



WHO / UNICEF

**Joint Monitoring Programme
for Water Supply and Sanitation**

Coverage Estimates

Improved Drinking Water

Updated in July 2008

Paraguay

| DHS 1990 | | |
|--|--------------|--------------|
| WATER | Urban | Rural |
| Piped into house | 50.6 | 2.4 |
| Piped into yard | 11.9 | 0.6 |
| Public standpipe | 1.5 | 0.4 |
| Well with handpump | 4.2 | 5.9 |
| Well without pump | 23.3 | 75.7 |
| River, spring | 0.4 | 10 |
| Truck | 2.6 | 0.2 |
| Water tank (Aljibe) | 0.4 | 0.9 |
| Other | 5.1 | 3.8 |
| No information | 0 | 0 |
| TOTAL | 100 | 99.9 |
| Estimation of protected wells, based on ratio from WHS | 14.3 | 27.5 |
| Access to improved drinking water sources | 79% | 32% |
| % House connections | 63% | 3% |

Source: DHS Paraguay, 1990

| ENDSR95/96 1996 | | | |
|--|--------------|--------------|--------------|
| WATER | Urban | Rural | Total |
| Tuberia en la casa | 62.8 | 6.2 | 35.6 |
| Tuberia en el patio | 10.7 | 4.4 | 7.7 |
| Pozo con bomba de mano | 4.6 | 7.9 | 6.2 |
| Pozo sin bomba de mano | 13.4 | 65.8 | 38.6 |
| Canilla publica | 3.9 | 0.8 | 2.4 |
| Rio, manantial | 0.1 | 5.2 | 2.6 |
| Vendedor de agua | 0.4 | 0.3 | 0.4 |
| Aljibe | 0.1 | 0.5 | 0.3 |
| Otro/No responde | 3.9 | 8.9 | 6.3 |
| TOTAL | 100 | 100 | 100 |
| Estimation of protected wells, based on ratio from WHS | 9.4 | 24.9 | |
| Access to improved drinking water sources | 87% | 37% | |
| % House connections | 74% | 11% | |

| ENSMI-98 1998 | | | |
|--|--------------|--------------|--------------|
| WATER | Urban | Rural | Total |
| Tuberia en la casa | 74.5 | 8.6 | 45.2 |
| Tuberia en el patio | 7.3 | 4.7 | 6.2 |
| Canilla publica | 1.6 | 0.4 | 1.1 |
| Pozo con bomba de mano | 1.2 | 5.5 | 3.1 |
| Pozo con bomba electrica | 7.7 | 10.4 | 8.9 |
| Pozo sin bomba de mano | 6.1 | 55.5 | 28 |
| Rio, manantial | 0.2 | 7.4 | 3.4 |
| Aljibe | 0 | 0.6 | 0.3 |
| Trae del vecino | 1.2 | 6.8 | 3.7 |
| Otro/No responde | 0.1 | 0 | 0 |
| TOTAL | 100 | 100 | 100 |
| Estimation of protected wells, based on ratio from WHS | 7.8 | 24.1 | |
| Access to improved drinking water sources | 91% | 38% | |
| % House connections | 82% | 13% | |

Source: Encuesta Nacional de Salud Materno Infantil: 1998 (ENSMI-98), November 1999, page 12.

Urban and Rural Water - Paraguay

Survey

| EIH 1998 | | |
|--|--------------|-------------|
| WATER | Urban | Rural |
| Corposana o senasa dentro de la vivienda | 40.1 | 3.5 |
| Red privada dentro de la vivienda | 9.2 | 3.0 |
| Corposana o senasa dentro de la propiedad | 13.2 | 3.0 |
| Red privada dentro de la propiedad | 3.7 | 2.5 |
| Corposana o senasa fuera de la propiedad | 3.2 | 0.6 |
| Red privada fuera de la propiedad | 0.5 | 0.1 |
| Arroyo o rio | 0.3 | 0.4 |
| Ycua (?) o manantial | 0.1 | 8.1 |
| Pozo con bomba | 14.6 | 12.5 |
| Pozo sin bomba | 14.7 | 62.1 |
| Aguatero | 0.3 | 0.3 |
| Otro | 0.3 | 3.7 |
| TOTAL | 100.2 | 99.8 |
| Estimation of protected wells, based on ratio from WHS | 15.2 | 25.2 |
| Access to improved drinking water sources | 85% | 38% |
| % House connections | 66% | 12% |

