry of Law & Human Rights	Bureau of Statistics, Ministry of Planning, Economic and Manpower Development
Liberia	County registrars	Bureau of Health & Vital Statis- tics, Ministry of Health & Social Welfare	Bureau of Health & Vital Statistics, Ministry of Health & Social Welfare
Libya	Civil registration office	Civil Registration Section Secretariat of Utilities	Census & Statistics Department, Secretariat of Planning
Madagascar	Communes	Direction du Controle et de la Tutelle des Collectivites, Ministere de l'Interieur	Institut National de la Statistique et de la Rescherche Economique, Presidence charge des Finance et du Plan
Malawi	District Commissioners	Department of the Registrar General, Ministry of Justice	National Statistical Office Office of the President

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>Africa</u>			
Mali	Centres l'Etat Civil	Direction National de l'Administration Territoriale Ministere d'Etat Charge de l'Administration Territoriale et de la Secruite Interieur	Direction Nationale de la Statistique et du l'Information, Ministere des Finance, de l'Economie dt du Plan
Mauritania	...	Secretariat d'Etat Civil Ministere de l'Interieur, des Postes et Telecommunications	Secretariat d'Etat Civil Office National de la Statistique, Ministere du Plan et de l'Amenagement du Territoire
Mauritius	Civil Status Office	Civil Status Office Prime Minister's Office	Central Statistical Office Ministry of Economic Planning & Development
Morocco	Bureau locaux d'etat civil	Division d'etat civil, Ministere de l'Interieur	Direction de la Statistique, Ministere charge de l'incitation de l'Economie, Premier Ministere
II Mozambique	...	Direccao Nacional dos Registos e Notoriados	Direccao National de Estadística Comissao Nacional do Plano
Namibia	...	Department of Civil Affairs Ministry of Home Affairs	Central Statistical Office National Planning Commission
Niger	...	Direction de l'Etat Civil et de Population, Ministere de l'Interieur	Direction de la Statistique e des Comptes Nationaux, Ministere du Plan
Nigeria	State ministries of health local government & teaching hospitals	National Population Commission Presidency	National Population Commission Presidency
Reunion	...	...	...
Rwanda	Bureaux communaux d'etat civil	Direction General des Affaires Politiques et Administrative Ministere de l'Interieur et du Development Communal	Direction Generale de la Statistique, Ministere du Plan
Saint Helena	...	...	...
Sao Tome & Principe	...	Departamento do Registo Civil Ministerio de Justiça e Funcao Publica	Direccao de Estadística, Ministerio de Economie e Financas

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>Africa</u>			
Senegal	...	Projet de l'Etat Civil, Ministere charge de la Decentralization	Direction de la Statistique, Ministere des Finance et des Affaires Economiques
Seychelles	Government administration	Civil Status Division Department of Youth & Defense	Statistical Section, Management Information Systems Division, Dept. of Finance
Sierra Leone	Births & deaths office Ministry of Health	Office of Chief Registrar Ministry of Health	Medical Statistics Unit Ministry of Health
Somalia	None	None	None
South Africa	District representatives	Department of Home Affairs Department of Co-operation and Development	Central Statistical Services, Department of Constitutional Development and Planning
¹² Sudan	Hospitals, dispensaries, dressing stations	Ministry of Health	Department of Statistics, Ministry of Finance and Economic Planning
Swaziland	Hospitals, clinics, police stations, chiefs of area	Registrar General's Office Ministry of Justice	Central Statistical Office Department of Economic Planning and Statistics
Tanzania	Health centers	Office of Registrar General, Ministry of Justice	Bureau of Statistics, Ministry of Planning & Economic Affairs
Togo	Centres d'etat civil	Division des Affaires, Politiques et Administratives, Ministere de l'Interieur	Direction de la Statistique, Ministere du Plan
Tunisia	Centres d'etat civil (Commune)	Ministere de l'Interieur	Direction des Statistiques, Demographiques et Sociales, Institut National de la Statistics, Ministere du Plan
Uganda	Subcountry headquarters Ministry of Local Government	Registrar General of Births & Deaths, Ministry of Justice	Statistics Department, Ministry of Finance and Economic Planning
Western Sahara	...	...	...

