

Tabla A.23 Tasas de cambio monetario (1/2)

(S./US\$)

| Anual/trimestral/mensual | Mercado Oficial | | Mercado de Inversión | | Mercado libre | | Nota | |
|--------------------------|-----------------|--------|----------------------|--------|---------------|--------|--------|---------------------|
| | Compra | Venta | Compra | Venta | Compra | Venta | | |
| 1980 | Promedio anual | 24.80 | 24.95 | 26.75 | 27.15 | 27.68 | 27.78 | |
| 1981 | Promedio anual | 24.80 | 24.95 | 27.58 | 27.88 | 30.59 | 30.76 | |
| 1982 | Promedio anual | 30.00 | 30.25 | 30.00 | 34.11 | 49.78 | 49.81 | |
| 1983 | Promedio anual | 44.20 | 45.01 | 82.37 | 83.22 | 83.01 | 83.47 | |
| 1984 | Promedio anual | 62.30 | 63.55 | 91.55 | 92.65 | 95.43 | 96.09 | |
| 1985 | Promedio anual | 70.38 | 71.75 | 95.00 | 96.50 | 115.52 | 116.29 | |
| 1985 | I Trimestre | 66.50 | 67.85 | 95.00 | 96.50 | 119.94 | 121.65 | Promedio trimestral |
| | II Trimestre | 66.50 | 67.85 | 95.00 | 96.50 | 113.90 | 114.69 | Promedio trimestral |
| | III Trimestre | 66.50 | 67.85 | 95.00 | 96.50 | 108.36 | 109.03 | Promedio trimestral |
| | IV Trimestre | 82.02 | 83.45 | 95.00 | 96.50 | 122.84 | 123.57 | Promedio trimestral |
| 1986 | Promedio anual | 95.00 | 96.50 | 122.05 | 123.42 | 150.85 | 151.40 | |
| 1986 | I Trimestre | 95.00 | - | 104.44 | 105.90 | 138.89 | 139.51 | Promedio trimestral |
| | II Trimestre | 95.00 | - | 108.50 | 110.00 | 162.98 | 163.78 | Promedio trimestral |
| | III Trimestre | 95.00 | - | 129.27 | 130.70 | 157.10 | 157.48 | Promedio trimestral |
| | IV Trimestre | 95.00 | - | 146.00 | 147.00 | 144.44 | 144.83 | Promedio trimestral |
| 1986 | Enero | 95.00 | 96.50 | 96.31 | 97.81 | 130.39 | 130.74 | Promedio mensual |
| | Febrero | 95.00 | - | 108.50 | 110.00 | 145.36 | 146.20 | Promedio mensual |
| | Marzo | 95.00 | - | 108.50 | 110.00 | 140.92 | 141.60 | Promedio mensual |
| | Abril | 95.00 | - | 108.50 | 110.00 | 156.60 | 157.23 | Promedio mensual |
| | Mayo | 95.00 | - | 108.50 | 110.00 | 162.56 | 163.69 | Promedio mensual |
| | Junio | 95.00 | - | 108.50 | 110.00 | 169.79 | 170.37 | Promedio mensual |
| | Julio | 95.00 | - | 108.50 | 110.00 | 164.44 | 164.94 | Promedio mensual |
| | Agosto | 95.00 | - | 129.52 | 131.40 | 161.42 | 161.50 | Promedio mensual |
| | Septiembre | 95.00 | - | 149.80 | 150.80 | 145.45 | 145.99 | Promedio mensual |
| | Octubre | 95.00 | - | 146.00 | 147.00 | 143.43 | 144.00 | Promedio mensual |
| | Noviembre | 95.00 | - | 146.00 | 147.00 | 144.52 | 144.74 | Promedio mensual |
| | Diciembre | 95.00 | - | 146.00 | 147.00 | 145.37 | 145.74 | Promedio mensual |
| 1987 | Promedio anual | 95.00 | - | 169.97 | 170.97 | 193.23 | 193.80 | |
| 1987 | Enero | 95.00 | - | 146.00 | 147.00 | 146.12 | 146.29 | Promedio mensual |
| | Febrero | 95.00 | - | 146.00 | 147.00 | 147.57 | 147.70 | Promedio mensual |
| | Marzo | 95.00 | - | 146.00 | 147.00 | n.d. | n.d. | n.d.:No disponible |
| | Abril | 95.00 | - | 149.67 | 150.67 | n.d. | n.d. | n.d.:No disponible |
| 1988 | Promedio anual | 194.45 | - | 294.34 | 308.88 | 435.03 | 436.19 | |
| 1988 | I Trimestre | 95.00 | - | 238.51 | 239.51 | 324.22 | 325.74 | Promedio trimestral |
| | II Trimestre | 95.00 | - | 249.00 | 250.00 | 426.76 | 426.09 | Promedio trimestral |
| | III Trimestre | 197.80 | - | 293.14 | 307.57 | 497.66 | 499.48 | Promedio trimestral |
| | IV Trimestre | 390.00 | - | 396.70 | 438.45 | 491.47 | 493.46 | Promedio trimestral |
| 1989 | Promedio anual | 390.00 | - | 510.91 | 542.09 | 567.24 | 568.18 | |
| 1989 | I Trimestre | 390.00 | - | 427.40 | 472.39 | 526.63 | 528.18 | Promedio trimestral |
| | II Trimestre | 390.00 | - | 479.31 | 515.11 | 524.85 | 525.32 | Promedio trimestral |
| | III Trimestre | 390.00 | - | 536.53 | 562.91 | 577.86 | 578.83 | Promedio trimestral |
| | IV Trimestre | 390.00 | - | 600.42 | 617.97 | 639.63 | 640.37 | Promedio trimestral |
| 1989 | Enero | 390.00 | - | 417.36 | 461.29 | 534.65 | 534.62 | Promedio mensual |
| | Febrero | 390.00 | - | 427.51 | 472.51 | 528.58 | 532.29 | Promedio mensual |
| | Marzo | 390.00 | - | 437.33 | 483.36 | 516.65 | 517.62 | Promedio mensual |
| | Abril | 390.00 | - | 447.69 | 494.82 | 504.81 | 505.72 | Promedio mensual |
| | Mayo | 390.00 | - | 480.41 | 515.20 | 529.07 | 529.76 | Promedio mensual |
| | Junio | 390.00 | - | 535.82 | 535.31 | 540.67 | 540.49 | Promedio mensual |
| | Julio | 390.00 | - | 522.86 | 549.00 | 571.02 | 571.78 | Promedio mensual |
| | Agosto | 390.00 | - | 536.14 | 562.95 | 578.00 | 578.95 | Promedio mensual |
| | Septiembre | 390.00 | - | 550.57 | 576.77 | 584.55 | 585.77 | Promedio mensual |
| | Octubre | 390.00 | - | 574.70 | 595.62 | 605.90 | 605.98 | Promedio mensual |
| | Noviembre | 390.00 | - | 601.70 | 617.90 | 655.81 | 657.33 | Promedio mensual |
| | Diciembre | 390.00 | - | 624.85 | 640.39 | 657.18 | 657.81 | Promedio mensual |

Fuente: Banco Central del Ecuador y Superintendencia de Bancos.

Tabla A.23 Tasas de cambio monetario (2/2)

(S./US\$)

| | Mercado oficial | | | | Mercado de inversión | | | | Mercado libre | | | | Nota | | |
|------|---------------------------|--------|--------|----------|----------------------|----------|----------|-------|---------------|-------|--------|-------|------|---------------------|-------|
| | Annual/Trimestral/Mensual | | Compra | | Venta | | Compra | | Venta | | Compra | | | Venta | |
| | Compra | Venta | Compra | Venta | Compra | Venta | Compra | Venta | Compra | Venta | Compra | Venta | | Compra | Venta |
| 1990 | Promedio anual | 390.00 | - | 660.30 | 775.51 | 821.14 | 821.91 | | | | | | | Promedio trimestral | |
| 1990 | I Trimestre | 390.00 | - | 669.72 | 683.12 | 704.35 | 704.87 | | | | | | | Promedio trimestral | |
| | II Trimestre | 390.00 | - | 727.56 | 742.11 | 817.47 | 818.49 | | | | | | | Promedio trimestral | |
| | III Trimestre | 390.00 | - | 797.86 | 813.81 | 892.63 | 893.40 | | | | | | | Promedio trimestral | |
| | IV Trimestre | 390.00 | - | 846.07 | 862.99 | 870.11 | 870.87 | | | | | | | Promedio trimestral | |
| 1990 | Enero | 390.00 | - | 650.73 | 663.74 | 687.92 | 688.45 | | | | | | | Promedio mensual | |
| | Febrero | 390.00 | - | 663.30 | 676.57 | 691.76 | 692.32 | | | | | | | Promedio mensual | |
| | Marzo | 390.00 | - | 695.14 | 709.04 | 733.37 | 733.83 | | | | | | | Promedio mensual | |
| | Abril | 390.00 | - | 712.17 | 726.41 | 782.41 | 782.74 | | | | | | | Promedio mensual | |
| | Mayo | 390.00 | - | 727.67 | 742.22 | 821.32 | 822.54 | | | | | | | Promedio mensual | |
| | Junio | 390.00 | - | 742.83 | 757.69 | 848.69 | 850.19 | | | | | | | Promedio mensual | |
| | Julio | 390.00 | - | 778.02 | 793.58 | 897.40 | 898.25 | | | | | | | Promedio mensual | |
| | Agosto | 390.00 | - | 800.30 | 816.30 | 901.92 | 902.35 | | | | | | | Promedio mensual | |
| | Septiembre | 390.00 | - | 815.25 | 831.56 | 878.57 | 879.61 | | | | | | | Promedio mensual | |
| | Octubre | 390.00 | - | 830.67 | 847.28 | 861.23 | 862.92 | | | | | | | Promedio mensual | |
| | Noviembre | 390.00 | - | 846.33 | 863.26 | 871.72 | 873.01 | | | | | | | Promedio mensual | |
| | Diciembre | 390.00 | - | 861.21 | 878.43 | 877.38 | 876.69 | | | | | | | Promedio mensual | |
| 1991 | I Trimestre | 390.00 | - | 930.78 | 949.40 | 975.50 | 976.52 | | | | | | | Promedio trimestral | |
| 1991 | II Trimestre | 390.00 | - | 989.54 | 1,009.34 | 1,083.23 | 1,094.89 | | | | | | | Promedio trimestral | |
| | Enero | 390.00 | - | 888.86 | 906.64 | 935.03 | 936.17 | | | | | | | Promedio mensual | |
| | Febrero | 390.00 | - | 944.94 | 963.84 | 977.37 | 978.40 | | | | | | | Promedio mensual | |
| | Marzo | 390.00 | - | 958.55 | 977.72 | 1,014.09 | 1,015.00 | | | | | | | Promedio mensual | |
| | Abril | 390.00 | - | 974.05 | 993.53 | 1,036.46 | 1,037.85 | | | | | | | Promedio mensual | |
| | Mayo | 390.00 | - | 989.83 | 1,009.63 | 1,102.05 | 1,119.11 | | | | | | | Promedio mensual | |
| | Junio | 390.00 | - | 1,004.75 | 1,024.85 | 1,111.17 | 1,127.72 | | | | | | | Promedio mensual | |
| | Julio | 390.00 | - | 1,034.61 | 1,055.31 | 1,109.96 | 1,127.70 | | | | | | | Promedio mensual | |
| | Agosto | 390.00 | - | 1,076.45 | 1,097.98 | 1,103.61 | 1,120.97 | | | | | | | Promedio mensual | |
| | Septiembre | 390.00 | - | 1,091.67 | 1,113.50 | 1,125.96 | 1,127.25 | | | | | | | Promedio mensual | |
| | Octubre | 390.00 | - | 1,107.16 | 1,129.30 | 1,161.46 | 1,162.30 | | | | | | | Promedio mensual | |
| | Noviembre | 390.00 | - | 1,154.48 | 1,177.57 | 1,194.79 | 1,196.68 | | | | | | | Promedio mensual | |
| | Diciembre | 390.00 | - | 1,250.13 | 1,275.13 | 1,275.13 | 1,293.10 | | | | | | | Promedio mensual | |
| 1992 | Enero | 390.00 | - | 1,265.95 | 1,291.27 | 1,323.74 | 1,343.68 | | | | | | | Promedio mensual | |
| | Febrero | 390.00 | - | 1,280.75 | 1,306.37 | 1,331.53 | 1,351.92 | | | | | | | Promedio mensual | |
| | Marzo | 390.00 | - | 1,296.15 | 1,322.07 | 1,330.91 | 1,350.70 | | | | | | | Promedio mensual | |
| | Abril | 390.00 | - | 1,322.60 | 1,349.05 | 1,369.15 | 1,390.62 | | | | | | | Promedio mensual | |
| | Mayo | 390.00 | - | 1,341.95 | 1,368.79 | 1,439.00 | 1,463.68 | | | | | | | Promedio mensual | |
| | Junio | 390.00 | - | 1,408.05 | 1,436.21 | 1,464.84 | 1,490.31 | | | | | | | Promedio mensual | |
| | Julio 30 | 390.00 | - | 1,430.00 | 1,458.60 | 1,550.00 | 1,555.00 | | | | | | | Promedio mensual | |