Source: *Desigualdades en el acceso, uso y gasto con el agua potable en America Latina y el Caribe, Paraguay, PAHO, Feb 2001, based on EIH 1998*

| EPH 2002 | | |
|--|--------------|--------------|
| WATER | Urban | Rural |
| Essap/Senassa | 57.3 | 17.5 |
| Red privada | 19.6 | 6.4 |
| Pozo con bomba | 11.8 | 18.1 |
| Pozo sin bomba | 11.2 | 51.4 |
| Tajamar, rio | 0.0 | 4.9 |
| Aljibe | 0.0 | 1.6 |
| Otro | 0.2 | 0.1 |
| TOTAL | 100.1 | 100.0 |
| Estimation of protected wells, based on ratio from WHS | 12.0 | 23.4 |
| Access to improved drinking water sources | 89% | 47% |
| % House connections | 77% | 24% |

Source: *Encuesta Permanente de Hogares, 2002*

| WHS 2003 | | |
|--|--------------|--------------|
| WATER | Urban | Rural |
| Piped water through house connection or yard | 80.4 | 28.5 |
| Public standpipe | 1.3 | 1.1 |
| Protected tube well or bore hole | 2.6 | 7.0 |
| Protected dug well or protected spring | 6.8 | 14.6 |
| Rainwater (into tank or cistern) | 0.0 | 0.9 |
| Unprotected dug well or spring | 8.7 | 42.5 |
| Water taken directly from pond-water or stream | 0.1 | 5.3 |
| Tanker-truck, vendor | 0.2 | 0.1 |
| TOTAL | 100.0 | 100.0 |
| Ratio of protected /all wells and springs | 0.52 | 0.34 |
| Access to improved drinking water sources | 91% | 52% |
| % House connections | 80% | 28% |

Source: *World Health Survey, WHO, 2003.*

Census

| Census | 1992 | |
|--|------------------|------------------|
| (Population in thousands) | | |
| WATER | Urban | Rural |
| Canerias de red publica | 1'028.306 | 33.676 |
| Red privada | 150.778 | 25.264 |
| Pozo con bomba | 259.735 | 150.790 |
| Pozo sin bomba | 541.259 | 1'440.115 |
| Manantial, rio, arroyos | 19.660 | 324.275 |
| Aguatero | 48.936 | 28.235 |
| Otro | 12.862 | 48.100 |
| Total population | 2'061.536 | 2'050.455 |
| Estimation of protected wells, based on ratio from WHS | 416.4 | 536.6 |
| Access to improved drinking water sources | 77% | 29% |
| % House connections | 57% | 3% |