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>Africa</u>			
Zaire	Bureaux de l'etat civil	Etat Zairois, Ministere de Administration du Territoire	Institut National de la Statistique Ministere du Plan
Zambia	Provincial, district & sub- centers (schools, health centers and local courts)	Department of National Regis- tration, Ministry of Home Affairs	Census and Statistics Department
Zimbabwe	Provincial & district registries	Central Registry, Ministry of Home Affairs	Central Statistical Office, Ministry of Finance, Economic Planning & Development

REGION AND COUNTRY <u>America, North</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
French Guiana	...	...	...
Grenada	District Revenue Offices	Registrar General's Dept., Ministry of Health	Registrar General's Dept., Ministry of Health
Guadeloupe	...	...	...
Guatemala	Registro Civil	Tribunal Supremo Electoral	Direccion General de Estadistica, Ministerio de Economica
Haiti	Ministere de la Sante Publique	Service National de l'Inspection et de Controle de l'Etat Civil, Ministere de la Justice	Institut Hatien de Statistique et d'Informatique
Honduras	Municipal Officer, Health Center	Direccion General de Estadis- tica y Censos, Secretariat de Planificacion, Coordinacion y y Presupuesto	Direccion General de Estadistica y Censos, Secretariat de Planificacion, Coordinacion y Presupuesto
Jamica	...	Registrar General's Department Ministry of National Security and Justice	Registrar General's Department Ministry of National Security and Justice
Martinique	...	...	...
Mexico	Municipal office, Health Centers	Direccion General del Registro Nacional de Poblacion e Identi- fication Personal, Secretaria de Gobernacion	Instituto Nacional de Estadistica, Geografia e Informatica, Secretaria de Hacienda y Credito Publico
Montserrat	Court House, District registration office	Registrar General's Office Judicial Department	Statistics Department, Ministry of Finance
Netherland Antilles	...	...	...
Nicaragua	Registro Civil	Direccion General de Registro Ministerio de Justicia	Instituto Nacional de Estadistica y Censos
Panama	Oficina del Registro Auxilliar de Estado Civil	Dirección General del Registro Civil	Dirección de Estadística y Censos, Controloria General de la Republica
St. Christopher-Nevis	District Registrars	Registrar General's Department Ministry of Health	Registrar General's Department, Ministry of Health

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>America, North</u>			
Aguila	...	...	...
Antigua & Barbuda	...	...	Statistics Division, Ministry of Finance
Bahamas	District Register Office	Registrar General's Dept.; Office of Attorney General	Department of Statistics Ministry of Finance
Barbados	Subsidiary registration offices	Registration Department Attorney General, Supreme Court	Statistical Service
Belize	District Offices for Civil Registry	Registry Judiciary Department	Central Statistical Office Ministry of Finance
Bermuda		Registryr General Ministry of Labour & Home Affairs	Registry General Ministry of Labour & Home Affairs
British Virgin Islands	...	...	...
Canada	Provincial & Territorial Vital Statistics Offices (Health)	None	Statistics Canada
Cayman Islands	Subregistration Office District Post Office	Registrar of Companies Dept., Dept. of Finance & Development	Economics & Statistics Office
Costa Rica	Regional Offices	Direccion General Registro Civil Tribunal Supremo de Elecciones	Dirrecion General de Estadistica y Censos, Ministerio de Economica y Comercio
Cuba	Oficina de Registro Civil	Direccion Registro Civil y Notariado, Ministerio de Justicia	Instituto de Investigaciones Estadisticas Oficina Nacional de Estadisticas, Ministerio de Economia y Plannificacion
Dominica	...	Oficina de Estado Civil	Statistical Offices Ministry of Finance
Dominican Republic	Oficina de Estado Civil	Junta Central Electoral Organismo O Tribunal qua Organizalas Elecciones Nacionales	Oficina Nacional de Estadistica; Direccion Nacional de Estadistica
El Salvador	Oficina de Registro Civil	None	Direccion General de Estadistica; Ministerio de Economia y Censos