Fuente: Banco Central del Ecuador y Superintendencia de Bancos.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (1/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1981 | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 124.4 | 128.0 | 131.7 | 133.5 | 136.2 | 136.8 | 137.1 | 137.8 | 139.0 | 140.4 | 142.9 | 143.4 |
| Alimentos y bebidas | 128.7 | 131.0 | 132.6 | 135.0 | 138.3 | 138.8 | 138.7 | 139.0 | 141.3 | 142.2 | 147.1 | 146.6 |
| Cereales | 114.1 | 118.2 | 118.2 | 120.8 | 125.4 | 124.8 | 121.9 | 126.9 | 130.7 | 128.0 | 131.5 | 129.8 |
| Carne | 125.6 | 125.0 | 129.7 | 129.6 | 133.3 | 135.7 | 135.1 | 135.4 | 135.7 | 137.7 | 143.6 | 140.5 |
| Pescados y mariscos | 153.1 | 146.2 | 148.3 | 155.2 | 159.6 | 158.5 | 159.1 | 165.2 | 165.9 | 169.2 | 165.2 | 167.5 |
| Grasas y aceites comestibles | 118.0 | 121.2 | 121.2 | 124.6 | 128.1 | 126.8 | 126.1 | 125.8 | 124.6 | 123.8 | 125.0 | 124.3 |
| Productos lácteos | 153.4 | 153.2 | 154.7 | 156.8 | 157.8 | 160.1 | 163.5 | 164.0 | 164.0 | 164.5 | 164.8 | 165.6 |
| Verduras frescas | 143.0 | 141.6 | 141.9 | 149.8 | 157.4 | 163.6 | 159.1 | 143.1 | 147.6 | 138.5 | 135.0 | 128.4 |
| Tuberculos | 114.6 | 114.3 | 114.2 | 115.6 | 124.0 | 123.7 | 125.7 | 129.4 | 135.7 | 143.1 | 165.7 | 167.4 |
| Frijoles | 124.4 | 125.7 | 129.8 | 132.6 | 135.0 | 133.7 | 134.0 | 136.4 | 137.7 | 139.8 | 140.2 | 141.0 |
| Frutas frescas | 125.5 | 140.4 | 139.4 | 139.0 | 128.4 | 125.3 | 127.2 | 127.3 | 136.6 | 138.6 | 140.0 | 141.9 |
| Frutas y vegetales en conservas | 124.7 | 125.4 | 128.3 | 130.4 | 131.8 | 132.2 | 132.6 | 132.7 | 133.2 | 133.4 | 134.3 | 134.5 |
| Azúcar, sal y especias | 128.2 | 141.0 | 144.6 | 146.4 | 153.8 | 153.2 | 151.9 | 147.6 | 149.5 | 155.7 | 180.8 | 183.9 |
| Cafe, te y bebidas gaseosas | 110.0 | 110.6 | 111.8 | 112.9 | 113.4 | 114.2 | 114.4 | 114.7 | 114.7 | 114.7 | 115.5 | 115.5 |
| Alimentos para bebés | 104.2 | 104.4 | 104.9 | 105.0 | 106.4 | 106.5 | 106.9 | 107.4 | 107.8 | 107.8 | 108.1 | 108.2 |
| Otros productos alimenticios | 147.5 | 148.6 | 150.4 | 152.6 | 153.4 | 153.4 | 153.4 | 153.4 | 153.4 | 157.5 | 162.3 | 167.4 |
| Caramelos | 128.7 | 128.9 | 129.8 | 136.8 | 137.7 | 138.1 | 138.2 | 138.4 | 138.4 | 138.5 | 138.6 | 139.2 |
| Bebidas alcohólicas | 123.5 | 123.8 | 125.6 | 126.4 | 127.2 | 127.8 | 129.7 | 130.5 | 130.9 | 134.6 | 137.4 | 139.1 |
| Alimentos preparados | 139.4 | 145.8 | 152.1 | 163.3 | 162.8 | 170.6 | 174.0 | 173.4 | 177.5 | 176.0 | 195.1 | 191.0 |
| Alimentos de la calle | 125.4 | 126.7 | 128.6 | 133.1 | 133.6 | 134.6 | 134.8 | 135.4 | 137.4 | 137.4 | 137.8 | 137.8 |
| Vivienda | 120.0 | 125.6 | 127.8 | 129.9 | 130.9 | 131.9 | 132.7 | 133.9 | 134.5 | 135.5 | 136.8 | 138.7 |
| Alquiler | 119.9 | 119.6 | 123.4 | 125.8 | 126.8 | 127.7 | 129.1 | 130.5 | 131.0 | 131.7 | 133.1 | 134.9 |
| Iluminación y energía | 113.6 | 143.7 | 150.9 | 153.7 | 152.2 | 154.3 | 153.2 | 154.1 | 156.2 | 155.4 | 154.8 | 156.0 |
| Mantenimiento | 125.9 | 126.8 | 127.7 | 128.1 | 132.4 | 132.4 | 132.7 | 132.9 | 133.1 | 138.3 | 142.2 | 145.6 |
| Prendas de vestir | 121.7 | 122.9 | 126.7 | 128.7 | 130.8 | 131.1 | 131.2 | 131.8 | 132.7 | 133.6 | 135.0 | 135.3 |
| Mobiliarios de cocina | 124.1 | 127.2 | 134.2 | 137.1 | 130.1 | 139.5 | 139.6 | 141.2 | 141.3 | 142.8 | 143.1 | 144.9 |
| Muebles | 123.5 | 123.7 | 128.2 | 129.5 | 130.4 | 130.9 | 131.0 | 131.4 | 131.5 | 132.0 | 132.3 | 133.2 |
| Otros equipos del hogar | 129.5 | 133.2 | 137.0 | 138.2 | 140.0 | 140.2 | 140.6 | 141.7 | 143.4 | 143.5 | 144.6 | 145.3 |
| Otros artículos del hogar | 117.3 | 118.3 | 122.3 | 122.3 | 123.0 | 123.5 | 125.0 | 125.3 | 125.3 | 126.1 | 126.3 | 127.2 |
| Indumentario | 128.3 | 129.0 | 132.5 | 134.2 | 137.1 | 138.2 | 139.4 | 140.3 | 141.3 | 142.0 | 142.9 | 143.7 |
| Telas y accesorios | 130.3 | 132.0 | 133.0 | 134.9 | 136.9 | 137.2 | 137.6 | 138.6 | 139.1 | 140.0 | 141.9 | 142.7 |
| Prenda de vestir masculina | 125.1 | 125.6 | 129.7 | 131.0 | 134.3 | 135.4 | 136.2 | 137.1 | 138.0 | 138.4 | 139.5 | 140.3 |
| Prenda de vestir femenina | 130.3 | 131.1 | 133.8 | 135.6 | 138.1 | 139.7 | 142.1 | 143.2 | 144.2 | 145.2 | 146.0 | 146.5 |
| Ropa de niños | 134.7 | 135.6 | 139.5 | 141.0 | 143.8 | 144.0 | 144.4 | 145.0 | 147.5 | 149.0 | 150.0 | 151.1 |
| Servicios de limpieza | 137.0 | 138.3 | 146.1 | 151.9 | 153.4 | 153.9 | 153.9 | 153.9 | 154.7 | 154.8 | 155.5 | 156.0 |
| Misceláneos | 120.2 | 125.0 | 133.8 | 134.2 | 138.0 | 138.4 | 138.5 | 138.8 | 139.0 | 142.1 | 142.9 | 143.5 |
| Medicinas | 112.6 | 113.6 | 117.6 | 118.1 | 118.8 | 118.9 | 119.1 | 119.1 | 119.7 | 121.3 | 121.9 | 123.0 |
| Cosméticos | 122.6 | 123.0 | 127.0 | 127.7 | 128.5 | 129.2 | 129.2 | 129.8 | 130.2 | 130.6 | 130.7 | 132.4 |
| Recreación & material de lectura | 132.7 | 133.3 | 138.5 | 139.1 | 140.3 | 141.3 | 141.3 | 142.1 | 142.1 | 143.5 | 147.2 | 147.7 |
| Tabaco | 113.7 | 114.2 | 114.2 | 115.1 | 115.4 | 115.9 | 115.9 | 116.2 | 116.7 | 150.0 | 150.1 | 150.2 |
| Educación | 128.5 | 128.5 | 129.2 | 129.2 | 143.5 | 143.6 | 143.6 | 143.6 | 143.6 | 150.0 | 150.0 | 150.0 |
| Transporte | 114.4 | 114.4 | 165.6 | 165.6 | 165.8 | 165.8 | 165.8 | 165.8 | 165.8 | 165.8 | 165.8 | 165.8 |
| Comunicación | 104.6 | 104.6 | 106.7 | 107.5 | 107.9 | 107.9 | 107.9 | 107.9 | 107.9 | 108.2 | 108.2 | 108.2 |
| Vehículos | 111.6 | 167.6 | 175.5 | 176.4 | 177.7 | 177.8 | 178.4 | 178.5 | 178.7 | 179.1 | 179.5 | 179.9 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (2/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1982 | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 145.1 | 146.3 | 148.1 | 150.2 | 151.7 | 153.9 | 156.9 | 159.8 | 162.2 | 169.3 | 174.9 | 178.4 |
| Alimentos y bebidas | 149.3 | 151.0 | 152.7 | 154.8 | 156.8 | 156.8 | 160.2 | 162.7 | 164.8 | 171.3 | 178.7 | 185.2 |
| Cereales | 131.6 | 134.0 | 135.2 | 139.0 | 143.0 | 141.1 | 142.0 | 143.3 | 144.3 | 147.6 | 168.4 | 178.2 |
| Carne | 146.2 | 147.8 | 151.6 | 156.5 | 157.8 | 160.4 | 160.3 | 163.7 | 164.7 | 176.0 | 179.6 | 187.9 |
| Pescados y mariscos | 165.9 | 156.0 | 166.5 | 170.1 | 173.6 | 176.8 | 180.0 | 184.8 | 187.3 | 191.9 | 196.0 | 195.7 |
| Grasas y aceites comestibles | 123.7 | 124.2 | 123.7 | 125.9 | 127.1 | 126.3 | 126.9 | 141.1 | 144.1 | 145.7 | 147.8 | 149.1 |
| Productos lácteos | 167.6 | 168.1 | 169.0 | 169.7 | 171.4 | 171.4 | 172.6 | 174.4 | 177.8 | 179.1 | 184.4 | 186.0 |
| Verduras frescas | 136.3 | 147.1 | 154.3 | 164.2 | 164.7 | 160.4 | 150.8 | 148.4 | 155.3 | 167.4 | 175.4 | 205.7 |
| Tuberculos | 161.7 | 155.0 | 144.8 | 141.1 | 137.4 | 138.2 | 145.4 | 147.0 | 154.0 | 170.1 | 175.3 | 166.2 |
| Frijoles | 145.0 | 147.6 | 148.7 | 151.4 | 153.6 | 152.2 | 156.9 | 158.5 | 160.7 | 163.2 | 164.4 | 165.6 |
| Frutas frescas | 153.0 | 158.1 | 156.2 | 143.8 | 147.1 | 144.4 | 153.6 | 159.4 | 163.1 | 180.4 | 185.4 | 186.1 |
| Frutas y vegetales en conservas | 134.6 | 135.1 | 135.3 | 138.3 | 139.3 | 140.7 | 141.1 | 143.7 | 145.0 | 146.4 | 147.9 | 150.8 |
| Azúcar, sal y especias | 181.4 | 182.0 | 193.6 | 195.5 | 198.3 | 193.0 | 199.9 | 198.3 | 194.9 | 200.7 | 204.3 | 216.6 |
| Cafe, te y bebidas gaseosas | 117.9 | 120.7 | 120.5 | 120.7 | 121.7 | 122.7 | 122.7 | 123.5 | 124.9 | 125.0 | 126.2 | 131.3 |
| Alimentos para bebés | 108.5 | 108.9 | 109.6 | 112.8 | 112.9 | 123.5 | 127.0 | 129.4 | 129.7 | 130.9 | 133.2 | 137.0 |
| Otros productos alimenticios | 171.4 | 174.3 | 177.0 | 177.5 | 178.0 | 179.4 | 180.6 | 182.8 | 183.1 | 194.2 | 205.7 | 208.8 |
| Caramelos | 139.4 | 142.4 | 145.2 | 148.2 | 148.8 | 150.4 | 152.5 | 153.9 | 154.7 | 158.2 | 164.2 | 165.1 |
| Bebidas alcohólicas | 140.6 | 142.2 | 142.7 | 144.8 | 147.7 | 153.0 | 163.0 | 168.4 | 173.6 | 175.1 | 179.1 | 181.2 |
| Alimentos preparados | 191.6 | 188.2 | 192.0 | 197.8 | 214.1 | 210.5 | 216.8 | 227.6 | 225.4 | 251.2 | 254.7 | 259.3 |
| Alimentos de la calle | 142.3 | 144.4 | 146.9 | 147.8 | 151.3 | 153.4 | 170.8 | 171.3 | 172.9 | 177.3 | 182.5 | 186.6 |
| Vivienda | 140.2 | 141.6 | 143.7 | 145.3 | 146.8 | 149.9 | 152.0 | 154.9 | 156.6 | 161.5 | 162.0 | 163.4 |
| Alquiler | 136.6 | 137.3 | 138.3 | 139.8 | 141.5 | 142.5 | 144.1 | 145.2 | 146.7 | 148.4 | 149.9 | 150.8 |
| Iluminación y energía | 157.0 | 161.7 | 173.1 | 174.4 | 175.5 | 175.8 | 178.5 | 188.8 | 190.1 | 215.8 | 206.4 | 210.2 |
| Mantenimiento | 149.2 | 150.5 | 152.1 | 155.5 | 156.3 | 166.3 | 168.6 | 174.5 | 177.2 | 179.6 | 182.1 | 183.1 |
| Prendas de vestir | 135.6 | 135.8 | 136.0 | 137.6 | 138.3 | 145.2 | 148.6 | 152.2 | 154.7 | 159.3 | 160.8 | 165.7 |
| Mobiliarios de cocina | 146.5 | 147.8 | 148.8 | 150.7 | 151.7 | 170.8 | 175.6 | 178.9 | 180.7 | 182.9 | 186.1 | 188.8 |
| Muebles | 133.3 | 133.4 | 133.9 | 135.1 | 135.3 | 141.1 | 143.5 | 144.4 | 145.5 | 149.5 | 151.9 | 153.7 |
| Otros equipos del hogar | 145.5 | 147.3 | 147.9 | 149.1 | 153.4 | 154.9 | 158.5 | 163.7 | 165.1 | 172.6 | 175.9 | 182.2 |
| Otros artículos del hogar | 128.0 | 128.3 | 133.0 | 135.8 | 136.4 | 148.1 | 153.3 | 155.7 | 157.9 | 161.6 | 167.9 | 170.3 |
| Indumentario | 144.9 | 145.8 | 147.7 | 148.9 | 150.5 | 156.2 | 161.2 | 164.6 | 167.1 | 170.8 | 175.3 | 177.6 |
| Telas y accesorios | 143.4 | 145.0 | 146.5 | 147.8 | 151.9 | 163.5 | 169.0 | 171.5 | 173.9 | 179.7 | 184.9 | 190.4 |
| Prenda de vestir masculina | 142.1 | 143.0 | 145.2 | 146.3 | 147.9 | 153.3 | 158.8 | 162.7 | 165.5 | 168.2 | 174.0 | 176.2 |
| Prenda de vestir femenina | 147.0 | 147.8 | 149.5 | 150.7 | 151.9 | 156.5 | 161.4 | 164.0 | 165.7 | 170.4 | 172.8 | 174.6 |
| Ropa de niños | 152.4 | 154.0 | 154.9 | 157.0 | 158.4 | 165.0 | 168.9 | 173.8 | 176.5 | 181.7 | 184.8 | 187.8 |
| Servicios de limpieza | 156.7 | 157.5 | 158.0 | 158.1 | 159.6 | 167.1 | 170.6 | 177.2 | 181.4 | 184.1 | 189.4 | 193.6 |
| Misceláneos | 144.1 | 144.6 | 146.0 | 149.3 | 150.2 | 153.9 | 156.3 | 158.8 | 162.2 | 174.5 | 182.7 | 184.4 |
| Medicinas | 124.4 | 125.2 | 126.3 | 127.3 | 128.1 | 131.0 | 136.9 | 141.8 | 145.6 | 150.9 | 152.7 | 153.7 |
| Cosméticos | 133.2 | 135.3 | 136.8 | 142.1 | 143.3 | 151.7 | 156.8 | 165.3 | 170.0 | 174.7 | 176.7 | 178.4 |
| Recreación & material de lectura | 148.1 | 148.8 | 155.6 | 157.0 | 157.3 | 164.5 | 165.3 | 167.6 | 171.5 | 183.2 | 184.4 | 187.2 |
| Tabaco | 150.7 | 150.8 | 151.7 | 151.1 | 152.8 | 153.9 | 154.5 | 155.7 | 156.0 | 156.0 | 158.2 | 170.5 |
| Educación | 150.0 | 150.0 | 150.0 | 158.4 | 160.0 | 161.9 | 161.9 | 161.9 | 169.0 | 171.5 | 172.9 | 173.7 |
| Transporte | 165.8 | 165.8 | 165.8 | 166.0 | 166.0 | 166.7 | 167.1 | 167.1 | 167.1 | 176.7 | 245.3 | 246.0 |
| Comunicación | 108.2 | 108.2 | 108.2 | 111.2 | 111.2 | 111.6 | 111.6 | 111.6 | 111.7 | 111.7 | 111.7 | 112.1 |
| Vehículos | 180.3 | 180.5 | 180.5 | 180.9 | 181.6 | 182.9 | 184.4 | 185.0 | 185.0 | 284.3 | 270.8 | 270.9 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (3/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1983 | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 186.1 | 190.6 | 196.4 | 205.9 | 220.3 | 283.0 | 245.5 | 255.2 | 265.1 | 272.7 | 272.1 | 272.0 |
| Alimentos y bebidas | 200.9 | 210.1 | 221.1 | 238.8 | 260.4 | 285.8 | 311.0 | 329.7 | 346.3 | 359.7 | 350.5 | 344.6 |
| Cereales | 206.1 | 226.3 | 229.9 | 244.3 | 268.9 | 297.4 | 314.9 | 336.3 | 394.5 | 423.1 | 395.8 | 388.6 |
| Carne | 200.9 | 204.5 | 215.7 | 229.4 | 241.5 | 247.6 | 263.0 | 267.8 | 277.2 | 282.4 | 291.0 | 299.4 |
| Pescados y mariscos | 208.6 | 214.0 | 216.7 | 231.4 | 233.8 | 243.7 | 251.7 | 256.3 | 268.0 | 284.4 | 283.8 | 289.1 |
| Grasas y aceites comestibles | 150.2 | 151.4 | 157.3 | 160.0 | 191.3 | 202.1 | 204.1 | 206.1 | 207.1 | 221.8 | 254.6 | 270.8 |
| Productos lácteos | 190.5 | 195.7 | 233.1 | 262.7 | 271.8 | 283.4 | 288.9 | 293.8 | 301.4 | 312.2 | 321.5 | 323.1 |
| Verduras frescas | 264.4 | 316.3 | 340.4 | 385.2 | 460.1 | 533.2 | 594.8 | 550.1 | 444.8 | 395.7 | 367.4 | 309.6 |
| Tuberculos | 171.4 | 165.6 | 160.6 | 214.4 | 287.1 | 356.7 | 409.8 | 433.7 | 437.9 | 419.4 | 356.4 | 277.4 |
| Frijoles | 169.6 | 174.6 | 181.3 | 185.3 | 199.3 | 215.9 | 240.6 | 269.1 | 305.9 | 326.2 | 347.1 | 385.9 |
| Frutas frescas | 190.9 | 205.7 | 206.6 | 213.6 | 232.4 | 288.1 | 309.5 | 369.7 | 408.1 | 526.7 | 513.9 | 502.2 |
| Frutas y vegetales en conservas | 152.3 | 153.2 | 155.3 | 160.0 | 164.0 | 176.4 | 180.6 | 185.3 | 191.3 | 195.1 | 204.4 | 212.7 |
| Azúcar, sal y especias | 254.8 | 266.9 | 281.7 | 289.9 | 310.3 | 353.5 | 458.3 | 560.2 | 609.0 | 614.6 | 555.3 | 536.9 |
| Cafe, te y bebidas gaseosas | 132.4 | 132.9 | 133.9 | 134.8 | 143.0 | 158.4 | 167.5 | 187.2 | 193.0 | 206.2 | 209.7 | 213.0 |
| Alimentos para bebés | 141.4 | 145.0 | 146.8 | 152.2 | 157.0 | 157.2 | 158.7 | 164.1 | 165.9 | 168.5 | 174.4 | 177.6 |
| Otros productos alimenticios | 212.5 | 215.0 | 216.2 | 238.0 | 257.3 | 281.4 | 290.8 | 300.4 | 303.5 | 307.6 | 308.7 | 316.1 |
| Caramelos | 166.6 | 167.5 | 168.1 | 172.8 | 180.0 | 195.5 | 207.9 | 227.3 | 234.8 | 273.6 | 288.1 | 302.7 |
| Bebidas alcohólicas | 185.4 | 191.1 | 194.0 | 210.0 | 218.1 | 227.3 | 236.4 | 258.4 | 265.8 | 279.3 | 279.7 | 285.8 |
| Alimentos preparados | 260.8 | 272.4 | 285.1 | 304.3 | 342.0 | 341.8 | 383.9 | 381.5 | 415.8 | 424.8 | 480.9 | 502.2 |
| Alimentos de la calle | 188.1 | 191.4 | 195.1 | 207.1 | 213.8 | 220.1 | 223.2 | 237.8 | 248.6 | 256.1 | 263.5 | 267.0 |
| Vivienda | 165.4 | 166.8 | 169.1 | 172.3 | 176.2 | 179.5 | 184.1 | 186.7 | 189.7 | 192.9 | 198.4 | 202.1 |
| Alquiler | 152.4 | 153.7 | 154.8 | 156.5 | 157.4 | 159.4 | 162.7 | 164.2 | 165.2 | 166.2 | 171.8 | 175.4 |
| Iluminación y energía | 215.1 | 216.7 | 225.0 | 225.2 | 225.3 | 227.3 | 237.1 | 239.1 | 247.6 | 261.4 | 262.8 | 268.2 |
| Mantenimiento | 183.7 | 185.9 | 186.3 | 191.6 | 211.2 | 217.1 | 222.6 | 226.9 | 232.6 | 234.9 | 237.0 | 238.2 |
| Prendas de vestir | 166.9 | 168.4 | 173.1 | 177.3 | 181.7 | 187.1 | 193.1 | 198.1 | 203.3 | 207.8 | 216.4 | 217.4 |
| Mobiliarios de cocina | 192.4 | 193.4 | 198.5 | 223.1 | 239.8 | 253.1 | 259.9 | 268.1 | 272.1 | 277.2 | 290.4 | 294.1 |
| Muebles | 155.2 | 156.4 | 159.4 | 162.0 | 171.2 | 173.0 | 180.3 | 183.2 | 186.5 | 190.5 | 193.1 | 197.3 |
| Otros equipos del hogar | 184.0 | 184.6 | 188.3 | 193.6 | 200.9 | 208.5 | 216.4 | 232.7 | 244.1 | 247.3 | 264.4 | 268.0 |
| Otros artículos del hogar | 175.1 | 179.3 | 181.8 | 193.3 | 216.0 | 219.9 | 227.3 | 236.1 | 240.1 | 245.3 | 250.5 | 251.3 |
| Indumentario | 181.3 | 183.7 | 187.2 | 191.6 | 198.7 | 203.2 | 209.1 | 215.0 | 220.6 | 226.8 | 232.9 | 237.0 |
| Telas y accesorios | 193.0 | 195.8 | 198.3 | 206.9 | 215.1 | 218.8 | 232.0 | 239.4 | 244.7 | 253.9 | 258.8 | 261.9 |
| Prenda de vestir masculina | 179.5 | 182.1 | 185.7 | 190.4 | 196.7 | 199.9 | 204.7 | 209.6 | 215.1 | 219.9 | 227.3 | 232.0 |
| Prenda de vestir femenina | 179.4 | 181.5 | 185.1 | 188.0 | 196.0 | 201.1 | 205.0 | 213.0 | 218.5 | 225.6 | 230.3 | 233.4 |
| Ropa de niños | 191.4 | 192.6 | 195.6 | 203.5 | 209.1 | 218.6 | 227.6 | 234.8 | 241.1 | 248.7 | 254.8 | 258.5 |
| Servicios de limpieza | 197.4 | 201.5 | 204.4 | 207.6 | 214.8 | 228.5 | 233.1 | 239.8 | 245.7 | 256.6 | 260.0 | 265.3 |
| Misceláneos | 186.8 | 187.4 | 189.7 | 194.3 | 211.7 | 217.3 | 220.1 | 224.8 | 232.2 | 235.8 | 239.2 | 242.7 |
| Medicinas | 154.4 | 156.0 | 156.6 | 158.0 | 164.3 | 175.6 | 180.5 | 187.3 | 191.1 | 192.9 | 202.2 | 209.2 |
| Cosméticos | 181.3 | 182.3 | 183.8 | 189.0 | 201.5 | 209.1 | 219.2 | 236.8 | 246.3 | 256.9 | 263.3 | 271.4 |
| Recreación & material de lectura | 187.8 | 188.0 | 199.8 | 211.3 | 228.1 | 231.4 | 233.6 | 235.7 | 237.5 | 239.6 | 242.3 | 244.4 |
| Tabaco | 219.2 | 220.3 | 221.2 | 227.3 | 310.1 | 346.7 | 347.2 | 348.4 | 349.6 | 353.4 | 353.7 | 354.0 |
| Educación | 174.1 | 174.1 | 174.1 | 174.1 | 206.5 | 207.8 | 208.2 | 208.2 | 233.7 | 237.8 | 238.9 | 239.4 |
| Transporte | 246.0 | 246.4 | 246.5 | 246.8 | 248.7 | 248.7 | 249.1 | 249.1 | 249.2 | 249.2 | 249.4 | 249.4 |
| Comunicación | 112.1 | 112.1 | 112.1 | 112.4 | 112.4 | 112.4 | 112.4 | 112.4 | 112.4 | 112.4 | 112.4 | 112.4 |
| Vehículos | 271.3 | 271.7 | 272.8 | 284.0 | 289.4 | 291.8 | 292.4 | 294.6 | 294.6 | 295.9 | 296.2 | 314.6 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (4/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1984 | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 278.6 | 283.6 | 290.6 | 298.0 | 301.7 | 303.7 | 307.3 | 313.0 | 317.9 | 324.9 | 334.5 | 340.2 |
| Alimentos y bebidas | 354.1 | 363.0 | 377.4 | 385.8 | 390.1 | 389.6 | 394.6 | 400.5 | 403.7 | 412.5 | 428.3 | 438.1 |
| Cereales | 397.6 | 415.9 | 434.8 | 443.2 | 451.4 | 441.4 | 439.1 | 448.4 | 451.9 | 470.9 | 502.9 | 511.4 |
| Carne | 312.9 | 324.9 | 337.0 | 347.3 | 357.2 | 365.1 | 374.0 | 379.7 | 385.6 | 399.4 | 416.2 | 434.3 |
| Pescados y mariscos | 299.2 | 298.7 | 307.2 | 317.4 | 329.1 | 335.6 | 344.3 | 357.1 | 369.1 | 383.9 | 391.2 | 410.0 |
| Grasas y aceites comestibles | 280.0 | 284.5 | 308.7 | 336.5 | 338.8 | 344.9 | 364.5 | 379.8 | 402.4 | 409.8 | 418.5 | 423.2 |
| Productos lácteos | 334.9 | 350.8 | 355.4 | 364.9 | 374.1 | 379.5 | 380.8 | 387.0 | 390.5 | 394.6 | 403.9 | 410.1 |
| Verduras frescas | 330.0 | 372.8 | 434.8 | 465.3 | 427.5 | 456.3 | 458.1 | 415.1 | 366.0 | 357.9 | 368.8 | 393.3 |
| Tubérculos | 259.8 | 266.9 | 272.9 | 276.8 | 293.0 | 294.9 | 294.2 | 295.4 | 286.0 | 281.7 | 282.9 | 291.3 |
| Frijoles | 409.4 | 444.6 | 507.1 | 521.6 | 520.1 | 491.9 | 487.3 | 486.4 | 484.7 | 503.3 | 526.8 | 536.1 |
| Frutas frescas | 478.7 | 435.0 | 408.2 | 396.0 | 395.2 | 374.6 | 389.7 | 392.6 | 390.6 | 386.9 | 417.9 | 411.0 |
| Frutas y vegetales en conservas | 216.6 | 219.6 | 221.4 | 223.4 | 226.5 | 227.7 | 232.8 | 233.9 | 236.8 | 237.8 | 240.4 | 242.6 |
| Azúcar, sal y especias | 558.9 | 557.7 | 587.1 | 578.6 | 568.1 | 547.0 | 557.6 | 580.6 | 601.3 | 617.5 | 638.5 | 635.3 |
| Cafe, te y bebidas gaseosas | 227.5 | 233.3 | 241.1 | 253.2 | 264.1 | 267.0 | 271.3 | 273.4 | 275.9 | 279.7 | 285.2 | 294.1 |
| Alimentos para bebés | 180.5 | 189.9 | 194.7 | 200.5 | 204.9 | 209.6 | 211.0 | 211.7 | 230.8 | 232.4 | 243.2 | 244.3 |
| Otros productos alimenticios | 329.2 | 339.8 | 350.7 | 357.1 | 362.9 | 369.1 | 370.5 | 370.6 | 373.9 | 393.0 | 415.4 | 422.1 |
| Caramelos | 310.3 | 320.0 | 320.9 | 323.3 | 326.1 | 327.6 | 329.8 | 331.3 | 332.5 | 335.4 | 339.6 | 342.2 |
| Bebidas alcohólicas | 303.9 | 309.2 | 313.8 | 318.4 | 323.0 | 325.7 | 326.0 | 347.5 | 351.7 | 352.8 | 354.4 | 354.9 |
| Alimentos preparados | 492.1 | 536.3 | 540.4 | 572.9 | 594.0 | 605.2 | 627.1 | 627.1 | 648.6 | 650.7 | 713.6 | 715.1 |
| Alimentos de la calle | 280.0 | 281.1 | 283.0 | 287.4 | 292.1 | 295.7 | 297.8 | 307.5 | 317.2 | 318.1 | 320.5 | 329.0 |
| Vivienda | 206.9 | 209.9 | 213.6 | 218.8 | 220.5 | 222.8 | 224.8 | 226.8 | 229.0 | 231.4 | 236.6 | 239.6 |
| Alquiler | 177.6 | 179.5 | 183.1 | 185.6 | 186.6 | 188.2 | 189.7 | 191.3 | 192.9 | 194.1 | 196.5 | 197.3 |
| Iluminación y energía | 287.4 | 292.1 | 294.5 | 312.7 | 315.5 | 318.4 | 320.0 | 322.2 | 324.1 | 325.9 | 327.9 | 329.8 |
| Mantenimiento | 243.1 | 249.6 | 255.8 | 262.5 | 265.9 | 270.7 | 276.2 | 278.2 | 281.6 | 289.8 | 318.2 | 334.0 |
| Prendas de vestir | 221.2 | 224.2 | 227.0 | 230.9 | 236.1 | 239.8 | 241.7 | 245.1 | 250.7 | 259.6 | 269.5 | 275.4 |
| Mobiliarios de cocina | 300.9 | 304.9 | 309.5 | 316.0 | 319.2 | 322.6 | 325.5 | 327.8 | 333.1 | 336.9 | 344.4 | 348.5 |
| Muebles | 200.7 | 205.0 | 209.3 | 214.0 | 216.2 | 219.0 | 221.5 | 224.7 | 227.0 | 229.5 | 234.1 | 236.8 |
| Otros equipos del hogar | 271.3 | 274.5 | 281.8 | 288.6 | 290.8 | 295.8 | 300.2 | 303.2 | 306.3 | 310.1 | 312.5 | 323.5 |
| Otros artículos del hogar | 253.2 | 255.6 | 257.5 | 260.1 | 266.2 | 267.9 | 268.6 | 269.7 | 271.6 | 273.4 | 280.8 | 288.4 |
| Indumentario | 243.4 | 245.4 | 247.7 | 252.2 | 259.5 | 266.7 | 269.1 | 274.1 | 278.2 | 283.3 | 290.6 | 296.0 |
| Telas y accesorios | 267.1 | 268.3 | 275.0 | 278.9 | 290.1 | 295.7 | 299.9 | 304.8 | 311.0 | 320.8 | 333.2 | 342.4 |
| Prenda de vestir masculina | 236.6 | 237.9 | 239.3 | 243.3 | 252.3 | 258.1 | 259.9 | 264.6 | 268.7 | 273.1 | 281.5 | 285.2 |
| Prenda de vestir femenina | 240.8 | 243.8 | 245.5 | 251.1 | 155.2 | 266.2 | 269.2 | 273.8 | 277.0 | 282.0 | 286.7 | 292.4 |
| Ropa de niños | 263.8 | 268.1 | 271.5 | 276.4 | 280.3 | 284.3 | 290.0 | 294.7 | 304.1 | 307.8 | 313.4 | 324.9 |
| Servicios de limpieza | 283.2 | 286.2 | 290.3 | 293.8 | 295.7 | 296.7 | 297.2 | 306.8 | 310.0 | 315.7 | 321.6 | 329.0 |
| Misceláneos | 246.5 | 248.5 | 249.5 | 258.9 | 262.2 | 266.4 | 269.9 | 279.3 | 288.7 | 298.1 | 303.0 | 305.3 |
| Medicinas | 218.0 | 220.5 | 221.4 | 229.7 | 237.3 | 240.3 | 249.2 | 252.0 | 255.3 | 258.0 | 259.7 | 261.0 |
| Cosméticos | 278.5 | 283.8 | 286.4 | 291.7 | 294.7 | 299.9 | 303.2 | 306.5 | 311.0 | 313.2 | 323.6 | 327.5 |