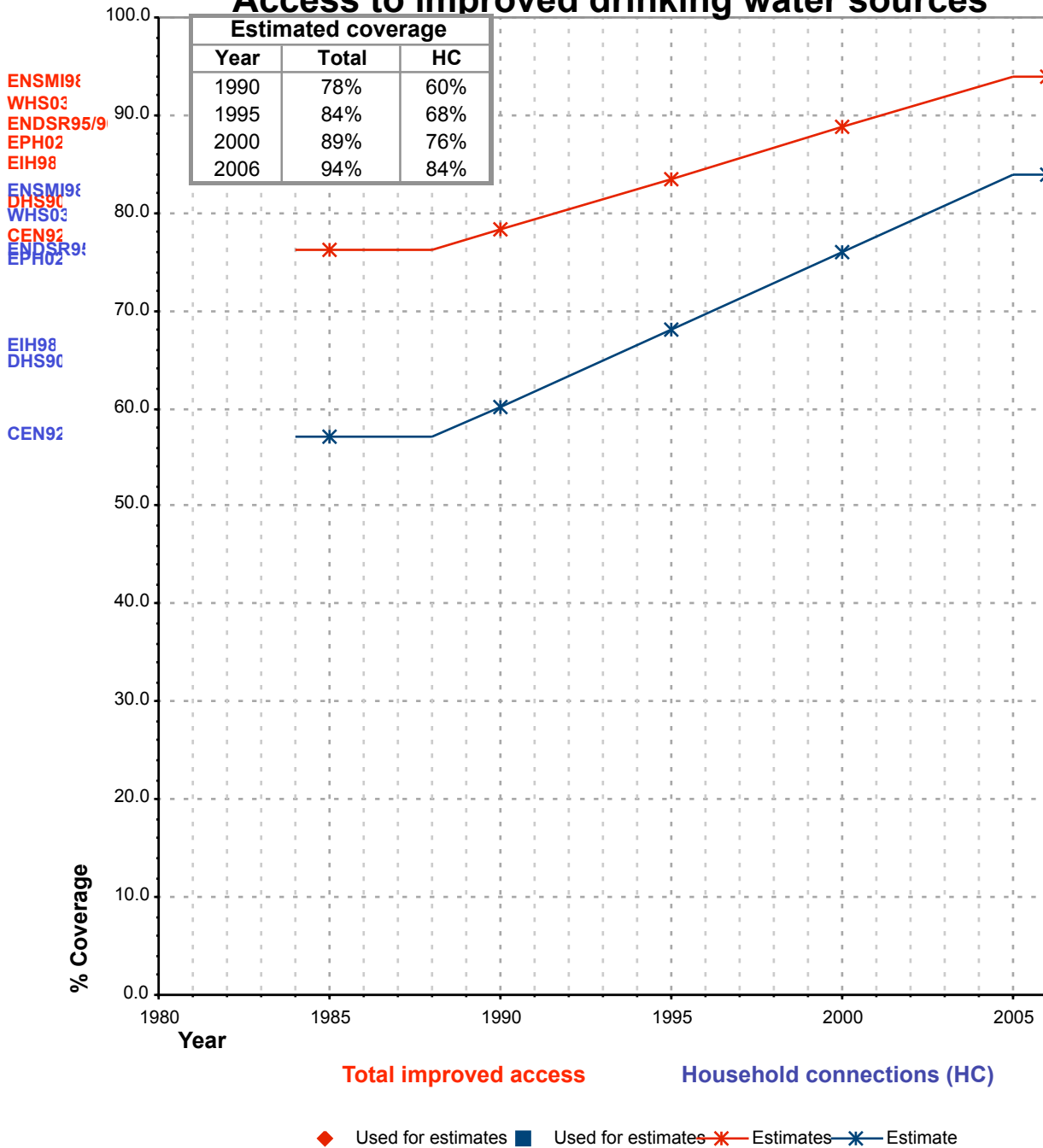
Estimate

| FORM-6/WHO | 1999 | |
|--|------------------|------------------|
| (Population in thousands) | | |
| WATER | Urban | Rural |
| Population served with household connection | 2'003.680 | 276.938 |
| Population without household connection but with reasonable access to a public water point | 33.470 | 44.000 |
| Total population served | 2'037.150 | 320.938 |
| Total population unserved | 867.977 | 2'179.409 |
| Total population | 2'905.127 | 2'500.347 |
| Access to improved drinking water sources | 70% | 13% |
| % House connections | 69% | 11% |

Source: Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. (Form 6 sent to WHO)