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>America, North</u>			
St. Lucia	District Registrars	Registry of the Supreme Court Ministry of Legal Affairs	Government Statistics Department, Ministry of Finance, Statistics and Negotiating
St. Pierre & Miquelon	...	...	...
St. Vincent & the Grenadines	District Registrars	Registrar General's Office Registry Department	Statistics Office, Ministry of Finance and Planning
Suriname	District Registrars	Central Institute for Civil Registration, Ministry of Home Affairs, Bureau of Public Health	Central Institute for Civil Registration, Ministry of Home Affairs, Bureau of Public Health (death statistics)
Trinidad & Tobago	Registry Office	Registrar General's Department Ministry of Legal Affairs	Central Statistical Office, Ministry of Finance and Planning
Turks & Cacos Islands	...	Attorney General's Office	Office of Prime Minister
United States	Local health departments	None	National Center for Health Statistics Department of Health & Human Services

REGION AND COUNTRY <u>America, South</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
Argentina	Oficina del Registro Civil	None	Dirección de Estadística de Salud, Ministerio de Salud y Acción Social
Bolivia	Direcciones Departamentales y Oficinas Locales de Registro Civil	Dirección Nacional de Registro Civil Ministerio del Interior, Migración y Justicia	Instituto Nacional de Estadística, Ministerio de Planeamiento y Coordinación
Brazil	Cartorios de Registro de Pessoas Naturals	Ministerio de Justicia	Fundação Instituto Brasileiro de Geografia e Estadística, Secretaria de Planejamento, Orçamento e Coordenação
Chile	Municipal offices, health center and revenue office	Dirección Nacional del Servicio de Registro Civil e Identificación, Ministerio de Justicia	Instituto Nacional de Estadística, Ministerio de Economía, Fomento y Reconstrucción
Colombia	Municipal office, notary, police station	Dirección Nacional de Registro Civil, Superintendencia de Notariado y Registro Civil, Ministerio de Justicia	Departamento Administrativo Nacional de Estadística
Ecuador	Oficina de Registro Civil	Dirección General de Registro Civil, Identificación y Cedulación, Ministerio de Gobierno	Instituto Nacional de Estadística y Censos Adscrito a la Vicepresidencia de la República
Guyana	Health centers, hospitals	General Registrar Office Ministry of Home Affairs	Statistical Bureau, Ministry of Economic Planning and Finance
Paraguay	Oficina de Registro Civil	Dirección General del Registro de Estado Civil de las Personas, Ministerio de Justicia y Trabajo	Dirección General de Estadística y Censos, Secretaría Técnica de Planificación del Desarrollo Económico y Social de la Presidencia
Peru	Oficina de Registro Civil	Oficina General de Asesoría Jurídica, Ministerio de Justicia	Instituto nacional de Estadística e Informática Primer Ministro

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>America, South (Cont.)</u>			
Uruguay	Ofician de Registro de Estado Civil	Direccion General del Registro del Estado Civil, Ministerio de Educacion y Cultura	Division Estadistica, Ministerio de Salud Publica
Venezuela	Prefecturas, Municipales, Gobernaciones de Estado	Direccion de Registro Civil y Notario, Ministerio de Justicia	Oficina Central de Estadistica e Informatica Secretaria de la Presidencia
<u>Asia</u>			
Afghanistan	Population Registration and Vital Statistics, Directorate, Provincial Police Dept.	Population Registration Dept., Ministry of Interior	Census and Survey Department, Central Statistics Office , Coordination Department
Armenia	Municipal offices Ministry of Justice	Department of Civil Acts Registration, Ministry of Justice	State Committee on Statistics
Azerbaijan	Municipal offices	Ministry of Justice	State Committee on Statistics
Bahrain	Births & Deaths Registration Office	Births & Deaths Registration Office, Ministry of Health	Directorate of Statistics, Central Statistics Organization, Council of Ministers
Bangladesh	Thanas, Municipalities	Ministry of Local Government	Bureau of Statistics, Ministry of Planning
Bhutan	Local administrative offices	Directorate of Registration, Census & Immigration Division, Ministry of Home Affairs	Central Statistical Organization Planning Commission
Brunei Darussalam	...	Registrar of Births & Deaths, Medical & Health Dept. and Judicial Dept.	Ministry of Health