| Recreación & material de lectura | 245.6 | 247.4 | 248.7 | 249.8 | 258.7 | 271.5 | 274.4 | 275.1 | 281.7 | 324.9 | 329.4 | 338.2 |
| Tabaco | 378.8 | 382.3 | 383.2 | 383.2 | 384.6 | 386.3 | 386.3 | 386.5 | 386.5 | 389.6 | 389.7 | 390.0 |
| Educación | 239.4 | 239.4 | 239.4 | 264.0 | 264.5 | 266.3 | 266.3 | 266.3 | 295.7 | 301.9 | 309.5 | 309.5 |
| Transporte | 249.6 | 250.2 | 250.2 | 250.2 | 250.2 | 250.2 | 255.9 | 317.9 | 325.0 | 325.9 | 326.3 | 326.3 |
| Comunicación | 112.5 | 112.5 | 112.5 | 153.0 | 154.3 | 154.3 | 155.5 | 169.9 | 170.8 | 170.9 | 172.8 | 173.6 |
| Vehículos | 314.9 | 319.3 | 320.2 | 320.3 | 321.8 | 325.3 | 328.7 | 334.2 | 335.6 | 336.6 | 339.2 | 339.2 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (5/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1985 | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 362.0 | 366.2 | 372.9 | 383.9 | 388.5 | 396.1 | 402.3 | 403.1 | 406.6 | 408.9 | 414.1 | 423.1 |
| Alimentos y bebidas | 471.8 | 477.0 | 487.8 | 503.1 | 508.4 | 520.0 | 531.7 | 530.7 | 532.5 | 533.0 | 539.3 | 556.4 |
| Cereales | 537.0 | 547.6 | 567.2 | 592.4 | 606.8 | 612.2 | 622.5 | 633.8 | 638.6 | 634.8 | 642.0 | 668.3 |
| Carne | 471.0 | 486.1 | 493.1 | 501.2 | 507.5 | 520.5 | 528.0 | 540.4 | 547.8 | 552.7 | 556.7 | 564.2 |
| Pescados y mariscos | 436.8 | 442.0 | 449.3 | 453.2 | 451.4 | 457.7 | 468.2 | 487.5 | 503.6 | 508.9 | 516.4 | 521.4 |
| Grasas y aceites comestibles | 456.3 | 461.5 | 465.1 | 473.2 | 477.5 | 477.9 | 481.1 | 476.8 | 476.5 | 476.9 | 476.2 | 477.8 |
| Productos lácteos | 416.5 | 423.0 | 432.3 | 475.1 | 480.2 | 482.9 | 485.4 | 491.0 | 491.6 | 498.5 | 510.1 | 517.7 |
| Verduras frescas | 416.5 | 398.2 | 395.7 | 422.3 | 436.7 | 510.5 | 556.9 | 484.8 | 440.5 | 391.1 | 395.9 | 438.5 |
| Tuberculos | 303.5 | 303.9 | 338.4 | 380.6 | 408.1 | 415.1 | 421.6 | 406.4 | 386.0 | 369.3 | 375.7 | 413.3 |
| Frijoles | 574.1 | 589.6 | 605.1 | 628.7 | 641.0 | 668.5 | 676.3 | 679.8 | 682.7 | 690.2 | 702.0 | 732.9 |
| Frutas frescas | 461.2 | 492.3 | 484.0 | 448.1 | 421.7 | 418.4 | 419.7 | 421.5 | 446.4 | 471.7 | 503.4 | 523.1 |
| Frutas y vegetales en conservas | 246.5 | 250.3 | 252.9 | 255.3 | 257.1 | 258.2 | 265.7 | 268.0 | 269.1 | 271.2 | 275.0 | 277.6 |
| Azúcar, sal y especias | 750.5 | 730.9 | 730.2 | 726.8 | 712.1 | 730.8 | 773.2 | 752.2 | 752.0 | 749.2 | 734.1 | 764.6 |
| Cafe, te y bebidas gaseosas | 306.1 | 311.6 | 320.2 | 337.1 | 310.0 | 348.2 | 352.6 | 357.5 | 364.1 | 373.3 | 376.4 | 390.1 |
| Alimentos para bebes | 244.9 | 245.3 | 246.2 | 246.2 | 246.2 | 247.7 | 247.7 | 248.1 | 269.4 | 278.2 | 283.4 | 290.2 |
| Otros productos alimenticios | 429.5 | 431.1 | 435.6 | 436.1 | 437.7 | 439.0 | 441.0 | 446.7 | 472.5 | 479.2 | 492.1 | 503.9 |
| Caramelos | 346.2 | 346.2 | 353.1 | 357.4 | 362.7 | 367.7 | 384.6 | 388.4 | 389.6 | 392.0 | 396.8 | 399.1 |
| Bebidas alcohólicas | 358.2 | 360.7 | 364.5 | 369.7 | 392.8 | 418.1 | 423.7 | 429.1 | 435.2 | 439.5 | 442.6 | 445.3 |
| Alimentos preparados | 761.5 | 796.0 | 802.3 | 829.3 | 821.3 | 859.8 | 876.2 | 894.7 | 936.2 | 967.6 | 980.6 | 974.1 |
| Alimentos de la calle | 345.6 | 346.4 | 363.1 | 368.9 | 377.4 | 380.8 | 384.7 | 385.6 | 387.1 | 395.6 | 404.6 | 409.8 |
| Vivienda | 243.6 | 246.7 | 249.4 | 251.9 | 254.2 | 256.5 | 258.6 | 260.2 | 262.5 | 264.6 | 267.1 | 269.9 |
| Alquiler | 199.7 | 202.1 | 203.9 | 205.6 | 207.3 | 208.6 | 210.3 | 211.8 | 213.3 | 215.2 | 217.4 | 218.8 |
| Iluminación y energía | 332.0 | 334.0 | 336.1 | 338.6 | 340.4 | 342.2 | 344.0 | 346.1 | 348.2 | 350.4 | 354.2 | 357.9 |
| Mantenimiento | 342.7 | 346.1 | 348.2 | 352.2 | 353.9 | 358.1 | 360.3 | 361.1 | 365.7 | 366.7 | 367.6 | 376.4 |
| Prendas de vestir | 288.0 | 293.3 | 301.7 | 306.5 | 310.4 | 313.0 | 317.7 | 321.3 | 331.0 | 333.4 | 336.9 | 338.5 |
| Mobiliarios de cocina | 360.0 | 366.6 | 372.5 | 377.9 | 382.4 | 391.1 | 395.4 | 396.4 | 399.2 | 403.9 | 408.0 | 411.7 |
| Muebles | 245.1 | 254.5 | 258.4 | 261.8 | 267.2 | 271.6 | 275.5 | 278.3 | 281.7 | 287.4 | 292.5 | 299.6 |
| Otros equipos del hogar | 326.0 | 330.7 | 354.5 | 363.0 | 376.2 | 388.3 | 390.5 | 394.9 | 399.4 | 401.8 | 405.3 | 418.7 |
| Otros artículos del hogar | 298.3 | 309.4 | 318.4 | 324.3 | 342.7 | 345.5 | 351.2 | 353.1 | 364.1 | 366.3 | 366.7 | 371.8 |
| Indumentario | 301.7 | 308.7 | 317.7 | 324.0 | 332.0 | 338.6 | 343.7 | 347.6 | 351.8 | 358.1 | 362.5 | 368.2 |
| Telas y accesorios | 351.5 | 358.9 | 373.9 | 379.9 | 387.1 | 392.5 | 398.0 | 403.7 | 407.3 | 414.2 | 419.3 | 425.1 |
| Prenda de vestir masculina | 290.1 | 296.0 | 303.7 | 310.5 | 319.5 | 327.5 | 332.2 | 336.8 | 340.1 | 345.7 | 350.3 | 354.7 |
| Prenda de vestir femenina | 298.0 | 303.5 | 313.0 | 318.7 | 326.4 | 331.2 | 336.5 | 338.8 | 345.1 | 353.4 | 357.0 | 365.2 |
| Ropa de niños | 333.5 | 340.9 | 349.6 | 354.5 | 362.9 | 376.8 | 384.3 | 390.1 | 395.8 | 405.9 | 413.7 | 418.6 |
| Servicios de limpieza | 337.2 | 361.3 | 369.9 | 377.7 | 381.7 | 387.5 | 392.6 | 395.7 | 398.5 | 401.0 | 403.5 | 409.3 |
| Misceláneos | 333.1 | 335.4 | 338.6 | 354.7 | 359.0 | 366.2 | 368.4 | 369.6 | 376.1 | 380.3 | 386.9 | 390.7 |
| Medicinas | 262.8 | 267.1 | 275.8 | 276.1 | 277.7 | 281.6 | 286.5 | 286.8 | 290.8 | 304.0 | 323.1 | 333.5 |
| Cosméticos | 332.8 | 339.5 | 346.1 | 348.0 | 351.9 | 356.4 | 360.6 | 362.9 | 366.5 | 368.4 | 371.3 | 373.0 |
| Recreación & material de lectura | 343.5 | 345.7 | 349.1 | 357.4 | 359.1 | 370.9 | 373.9 | 377.1 | 379.9 | 387.1 | 400.6 | 401.3 |
| Tabaco | 390.0 | 390.0 | 390.1 | 390.1 | 390.1 | 490.6 | 492.7 | 492.7 | 492.7 | 492.7 | 493.3 | 529.5 |
| Educación | 309.5 | 310.6 | 310.6 | 371.0 | 383.9 | 385.1 | 385.1 | 385.1 | 407.3 | 409.7 | 411.5 | 411.5 |
| Transporte | 472.9 | 472.9 | 472.9 | 472.9 | 472.9 | 472.9 | 472.9 | 472.9 | 472.9 | 472.9 | 472.9 | 472.9 |
| Comunicación | 173.6 | 173.6 | 173.6 | 173.6 | 173.6 | 173.6 | 173.6 | 173.6 | 173.6 | 173.6 | 173.6 | 173.6 |
| Vehículos | 455.7 | 458.3 | 462.6 | 464.5 | 465.9 | 468.5 | 469.3 | 469.9 | 473.9 | 475.6 | 475.7 | 476.4 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (6/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1986 | | | | | | | | | | | |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 437.0 | 448.1 | 456.8 | 465.5 | 469.3 | 474.7 | 478.3 | 491.5 | 503.9 | 521.4 | 531.2 | 538.8 |
| Alimentos y bebidas | 580.0 | 598.4 | 612.3 | 618.5 | 616.7 | 620.4 | 618.9 | 638.4 | 653.2 | 676.6 | 690.7 | 704.1 |
| Cereales | 684.3 | 700.1 | 719.6 | 731.7 | 719.8 | 704.1 | 696.6 | 700.1 | 710.3 | 746.0 | 763.8 | 768.4 |
| Carne | 582.1 | 592.1 | 596.6 | 604.2 | 616.9 | 628.9 | 632.1 | 640.3 | 646.3 | 654.7 | 673.2 | 685.0 |
| Pescados y mariscos | 543.3 | 542.3 | 564.0 | 585.6 | 576.8 | 590.6 | 603.1 | 636.0 | 672.7 | 704.0 | 721.0 | 739.4 |
| Grasas y aceites comestibles | 479.7 | 483.5 | 497.7 | 510.3 | 518.6 | 523.3 | 522.7 | 522.6 | 563.4 | 580.2 | 582.8 | 588.8 |
| Productos lácteos | 534.7 | 539.8 | 543.7 | 553.6 | 566.6 | 582.0 | 588.1 | 601.3 | 613.3 | 666.9 | 685.5 | 692.3 |
| Verduras frescas | 540.1 | 650.3 | 692.1 | 689.2 | 674.5 | 669.7 | 610.7 | 712.2 | 703.6 | 655.8 | 640.1 | 716.2 |
| Tuberculos | 496.9 | 522.1 | 549.2 | 516.9 | 435.8 | 410.3 | 381.5 | 382.2 | 401.3 | 447.4 | 500.2 | 525.0 |
| Frijoles | 744.5 | 758.3 | 767.7 | 807.1 | 823.1 | 817.0 | 794.6 | 809.1 | 824.1 | 837.0 | 840.3 | 847.1 |
| Frutas frescas | 532.5 | 553.1 | 575.4 | 575.4 | 576.3 | 578.8 | 594.6 | 628.5 | 674.0 | 725.6 | 768.6 | 771.3 |
| Frutas y vegetales en conservas | 285.3 | 292.1 | 302.6 | 313.1 | 313.7 | 321.8 | 326.1 | 329.4 | 338.0 | 345.2 | 367.4 | 384.1 |
| Azúcar, sal y especias | 767.7 | 767.6 | 771.1 | 778.3 | 789.1 | 782.8 | 784.8 | 840.5 | 855.9 | 874.0 | 852.7 | 858.0 |
| Cafe, te y bebidas gaseosas | 408.5 | 477.9 | 498.2 | 505.3 | 513.1 | 541.8 | 546.0 | 550.6 | 579.1 | 625.3 | 636.0 | 643.9 |
| Alimentos para bebés | 292.7 | 299.0 | 302.6 | 309.4 | 316.4 | 320.3 | 321.1 | 323.4 | 324.5 | 330.5 | 334.5 | 341.9 |
| Otros productos alimenticios | 515.8 | 522.4 | 525.1 | 531.7 | 538.7 | 546.4 | 552.3 | 552.4 | 588.9 | 643.7 | 672.7 | 677.8 |
| Caramelos | 412.5 | 436.9 | 444.9 | 451.2 | 453.6 | 474.4 | 476.9 | 480.0 | 484.4 | 533.6 | 591.2 | 600.4 |
| Bebidas alcohólicas | 459.0 | 471.1 | 478.4 | 481.6 | 488.8 | 491.6 | 512.3 | 516.9 | 519.6 | 526.3 | 551.7 | 558.8 |
| Alimentos preparados | 1,010.6 | 1,031.9 | 1,022.8 | 1,068.8 | 1,061.5 | 1,085.3 | 1,124.9 | 1,144.4 | 1,174.1 | 1,178.0 | 1,180.3 | 1,176.0 |
| Alimentos de la calle | 424.2 | 434.9 | 441.3 | 448.8 | 453.8 | 472.5 | 481.4 | 496.0 | 498.0 | 507.3 | 517.4 | 526.4 |
| Vivienda | 274.3 | 278.7 | 283.7 | 288.9 | 294.1 | 299.2 | 304.7 | 309.7 | 314.4 | 319.2 | 323.7 | 327.3 |
| Alquiler | 220.5 | 222.6 | 224.5 | 226.6 | 230.1 | 232.7 | 236.0 | 238.5 | 240.8 | 242.9 | 245.5 | 247.7 |
| Iluminación y energía | 364.0 | 368.2 | 382.5 | 387.9 | 392.2 | 396.6 | 410.8 | 410.7 | 415.5 | 423.0 | 428.7 | 434.6 |
| Mantenimiento | 391.2 | 402.0 | 413.8 | 429.8 | 438.8 | 460.4 | 465.5 | 472.1 | 475.4 | 478.2 | 487.6 | 497.3 |
| Prendas de vestir | 341.5 | 355.2 | 364.5 | 374.9 | 383.8 | 392.5 | 407.0 | 432.6 | 445.4 | 464.6 | 473.0 | 477.6 |
| Mobiliarios de cocina | 424.9 | 437.4 | 445.1 | 461.0 | 472.5 | 477.7 | 484.8 | 507.4 | 530.1 | 549.3 | 558.2 | 561.5 |
| Muebles | 306.2 | 312.6 | 316.2 | 329.3 | 335.6 | 339.3 | 349.7 | 360.6 | 371.7 | 385.0 | 393.7 | 399.0 |
| Otros equipos del hogar | 430.2 | 452.5 | 457.5 | 473.0 | 494.4 | 513.9 | 519.5 | 523.5 | 533.3 | 537.6 | 554.4 | 557.3 |
| Otros artículos del hogar | 302.1 | 392.9 | 403.8 | 410.3 | 425.8 | 435.8 | 441.8 | 473.9 | 499.5 | 512.2 | 523.9 | 526.4 |
| Indumentario | 379.0 | 389.7 | 399.8 | 406.1 | 417.8 | 429.0 | 437.6 | 451.8 | 463.2 | 473.1 | 487.7 | 494.7 |
| Telas y accesorios | 447.3 | 469.3 | 488.1 | 493.0 | 511.6 | 526.8 | 535.1 | 568.0 | 585.5 | 599.3 | 609.5 | 614.8 |
| Prenda de vestir masculina | 365.7 | 376.2 | 385.3 | 392.1 | 404.3 | 416.1 | 427.6 | 440.7 | 451.8 | 460.4 | 476.5 | 484.6 |
| Prenda de vestir femenina | 373.4 | 380.7 | 388.5 | 394.3 | 403.5 | 409.6 | 416.8 | 429.2 | 438.9 | 449.2 | 463.5 | 469.3 |
| Ropa de niños | 426.6 | 441.7 | 455.0 | 464.0 | 471.4 | 485.7 | 501.1 | 510.5 | 531.0 | 540.6 | 550.7 | 562.3 |
| Servicios de limpieza | 426.1 | 439.7 | 462.8 | 468.7 | 476.5 | 481.7 | 489.1 | 496.9 | 506.8 | 519.4 | 538.0 | 547.2 |
| Misceláneos | 400.0 | 406.2 | 409.7 | 428.1 | 437.0 | 443.5 | 451.2 | 462.0 | 478.8 | 501.2 | 507.6 | 510.2 |
| Medicinas | 342.6 | 347.7 | 351.3 | 353.3 | 356.1 | 359.9 | 361.2 | 365.6 | 369.5 | 373.3 | 380.2 | 384.5 |
| Cosméticos | 380.7 | 393.3 | 400.4 | 413.4 | 424.6 | 442.0 | 456.7 | 469.1 | 479.1 | 506.0 | 520.4 | 528.2 |
| Recreación & material de lectura | 410.4 | 413.5 | 421.8 | 453.3 | 457.5 | 458.6 | 476.2 | 508.9 | 520.2 | 526.2 | 537.8 | 540.5 |
| Tabaco | 555.2 | 557.5 | 562.8 | 563.1 | 603.0 | 662.0 | 664.4 | 738.6 | 746.2 | 747.0 | 747.4 | 747.4 |
| Educación | 422.5 | 426.1 | 426.5 | 467.2 | 474.9 | 477.8 | 477.8 | 477.8 | 506.2 | 513.3 | 517.2 | 517.7 |
| Transporte | 474.0 | 474.0 | 474.9 | 475.4 | 486.3 | 486.3 | 496.2 | 499.6 | 560.1 | 626.3 | 628.5 | 630.6 |
| Comunicación | 173.6 | 178.4 | 178.4 | 203.6 | 204.1 | 204.1 | 204.1 | 204.2 | 204.2 | 204.2 | 204.2 | 204.2 |
| Vehículos | 491.1 | 510.4 | 511.5 | 512.5 | 521.2 | 522.4 | 532.4 | 544.6 | 544.6 | 599.4 | 601.3 | 604.1 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (7/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1987 | | | | | | | | | | | |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Indice general | 548.5 | 562.4 | 591.4 | 603.0 | 611.3 | 625.2 | 631.1 | 637.8 | 650.9 | 663.5 | 693.7 | 713.8 |
| Alimentos y bebidas | 714.6 | 740.4 | 772.8 | 787.1 | 794.6 | 814.5 | 818.6 | 825.9 | 840.7 | 861.1 | 911.9 | 938.8 |
| Cereales | 783.4 | 822.0 | 836.4 | 851.8 | 848.1 | 834.2 | 846.0 | 869.0 | 879.8 | 890.7 | 950.2 | 976.9 |
| Carne | 705.9 | 721.2 | 733.6 | 743.0 | 761.9 | 771.6 | 786.4 | 797.8 | 805.1 | 820.4 | 847.7 | 886.9 |
| Pescados y mariscos | 752.5 | 772.9 | 803.1 | 846.1 | 852.2 | 858.2 | 878.5 | 953.2 | 972.4 | 1,004.9 | 1,056.2 | 1,090.3 |
| Grasas y aceites comestibles | 588.6 | 600.3 | 640.7 | 660.3 | 673.4 | 690.0 | 708.6 | 711.8 | 711.9 | 712.4 | 771.0 | 779.5 |
| Productos lácteos | 697.5 | 704.0 | 716.2 | 730.3 | 737.1 | 753.1 | 758.8 | 804.3 | 822.5 | 842.4 | 898.1 | 920.5 |
| Verduras frescas | 721.9 | 775.7 | 966.8 | 996.5 | 981.0 | 985.5 | 908.3 | 838.5 | 748.9 | 779.5 | 908.1 | 906.0 |
| Tuberculos | 535.3 | 517.5 | 516.5 | 502.7 | 485.5 | 493.7 | 511.0 | 532.8 | 702.4 | 747.7 | 744.7 | 716.7 |
| Frijoles | 852.3 | 858.1 | 869.0 | 882.2 | 890.6 | 905.2 | 914.7 | 913.2 | 924.9 | 917.3 | 933.3 | 962.0 |
| Frutas frescas | 764.9 | 818.0 | 862.6 | 849.3 | 832.0 | 899.7 | 903.3 | 965.7 | 999.0 | 1,099.1 | 1,036.5 | 996.1 |
| Frutas y vegetales en conservas | 395.4 | 396.9 | 411.5 | 439.7 | 448.8 | 462.7 | 475.4 | 486.6 | 510.4 | 519.1 | 543.5 | 575.2 |
| Azúcar, sal y especias | 867.1 | 935.9 | 1,023.3 | 1,049.7 | 1,095.4 | 1,239.9 | 1,206.7 | 1,059.7 | 1,055.6 | 1,054.4 | 1,203.2 | 1,307.5 |
| Cafe, te y bebidas gaseosas | 667.4 | 704.6 | 704.7 | 707.8 | 707.7 | 716.9 | 739.2 | 743.4 | 748.3 | 753.9 | 817.3 | 843.6 |
| Alimentos para bebes | 346.2 | 357.5 | 365.4 | 367.8 | 369.2 | 370.3 | 381.9 | 402.3 | 407.2 | 410.5 | 415.5 | 422.5 |
| Otros productos alimenticios | 681.0 | 690.1 | 707.1 | 714.7 | 718.6 | 723.3 | 730.9 | 804.5 | 828.9 | 865.5 | 889.9 | 895.9 |
| Caramelos | 613.8 | 635.6 | 639.2 | 645.3 | 649.2 | 652.3 | 666.8 | 674.1 | 691.0 | 715.8 | 736.9 | 793.4 |
| Bebidas alcohólicas | 598.5 | 604.3 | 614.5 | 644.7 | 647.0 | 647.3 | 652.3 | 657.0 | 677.1 | 707.5 | 714.2 | 730.1 |
| Alimentos preparados | 1,193.7 | 1,211.5 | 1,273.4 | 1,325.1 | 1,346.0 | 1,417.8 | 1,462.2 | 1,554.4 | 1,594.7 | 1,653.4 | 1,675.9 | 1,724.5 |
| Alimentos de la calle | 530.4 | 555.8 | 581.6 | 587.9 | 607.3 | 613.1 | 619.3 | 627.0 | 627.3 | 635.8 | 674.5 | 704.4 |
| Vivienda | 331.7 | 338.4 | 356.3 | 362.7 | 369.5 | 378.6 | 384.4 | 390.3 | 395.2 | 398.8 | 410.6 | 423.9 |
| Alquiler | 251.0 | 254.1 | 258.1 | 261.4 | 267.4 | 271.0 | 274.2 | 277.1 | 279.5 | 281.4 | 284.6 | 288.6 |
| Iluminación y energía | 440.8 | 463.4 | 601.1 | 608.3 | 614.7 | 656.8 | 663.7 | 673.2 | 681.3 | 688.9 | 697.8 | 707.5 |
| Mantenimiento | 503.4 | 510.9 | 516.0 | 519.5 | 532.2 | 540.2 | 559.8 | 579.5 | 591.2 | 594.1 | 627.2 | 674.1 |
| Prendas de vestir | 484.1 | 506.3 | 511.0 | 519.0 | 529.9 | 537.4 | 549.8 | 556.5 | 564.5 | 572.5 | 622.8 | 660.2 |
| Mobiliarios de cocina | 554.3 | 571.9 | 574.4 | 578.7 | 586.1 | 593.0 | 597.5 | 601.2 | 609.9 | 619.0 | 671.5 | 719.8 |
| Muebles | 404.8 | 417.8 | 420.0 | 430.9 | 434.5 | 436.9 | 441.2 | 452.6 | 461.6 | 465.1 | 485.4 | 518.0 |
| Otros equipos del hogar | 584.1 | 594.7 | 599.3 | 603.2 | 614.4 | 636.9 | 662.2 | 673.0 | 684.8 | 692.4 | 711.9 | 747.8 |
| Otros artículos del hogar | 531.6 | 533.9 | 534.9 | 535.2 | 545.0 | 551.7 | 556.8 | 562.6 | 574.1 | 583.5 | 639.7 | 673.1 |
| Indumentario | 501.2 | 510.0 | 518.2 | 526.7 | 535.0 | 542.8 | 554.8 | 564.8 | 571.7 | 578.6 | 603.6 | 625.2 |
| Telas y accesorios | 628.3 | 631.7 | 638.6 | 646.5 | 653.8 | 668.1 | 679.0 | 698.7 | 710.2 | 723.6 | 777.9 | 806.4 |
| Prenda de vestir masculina | 488.9 | 496.4 | 506.5 | 516.4 | 526.5 | 532.2 | 543.8 | 553.8 | 558.7 | 563.9 | 587.8 | 609.8 |
| Prenda de vestir femenina | 477.5 | 485.9 | 491.2 | 498.0 | 504.6 | 514.1 | 524.3 | 530.2 | 538.4 | 545.5 | 563.7 | 581.0 |
| Ropa de niños | 573.7 | 581.7 | 585.9 | 598.4 | 603.0 | 617.2 | 632.2 | 645.9 | 663.2 | 674.1 | 694.8 | 715.7 |
| Servicios de limpieza | 552.2 | 587.4 | 596.3 | 604.3 | 608.6 | 612.1 | 638.2 | 658.2 | 663.8 | 671.3 | 701.1 | 741.8 |
| Misceláneos | 524.7 | 529.2 | 569.1 | 586.7 | 598.3 | 611.5 | 618.2 | 623.1 | 642.8 | 654.0 | 673.0 | 688.0 |
| Medicinas | 388.6 | 392.7 | 396.9 | 399.2 | 420.0 | 432.6 | 439.7 | 442.8 | 449.9 | 459.2 | 470.1 | 472.3 |
| Cosméticos | 533.1 | 547.4 | 553.6 | 561.7 | 569.9 | 576.9 | 596.3 | 620.6 | 641.4 | 649.0 | 664.1 | 706.7 |
| Recreación & material de lectura | 558.5 | 562.7 | 579.5 | 588.6 | 589.7 | 594.4 | 602.9 | 603.3 | 610.4 | 635.9 | 676.0 | 691.1 |
| Tabaco | 894.5 | 907.3 | 916.1 | 916.1 | 916.1 | 1,005.0 | 1,006.1 | 1,006.1 | 1,008.6 | 1,008.6 | 1,008.6 | 1,008.6 |
| Educación | 535.8 | 535.8 | 535.8 | 595.9 | 615.3 | 636.2 | 636.2 | 636.2 | 703.3 | 711.8 | 731.7 | 736.8 |
| Transporte | 630.6 | 634.9 | 791.5 | 791.8 | 791.8 | 791.8 | 791.9 | 792.8 | 792.8 | 792.8 | 806.0 | 806.0 |
| Comunicación | 204.2 | 204.2 | 204.2 | 204.2 | 204.2 | 204.2 | 204.2 | 204.2 | 204.2 | 204.2 | 204.2 | 205.0 |
| Vehículos | 608.3 | 609.7 | 835.4 | 840.3 | 852.2 | 868.3 | 876.7 | 880.1 | 886.9 | 911.6 | 939.2 | 975.9 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (8/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1988 | | | | | | | | | | | |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 736.9 | 773.7 | 808.4 | 864.2 | 904.8 | 837.1 | 982.8 | 1,039.3 | 1,116.2 | 1,177.0 | 1,251.8 | 1,325.6 |
| Alimentos y bebidas | 975.7 | 1,033.8 | 1,089.0 | 1,170.1 | 1,236.4 | 1,284.5 | 1,345.1 | 1,438.5 | 1,495.5 | 1,547.2 | 1,689.5 | 1,832.9 |
| Cereales | 1,006.9 | 1,096.8 | 1,186.6 | 1,298.4 | 1,385.5 | 1,371.4 | 1,427.0 | 1,530.6 | 1,630.5 | 1,760.6 | 2,196.1 | 2,614.7 |
| Carne | 936.8 | 1,009.6 | 1,039.1 | 1,053.7 | 1,072.2 | 1,112.9 | 1,172.2 | 1,227.0 | 1,333.9 | 1,378.2 | 1,457.8 | 1,563.3 |
| Pescados y mariscos | 1,142.7 | 1,165.8 | 1,233.5 | 1,294.4 | 1,317.7 | 1,385.4 | 1,522.9 | 1,700.5 | 1,889.7 | 1,971.4 | 2,007.8 | 1,984.0 |
| Grasas y aceites comestibles | 792.2 | 813.9 | 843.8 | 913.7 | 1,025.9 | 1,074.2 | 1,091.3 | 1,297.6 | 1,324.5 | 1,341.5 | 1,363.8 | 1,384.4 |
| Productos lácteos | 924.9 | 944.6 | 984.0 | 1,076.9 | 1,151.1 | 1,174.1 | 1,244.1 | 1,298.4 | 1,350.9 | 1,382.6 | 1,414.2 | 1,475.0 |
| Verduras frescas | 999.2 | 1,082.9 | 1,051.0 | 1,189.3 | 1,312.7 | 1,609.9 | 1,593.1 | 1,542.0 | 1,368.1 | 1,241.6 | 1,372.8 | 1,469.7 |
| Tubérculos | 729.9 | 758.5 | 797.8 | 953.6 | 1,055.2 | 1,156.2 | 1,296.8 | 1,422.6 | 1,421.9 | 1,437.0 | 1,452.1 | 1,416.9 |
| Frijoles | 987.0 | 1,028.7 | 1,145.6 | 1,318.3 | 1,491.7 | 1,581.6 | 1,811.5 | 2,000.4 | 2,006.3 | 2,062.1 | 2,169.6 | 2,275.3 |
| Frutas frescas | 1,014.6 | 1,075.9 | 1,075.5 | 1,106.1 | 1,063.7 | 1,129.7 | 1,222.3 | 1,265.8 | 1,276.8 | 1,316.7 | 1,397.1 | 1,473.3 |
| Frutas y vegetales en conservas | 585.5 | 594.4 | 617.4 | 650.5 | 682.0 | 705.4 | 746.6 | 828.6 | 858.7 | 899.0 | 975.3 | 1,003.4 |
| Azúcar, sal y especias | 1,388.3 | 1,513.0 | 1,688.5 | 1,837.1 | 2,022.2 | 2,073.4 | 2,040.8 | 2,187.3 | 2,217.3 | 2,347.0 | 2,634.0 | 2,945.6 |
| Cafe, te y bebidas gaseosas | 873.0 | 892.9 | 967.9 | 1,022.4 | 1,068.7 | 1,093.7 | 1,120.6 | 1,270.1 | 1,309.0 | 1,348.7 | 1,391.2 | 1,434.6 |
| Alimentos para bebés | 428.9 | 451.0 | 457.9 | 461.1 | 467.7 | 491.7 | 505.5 | 571.8 | 603.5 | 624.1 | 653.2 | 665.7 |
| Otros productos alimenticios | 906.1 | 918.6 | 1,016.5 | 1,075.6 | 1,112.7 | 1,146.6 | 1,255.6 | 1,384.5 | 1,423.1 | 1,445.9 | 1,459.9 | 1,631.3 |
| Caramelos | 823.7 | 893.2 | 915.3 | 957.8 | 989.7 | 1,038.8 | 1,089.6 | 1,213.1 | 1,262.2 | 1,293.6 | 1,400.0 | 1,560.2 |
| Bebidas alcohólicas | 735.5 | 785.5 | 819.8 | 834.5 | 845.5 | 909.0 | 1,050.9 | 1,123.7 | 1,257.1 | 1,373.9 | 1,452.2 | 1,544.9 |
| Alimentos preparados | 1,833.6 | 1,877.5 | 1,914.5 | 1,997.3 | 2,040.9 | 2,118.7 | 2,275.3 | 2,556.0 | 2,862.8 | 3,008.1 | 3,057.0 | 3,134.3 |
| Alimentos de la calle | 737.0 | 756.0 | 769.0 | 801.8 | 806.3 | 832.5 | 874.7 | 962.7 | 1,015.5 | 1,042.0 | 1,106.2 | 1,176.1 |
| Vivienda | 437.5 | 446.0 | 465.8 | 481.0 | 493.9 | 509.4 | 523.7 | 545.9 | 574.2 | 592.1 | 611.1 | 625.7 |
| Alquiler | 295.1 | 300.5 | 306.8 | 314.8 | 321.6 | 328.8 | 335.3 | 342.9 | 350.8 | 356.0 | 363.0 | 372.1 |
| Iluminación y energía | 721.6 | 731.5 | 741.6 | 754.7 | 763.7 | 773.3 | 785.9 | 792.5 | 852.0 | 851.5 | 850.6 | 849.2 |
| Mantenimiento | 721.3 | 727.2 | 778.7 | 805.3 | 826.2 | 895.3 | 916.8 | 992.5 | 1,022.4 | 1,064.3 | 1,164.9 | 1,204.2 |
| Prendas de vestir | 685.4 | 730.8 | 805.1 | 859.9 | 920.7 | 956.3 | 1,054.7 | 1,179.6 | 1,295.3 | 1,378.0 | 1,425.5 | 1,501.9 |
| Mobiliarios de cocina | 740.2 | 752.0 | 840.1 | 892.8 | 928.8 | 939.3 | 977.0 | 1,034.7 | 1,134.7 | 1,232.6 | 1,275.6 | 1,289.7 |
| Muebles | 534.6 | 552.4 | 589.8 | 607.6 | 622.2 | 643.0 | 668.4 | 714.2 | 786.9 | 834.1 | 862.4 | 892.8 |
| Otros equipos del hogar | 771.4 | 784.7 | 883.9 | 909.5 | 928.3 | 964.5 | 977.7 | 1,024.5 | 1,063.4 | 1,093.8 | 1,152.8 | 1,220.4 |