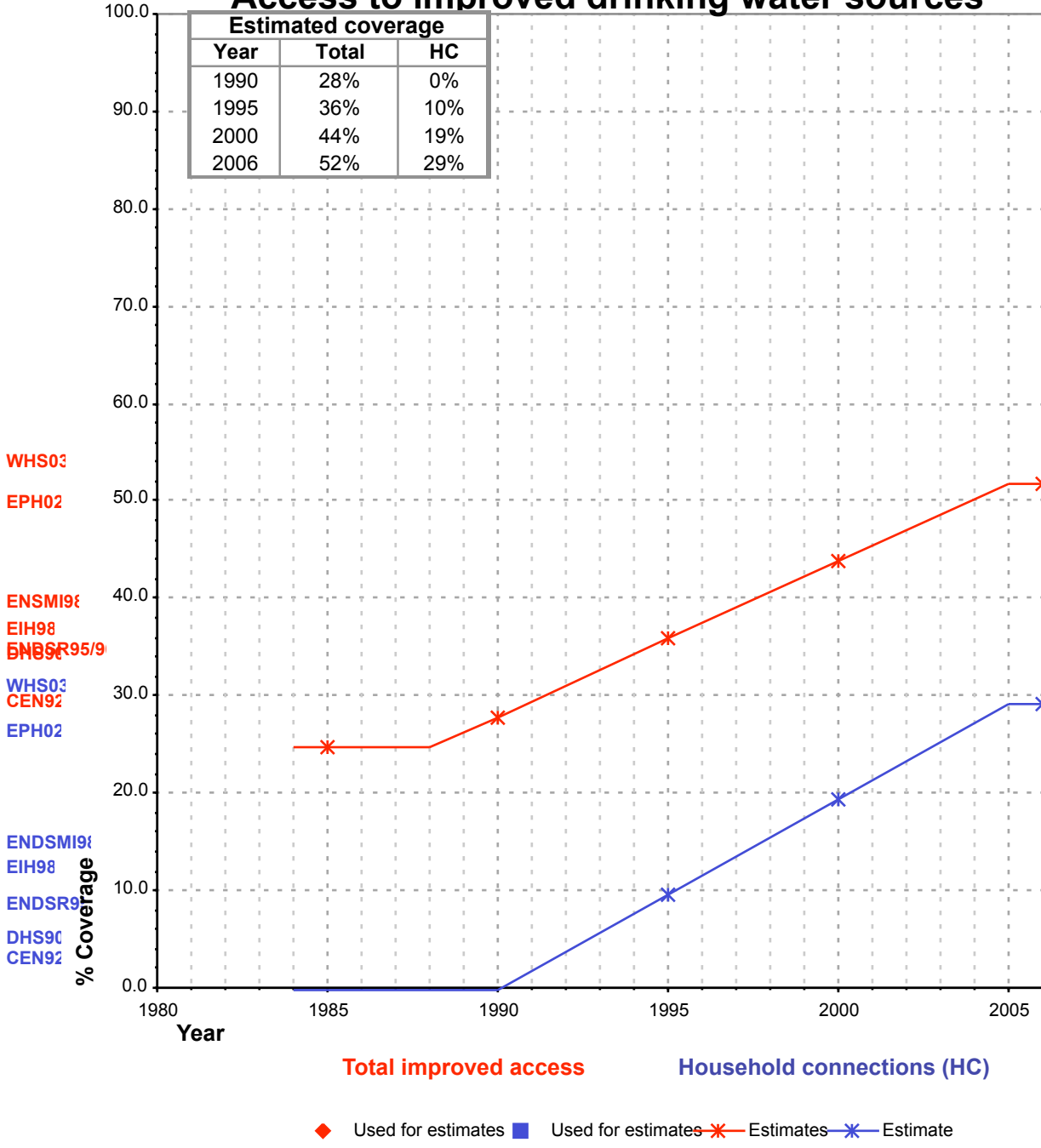
| Paraguay | DRINKING WATER | | | | | | | |
|--|--------------------|------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|------------------------|
| | URBAN | | | | RURAL | | | |
| | HC | | Total | | HC | | Total | |
| Source | Used for estimates | Not used for estimates | Used for estimates | Not used for estimates | Used for estimates | Not used for estimates | Used for estimates | Not used for estimates |
| The International Drinking Water Supply and Sanitation. Review of National Baseline Data (as at December 1980). WHO 1984. | | 39.0 | | 39.0 | | | | 10.0 |
| The International Drinking Water Supply and Sanitation. Review of National Progress (as at December 1983). WHO 1986. | | 45.0 | | 46.0 | | | | 1.0 |
| The International Drinking Water Supply and Sanitation Decade. Review of Mid-Decade Progress (as at December 1985). WHO 1987. | | 46.0 | | 48.0 | | | | 8.0 |
| The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1988). WHO 1990. | | 50.0 | | 65.0 | | | | 7.0 |
| The International Drinking Water Supply and Sanitation Decade. End of Decade Review (as at December 1990). WHO 1992. | | | | 61.0 | | | | 9.0 |
| Domestic and Household Survey, Paraguay, 1990. | 62.5 | | 78.7 | | 3.0 | | 31.8 | |
| Census 1992 | 57.2 | | 77.4 | | 2.9 | | 29.0 | |
| Global Water Supply and Sanitation Sector Monitoring Report 1993. Sector Status as of 31 December 1991. WHO/UNICEF 1993. | | | | 50.0 | | | | 50.0 |
| Encuesta Nacional de Demografía y Salud Reproductiva (ENDSR-95/96), page 13 | 73.5 | | 86.9 | | 10.6 | | 36.8 | |
| Desigualdades en el acceso, uso y gasto con el agua potable en América Latina y el Caribe, Paraguay, PAHO, Feb 2001, based on EIH 98 | 66.2 | | 85.1 | | 12.0 | | 37.9 | |
| Encuesta Nacional de Salud Materno Infantil: 1998 (ENSMI-98), November 1999, page 12. | 81.8 | | 91.2 | | 13.3 | | 38.4 | |
| Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO. | | 69.0 | | 70.0 | | 11.1 | | 13.0 |
| World Health Survey, WHO, 2003. | 80.4 | 80.4 | 91.1 | 91.1 | 28.5 | 28.5 | 52.1 | 52.1 |
| Encuesta Permanente de Hogares, 2002 | 76.9 | | 88.9 | | 23.9 | | 47.3 | |

Paraguay - urban - Access to improved drinking water sources



Total access :
Household connections :

Paraguay - rural - Access to improved drinking water sources



Total access :
Household connections :