REGION AND COUNTRY <u>Asia Cont.)</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
China	City or County Public Bureau	Administration Division for Population Registration, Ministry of Public Security	Administration Division for Population Registration, Third Bureau, Ministry of Public Security
Cyprus	District office	Registration Service, Ministry of Interior	Department of Statistics & Research, Ministry of Finance
Georgia		Department of Notariate and Registration, Ministry of Justice	Committee on Socio-economic Information
Hong Kong	Birth & Death Register Offices	Births, Deaths & Marriages Subdivision, Immigration Dept.	Census and Statistics Dept. Government Secretariat
India	Office of Chief Registrar of Births and Deaths (State and Union Territory)	None	Office of Registrar General, India Ministry of Home Affairs
Indonesia	Local government office	Directorate General of PYOD Department of Interior	Central Bureau of Statistics Department of Interior
Iran	National civil registration offices	Civil Registration Organization Ministry of Interior	Civil Registration Organization Ministry of Interior
Iraq	Chief medical office	Vital and Health Statistics Section, Directorate General for Medical Services	Vital and Health Statistics Section Directorate General for Medical Services
Israel	Health centers, local population administration	Administration of Population Ministry of Interior	Central Bureau of Statistics Prime Minister's Office
Japan	City, town & village administration offices	Civil Affairs Bureau, Ministry of Justice	Statistics & Information Dept., Ministry of Health and Welfare

REGION AND COUNTRY <u>Asia (Cont.)</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
Jordan	Civil Registration Office	Civil Status Department Ministry of Interior	Civil Status Department Ministry of Interior
Kampuchea	...	...	...
Kazakhstan	Municipal offices	Vital Registration Bodies Ministry of Justice	State Committee on Statistics and Analysis
Korea, Rep.	Local Government Offices	Bureau of Registry Ministry of Court Administration	National Statistical Office
Kuwait	Health Units	Department of Central Civil Registration, Ministry of Health	Central Statistical Office Ministry of Planning
Kyrgyzstan	...	Registry Office, Ministry of Justice	Demographic Statistics Department State Committee on Statistics
Laos, People's Dem. Rep.	...	...	...
Lebanon	...	...	Central Statistical Office Ministry of Planning
Macao	Conservatoria do Registo Civil	Direccao de Servicos de Justica Secretario-adjunto para a Administracao	Direccao de Servicos des Estadistica e Censos Secretario-Adjunto para os Assuntos
Malaysia	Municipal offices, health centers, police stations, etc.	National Registration Dept. Ministry of Home Affairs	Department of Statistics Prime Minister's Dept.
Maldives	Atoll office, Ministry of Justice for deaths	Health Information Unit (Births) Ministry of Health and Welfare Ministry of Justice (deaths)	Health Information Unit (births), Ministry of Health and Welfare, Ministry of Justice (deaths)
Mongolia	Civil Registrar's office	Notaries Office Ministry of Justice	State Statistical Office, Cultural Education and Health Department