| Otros artículos del hogar | 698.1 | 727.0 | 799.3 | 845.1 | 926.6 | 950.9 | 997.5 | 1,075.3 | 1,153.3 | 1,223.1 | 1,272.2 | 1,282.2 |
| Indumentario | 644.7 | 663.8 | 697.5 | 733.4 | 761.9 | 795.0 | 843.7 | 892.5 | 968.8 | 1,034.8 | 1,093.0 | 1,148.7 |
| Telas y accesorios | 852.6 | 894.3 | 956.1 | 1,018.7 | 1,073.9 | 1,102.9 | 1,153.8 | 1,282.0 | 1,436.8 | 1,520.9 | 1,567.6 | 1,629.3 |
| Prenda de vestir masculina | 627.9 | 647.4 | 682.2 | 716.5 | 740.0 | 781.8 | 836.8 | 876.4 | 947.2 | 1,013.2 | 1,076.1 | 1,131.2 |
| Prenda de vestir femenina | 593.3 | 605.8 | 632.8 | 663.0 | 691.6 | 711.5 | 745.3 | 790.8 | 859.9 | 917.6 | 969.3 | 1,024.2 |
| Ropa de niños | 736.5 | 760.6 | 791.1 | 846.4 | 892.9 | 923.4 | 982.9 | 1,041.0 | 1,118.2 | 1,208.4 | 1,282.5 | 1,380.1 |
| Servicios de limpieza | 763.5 | 778.7 | 809.7 | 849.8 | 870.3 | 921.8 | 1,009.8 | 1,033.3 | 1,080.8 | 1,189.8 | 1,269.7 | 1,289.7 |
| Misceláneos | 701.2 | 740.6 | 757.7 | 827.0 | 861.8 | 886.3 | 938.4 | 972.8 | 1,123.0 | 1,236.7 | 1,264.2 | 1,297.1 |
| Medicinas | 477.4 | 495.3 | 519.3 | 538.2 | 561.3 | 567.1 | 585.1 | 617.6 | 657.2 | 686.5 | 716.0 | 751.7 |
| Cosméticos | 740.2 | 782.3 | 829.5 | 868.5 | 909.0 | 935.8 | 959.7 | 1,007.5 | 1,078.1 | 1,144.1 | 1,195.7 | 1,268.6 |
| Recreación & material de lectura | 730.6 | 808.5 | 838.4 | 861.2 | 947.9 | 955.6 | 995.8 | 1,082.0 | 1,113.2 | 1,217.2 | 1,228.9 | 1,285.7 |
| Tabaco | 1,008.6 | 1,470.2 | 1,471.2 | 1,473.0 | 1,477.1 | 1,842.2 | 1,903.1 | 1,904.5 | 1,956.8 | 3,304.7 | 3,327.8 | 3,345.3 |
| Educación | 736.8 | 736.8 | 736.8 | 940.5 | 986.8 | 1,006.1 | 1,006.1 | 1,016.6 | 1,261.5 | 1,294.4 | 1,301.9 | 1,301.9 |
| Transporte | 806.0 | 808.1 | 812.8 | 814.5 | 815.2 | 816.1 | 1,120.7 | 1,121.4 | 1,145.6 | 1,448.6 | 1,448.6 | 1,465.4 |
| Comunicación | 206.4 | 206.4 | 206.4 | 206.4 | 206.4 | 206.4 | 206.4 | 206.4 | 206.4 | 206.4 | 206.4 | 206.4 |
| Vehículos | 982.6 | 990.0 | 1,010.3 | 1,074.6 | 1,078.5 | 1,080.0 | 1,108.6 | 1,149.9 | 1,659.1 | 1,813.1 | 1,957.3 | 2,007.9 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (9/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1989 | | | | | | | | | | | |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 1,395.8 | 1,477.2 | 1,609.7 | 1,652.9 | 1,670.6 | 1,727.5 | 1,750.9 | 1,796.4 | 1,882.9 | 1,932.4 | 1,992.4 | 2,044.7 |
| Alimentos y bebidas | 1,976.0 | 2,136.5 | 2,441.7 | 2,475.7 | 2,433.5 | 2,516.0 | 2,518.7 | 2,591.9 | 2,699.5 | 2,774.1 | 2,845.3 | 2,926.5 |
| Cereales | 2,868.1 | 3,078.9 | 3,912.1 | 3,749.5 | 3,581.1 | 3,543.1 | 3,631.8 | 3,852.2 | 3,974.9 | 4,086.9 | 4,134.5 | 4,215.8 |
| Carne | 1,649.3 | 1,757.3 | 1,879.3 | 1,972.2 | 2,046.5 | 2,254.6 | 2,297.7 | 2,335.7 | 2,375.5 | 2,431.1 | 2,524.3 | 2,693.7 |
| Pescados y mariscos | 2,071.3 | 2,256.1 | 2,341.8 | 2,418.2 | 2,384.5 | 2,532.6 | 2,630.1 | 2,875.3 | 3,019.5 | 3,135.2 | 3,139.8 | 3,318.9 |
| Grasas y aceites comestibles | 1,687.3 | 1,782.8 | 1,890.6 | 1,983.9 | 1,982.9 | 1,988.7 | 1,992.6 | 2,014.1 | 2,028.8 | 2,060.7 | 2,331.0 | 2,335.1 |
| Productos lácteos | 1,730.3 | 1,836.2 | 2,010.4 | 2,069.5 | 2,078.3 | 2,135.6 | 2,175.6 | 2,227.1 | 2,521.0 | 2,632.1 | 2,679.7 | 2,682.7 |
| Verduras frescas | 1,787.2 | 1,987.4 | 2,502.1 | 2,689.3 | 2,383.7 | 2,431.8 | 2,110.5 | 2,084.6 | 2,097.1 | 2,214.9 | 2,425.1 | 2,602.0 |
| Tubérculos | 1,445.1 | 1,500.5 | 1,658.7 | 1,915.0 | 1,939.1 | 2,106.2 | 1,891.4 | 1,875.6 | 1,789.6 | 1,762.1 | 1,809.5 | 1,801.5 |
| Frijoles | 2,301.2 | 2,426.4 | 2,801.8 | 2,883.1 | 2,859.0 | 2,835.3 | 2,850.0 | 2,877.3 | 2,877.9 | 2,932.0 | 2,977.3 | 3,033.8 |
| Frutas frescas | 1,467.4 | 1,556.1 | 1,696.2 | 1,798.9 | 1,720.0 | 1,942.1 | 1,932.6 | 2,048.1 | 2,232.2 | 2,299.5 | 2,364.6 | 2,211.3 |
| Frutas y vegetales en conservas | 995.5 | 1,044.8 | 1,117.1 | 1,157.6 | 1,228.7 | 1,266.2 | 1,294.9 | 1,322.9 | 1,361.5 | 1,391.8 | 1,418.0 | 1,441.7 |
| Azúcar, sal y especias | 2,940.5 | 3,448.7 | 4,004.8 | 3,893.1 | 3,653.6 | 3,660.5 | 3,574.1 | 3,544.4 | 3,750.7 | 3,814.0 | 3,853.2 | 4,031.8 |
| Cafe, te y bebidas gaseosas | 1,540.2 | 1,603.6 | 1,645.7 | 1,665.4 | 1,675.4 | 1,690.0 | 1,698.7 | 1,721.6 | 1,839.7 | 1,861.3 | 1,889.8 | 1,965.3 |
| Alimentos para bebés | 696.8 | 733.9 | 758.3 | 796.0 | 827.1 | 919.9 | 953.6 | 999.8 | 1,077.9 | 1,155.0 | 1,238.5 | 1,259.1 |
| Otros productos alimenticios | 1,807.8 | 1,925.5 | 1,971.9 | 2,113.3 | 2,440.4 | 2,520.3 | 2,531.9 | 2,553.6 | 2,573.8 | 2,605.4 | 2,633.3 | 2,783.6 |
| Caramelos | 1,729.8 | 1,824.8 | 1,891.7 | 2,103.4 | 2,146.9 | 2,170.2 | 2,190.7 | 2,209.9 | 2,218.2 | 2,228.8 | 2,269.6 | 2,293.1 |
| Bebidas alcohólicas | 1,764.8 | 1,822.0 | 1,720.1 | 1,883.9 | 2,007.2 | 1,958.3 | 1,982.5 | 2,110.1 | 1,866.4 | 1,986.5 | 2,023.1 | 2,050.8 |
| Alimentos preparados | 3,399.9 | 3,479.1 | 3,658.4 | 3,941.0 | 4,413.5 | 4,796.8 | 4,946.8 | 5,018.3 | 5,114.0 | 5,232.4 | 5,308.0 | 5,724.4 |
| Alimentos de la calle | 1,297.3 | 1,368.6 | 1,424.4 | 1,461.4 | 1,522.3 | 1,576.8 | 1,598.5 | 1,617.7 | 1,719.2 | 1,789.2 | 1,841.0 | 1,908.5 |
| Vivienda | 652.6 | 678.1 | 691.0 | 708.6 | 732.1 | 757.2 | 807.2 | 821.3 | 845.6 | 869.6 | 897.9 | 926.2 |
| Alquiler | 384.8 | 394.3 | 401.9 | 408.8 | 420.5 | 431.2 | 446.1 | 455.7 | 466.3 | 478.3 | 490.2 | 499.8 |
| Iluminación y energía | 849.8 | 836.1 | 844.0 | 851.2 | 859.6 | 881.4 | 1,123.5 | 1,126.6 | 1,139.4 | 1,149.1 | 1,160.5 | 1,168.8 |
| Mantenimiento | 1,339.0 | 1,487.4 | 1,514.0 | 1,569.2 | 1,696.0 | 1,795.6 | 1,857.0 | 1,886.9 | 1,988.5 | 2,086.8 | 2,213.5 | 2,387.3 |
| Prendas de vestir | 1,531.4 | 1,588.5 | 1,621.3 | 1,676.9 | 1,698.4 | 1,756.7 | 1,784.5 | 1,805.6 | 1,881.1 | 1,920.6 | 1,983.6 | 2,019.2 |
| Mobiliarios de cocina | 1,344.4 | 1,413.8 | 1,461.1 | 1,523.9 | 1,562.3 | 1,595.9 | 1,642.7 | 1,693.5 | 1,739.3 | 1,806.6 | 1,877.9 | 1,921.2 |
| Muebles | 922.7 | 951.1 | 973.8 | 1,012.6 | 1,035.4 | 1,070.9 | 1,118.1 | 1,146.7 | 1,178.9 | 1,201.1 | 1,242.6 | 1,281.1 |
| Otros equipos del hogar | 1,265.7 | 1,329.2 | 1,345.7 | 1,407.8 | 1,455.4 | 1,532.6 | 1,559.0 | 1,610.3 | 1,648.7 | 1,704.5 | 1,792.2 | 1,811.0 |
| Otros artículos del hogar | 1,341.8 | 1,370.5 | 1,386.8 | 1,412.7 | 1,434.4 | 1,457.1 | 1,491.2 | 1,544.9 | 1,560.5 | 1,603.4 | 1,617.1 | 1,641.7 |
| Indumentario | 1,181.9 | 1,231.4 | 1,288.0 | 1,321.5 | 1,354.6 | 1,407.6 | 1,444.8 | 1,491.8 | 1,540.9 | 1,580.8 | 1,636.2 | 1,672.5 |
| Telas y accesorios | 1,668.4 | 1,746.5 | 1,785.2 | 1,842.2 | 1,880.1 | 1,953.4 | 2,002.9 | 2,047.7 | 2,102.2 | 2,172.8 | 2,234.9 | 2,295.4 |
| Prenda de vestir masculina | 1,156.2 | 1,195.7 | 1,244.7 | 1,275.6 | 1,303.2 | 1,352.0 | 1,397.5 | 1,452.7 | 1,509.6 | 1,550.2 | 1,608.3 | 1,638.2 |
| Prenda de vestir femenina | 1,062.8 | 1,113.9 | 1,189.3 | 1,219.3 | 1,249.1 | 1,301.5 | 1,321.5 | 1,355.8 | 1,385.2 | 1,411.5 | 1,454.1 | 1,483.5 |
| Ropa de niños | 1,429.7 | 1,486.3 | 1,510.7 | 1,538.7 | 1,595.8 | 1,654.3 | 1,719.7 | 1,787.9 | 1,855.0 | 1,883.6 | 1,974.2 | 2,014.9 |
| Servicios de limpieza | 1,324.9 | 1,396.9 | 1,472.0 | 1,517.8 | 1,608.6 | 1,679.1 | 1,698.4 | 1,769.7 | 1,852.1 | 1,925.1 | 1,992.8 | 2,097.0 |
| Misceláneos | 1,313.7 | 1,340.6 | 1,350.0 | 1,446.1 | 1,546.6 | 1,599.1 | 1,623.3 | 1,655.0 | 1,778.8 | 1,818.4 | 1,889.8 | 1,929.6 |
| Medicinas | 781.7 | 798.9 | 803.7 | 809.9 | 841.8 | 909.8 | 947.5 | 962.6 | 1,011.1 | 1,021.5 | 1,036.8 | 1,047.9 |
| Cosméticos | 1,313.0 | 1,373.1 | 1,406.1 | 1,438.0 | 1,468.5 | 1,546.5 | 1,584.0 | 1,655.2 | 1,747.0 | 1,819.6 | 1,885.2 | 1,984.1 |
| Recreación & material de lectura | 1,294.1 | 1,385.8 | 1,405.1 | 1,414.8 | 1,484.6 | 1,513.0 | 1,537.7 | 1,608.9 | 1,605.8 | 1,648.4 | 1,703.7 | 1,773.2 |
| Tabaco | 3,349.4 | 3,351.1 | 3,350.1 | 3,352.3 | 3,352.3 | 3,353.4 | 3,353.4 | 3,362.6 | 4,278.9 | 4,307.0 | 4,308.6 | 4,315.9 |
| Educación | 1,301.9 | 1,301.9 | 1,301.9 | 1,660.6 | 1,747.8 | 1,790.0 | 1,790.0 | 1,790.0 | 2,087.8 | 2,118.5 | 2,132.5 | 2,132.5 |
| Transporte | 1,465.4 | 1,465.4 | 1,465.4 | 1,466.1 | 1,466.1 | 1,882.5 | 2,009.1 | 2,009.1 | 2,015.4 | 2,070.0 | 2,434.2 | 2,445.4 |
| Comunicación | 261.6 | 261.6 | 261.6 | 335.3 | 556.3 | 556.3 | 556.3 | 556.3 | 630.0 | 630.0 | 630.0 | 740.5 |
| Vehículos | 2,020.3 | 2,023.5 | 2,023.5 | 2,048.2 | 2,078.6 | 2,078.6 | 2,180.8 | 2,270.8 | 2,357.5 | 2,441.7 | 2,525.8 | 2,609.8 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (10/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1990 | | | | | | | | | | | |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. |
| Índice general | 2,121.2 | 2,219.4 | 2,312.3 | 2,417.1 | 2,487.6 | 2,550.9 | 2,632.2 | 2,674.3 | 2,767.0 | 2,865.1 | 2,985.7 | 3,057.3 |
| Alimentos y bebidas | 3,039.3 | 3,218.7 | 3,376.4 | 3,520.1 | 3,618.8 | 3,704.0 | 3,757.2 | 3,798.6 | 3,907.2 | 4,077.9 | 4,309.0 | 4,423.6 |
| Cereales | 4,307.2 | 4,760.6 | 4,860.2 | 4,896.1 | 4,928.7 | 4,820.5 | 4,781.8 | 4,873.5 | 4,941.6 | 5,215.3 | 5,438.8 | 5,438.7 |
| Carne | 2,841.4 | 2,948.9 | 3,023.0 | 3,073.2 | 3,138.5 | 3,225.3 | 3,324.8 | 3,417.9 | 3,572.5 | 3,666.2 | 3,985.6 | 4,219.5 |
| Pescados y mariscos | 3,429.4 | 3,537.6 | 3,626.9 | 3,784.3 | 3,835.2 | 4,059.9 | 4,328.2 | 4,704.7 | 4,914.4 | 5,214.4 | 5,382.6 | 5,507.9 |
| Grasas y aceites comestibles | 2,348.3 | 2,365.4 | 2,388.0 | 2,449.3 | 2,580.2 | 2,607.7 | 2,772.0 | 2,863.0 | 2,916.9 | 3,104.1 | 3,230.9 | 3,240.5 |
| Productos lácteos | 2,707.8 | 2,728.0 | 2,917.1 | 3,074.4 | 3,267.3 | 3,275.5 | 3,304.3 | 3,335.2 | 3,402.7 | 3,630.6 | 3,725.6 | 3,891.8 |
| Verduras frescas | 2,877.6 | 2,929.7 | 3,703.4 | 4,019.6 | 4,147.5 | 4,990.4 | 4,570.6 | 4,278.2 | 4,271.8 | 3,993.6 | 3,955.4 | 3,949.6 |
| Tuberculos | 1,918.5 | 1,852.9 | 1,903.8 | 1,902.9 | 1,908.2 | 1,914.0 | 1,927.3 | 1,928.6 | 2,202.2 | 2,995.0 | 3,422.3 | 3,431.3 |
| Frijoles | 3,054.0 | 3,144.2 | 3,346.1 | 3,515.1 | 3,593.1 | 3,671.4 | 3,703.9 | 3,763.3 | 3,808.5 | 3,840.0 | 3,908.2 | 3,962.5 |
| Frutas frescas | 2,300.5 | 2,392.6 | 2,558.6 | 2,572.4 | 2,624.7 | 2,742.5 | 2,754.3 | 2,786.9 | 2,963.9 | 3,127.5 | 3,265.0 | 3,346.5 |
| Frutas y vegetales en conservas | 1,461.2 | 1,509.7 | 1,546.6 | 1,576.7 | 1,630.0 | 1,658.8 | 1,683.9 | 1,710.2 | 1,768.7 | 1,793.3 | 1,841.4 | 1,887.9 |
| Azúcar, sal y especias | 4,347.8 | 4,961.9 | 5,290.7 | 5,937.2 | 6,222.2 | 6,364.9 | 6,597.2 | 6,451.6 | 6,563.6 | 6,677.4 | 7,086.1 | 7,231.7 |
| Cafe, te y bebidas gaseosas | 2,045.9 | 2,096.6 | 2,150.7 | 2,231.6 | 2,364.4 | 2,473.8 | 2,529.7 | 2,603.8 | 2,661.9 | 2,709.8 | 2,897.3 | 3,003.3 |
| Alimentos para bebes | 1,289.3 | 1,340.4 | 1,385.1 | 1,438.8 | 1,484.9 | 1,508.5 | 1,580.1 | 1,608.5 | 1,674.6 | 1,766.1 | 1,816.9 | 1,847.0 |
| Otros productos alimenticios | 2,951.6 | 3,006.2 | 3,024.2 | 3,152.4 | 3,433.0 | 3,565.2 | 3,611.2 | 3,658.8 | 3,987.0 | 4,162.1 | 4,182.7 | 4,241.9 |
| Caramelos | 2,299.7 | 2,368.3 | 2,376.6 | 2,393.3 | 2,470.1 | 2,576.2 | 2,588.1 | 2,606.3 | 2,753.9 | 3,166.5 | 3,325.5 | 3,354.1 |
| Bebidas alcohólicas | 2,079.1 | 2,101.4 | 2,130.0 | 2,132.0 | 2,163.3 | 2,179.9 | 2,398.9 | 2,389.2 | 2,446.6 | 2,571.7 | 2,661.4 | 2,689.2 |
| Alimentos preparados | 6,032.5 | 6,313.8 | 6,403.0 | 6,576.3 | 6,872.1 | 7,113.2 | 7,201.6 | 7,412.4 | 7,690.8 | 7,821.7 | 8,198.5 | 8,504.7 |
| Alimentos de la calle | 1,945.1 | 2,037.6 | 2,103.8 | 2,261.3 | 2,328.2 | 2,354.3 | 2,422.4 | 2,446.7 | 2,490.7 | 2,527.6 | 2,676.5 | 2,836.2 |
| Vivienda | 981.6 | 1,009.9 | 1,033.6 | 1,059.9 | 1,093.3 | 1,121.4 | 1,155.7 | 1,187.2 | 1,233.9 | 1,265.1 | 1,294.5 | 1,322.5 |
| Alquiler | 519.3 | 539.2 | 558.4 | 574.8 | 591.4 | 613.7 | 632.1 | 647.3 | 670.4 | 690.0 | 711.6 | 734.8 |
| Iluminación y energía | 1,397.5 | 1,405.3 | 1,411.4 | 1,423.8 | 1,438.5 | 1,452.8 | 1,466.9 | 1,481.7 | 1,497.5 | 1,513.7 | 1,529.8 | 1,532.7 |
| Mantenimiento | 2,450.5 | 2,497.3 | 2,519.1 | 2,576.5 | 2,672.5 | 2,716.7 | 2,838.7 | 2,915.4 | 3,153.3 | 3,202.3 | 3,251.5 | 3,321.1 |
| Prendas de vestir | 2,055.5 | 2,106.0 | 2,189.2 | 2,269.4 | 2,351.8 | 2,443.3 | 2,526.6 | 2,587.5 | 2,634.9 | 2,702.7 | 2,748.5 | 2,778.8 |
| Mobiliarios de cocina | 2,010.8 | 2,146.5 | 2,171.3 | 2,241.0 | 2,377.6 | 2,431.9 | 2,521.2 | 2,650.9 | 2,728.3 | 2,842.8 | 2,929.1 | 2,971.1 |
| Muebles | 1,338.7 | 1,369.1 | 1,408.3 | 1,434.8 | 1,482.9 | 1,512.1 | 1,555.0 | 1,604.9 | 1,648.6 | 1,697.1 | 1,767.1 | 1,817.3 |
| Otros equipos del hogar | 1,870.0 | 1,958.7 | 2,211.8 | 2,274.2 | 2,321.5 | 2,411.8 | 2,432.4 | 2,567.0 | 2,607.1 | 2,726.7 | 2,762.4 | 2,857.8 |
| Otros artículos del hogar | 1,693.2 | 1,717.9 | 1,759.9 | 1,819.6 | 1,867.9 | 1,891.1 | 1,925.0 | 1,945.1 | 2,048.2 | 2,107.5 | 2,170.8 | 2,186.3 |
| Indumentario | 1,735.0 | 1,800.7 | 1,865.9 | 1,914.5 | 1,981.7 | 2,064.1 | 2,122.4 | 2,202.0 | 2,285.7 | 2,331.3 | 2,410.6 | 2,514.9 |
| Telas y accesorios | 2,421.1 | 2,482.5 | 2,553.6 | 2,627.1 | 2,685.1 | 2,787.7 | 2,882.8 | 2,994.2 | 3,138.8 | 3,234.5 | 3,369.4 | 3,512.4 |
| Prenda de vestir masculina | 1,693.6 | 1,767.4 | 1,838.7 | 1,872.9 | 1,946.1 | 2,036.0 | 2,102.1 | 2,197.8 | 2,273.8 | 2,297.1 | 2,364.4 | 2,466.2 |
| Prenda de vestir femenina | 1,538.4 | 1,588.4 | 1,638.8 | 1,686.0 | 1,749.7 | 1,817.7 | 1,850.4 | 1,897.0 | 1,975.7 | 2,035.1 | 2,112.1 | 2,199.1 |
| Ropa de niños | 2,074.4 | 2,118.3 | 2,175.8 | 2,254.3 | 2,326.6 | 2,503.9 | 2,546.3 | 2,651.4 | 2,718.8 | 2,792.8 | 2,920.3 | 3,061.8 |
| Servicios de limpieza | 2,204.3 | 2,331.8 | 2,438.3 | 2,582.8 | 2,663.9 | 2,698.8 | 2,818.8 | 2,864.5 | 2,940.3 | 2,976.4 | 3,083.4 | 3,251.7 |
| Misceláneos | 1,975.3 | 2,028.9 | 2,098.4 | 2,256.3 | 2,324.4 | 2,381.7 | 2,562.8 | 2,603.7 | 2,711.6 | 2,781.0 | 2,830.5 | 2,864.8 |
| Medicinas | 1,086.3 | 1,111.9 | 1,159.8 | 1,201.9 | 1,246.9 | 1,330.6 | 1,361.0 | 1,395.7 | 1,477.7 | 1,522.6 | 1,540.6 | 1,577.8 |
| Cosméticos | 2,079.2 | 2,226.8 | 2,302.4 | 2,409.2 | 2,530.2 | 2,624.8 | 2,726.2 | 2,812.8 | 2,958.8 | 3,039.3 | 3,093.3 | 3,221.9 |
| Recreación & material de lectura | 1,801.0 | 1,939.4 | 1,986.2 | 1,998.3 | 2,135.6 | 2,212.8 | 2,325.0 | 2,412.8 | 2,441.2 | 2,568.3 | 2,560.7 | 2,584.7 |
| Tabaco | 4,327.7 | 4,327.7 | 5,203.3 | 5,203.3 | 5,204.6 | 5,204.6 | 6,070.5 | 6,093.5 | 6,093.5 | 6,100.1 | 6,779.2 | 6,931.0 |
| Educación | 2,200.6 | 2,204.1 | 2,204.1 | 2,703.0 | 2,770.0 | 2,819.9 | 2,819.9 | 2,819.9 | 3,089.0 | 3,208.5 | 3,217.5 | 3,217.5 |
| Transporte | 2,445.4 | 2,445.4 | 2,445.4 | 2,445.4 | 2,449.6 | 2,449.6 | 3,213.2 | 3,210.4 | 3,210.4 | 3,210.4 | 3,210.4 | 3,214.6 |
| Comunicación | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 |
| Vehículos | 2,665.9 | 2,722.2 | 2,864.8 | 2,997.9 | 3,054.0 | 3,110.2 | 3,322.3 | 3,415.4 | 3,546.7 | 3,651.0 | 3,723.0 | 3,724.9 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (11/12)
(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1991 | | | | | | | | | | |
|----------------------------------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. |
| Índice general | 3,191.4 | 3,315.0 | 3,445.0 | 3,556.7 | 3,707.8 | 3,800.7 | 3,868.3 | 3,973.3 | 4,153.6 | 4,286.8 | 4,383.1 |
| Alimentos y bebidas | 4,588.5 | 4,791.3 | 5,020.6 | 5,155.0 | 5,388.8 | 5,486.3 | 5,547.1 | 5,712.1 | 5,917.2 | 6,133.1 | 6,258.5 |
| Cereales | 5,656.0 | 5,825.2 | 6,157.7 | 6,335.3 | 6,379.2 | 6,357.7 | 6,497.0 | 6,652.6 | 6,885.1 | 7,116.6 | 7,220.7 |
| Carne | 4,464.8 | 4,668.3 | 4,804.5 | 4,983.7 | 5,295.3 | 5,455.2 | 5,634.0 | 5,799.6 | 5,949.8 | 6,086.3 | 6,430.5 |
| Pescados y mariscos | 5,584.6 | 5,770.8 | 5,833.9 | 5,881.9 | 5,957.6 | 6,007.8 | 6,047.5 | 6,595.7 | 7,078.7 | 7,385.4 | 7,683.8 |
| Grasas y aceites comestibles | 3,527.0 | 3,639.6 | 3,812.4 | 4,219.6 | 4,299.0 | 4,336.0 | 4,577.4 | 4,652.7 | 4,773.4 | 4,861.3 | 4,955.6 |
| Productos lácteos | 4,004.4 | 4,270.7 | 4,385.8 | 4,558.7 | 4,730.2 | 4,744.0 | 4,768.7 | 4,830.0 | 5,081.2 | 5,365.3 | 5,476.1 |
| Verduras frescas | 3,977.7 | 4,652.1 | 5,143.9 | 5,014.7 | 5,068.8 | 5,135.0 | 4,998.0 | 5,002.5 | 5,883.5 | 6,139.2 | 5,533.3 |
| Tuberculos | 3,427.1 | 3,153.4 | 3,119.8 | 3,280.4 | 3,337.4 | 3,585.7 | 3,675.5 | 4,044.2 | 4,225.6 | 4,245.8 | 4,203.8 |
| Frijoles | 4,083.6 | 4,573.4 | 4,814.2 | 4,940.0 | 4,953.9 | 4,969.0 | 5,013.9 | 4,981.8 | 4,979.7 | 5,088.9 | 5,138.1 |
| Frutas frescas | 3,262.4 | 3,314.5 | 3,741.7 | 3,720.9 | 3,893.8 | 4,196.8 | 4,235.2 | 4,221.2 | 4,457.0 | 4,773.4 | 4,921.7 |
| Frutas y vegetales en conservas | 1,907.8 | 1,944.2 | 2,010.9 | 2,083.1 | 2,092.3 | 2,145.4 | 2,209.7 | 2,203.7 | 2,380.2 | 2,569.3 | 2,556.9 |
| Azúcar, sal y especias | 7,634.3 | 8,167.1 | 8,713.0 | 8,809.7 | 9,825.8 | 10,122.5 | 9,710.2 | 9,938.1 | 9,912.5 | 10,167.7 | 10,280.9 |
| Cafe, te y bebidas gaseosas | 3,078.4 | 3,136.4 | 3,209.6 | 3,309.1 | 3,570.7 | 3,691.1 | 3,790.8 | 3,977.4 | 4,011.1 | 4,182.2 | 4,256.2 |
| Alimentos para bebes | 1,882.7 | 1,951.3 | 2,031.4 | 2,092.0 | 2,125.4 | 2,216.9 | 2,247.4 | 2,326.9 | 2,363.4 | 2,470.6 | 2,512.1 |
| Otros productos alimenticios | 4,267.1 | 4,393.4 | 4,517.1 | 4,665.2 | 5,232.7 | 5,340.0 | 5,479.7 | 5,591.6 | 5,897.2 | 5,987.4 | 6,188.4 |
| Caramelos | 3,382.3 | 3,405.9 | 3,420.7 | 3,447.4 | 3,478.3 | 3,755.6 | 4,094.4 | 4,291.2 | 4,503.1 | 4,868.3 | 4,956.2 |
| Bebidas alcohólicas | 2,873.6 | 2,932.7 | 3,257.3 | 3,356.4 | 3,451.2 | 3,479.9 | 3,511.6 | 3,566.4 | 3,593.8 | 3,869.3 | 3,982.5 |
| Alimentos preparados | 8,775.3 | 9,002.1 | 9,681.7 | 10,223.2 | 10,609.6 | 10,978.5 | 11,316.6 | 11,562.6 | 12,028.3 | 11,968.9 | 11,831.6 |
| Alimentos de la calle | 2,973.6 | 3,036.1 | 3,238.0 | 3,296.5 | 3,459.8 | 3,514.4 | 3,623.8 | 3,719.3 | 3,762.7 | 4,021.2 | 4,193.1 |
| Vivienda | 1,387.5 | 1,447.6 | 1,509.0 | 1,551.5 | 1,591.3 | 1,634.6 | 1,680.8 | 1,729.5 | 1,794.1 | 1,835.8 | 1,875.9 |
| Alquiler | 758.8 | 805.8 | 850.1 | 880.0 | 913.3 | 951.4 | 978.9 | 1,001.1 | 1,025.3 | 1,053.4 | 1,084.8 |
| Iluminación y energía | 1,767.8 | 1,781.2 | 1,783.2 | 1,783.7 | 1,781.7 | 1,782.1 | 1,784.3 | 1,786.1 | 2,048.2 | 2,065.2 | 2,063.1 |
| Mantenimiento | 3,399.7 | 3,562.6 | 3,749.3 | 3,864.7 | 3,951.8 | 4,026.5 | 4,203.9 | 4,438.7 | 4,539.2 | 4,693.2 | 4,800.9 |
| Prendas de vestir | 2,877.2 | 2,990.2 | 3,128.9 | 3,206.4 | 3,285.3 | 3,355.9 | 3,420.6 | 3,540.8 | 3,638.9 | 3,703.0 | 3,814.4 |
| Mobiliarios de cocina | 3,071.7 | 3,190.7 | 3,292.4 | 3,430.7 | 3,489.6 | 3,617.3 | 3,713.5 | 3,829.9 | 3,868.2 | 3,908.8 | 3,968.6 |
| Muebles | 1,878.6 | 1,940.5 | 2,034.0 | 2,081.5 | 2,152.3 | 2,195.4 | 2,221.6 | 2,291.5 | 2,336.1 | 2,407.7 | 2,505.8 |
| Otros equipos del hogar | 3,084.3 | 3,162.2 | 3,211.3 | 3,260.8 | 3,314.7 | 3,373.1 | 3,728.2 | 3,791.5 | 3,899.5 | 3,952.3 | 4,002.0 |
| Otros artículos del hogar | 2,274.3 | 2,298.9 | 2,396.0 | 2,444.4 | 2,492.1 | 2,550.0 | 2,608.8 | 2,664.2 | 2,693.7 | 2,703.2 | 2,761.1 |
| Indumentario | 2,596.7 | 2,714.3 | 2,796.4 | 2,879.2 | 3,005.5 | 3,121.3 | 3,201.2 | 3,326.8 | 3,426.7 | 3,546.9 | 3,664.5 |
| Telas y accesorios | 3,639.9 | 3,802.7 | 3,896.3 | 3,972.0 | 4,099.9 | 4,205.0 | 4,342.5 | 4,447.6 | 4,539.9 | 4,726.3 | 4,874.6 |
| Prenda de vestir masculina | 2,542.3 | 2,673.9 | 2,732.3 | 2,814.6 | 2,970.6 | 3,066.8 | 3,157.2 | 3,298.4 | 3,376.3 | 3,494.6 | 3,596.6 |
| Prenda de vestir femenina | 2,277.8 | 2,373.9 | 2,458.1 | 2,548.0 | 2,621.5 | 2,750.5 | 2,798.9 | 2,921.8 | 3,041.1 | 3,115.6 | 3,199.5 |
| Ropa de niños | 3,149.8 | 3,221.3 | 3,295.5 | 3,441.1 | 3,648.2 | 3,823.8 | 3,949.7 | 4,009.7 | 4,092.6 | 4,277.8 | 4,413.3 |
| Servicios de limpieza | 3,345.6 | 3,401.3 | 3,646.4 | 3,699.9 | 3,788.2 | 4,004.9 | 4,061.4 | 4,178.1 | 4,392.9 | 4,653.7 | 5,120.7 |
| Misceláneos | 3,043.1 | 3,106.3 | 3,157.3 | 3,331.8 | 3,479.3 | 3,610.5 | 3,705.0 | 3,753.5 | 4,016.3 | 4,114.0 | 4,207.3 |
| Medicinas | 1,675.5 | 1,709.8 | 1,814.0 | 1,847.1 | 1,898.4 | 2,166.9 | 2,340.3 | 2,460.9 | 2,499.6 | 2,548.8 | 2,716.1 |
| Cosméticos | 3,303.9 | 3,466.5 | 3,535.9 | 3,674.5 | 3,743.5 | 3,828.5 | 3,924.3 | 4,057.1 | 4,113.2 | 4,202.7 | 4,333.6 |
| Recreación & material de lectura | 2,588.6 | 2,777.1 | 2,935.6 | 2,953.7 | 3,187.7 | 3,317.5 | 3,529.1 | 3,565.9 | 3,653.2 | 3,761.1 | 3,822.8 |
| Tabaco | 7,786.1 | 7,799.0 | 7,799.0 | 7,926.1 | 8,647.6 | 8,682.8 | 8,686.4 | 8,686.4 | 8,686.4 | 9,476.4 | 9,482.6 |
| Educación | 3,217.5 | 3,217.5 | 3,217.5 | 3,800.8 | 4,045.9 | 4,109.1 | 4,109.1 | 4,109.1 | 4,846.5 | 4,935.8 | 5,005.8 |
| Transporte | 4,044.6 | 4,047.8 | 4,047.8 | 4,054.1 | 4,054.1 | 4,054.1 | 4,054.1 | 4,055.8 | 4,247.8 | 4,250.5 | 4,252.3 |
| Comunicación | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 740.5 | 991.9 |
| Vehículos | 4,005.3 | 4,007.0 | 4,020.4 | 4,036.3 | 4,080.6 | 4,275.2 | 4,525.0 | 4,552.7 | 5,255.1 | 5,413.1 | 5,525.5 |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

Tabla A.24 Índices de precios al consumidor en el área urbana en el Ecuador (12/12)

(Mayo 1978 - Abril 1979 = 100)

| Bienes y servicios | 1991 | | 1992 | | | | Tasa de Crecimiento mensual (%) | |
|----------------------------------|----------|----------|----------|----------|----------|----------|---------------------------------|-------|
| | Dic. | Ene. | Feb. | Mar. | Abr. | May. | | Jun. |
| Índice general | 4,554.9 | 4,752.4 | 4,916.3 | 5,054.8 | 5,321.6 | 5,518.6 | 5,716.2 | 2.83% |
| Alimentos y bebidas | 6,504.2 | 6,865.6 | 7,088.1 | 7,321.3 | 7,726.4 | 8,071.2 | 8,426.4 | 3.10% |
| Cereales | 7,839.4 | 8,273.5 | 8,822.4 | 9,035.8 | 8,998.3 | 9,135.9 | 9,400.6 | 3.27% |
| Carne | 6,795.9 | 7,273.5 | 7,441.5 | 7,792.4 | 8,094.8 | 8,542.7 | 8,988.9 | 3.17% |
| Pescados y mariscos | 7,793.8 | 8,122.5 | 8,293.6 | 8,618.5 | 9,886.6 | 10,299.5 | 10,589.2 | 3.14% |
| Grasas y aceites comestibles | 5,062.5 | 5,383.0 | 5,522.4 | 5,769.1 | 6,183.4 | 6,528.3 | 6,684.5 | 2.99% |
| Productos lácteos | 5,652.9 | 5,703.4 | 5,755.8 | 6,120.3 | 7,254.9 | 7,380.8 | 7,469.4 | 2.86% |
| Verduras frescas | 5,330.7 | 5,620.6 | 5,546.5 | 5,784.6 | 6,413.1 | 7,833.8 | 10,417.0 | 3.18% |
| Tuberculos | 4,397.9 | 4,574.5 | 4,474.9 | 4,494.2 | 4,576.5 | 4,732.3 | 4,726.2 | 2.75% |
| Frijoles | 5,293.3 | 5,476.2 | 5,798.7 | 6,335.8 | 6,717.2 | 7,025.4 | 7,202.7 | 3.01% |
| Frutas frescas | 5,128.9 | 5,281.4 | 5,118.3 | 5,026.1 | 5,834.2 | 6,468.5 | 6,603.0 | 2.93% |
| Frutas y vegetales en conservas | 2,698.2 | 2,774.1 | 2,832.9 | 2,993.2 | 3,049.1 | 3,257.3 | 3,342.7 | 2.43% |
| Azúcar, sal y especias | 10,367.1 | 11,456.4 | 12,256.0 | 12,420.9 | 12,427.9 | 12,741.4 | 12,956.3 | 3.43% |
| Cafe, te y bebidas gaseosas | 4,306.7 | 4,385.1 | 4,484.9 | 4,672.2 | 5,401.1 | 5,481.5 | 5,528.9 | 2.90% |
| Alimentos para bebés | 2,530.5 | 2,563.6 | 2,619.8 | 2,665.8 | 2,724.0 | 2,799.6 | 2,917.8 | 2.46% |
| Otros productos alimenticios | 6,207.2 | 6,263.2 | 6,350.5 | 6,415.9 | 6,522.8 | 6,541.8 | 6,591.6 | 2.81% |
| Caramelos | 5,078.5 | 5,085.6 | 5,189.3 | 5,353.4 | 5,418.3 | 5,738.6 | 5,979.6 | 2.84% |
| Bebidas alcohólicas | 4,027.0 | 4,075.2 | 4,412.8 | 4,566.0 | 4,628.1 | 4,753.2 | 4,818.6 | 2.71% |
| Alimentos preparados | 12,184.0 | 13,286.1 | 13,642.9 | 14,637.6 | 15,121.8 | 16,384.6 | 17,040.3 | 3.57% |
| Alimentos de la calle | 4,299.5 | 4,476.5 | 4,549.9 | 4,756.8 | 4,966.1 | 5,265.1 | 5,414.3 | 2.79% |
| Vivienda | 1,913.1 | 1,968.8 | 2,042.5 | 2,096.3 | 2,167.2 | 2,227.9 | 2,284.9 | 2.17% |
| Alquiler | 1,109.5 | 1,153.9 | 1,216.4 | 1,256.3 | 1,308.5 | 1,358.6 | 1,414.5 | 1.82% |
| Iluminación y energía | 2,047.6 | 2,049.2 | 2,056.6 | 2,056.9 | 2,057.1 | 2,057.4 | 2,057.7 | 2.14% |
| Mantenimiento | 4,910.2 | 5,064.6 | 5,305.5 | 5,467.6 | 5,713.0 | 5,911.7 | 6,015.4 | 2.86% |
| Prendas de vestir | 3,979.0 | 4,088.2 | 4,174.4 | 4,271.9 | 4,390.7 | 4,470.1 | 4,650.8 | 2.69% |
| Mobiliarios de cocina | 4,006.1 | 4,082.3 | 4,176.1 | 4,313.4 | 4,439.1 | 4,518.8 | 4,577.7 | 2.67% |
| Muebles | 2,600.4 | 2,736.3 | 2,783.6 | 2,868.2 | 2,919.0 | 2,986.8 | 3,048.6 | 2.37% |
| Otros equipos del hogar | 4,154.9 | 4,211.9 | 4,308.5 | 4,364.7 | 4,491.0 | 4,564.4 | 4,622.3 | 2.64% |
| Otros artículos del hogar | 2,807.0 | 2,848.4 | 2,873.7 | 2,917.7 | 2,940.3 | 3,003.5 | 3,083.1 | 2.41% |
| Indumentario | 3,791.9 | 3,875.9 | 3,972.3 | 4,078.5 | 4,226.5 | 4,351.6 | 4,467.1 | 2.63% |
| Telas y accesorios | 5,033.7 | 5,197.5 | 5,411.0 | 5,512.7 | 5,726.9 | 5,851.7 | 6,172.8 | 2.86% |
| Prenda de vestir masculina | 3,701.5 | 3,772.1 | 3,850.6 | 3,963.6 | 4,157.6 | 4,303.0 | 4,422.3 | 2.64% |
| Prenda de vestir femenina | 3,345.1 | 3,421.3 | 3,490.9 | 3,574.8 | 3,642.1 | 3,709.0 | 3,764.5 | 2.49% |
| Ropa de niños | 4,526.9 | 4,617.8 | 4,677.5 | 4,795.7 | 5,012.9 | 5,162.1 | 5,245.6 | 2.71% |
| Servicios de limpieza | 5,218.4 | 5,310.2 | 5,648.4 | 5,872.6 | 5,998.2 | 6,335.1 | 6,460.3 | 2.85% |
| Misceláneos | 4,413.3 | 4,542.5 | 4,724.0 | 4,801.1 | 5,107.6 | 5,257.3 | 5,387.9 | 2.81% |
| Medicinas | 3,229.1 | 3,566.6 | 4,094.0 | 4,115.5 | 4,149.2 | 4,184.6 | 4,397.5 | 2.71% |
| Cosméticos | 4,448.4 | 4,599.8 | 4,811.5 | 4,986.4 | 5,204.5 | 5,338.5 | 5,486.5 | 2.81% |
| Recreación & material de lectura | 4,086.6 | 4,115.1 | 4,170.1 | 4,402.7 | 4,668.2 | 5,086.3 | 5,200.2 | 2.71% |
| Tabaco | 9,482.6 | 10,337.3 | 10,337.3 | 10,398.5 | 11,260.0 | 11,260.0 | 11,260.0 | 3.41% |
| Educación | 5,005.8 | 5,005.8 | 5,005.8 | 5,005.8 | 5,805.9 | 6,054.4 | 6,197.4 | 2.87% |
| Transporte | 4,429.6 | 4,429.6 | 4,440.4 | 4,451.1 | 4,454.0 | 4,466.6 | 4,466.6 | 2.71% |
| Comunicación | 1,001.6 | 1,001.6 | 1,370.0 | 1,370.0 | 1,370.0 | 1,370.0 | 1,370.0 | 1.90% |
| Vehículos | 5,819.5 | 5,936.0 | 6,251.6 | 6,382.4 | 6,512.8 | 6,528.7 | 6,796.7 | 3.04% |