REGION AND COUNTRY <u>Asia (Cont.)</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
Myanmar	Township medical officers	Health Department Ministry of Health	Central Statistical Organization, Ministry of National Planning and Economic Development
Nepal	Village Panchayat offices	Office of the Registrar Ministry of Local Development	Office of the Registrar, Ministry of Home
Oman	...	Ministry of Health (not operational)	None
Pakistan	Department of Local Bodies and Rural Development	Civil Registration Organization Ministry of Interior	Federal Bureau of Statistics, Ministry of Health, Special Education and Social Welfare
Philippines	City health offices, Treasurer's office of municipalities	Office of Civil Registrar General, National Statistical Office, National Economic and Development Authority	Office of Civil Registrar General, National Statistical Office, National Economic and Development Authority
Qatar	Health centers	Preventive Health Department Ministry of Public Health	Central Statistical Organization, Presidency of the Council of Ministers
Saudi Arabia	...	Directorate of Health Affairs and Directorate of Communicable Disease, Ministry of Health	Department of Statistics, Ministry of Health
Singapore	Registry of Births & Deaths	Registry of Births & Deaths National Registration Dept. Ministry of Home Affairs	Registry of Births & Deaths, National Registration Dept., Ministry of Home Affairs
Sri Lanka	District registrars	Registrar General's Dept. Ministry of Home Affairs and Provincial Councils	Department of Census and Statistics, Ministry of Policy Planning and Implementation
Syria	...	Director General for Civil Registration, Ministry of Interior	Central Bureau of Statistics, Office of Prime Minister

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>Asia (Cont.)</u>			
Tajikistan	...	Civil Registration Directorate Ministry of Justice	State Statistical Agency
Thailand	Provincial & district administration	Administrative and Civil Registration Division Ministry of Interior	Health Statistics Division, Ministry of Public Health
United Arab Emirate	...	Central Preventive Medicine Directorate, Health Ministry	Central Statistical Department, Ministry of Planning
Uzbekistan	...	...	...
Viet Nam	...	General Statistical Office Ministry of Home	Population Statistics Division General Statistical Office
Yemen	Local Registration Offices	Civil Registration Department Ministry of Justice	...
<u>Europe</u>			
Albania	...	Central Directorate of Statistics Council of Ministers	Central Directorate of Statistics, Council of Ministers
Andorra	...	...	...
Austria	Gemeinde; Standesamtsverband	Federal Ministry of Interior	Central Statistical Office
Belgium	Municipal offices	Registere National des Personnes Ministere de l'Interieur	Institut National de Statistique
Belarus	Municipal Office	Executive Committees of Soviets of People's Deputies	State Committee on Statistics and Analysis

REGION AND COUNTRY <u>Europe (Cont.)</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
Bulgaria	Comites executifs des conseils populaires communaux	Commission de comites executifs aupres des conseils populaires Conseil des Ministres	comite sur les Problemes du System Integre d'Information
Croatia	Municipal office	Ministry of Justice and Public Administration	Central Bureau of Statistics
Channel Islands Guernsey	None	Registrar General of Births, Deaths and Marriages	Public Health Department, Board of Health
Jersey	None	Superintendent Registrar	Economic Advisor's Office
Czech Republic	...	...	Statistical Office, Ministry of Interior Affairs
Denmark	Folkeregisteret, State church office (births), Probate courts (deaths)	Dept. of Person Registration Ministry of Interior	Danmarks Statistik Ministry of Economics
England & Wales	District register office	General Register Office Office of Population Censuses	Office of Population Censuses & Surveys
Estonia	...	State Registry Office Ministry of Justice	State Statistical Office Ministry of Finance
Faroe Islands	...	...	...
Finland	District population register offices	Population Register Center Ministry of Interior	Statistics Finland
France	Les Maires de Commune	Ministere de la Justica	Institut National de la Statistique et des Etudes Economiques, Ministere de l'Economie, des Finance et du Budget
Georgia	...	Department of Notariate and Registration, Ministry of Justice	Socio-Economical Information Committee Department of Labour and Population Statistics