Fuente: Índice de Precios al Consumidor Área Urbana, INEC.

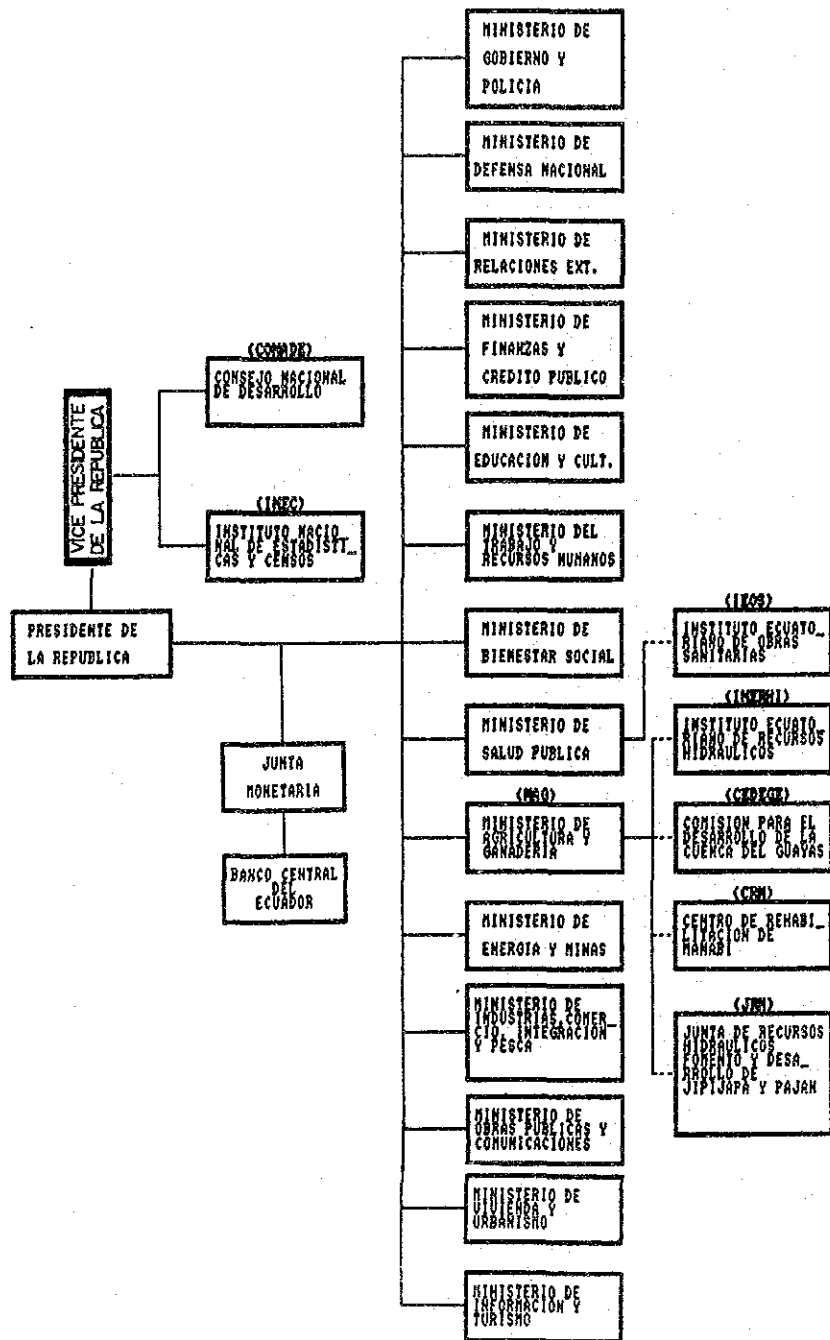
Tabla A.25 Incremento de precios al consumidor del área urbana en el Ecuador

| Bienes y servicios | Tasa promedio de crecimiento anual (%)* | Igual tasa mensual de crecimiento de Junio de los años anteriores | | | | | | | | | | |
|----------------------------------|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 |
| Índice general | 40.40% | 12.50% | 83.89% | 7.31% | 30.42% | 19.84% | 31.79% | 33.89% | 106.37% | 47.66% | 48.99% | 50.40% |
| Alimentos y bebidas | 45.25% | 12.97% | 82.27% | 36.32% | 33.47% | 19.31% | 31.29% | 57.70% | 95.87% | 47.22% | 48.12% | 53.59% |
| Cereales | 48.13% | 13.06% | 110.77% | 48.42% | 38.70% | 15.01% | 18.48% | 64.40% | 158.36% | 36.05% | 31.89% | 47.86% |
| Carne | 46.41% | 18.20% | 54.36% | 47.46% | 42.56% | 20.83% | 22.69% | 44.23% | 102.59% | 43.05% | 69.14% | 64.78% |
| Pescados y mariscos | 46.52% | 11.55% | 37.84% | 37.71% | 36.38% | 29.04% | 45.31% | 61.43% | 82.81% | 60.31% | 47.98% | 76.26% |
| Grasas y aceites comestibles | 43.40% | -0.39% | 60.02% | 70.66% | 38.56% | 9.50% | 31.86% | 55.68% | 85.13% | 31.13% | 66.28% | 54.16% |
| Productos lácteos | 41.81% | 7.06% | 65.34% | 33.91% | 27.25% | 20.52% | 29.40% | 55.90% | 81.89% | 53.38% | 44.83% | 57.45% |
| Verduras frescas | 45.88% | -1.96% | 232.42% | -14.42% | 11.88% | 31.19% | 47.16% | 63.36% | 51.05% | 105.21% | 2.90% | 102.86% |
| Tuberculos | 39.26% | 11.72% | 158.10% | -17.33% | 40.76% | -1.16% | 20.33% | 134.19% | 82.17% | -9.13% | 87.34% | 31.81% |
| Frijoles | 43.68% | 13.84% | 41.85% | 127.84% | 35.90% | 22.21% | 10.80% | 74.72% | 79.27% | 29.49% | 35.34% | 44.95% |
| Frutas frescas | 43.39% | 15.24% | 99.52% | 30.02% | 11.69% | 38.34% | 55.44% | 25.56% | 71.91% | 41.21% | 53.03% | 57.33% |
| Frutas y vegetales en conservas | 34.13% | 6.43% | 25.37% | 29.08% | 13.39% | 24.63% | 43.78% | 52.45% | 79.50% | 31.01% | 29.33% | 55.81% |
| Azúcar, sal y especias | 49.69% | 25.98% | 83.16% | 54.74% | 33.60% | 7.12% | 58.39% | 67.22% | 76.55% | 73.88% | 59.04% | 28.00% |
| Cafe, te y bebidas gaseosas | 42.29% | 7.44% | 29.10% | 68.56% | 30.41% | 55.60% | 32.32% | 52.56% | 54.52% | 46.38% | 49.21% | 49.79% |
| Alimentos para bebés | 35.11% | 15.96% | 27.29% | 33.33% | 18.18% | 29.31% | 15.61% | 32.78% | 87.09% | 63.99% | 46.96% | 31.62% |
| Otros productos alimenticios | 40.76% | 16.95% | 56.86% | 31.17% | 18.94% | 24.46% | 32.38% | 58.52% | 119.81% | 41.46% | 49.78% | 23.44% |
| Caramelos | 40.85% | 8.91% | 29.99% | 67.57% | 12.24% | 29.02% | 37.50% | 59.25% | 108.91% | 18.71% | 45.78% | 59.22% |
| Bebidas alcohólicas | 39.09% | 19.72% | 48.56% | 43.29% | 28.37% | 17.58% | 31.67% | 40.43% | 115.43% | 11.32% | 59.64% | 38.47% |
| Alimentos preparados | 51.98% | 23.39% | 62.38% | 77.06% | 42.07% | 26.23% | 30.64% | 49.44% | 126.40% | 48.29% | 54.34% | 55.22% |
| Alimentos de la calle | 39.91% | 13.97% | 43.48% | 34.35% | 28.78% | 24.08% | 29.76% | 35.79% | 89.41% | 49.31% | 49.26% | 54.06% |
| Vivienda | 29.60% | 13.65% | 19.75% | 24.12% | 15.13% | 16.65% | 26.58% | 34.55% | 48.65% | 48.10% | 45.76% | 39.78% |
| Alquiler | 24.44% | 11.59% | 11.86% | 18.07% | 10.84% | 11.55% | 16.46% | 21.33% | 31.14% | 42.32% | 55.03% | 48.68% |
| Iluminación y energía | 26.55% | 13.93% | 29.29% | 40.08% | 7.47% | 15.90% | 65.61% | 17.74% | 13.98% | 64.83% | 22.67% | 15.46% |
| Mantenimiento | 41.47% | 25.60% | 30.55% | 24.69% | 32.29% | 28.57% | 17.33% | 65.73% | 100.56% | 51.30% | 48.21% | 49.40% |
| Prendas de vestir | 38.33% | 10.76% | 28.86% | 28.17% | 30.53% | 25.40% | 36.92% | 77.95% | 83.70% | 39.08% | 37.35% | 38.59% |
| Mobiliarios de cocina | 37.35% | 22.44% | 48.19% | 27.46% | 21.23% | 22.14% | 24.21% | 58.40% | 69.90% | 52.38% | 48.74% | 26.55% |
| Muebles | 33.13% | 7.79% | 22.61% | 26.59% | 24.02% | 24.93% | 28.77% | 47.17% | 66.55% | 41.20% | 45.19% | 38.86% |
| Otros equipos del hogar | 37.41% | 10.49% | 34.60% | 41.87% | 31.27% | 32.35% | 23.93% | 51.44% | 58.90% | 57.37% | 39.86% | 37.03% |
| Otros artículos del hogar | 33.98% | 19.92% | 48.48% | 21.83% | 28.97% | 26.14% | 26.59% | 72.36% | 53.23% | 29.79% | 34.84% | 20.91% |
| Indumentario | 37.16% | 13.02% | 30.09% | 31.25% | 26.96% | 26.70% | 26.53% | 46.46% | 77.06% | 46.64% | 51.22% | 43.12% |
| Telas y accesorios | 41.35% | 19.17% | 33.82% | 35.15% | 32.74% | 34.22% | 26.82% | 65.08% | 77.11% | 42.71% | 50.84% | 46.80% |
| Prenda de vestir masculina | 37.29% | 13.22% | 30.40% | 29.11% | 26.89% | 27.05% | 27.90% | 46.90% | 72.93% | 50.59% | 50.63% | 44.20% |
| Prenda de vestir femenina | 34.91% | 12.03% | 28.50% | 32.37% | 24.42% | 23.67% | 25.51% | 38.40% | 82.92% | 39.66% | 51.32% | 36.87% |
| Ropa de niños | 38.66% | 14.58% | 32.48% | 30.05% | 32.54% | 28.90% | 27.07% | 49.61% | 79.15% | 51.36% | 52.71% | 37.18% |
| Servicios de limpieza | 40.46% | 8.58% | 36.74% | 29.85% | 30.60% | 24.31% | 27.07% | 50.60% | 82.15% | 60.73% | 48.40% | 61.31% |
| Misceláneos | 39.50% | 11.20% | 41.20% | 22.60% | 37.46% | 21.11% | 37.88% | 44.94% | 80.42% | 48.94% | 51.59% | 49.23% |
| Medicinas | 38.85% | 10.18% | 34.05% | 36.85% | 17.19% | 27.81% | 20.20% | 31.09% | 60.43% | 46.25% | 62.85% | 102.94% |
| Cosméticos | 40.61% | 17.41% | 37.84% | 43.42% | 18.84% | 24.02% | 30.52% | 62.21% | 65.26% | 69.73% | 45.86% | 43.31% |
| Recreación & material de lectura | 38.79% | 16.42% | 40.67% | 17.33% | 36.61% | 23.65% | 29.61% | 60.77% | 58.33% | 46.25% | 49.92% | 56.75% |
| Tabaco | 51.59% | 32.79% | 125.28% | 11.42% | 27.00% | 34.94% | 51.81% | 83.30% | 82.03% | 55.20% | 66.83% | 29.68% |
| Educación | 40.81% | 12.74% | 28.35% | 28.15% | 44.61% | 24.07% | 33.15% | 58.14% | 77.91% | 57.54% | 45.72% | 50.82% |
| Transporte | 34.91% | 0.54% | 49.19% | 0.60% | 89.01% | 2.83% | 62.82% | 3.07% | 130.67% | 30.12% | 65.50% | 10.17% |
| Comunicación | 25.99% | 3.43% | 0.72% | 37.28% | 12.51% | 17.57% | 0.05% | 1.08% | 169.53% | 33.11% | 0.00% | 85.01% |
| Vehículos | 39.27% | 2.87% | 59.54% | 11.46% | 44.02% | 11.50% | 66.21% | 24.38% | 92.46% | 49.63% | 37.46% | 58.98% |

Nota:1. Basado en los datos de la tabla A.24

2.(*) basado en los datos de Junio a Junio.

FIGURAS



Fuente: Direccion de Normas y Consolidacion Financiera de la Contraloria General del Estado

Fig. A.1 Organigrama del Gobierno del Ecuador

GOVERNMENT OF THE REPUBLIC OF ECUADOR
 CENTRO DE REHABILITACION DE MANABI (CRM)
 THE FEASIBILITY STUDY ON THE WATER
 RESOURCES DEVELOPMENT FOR
 CHONE-PORTOVIEJO RIVER BASINS
 JAPAN INTERNATIONAL COOPERATION AGENCY

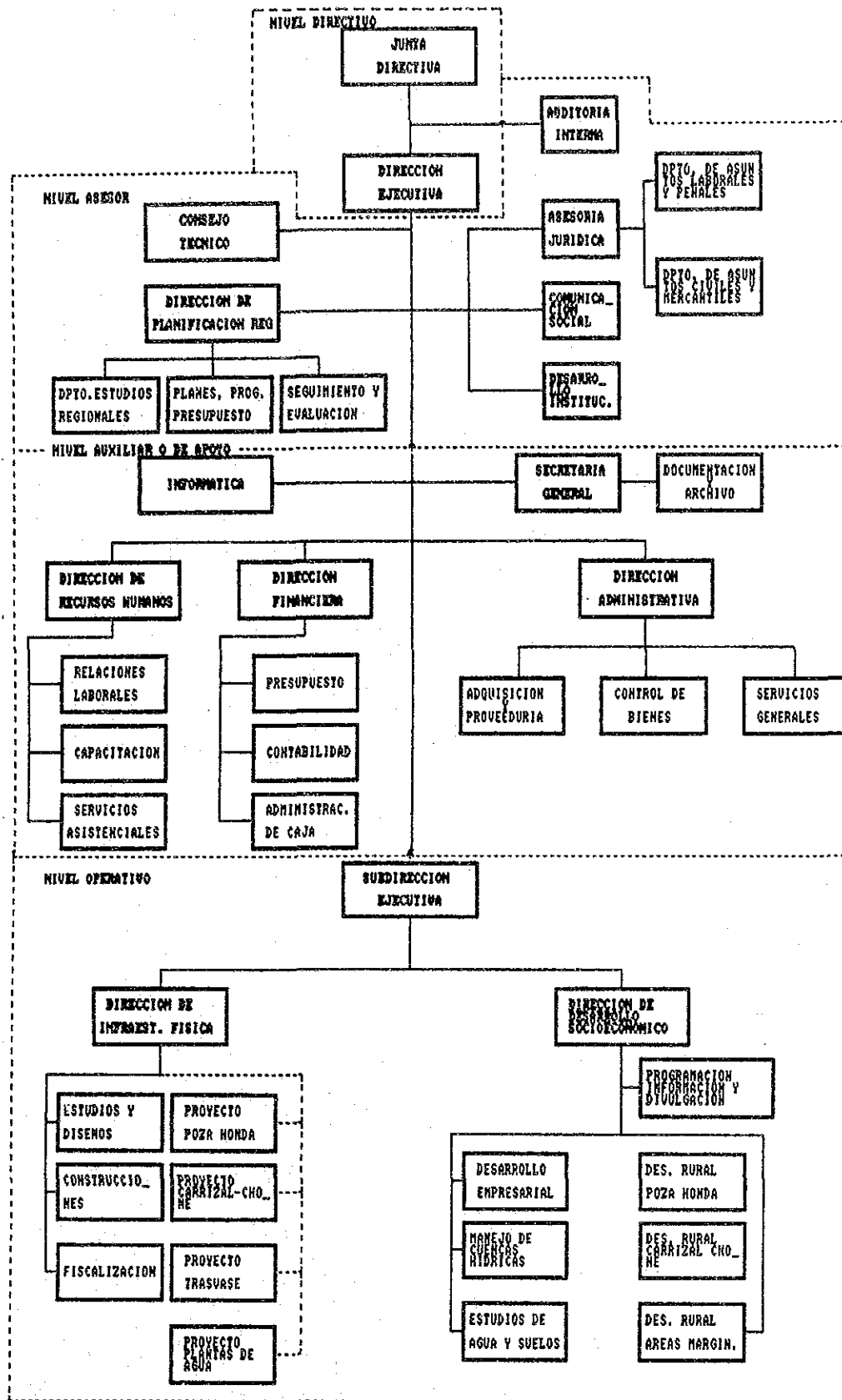


Fig. A.2 Organización actual del CRM

GOVERNMENT OF THE REPUBLIC OF ECUADOR
 CENTRO DE REHABILITACION DE MAMBI (CRM)
 THE FEASIBILITY STUDY ON THE WATER
 RESOURCES DEVELOPMENT FOR
 CHONE-PORTOVIEJO RIVER BASINS

JAPAN INTERNATIONAL COOPERATION AGENCY

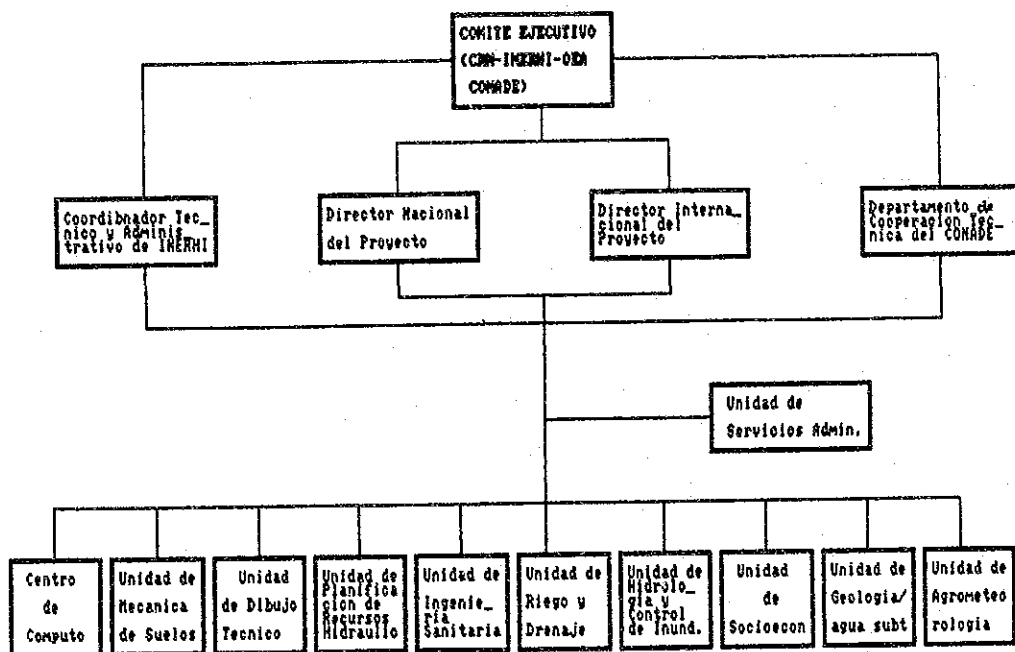


Fig. A.3 Organización del PHIMA

GOVERNMENT OF THE REPUBLIC OF ECUADOR
CENTRO DE REHABILITACION DE MANABI (CRM)
THE FEASIBILITY STUDY ON THE WATER
RESOURCES DEVELOPMENT FOR
CHONE-PORTOVIEJO RIVER BASINS

JAPAN INTERNATIONAL COOPERATION AGENCY

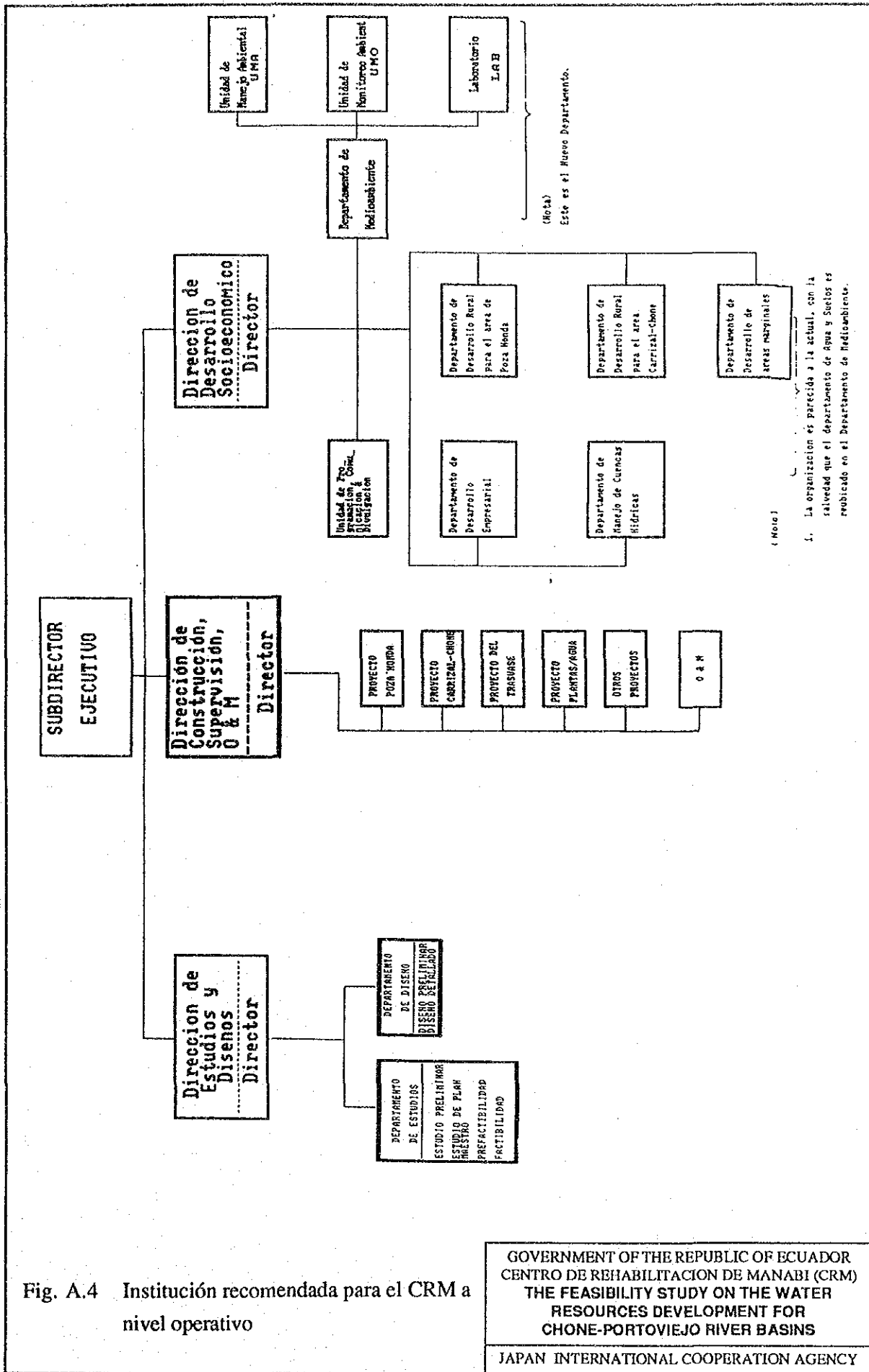


Fig. A.4 Institución recomendada para el CRM a nivel operativo

GOVERNMENT OF THE REPUBLIC OF ECUADOR
 CENTRO DE REHABILITACION DE MANABI (CRM)
 THE FEASIBILITY STUDY ON THE WATER
 RESOURCES DEVELOPMENT FOR
 CHONE-PORTOVIEJO RIVER BASINS
 JAPAN INTERNATIONAL COOPERATION AGENCY

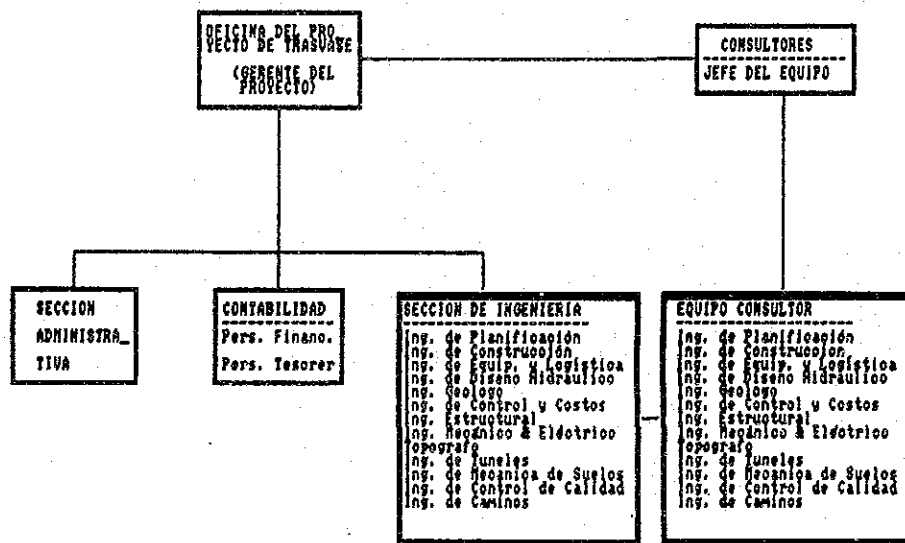


Fig. A.5 Organigrama Técnico-Administrativo para la etapa de diseño detallado, construcción y supervisión

Informe Sectorial B

Hidrología

ANEXO B HIDROLOGIA

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1. INTRODUCCION

Para operar los escasos recursos hídricos en el Area de Estudio, es indispensable encontrar los registros hidrométricos de largo plazo. Existen o existieron 22 medidores de escorrentía en el Area de Estudio. Sin embargo, la mayoría de los registros tomados son fragmentados y limitados. Es imposible adoptarlos directamente para el análisis. Por consiguiente, se aplicarán algunos métodos de simulación para la estimación de la escorrentía superficial a largo plazo, para los ríos de interés.

2. RECOLECCION Y REVISION DE DATOS

El Equipo de Estudios recogió los datos meteo-hidrológicos del Centro de Rehabilitación de Manabí (CRM) y del Instituto Nacional de Meteorología e Hidrología (INAMHI). Las tablas B.1.1 - B.1.3, muestran el resumen de los datos necesarios y disponibles para los análisis meteorológicos e hidrológicos, respectivamente. En cuanto a la localización de las estaciones meteorológicas e hidrológicas, se pueden apreciar en la Fig. B.1.1. La Fig. B.1.2 muestra el mapa de isoyetas para el Area de Estudio.

Utilizando los datos efectivos, las características meteorológicas e hidrológicas medias respectivas para las siguientes cinco estaciones, se resumen y se ilustran en las Fig. B.2.1 - B.2.5.

- Estación Portoviejo;
- Estación Santa Ana;
- Estación Rocafuerte;
- Estación Calceta; y
- Estación La Estancilla

Estos resultados también se han aplicado para el estudio de Riego.

3. INVESTIGACION DE CAMPO

3.1 Meteorología

La mayor parte de las estaciones meteorológicas están en buenas condiciones, no así la operación y mantenimiento de las estaciones pluviométricas, lo que no permite obtener datos más valiosos, tal como se puede observar en las tablas B.1.1 y B.1.3, las mismas que muestran series incompletas de precipitaciones y datos meteorológicos.

3.2 Hidrología

El Equipo de Estudio hizo un reconocimiento de los embalses actuales y propuestos para tener una idea de las condiciones de la vegetación de sus alrededores. En general, las cuencas aportantes continúan siendo deforestadas en forma acelerada.

Se ha podido juzgar que las condiciones de la vegetación aguas arriba, tanto del sitio propuesto para la presa de La Esperanza como en el sitio para la presa Chirijos, son pobres. Por otro lado, el embalse actual de la presa de Poza Honda y el de Daule-Peripa mantienen una condición de vegetación deseable en comparación con la de los embalses antes mencionados. El coeficiente de escorrentía para los dos lugares primeramente mencionados puede ser muy grande, y consecuentemente reportar mayores cargas de sedimentos durante la estación lluviosa.

En cuanto a las estaciones de mediciones de caudales, existe mucha vegetación y monte alrededor de ellas, no obstante las buenas condiciones de los equipos. La curva de gastos necesita, sin embargo, revisarse periódicamente para mejorar su disponibilidad y aplicación.

4. PRECIPITACIONES

4.1 Precipitaciones Mensuales y Diarias

Los datos de precipitaciones, en algunos casos, están discontinuados y en otros faltan, tal como se muestran en la tabla B.1.2. Consecuentemente, deberá complementarse dicha información para así obtener los datos a largo plazo, necesarios para el análisis.

Los registros de las estaciones Dos Bocas y Chamotete son los más largos y significativos. Sin embargo, se puede utilizar el método de correlación para completar los datos faltantes entre las estaciones Chamotete-Zapote, Dos Bocas-Chamotete, Poza Honda-Chamotete, El Carmen-Dos Bocas, y Santa Ana-Poza Honda, respectivamente. Como resultado, puede juzgarse que el patrón de precipitaciones y su magnitud están muy bien correlacionados. Las tablas B.1.4 - B.1.8 muestran la respectiva ecuación de correlación mensual y coeficiente de correlación para los cinco grupos mencionados arriba.

La precipitación mensual de 1973 para la estación de Chamotete se la obtendrá, para el mismo periodo, de los datos de la estación Zapote utilizando la ecuación que se mencionó previamente. Entonces, la precipitación para la estación Chamotete se aplica como la precipitación mensual de largo plazo más apropiada y representativa para la Presa Chirijos propuesta.

En lo que tiene que ver con la Presa La Esperanza, se han utilizado los datos de precipitaciones de la estación Dos Bocas que se encuentra ubicada en la cuenca aportante del río Carrizal, con la excepción de los registros de 2 años perdidos, las precipitaciones de 1975 y 1976, los cuales fueron calculados de la estación Chamotete, utilizando el mismo método.

Similarmente, las precipitaciones mensuales de largo plazo para las estaciones Poza Honda y El Carmen fueron estimadas de

las estaciones Chamotete y Dos Bocas, respectivamente, y van a ser aplicadas para las presas Poza Honda y La Esperanza.

Por otro lado, la precipitación mensual representativa para las siguientes cuencas han sido estimadas utilizando el método Thiessen, tal como se muestra en la Fig. B.1.3.

- Cuenca del Río Chico
- Cuenca del Río Portoviejo (confluencia con el Río Chico)
- Cuenca del Río Portoviejo (estuario)
- Cuenca del Río Carrizal
- Cuenca del Río Chone (confluencia con el Río Carrizal)
- Cuenca del Río Chone (estuario)

Como resultados, las precipitaciones mensuales -observadas y estimadas- de largo plazo para las estaciones mencionadas arriba, se han resumido en las tablas B.1.8 - B.1.19. Más aún, las precipitaciones anuales promedio para dichas estaciones, corresponden a las isoyetas en la Fig. B.1.2.

4.2 Precipitación Probable

Basado en los registros mensuales de precipitaciones, se ha estimado la precipitación con probabilidad de ocurrencia de por lo menos una (1) vez en cinco (5) años, para las siguientes estaciones:

- Estación Alajuela;
- Estación Calceta;
- Estación La Estancilla
- Estación Pechiche;
- Estación Portoviejo;
- Estación Rocafuerte; y
- Estación Santa Ana.

La tabla B.1.20 muestra el resumen de los resultados calculados, los cuales se han aplicado para el estudio de riego.

5. HIDROLOGIA

5.1 Estimación de la Escorrentía Mensual a Largo Plazo

En el estudio, se define la escorrentía como el "aporte neto" a los reservorios, descontando las pérdidas por filtración y evaporación, conjuntamente con errores de observación.

Tomando en cuenta las características de "estacionalidad" de la precipitación-escorrentía, el Equipo de Estudio estimó, haciendo uso del modelo de simulación del Tanque, la escorrentía superficial para un periodo de 21 años (Octubre 1970-Septiembre 1990) de los siguientes 4 ríos:

- Río Carrizal;
- Río Portoviejo;
- Río Chico; y
- Río Daule-Peripa

La estructura del modelo del Tanque para el sitio respectivo fue estimada sobre la base de los datos de precipitaciones mensuales y diarias, mencionados previamente, y de los datos de escorrentía diaria y mensual observados, atendiendo a los siguientes parámetros.

- Coeficiente de Escorrentía Anual;
- Patrón Hidrográfico;
- Flujo Base; y
- Escorrentía Anual Total

Utilizando tal estructura, la respectiva escorrentía superficial mensual de largo plazo de los previamente mencionados periodos, ha sido estimada para los siguientes lugares.

- El sitio propuesto de Presa La Esperanza;
- El sitio propuesto de Presa Chirijos;
- El actual sitio de Presa Poza Honda;
- El actual sitio de Presa Daule-Peripa; y
- La estación de mediciones de caudales Santa Ana sobre el Río Portoviejo (sitio de la nueva derivación).

Como resultado, en las tablas B.2.1 - B.2.5 se muestran los datos estimados de la escorrentía superficial mensual a largo plazo, cuyos valores se han aplicado a los estudios de planificación y manejo.