REGION AND COUNTRY <u>Europe (Cont.)</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
Germany, Fed. Rep.	Local registry	Ministry of Interior	Federal Statistical Office
Gibraltar	Government office	Registry of Births, Deaths and Marriages, Supreme Court	Statistics Office
Greece	Registry office	Division on Citizenship Ministry of Interior	National Statistical Service Ministry of National Economy
Hungary	Municipal offices	National Offices of Personal Data and Residential Address Registration, Ministry of Interior	Central Statistical Office
Iceland	Municipal offices	National Registry Statistical Bureau	Statistical Bureau
23 Ireland	Health Boards	General Register Office Department of Health	Central Statistics Office Department of the Taoiseach
Isle of Man	None	General Registry	General Registry and Treasury Statistician
Italy	Uffici di Stato Civile dei Comuni	Direzione Generale Affari Civili e Libere Professioni Ministero di Grazia e Giustizia	Istituto Nazionale di Statistics
Latvia	...	Registry Department Ministry of Justice	State Committee for Statistics Ministry of Economy
Lichtenstein	Municipal office	Zivilstandsamt Ministry of Interior	Amt für Volkswirtschaft Office of National Economy
Lithuania	...	Department of Statistics	Department of Statistics
Luxembourg	Municipal offices	Administrations Communales	Service Central de la Statistique et des Etudes Economiques, Ministere de l'Economie

REGION AND COUNTRY <u>Europe (Cont.)</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
Macedonia	Municipal offices	Civil Registration Office Ministry of Interior	Statistical Office
Malta	Police offices	Public Registry, Ministry of Justice & Parliamentary Affairs	Central Statistical Office
Moldova	...	Ministry of Justice	Department of Statistics
Monaco	None	Mairie de Monaco	Service des Statistiques et des Etudes e Economiques, Ministere des Finances e Economie
Netherlands	Local registration office	None	Central Bureau of Statistics Ministry of Economic Affairs
Norway	Revenue offices	Office of the National Register Directorate of Taxes	Statistics Norway Ministry of Finance
Poland	Civil Registry Offices	Ministry of Internal Affairs	Central Statistical Office Department of Information
Portugal	Local registration offices	Direccao-Geral Registos e Notariado, Ministry of Justice	National Statistical Institute Ministry of Planning 7 Territory Administration
Romania	Municipal, city & village councils	None	Directia Centrala de Statistica
Russian Federation	Municipal offices	...	State Committee on Statistics
San Marino	...	...	...
Scotland	Municipal offices	General Register Office of Births, Deaths & Marriages	General Register Office of Births, Deaths & Marriages
Slovakia	Municipal office	Ministry of Interior	Statistical Office, Department of Social Statistics and Demography

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
<u>Europe (Cont.)</u>			
Slovenia	Municipal office	Municipal Registrar's Office Ministry of Interior	Statistical Office
Spain	Municipal office	Direccion General de los Registros y del Notariado, Ministerio de Justicia e Interior	Instituto Nacional de Estadística, Ministerio de Economía y Hacienda
Sweden	Parish Civil Registration Office	National Tax Board Ministry of Finance	Statistics Sweden Ministry of Finance
Switzerland	Municipal office	Federal Civil Registration Office, Federal Department of Justice and Police	Federal Statistical Office Department of Interior
Turkey	Local state offices	General Directorate of Popula- tion and Citizenship Affairs Ministry of Internal Affairs	State Institute of Statistics Prime Minister's Office
Yugoslavia	Local registrar Office of Secretariats for Internal Affairs	Federal Secretariat for Internal Affairs	Federal Statistical Office
<u>Oceania</u>			
American Samoa	...	...	...
Australia	State Registry of Births, Deaths & Marriages	None	Bureau of Statistics
Cook Islands	Island Registry	Births & Deaths Registry Department of Justice	Statistics Office

REGION AND COUNTRY	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
<u>Oceania</u>			
Fiji	Civil Registry District Administration	Office of Registrar General, Office of Attorney-General	Bureau of Statistics Ministry of Finance
French Polynesia	Mairies	...	...
Guam	Government office	Office of Vital Statistics Department of Public Health and Social Services	Office of Vital Statistics, Department of Public Health and Social Services
Kirbati	Local Government office	Registrar-General's Office Ministry of Finance	Statistics Office Ministry of Finance
Nauru	...	...	...
New Zealand	Municipal Offices District Court	Office of Registrar General Department of Justice	Statistics New Zealand
26 Niue	Local registration office	Registrar of Births, Deaths & Marriages, Department of Justice, Land and Survey	Statistics Unit, Department of Planning and Development
Papua New Guinea	None	Civil Registration Service Department of Religion, Home Affairs and Youth	National Statistical Office
Western Somoa	Registrar in Apia Government representative	Births, Deaths & Marriages Registration Office	Department of Statistics
Soloman Islands	None	Ministry of Home Affairs	Statistics Division, Ministry of Finance and Economic Planning
Tonga	Office of Magistrate Government representative (outer islands)	Registrar General's Office Ministry of Justice	Vital Statistics Division Ministry of Justice

REGION AND COUNTRY <u>Oceania (Cont.)</u>	CIVIL REGISTRATION ADMINISTRATION		NATIONAL VITAL STATISTICS OFFICE
	Subnational	National	
Tuvalu	Health centers	Medical Division, Ministry of Health, Education and Community Affairs	Ministry of Health, Education and Community Affairs
Vanuatu	...	Civil Registration Office Health Department	Statistics Office, National Planning and Statistics Office
Wallis & Fortuna	...	...	...

Appendix B. Estimated Completeness of Birth and Death Registration:
Each country by region

	%Registration Completeness			%Registration Completeness	
	Birth	Death		Birth	Death
<u>AFRICA</u>					
Algeria ¹	C	U	Malawi	...	...
Angola ¹	U	U	Mali ²	U	U
Benin ²	U	U	Mauritania ²	U	U
Botswana ²	U	U	Mauritius	100	100
Burkina Faso ²	U	U	Morocco	82	20
Burundi ²	U	U	Mozambique ²	U	U
Cameroon	85	30	Nambia	...	...
Cape Verde	C	C	Niger ²	U	U
Central African Republic	U	U	Nigeria ²	U	U
Chad ¹	U	U	Reunion	C	C
Comoros ²	U	U	Rwanda	51	51
Congo	74	41	St. Helena ²	C	C
Djibouti ¹	U	U	Sao Tome & Principe	C	C
Egypt	100	100	Senegal	54	39
Equatorial Guinea	53	58	Seychelles	100	100
Ethiopia ²	U	U	Sierra Leone ²	U	U
Gabon	...	...	Somalia	0	0
Gambia	50	10	South Africa	64	60
Ghana	45	20	Sudan	25	5
Guinea ²	U	U	Swaziland ²	23	26
Guinea-Bissau	U	U	Tanzania	U	U
Ivory Coast	...	...	Togo	80	15
Kenya ²	U	U	Tunisia ¹	C	U
Lesotho	45	20	Uganda	35	25
Liberia	35	12	Western Sahara ²	U	U
Libya	90	62	Zaire ²	U	U
Madagascar ¹	U	U	Zambia ²	15	10
			Zimbabwe ²	U	U
<u>AMERICA, NORTH</u>					
Aguila ²	C	C	Guyana	...	...
Antigua & Barbados	C	C	Haiti	...	...
Bahamas	72	97	Honduras	U	U
Barbados	85	80	Jamaica	90	90
Belize ²	U	U	Martinique ²	C	C
Bermuda	100	99	Mexico	96	89
British Virgin Islands ²	C	C	Montserrat	100	100
Canada	100	100	Netherlands Antilles ²	C	C
Cayman Islands	100	100	Nicaragua	80	40
Costa Rica	97	95	Panama	95	75
Cuba	100	100	Saint Christopher-Nevis	100	100
Dominica ²	C	C	Saint Lucia	100	100
Dominican Republic	35	5	Saint Pierre & Miquelon ²	C	C
El Salvador ²	C	C	St. Vincent & the Grenadines	99	97
French Guina	...	...	Trinidad & Tobago	98	100
Grenada	94	90	Turks & Cacas Islands ²	C	C
Guadeloupe ²	C	C	United States	99	99
Guatemala	95	90	Virgin Islands	C	C

Appendix B. Estimated Completeness of Birth and Death Registration:
Each country by region (cont.)

	% Registration Completeness			% Registration Completeness	
	Birth	Death		Birth	Death
<u>AMERICA, SOUTH</u>					
Argentina	98	100	Guyana	81	86
Bolivia	U	U	Paraguay	27	48
Brazil	75	75	Peru	88	80
Chile	100	100	Suriname	95	95
Colombia	90	98	Uruguay	95	100
Ecuador	15	22	Venezuela	100	100
<u>ASIA</u>					
Afghanistan	...	...	Laos	...	...
Armenia	100	100	Lebanon	U	U
Azerbaijan	99	28	Macao	100	100
Bahrain ²	U	U	Malaysia	93	74
Bangladesh	U	U	Maldives ²	C	C
Brunei ²	C	C	Mongolia	100	100
China	90	90	Myanmar	90	90
Cyprus	85	85	Nepal	24	9
Georgia ²	C	C	Oman	...	...
Hong Kong	100	100	Pakistan	35	35
India	47	54	Philippines	85	73
Indonesia	...	...	Qatar	95	95
Iran ²	U	U	Saudi Arabia	...	...
Iraq ²	U	U	Singapore	100	100
Israel	100	100	Sri Lanka	99	94
Japan	100	100	Syria	88	54
Jordan	95	60	Tajikistan	98	84
Kampuchea	...	...	Thailand	70	60
Kazakstan ²	C	C	Turkmenistan ²	C	C
Korea, Rep. of	95	95	United Arab Emirates	...	...
Kuwait	C	C	Viet Nam	...	...
Kyrgyzstan	C	C	Yemen, People's Dem. Rep.	...	...
			Yemen, Rep.	...	...
<u>EUROPE</u>					
Albania ²	C	C	Finland	100	100
Andorra	...	...	France	100	100
Austria	100	100	Germany, Dem. Rep. ²	C	C
Belarus	100	100	Germany, Fed. Rep.	100	100
Belgium	100	100	Gibraltar	100	100
Bosnia-Herzegovina	C	C	Greece	99	99
Bulgaria ²	C	C	Hungary	100	100
Channel Islands ²	C	C	Iceland	100	100
Croatia ²	C	C	Ireland	100	100
Czech Republic	100	100	Isle of Man	100	100
Denmark	100	100	Italy	100	100
England & Wales	100	100	Latvia ²	C	C
Faroe Islands	100	100	Lichtenstein ²	C	U

Appendix B. Estimated Completeness of Birth and Death Registration:
Each country by region (cont.)

	% Registration Completeness			% Registration Completeness	
	Birth	Death		Birth	Death
<u>EUROPE cont.</u>					
Lithuania	100	100	Russia	C	C
Luxembourg	100	100	San Marino ²	C	C
Macedonia	C	C	Scotland ²	C	C
Malta	100	100	Slovakia	100	100
Moldova	...	...	Slovenia	100	100
Monaco ²	C	U	Spain ²	C	C
Netherlands	100	100	Sweden	100	100
Norway	100	100	Switzerland	100	100
Poland	100	100	Turkey	80	95
Portugal	85	99	Yugoslavia	100	100
Romania	100	100			
<u>OCEANIA</u>					
American Samoa ²	C	C	New Zealand	100	100
Australia	99	99	Niue	100	100
Cook Islands	94	98	Papua New Guinea	...	...
Fiji	95	97	Samoa ²	U	U
French Polynesia ²	U	U	Solomon Islands	75	75
Guam	98	98	Tonga	95	90
Kiribati	70	60	Tuvalu	26	9
Marshall Islands	C	C	Vanuatu	40	30
Nauru ²	C	C	Wallis & Fortuna	...	...
New Caledonia ²	C	C			

¹ Makannah, T.J., Methods and Problems of Civil Registration Practices and Vital Statistics Collection in Africa. IIVRS Technical Papers No. 16, p. 17 and 18, July 1981.

² United Nations Population and Vital Statistics Report. Statistical Papers Series A. Vol. XLVII, No. 4. October 1995