Asimismo, utilizando los mismos modelos, se han estimado las escorrentías periódicas de los seis sitios que a continuación se darán, en los ríos Portoviejo y Chone. Las tablas B.2.6 - B.2.11 muestran los valores estimados de las escorrentías que han sido empleados en el estudio medioambiental y de piscinas camaroneras.

- Río Chico (confluencia con el río Portoviejo);
- Río Portoviejo (confluencia con el río Chico);
- Río Portoviejo (estuario)
- Río Carrizal (confluencia con el río Chone);
- Río Chone (confluencia con el Carrizal); y
- Río Chone (estuario)

5.2 Caudales Picos

Para los propósitos de control de crecientes, las descargas picos se han estimado en la etapa del Plan Maestro para los siguientes sitios de presa: La Esperanza (propuesto), Chirijos (propuesto), Poza Honda (actual) y Daule Peripa (actual); tal como se muestra a continuación:

| Período de Retorno (años) | Descarga Pico (m ³ /s) | | | |
|---------------------------|-----------------------------------|----------|------------|--------------|
| | La Esperanza | Chirijos | Poza Honda | Daule-Peripa |
| 2,3 | 52,5 | 31,9(*) | 39,2 | 243,9 |
| 5 | 192,9 | 99,8 | 133,2 | 713,0 |
| 10 | 271,3 | 136,1 | 185,1 | 952,8 |
| 25 | 384,6 | 189,2 | 260,2 | 1.295,1 |
| 50 | 479,6 | 231,0 | 320,5 | 1.567,9 |
| 100 | 577,9 | 275,1 | 383,8 | 1.851,6 |
| 200 | | 300,0 | | |
| 500 | 759,4 | 356,2 | 499,0 | 2.366,7 |
| 1.000 | | 417,1 | | |
| 10.000 | | 556,4 | | |

(*) Caudales recalculados por el motivo del diseño del aliviadero de la presa Chirijos.

6. CARGA DE SEDIMENTOS

El muestreo y análisis de la carga de sedimentos en el Area de Estudio se ha llevado a efecto previamente en el estudio de Plan Maestro. Los resultados son tal como se muestran en la tabla B.3.1.

La producción de sedimentos tanto para el sitio de Presa La Esperanza como para el sitio de Presa Chirijos (propuestos), así como también de los sitios actuales de las Presas Daule Peripa y Poza Honda, pueden ser estimados utilizando la curva modificada de factor de cedencia vs. área de la cuenca de la Sociedad Americana de Ingenieros Civiles, tal como se muestra en la Fig. B.3.1.

La producción de sedimentos de los sitios antes mencionados se estiman y se muestran según la tabla B.3.2.

TABLAS

Tabla B.1.2 Resumen de la recolección de datos de Hidrología

| Nombre del Río | Nombre de la Estación | Descripción | 1970 | | | | | | | | | | | | 1980 | | | | | | | | | | | |
|----------------|-----------------------|-----------------|-------|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|--|--|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | | |
| Carrizal | Dos Bocas | Precip. diaria | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| | Zapote | " | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| | Calceta | " | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| Chico | Calceta | Caudal diario | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| | J.M. Chamotete | Precip. diaria | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| Portoviejo | Alajuela | Caudal diario | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| | Poza Honda | Precip. diaria | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| Daule | Bellaflor | " | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| | Honorato Vasquez | Caudal diario | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| Chone | El Carmen | Precip. diaria | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| | Pichincha | Caudal diario | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| | Balzar | " | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| Boyaca | Chone | Precip. mensual | ===== | | | | | | | | | | | | | | | | | | | | | | | |
| | Boyaca | " | ===== | | | | | | | | | | | | | | | | | | | | | | | |

Fuente: CRM E INAMHI

Table B.1.4 Correlación de Precipitación Mensual entre las Estaciones de Chamotete y Zapote.

| Mes | A | B | Coefficiente de Correlación | Ecuación |
|------|-------|----------|-----------------------------|--------------------------|
| Jan. | 1.221 | -102.326 | 0.9257309 | $MRc = A \times MRz + B$ |
| Feb. | 0.833 | - 0.231 | 0.8061507 | -do- |
| Mar. | 0.659 | + 50.499 | 0.8367529 | -do- |
| Apr. | 0.278 | +122.812 | 0.5711916 | -do- |
| May | 0.331 | + 42.789 | 0.7072776 | -do- |
| June | 0.614 | + 14.898 | 0.9780564 | -do- |
| July | 0.128 | + 7.195 | 0.4626409 | -do- |
| Aug. | 0.571 | + 1.301 | 0.9872332 | -do- |
| Sep. | 1.244 | - 3.877 | 0.9588876 | -do- |
| Oct. | 0.557 | + 0.523 | 0.6756162 | -do- |
| Nov. | 0.492 | + 0.830 | 0.9672359 | -do- |
| Dec. | 0.657 | + 4.590 | 0.7918608 | -do- |

Nota: MRc = Precipitación Mensual de la Estación Chamotete

MRz = Precipitación Mensual de la Estación Zapote

Tabla B.1.5 Correlación de Precipitación Mensual entre las Estaciones de Dos Bocas y Chamotete.

| Mes | A | B | Coficiente de Correlación | Ecuación |
|------|-------|----------|---------------------------|----------------------------|
| Jan. | 0.846 | + 99.667 | 0.9194039 | $MR_b = A \times MR_c + B$ |
| Feb. | 0.907 | +132.394 | 0.7662299 | -do- |
| Mar. | 0.988 | + 81.659 | 0.7463731 | -do- |
| Apr. | 0.966 | + 60.018 | 0.7884887 | -do- |
| May | 1.198 | + 8.960 | 0.8874130 | -do- |
| June | 1.229 | + 3.147 | 0.9471810 | -do- |
| July | 1.336 | + 7.798 | 0.9521219 | -do- |
| Aug. | 1.430 | - 0.560 | 0.9968758 | -do- |
| Sep. | 0.744 | + 11.579 | 0.8520116 | -do- |
| Oct. | 1.116 | + 6.295 | 0.9574764 | -do- |
| Nov. | 2.263 | - 2.593 | 0.9926600 | -do- |
| Dec. | 1.128 | + 28.396 | 0.9428565 | -do- |

Note: MR_b = Precipitación Mensual de la Estación Dos Bocas

MR_c = Precipitación Mensual de la Estación Chamotete

Tabla B.1.6 Correlación de Precipitación Mensual entre las Estaciones de Poza Honda y Chamotete.

| Mes | A | B | Coefficiente de Correlación | Ecuación |
|------|-------|----------|-----------------------------|---------------------------|
| Jan. | 0.713 | + 68.325 | 0.8887884 | $MR_p = A \times MRC + B$ |
| Feb. | 0.955 | + 33.044 | 0.8515689 | -do- |
| Mar. | 0.718 | + 71.381 | 0.6700331 | -do- |
| Apr. | 1.099 | + 12.931 | 0.8629314 | -do- |
| May | 0.881 | + 6.420 | 0.9359559 | -do- |
| June | 1.428 | + 0.225 | 0.9869399 | -do- |
| July | 0.992 | - 0.159 | 0.9994143 | -do- |
| Aug. | 0.460 | + 5.831 | 0.7827715 | -do- |
| Sep. | 1.012 | + 0.899 | 0.9904862 | -do- |
| Oct. | 0.973 | + 1.808 | 0.9963284 | -do- |
| Nov. | 1.397 | - 1.015 | 0.9956578 | -do- |
| Dec. | 0.830 | + 9.066 | 0.9804869 | -do- |

Note: MR_p = Precipitación Mensual de la Estación Poza Honda

MRC = Precipitación Mensual de la Estación Chamotete

Tabla B.1.7 Correlación de Precipitación Mensual entre las Estaciones de El Carmen y Dos Bocas.

| Mes | A | B | Coefficiente de Correlación | Ecuación |
|------|-------|----------|-----------------------------|--------------------------|
| Jan. | 1.183 | +152.848 | 0.8071148 | $MRC = A \times MRb + B$ |
| Feb. | 0.695 | +254.115 | 0.7640312 | -do- |
| Mar. | 0.649 | +325.728 | 0.5973226 | -do- |
| Apr. | 0.815 | +240.560 | 0.6505598 | -do- |
| May | 1.399 | +112.449 | 0.8334677 | -do- |
| June | 1.428 | + 64.781 | 0.8747770 | -do- |
| July | 1.394 | + 4.927 | 0.9935570 | -do- |
| Aug. | 0.680 | + 31.236 | 0.8637201 | -do- |
| Sep. | 2.445 | + 15.038 | 0.9638721 | -do- |
| Oct. | 3.312 | + 9.648 | 0.9827773 | -do- |
| Nov. | 1.467 | + 13.765 | 0.9882461 | -do- |
| Dec. | 1.423 | + 61.575 | 0.9359899 | -do- |

Note: MRC = Precipitación Mensual de la Estación El Carmen

MRb = Precipitación Mensual de la Estación Dos Bocas

Tabla B.1.8 Correlación de Precipitación Mensual entre las Estaciones de Santa Ana y Poza honda.

| Mes | A | B | Coefficiente de Correlación | Ecuación |
|------|-------|----------|-----------------------------|--------------------------|
| Jan. | 0.830 | + 6.545 | 0.7166466 | $MRs = A \times MRp + B$ |
| Feb. | 0.351 | + 67.105 | 0.5330476 | -do- |
| Mar. | 0.432 | + 88.906 | 0.6747541 | -do- |
| Apr. | 0.287 | + 81.788 | 0.4337642 | -do- |
| May | 0.928 | - 1.331 | 0.7164699 | -do- |
| June | 0.755 | + 2.581 | 0.7541117 | -do- |
| July | 0.690 | - 2.934 | 0.9798644 | -do- |
| Aug. | 1.180 | - 1.086 | 0.9523757 | -do- |
| Sep. | 0.390 | + 3.087 | 0.9611838 | -do- |
| Oct. | 0.396 | - 1.731 | 0.9827154 | -do- |
| Nov. | 0.422 | + 4.543 | 0.8432806 | -do- |
| Dec. | 0.899 | - 10.029 | 0.9453020 | -do- |

Nota: MRs = Precipitación Mensual de la Estación Santa Ana

MRp = Precipitación Mensual de la Estación de Poza Honda

Tabla B.1.9 Precipitación mensual observadas y estimadas para la Estación Chamotete

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1970/71 | 18.7 | 96.6 | 243.0 | 518.2 | 72.6 | 6.7 | 39.3 | 4.0 | 0.7 | 3.6 | 6.2 | 6.7 | 1016.3 |
| 1971/72 | 13.9 | 99.4 | 192.3 | 424.4 | 130.5 | 115.8 | 283.1 | 18.6 | 44.6 | 59.8 | 8.8 | 29.0 | 1420.2 |
| 1972/73 | 166.8 | 520.9 | 357.5 | 353.6 | 210.8 | 235.9 | 47.7 | 15.9 | 2.4 | 6.1 | 1.1 | 0.8 | 1919.5 |
| 1973/74 | 30.3 | 40.7 | 419.8 | 112.7 | 72.6 | 6.7 | 38.3 | 1.1 | 0.0 | 7.3 | 3.0 | 9.6 | 742.1 |
| 1974/75 | 57.2 | 519.6 | 455.7 | 355.6 | 191.1 | 34.1 | 33.1 | 9.2 | 2.4 | 5.6 | 31.6 | 3.1 | 1698.3 |
| 1975/76 | 45.7 | 529.7 | 375.3 | 411.0 | 324.4 | 194.2 | 124.5 | 32.8 | 5.3 | 3.7 | 0.0 | 1.4 | 2048.0 |
| 1976/77 | 45.4 | 278.0 | 318.4 | 343.7 | 180.0 | 11.7 | 16.4 | 0.0 | 0.6 | 5.6 | 2.2 | 0.0 | 1202.0 |
| 1977/78 | 60.7 | 175.4 | 232.6 | 203.1 | 79.8 | 80.7 | 3.0 | 0.4 | 0.0 | 0.4 | 0.3 | 0.0 | 836.4 |
| 1978/79 | 4.8 | 124.7 | 192.4 | 189.8 | 109.6 | 38.9 | 27.6 | 7.1 | 0.0 | 3.6 | 4.4 | 0.0 | 702.9 |
| 1979/80 | 3.1 | 53.8 | 108.0 | 203.7 | 251.3 | 92.5 | 3.8 | 0.0 | 1.3 | 0.0 | 0.0 | 5.4 | 722.9 |
| 1980/81 | 3.8 | 82.3 | 354.4 | 114.5 | 161.2 | 0.0 | 1.8 | 8.0 | 1.3 | 0.8 | 0.0 | 0.0 | 728.1 |
| 1981/82 | 19.6 | 85.6 | 166.7 | 123.7 | 35.2 | 34.5 | 2.8 | 22.8 | 0.0 | 9.1 | 173.8 | 147.7 | 821.5 |
| 1982/83 | 362.1 | 340.5 | 346.5 | 351.7 | 436.1 | 291.1 | 196.6 | 311.7 | 156.0 | 199.7 | 0.9 | 3.1 | 2996.0 |
| 1983/84 | 44.7 | 19.9 | 489.4 | 436.0 | 222.7 | 66.8 | 11.7 | 2.4 | 1.1 | 1.3 | 2.6 | 0.0 | 1298.6 |
| 1984/85 | 99.4 | 80.0 | 150.0 | 218.2 | 196.9 | 46.9 | 46.3 | 1.2 | 0.3 | 1.1 | 0.3 | 0.0 | 840.6 |
| 1985/86 | 54.1 | 496.2 | 98.2 | 60.8 | 164.9 | 13.4 | 4.9 | 10.8 | 0.6 | 0.7 | 17.2 | 1.6 | 923.4 |
| 1986/87 | 24.0 | 227.2 | 481.4 | 215.9 | 380.7 | 128.0 | 4.6 | 6.6 | 43.6 | 3.5 | 7.4 | 11.3 | 1534.2 |
| 1987/88 | 41.0 | 125.8 | 320.7 | 77.9 | 236.9 | 94.6 | 4.1 | 4.5 | 3.6 | 8.5 | 0.0 | 19.0 | 936.6 |
| 1988/89 | 33.5 | 577.1 | 326.2 | 217.3 | 208.8 | 25.3 | 11.3 | 3.1 | 0.7 | 26.6 | 10.3 | 0.5 | 1440.7 |
| 1989/90 | 20.9 | 71.9 | 81.6 | 209.8 | 199.1 | 1.7 | 28.4 | 4.3 | 0.0 | 0.2 | 0.2 | 0.0 | 618.1 |
| 1990/91 | 47.8 | | | | | | | | | | | | |
| Media | 57.0 | 227.3 | 285.5 | 257.1 | 193.3 | 76.0 | 46.5 | 23.2 | 13.2 | 17.4 | 13.5 | 12.0 | 1222.3 |
| Máxima | 362.1 | 577.1 | 489.4 | 518.2 | 436.1 | 291.1 | 283.1 | 311.7 | 156.0 | 199.7 | 173.8 | 147.7 | 2996.0 |
| Mínima | 3.1 | 19.9 | 81.6 | 60.8 | 35.2 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 618.1 |

Tabla B.1.10 Precipitaciones mensuales observadas y estimadas para la Estación Dos Bocas

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1970/71 | 59.4 | 163.3 | 296.2 | 604.1 | 146.2 | 45.6 | 27.0 | 6.0 | 2.8 | 83.4 | 3.0 | 3.0 | 1440.0 |
| 1971/72 | 97.0 | 162.7 | 478.8 | 458.2 | 200.2 | 102.4 | 298.3 | 142.6 | 57.0 | 35.3 | 10.2 | 83.8 | 2126.5 |
| 1972/73 | 175.2 | 541.7 | 455.7 | 440.2 | 303.1 | 252.9 | 52.0 | 9.2 | 11.2 | 47.2 | 3.4 | 0.0 | 2291.8 |
| 1973/74 | 47.3 | 135.4 | 312.8 | 161.7 | 85.2 | 12.0 | 68.6 | 0.0 | 0.0 | 12.5 | 11.2 | 17.2 | 863.9 |
| 1974/75 | 102.5 | 539.4 | 545.6 | 433.1 | 244.6 | 49.8 | 43.9 | 28.2 | 2.7 | 15.9 | 41.6 | 4.4 | 2051.7 |
| 1975/76 | 79.8 | 548.0 | 472.9 | 487.8 | 373.5 | 241.5 | 156.3 | 51.6 | 7.1 | 14.2 | 0.0 | 0.6 | 2433.3 |
| 1976/77 | 44.0 | 405.0 | 370.0 | 501.5 | 88.3 | 38.5 | 57.9 | 23.6 | 3.2 | 38.2 | 14.8 | 0.0 | 1585.0 |
| 1977/78 | 48.5 | 224.0 | 263.0 | 334.5 | 104.5 | 195.0 | 6.8 | 0.9 | 0.0 | 9.0 | 6.6 | 0.0 | 1192.8 |
| 1978/79 | 14.3 | 325.8 | 209.1 | 169.4 | 219.4 | 119.9 | 30.5 | 10.0 | 0.0 | 9.7 | 4.0 | 0.0 | 1112.1 |
| 1979/80 | 2.8 | 164.8 | 280.8 | 201.3 | 297.5 | 36.9 | 4.7 | 0.0 | 1.3 | 0.0 | 0.3 | 8.3 | 998.7 |
| 1980/81 | 37.0 | 135.6 | 538.8 | 288.4 | 270.5 | 0.0 | 11.5 | 53.0 | 5.1 | 8.8 | 5.0 | 5.9 | 1359.6 |
| 1981/82 | 88.9 | 136.4 | 219.0 | 202.8 | 160.3 | 33.5 | 21.5 | 11.0 | 0.0 | 12.0 | 197.8 | 332.1 | 1415.3 |
| 1982/83 | 457.0 | 493.7 | 381.6 | 659.1 | 477.5 | 375.2 | 334.0 | 421.6 | 227.4 | 166.4 | 13.4 | 10.2 | 4017.1 |
| 1983/84 | 87.5 | 22.4 | 554.1 | 512.4 | 295.3 | 65.9 | 4.0 | 3.0 | 1.0 | 13.9 | 9.2 | 1.4 | 1570.1 |
| 1984/85 | 128.0 | 127.1 | 214.6 | 291.9 | 176.9 | 12.4 | 33.8 | 9.4 | 0.0 | 12.4 | 6.6 | 0.0 | 1013.1 |
| 1985/86 | 155.2 | 426.9 | 215.1 | 192.0 | 348.6 | 25.0 | 9.2 | 22.2 | 0.3 | 12.1 | 70.5 | 1.0 | 1478.1 |
| 1986/87 | 67.4 | 341.3 | 727.8 | 555.8 | 497.9 | 203.4 | 8.8 | 16.6 | 50.4 | 14.2 | 14.6 | 23.0 | 2521.2 |
| 1987/88 | 79.4 | 299.9 | 584.7 | 101.0 | 206.8 | 227.2 | 30.8 | 24.1 | 4.6 | 17.9 | 24.0 | 22.4 | 1622.8 |
| 1988/89 | 65.6 | 542.8 | 423.3 | 144.9 | 365.5 | 34.9 | 30.4 | 11.9 | 0.0 | 23.0 | 10.6 | 0.0 | 1652.9 |
| 1989/90 | 71.2 | 112.8 | 227.4 | 144.6 | 106.5 | 11.0 | 38.1 | 13.6 | 0.0 | 0.5 | 11.6 | 0.1 | 737.4 |
| 1990/91 | 195.1 | | | | | | | | | | | | |
| Media | 100.1 | 292.4 | 388.6 | 344.2 | 248.4 | 104.2 | 63.4 | 42.9 | 18.7 | 27.3 | 22.9 | 25.7 | 1674.2 |
| Máxima | 457.0 | 548.0 | 727.8 | 659.1 | 497.9 | 375.2 | 334.0 | 421.6 | 227.4 | 166.4 | 197.8 | 332.1 | 4017.1 |
| Mínima | 2.8 | 22.4 | 209.1 | 101.0 | 85.2 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 737.4 |

Tabla B1.11 Precipitaciones mensuales observadas y estimadas para la Estación Poza Honda

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Anual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|--------|
| 1970/71 | 24.6 | 137.2 | 265.2 | 443.4 | 92.7 | 12.3 | 35.4 | 3.8 | 6.2 | 10.5 | 7.8 | 8.3 | 1047.4 |
| 1971/72 | 20.6 | 139.2 | 216.7 | 376.9 | 156.3 | 108.4 | 253.3 | 18.3 | 26.4 | 67.4 | 10.4 | 39.5 | 1433.4 |
| 1972/73 | 147.5 | 439.5 | 374.6 | 325.9 | 244.6 | 214.2 | 42.9 | 15.6 | 6.9 | 13.1 | 2.9 | 0.1 | 1827.8 |
| 1973/74 | 34.2 | 97.3 | 434.1 | 152.5 | 92.7 | 12.3 | 34.5 | 0.9 | 5.8 | 14.3 | 4.7 | 12.4 | 895.7 |
| 1974/75 | 56.6 | 438.6 | 468.4 | 326.7 | 222.9 | 36.5 | 29.8 | 9.0 | 6.9 | 12.6 | 32.6 | 3.3 | 1643.9 |
| 1975/76 | 47.0 | 445.8 | 391.6 | 366.4 | 369.4 | 177.5 | 111.5 | 32.4 | 8.3 | 10.6 | 0.0 | 0.9 | 1961.4 |
| 1976/77 | 46.8 | 110.6 | 269.3 | 360.1 | 200.3 | 16.7 | 14.9 | 0.0 | 0.0 | 12.6 | 3.9 | 0.0 | 1035.2 |
| 1977/78 | 66.5 | 124.8 | 125.2 | 188.6 | 100.6 | 77.5 | 2.9 | 0.2 | 0.0 | 1.3 | 0.7 | 0.0 | 688.3 |
| 1978/79 | 5.9 | 157.7 | 308.1 | 150.2 | 119.1 | 34.6 | 24.9 | 6.9 | 0.0 | 10.5 | 6.1 | 0.0 | 824.0 |
| 1979/80 | 11.6 | 109.5 | 100.7 | 173.4 | 240.7 | 69.8 | 9.8 | 0.3 | 2.0 | 0.0 | 1.2 | 1.0 | 720.0 |
| 1980/81 | 34.7 | 87.0 | 551.3 | 276.4 | 292.2 | 5.1 | 5.5 | 7.0 | 11.5 | 8.1 | 4.1 | 0.4 | 1283.3 |
| 1981/82 | 31.7 | 187.5 | 111.8 | 153.1 | 70.3 | 36.6 | 7.2 | 20.5 | 0.0 | 12.7 | 170.5 | 205.6 | 1007.5 |
| 1982/83 | 311.0 | 371.5 | 386.2 | 531.8 | 521.5 | 262.3 | 180.8 | 309.4 | 63.8 | 207.4 | 9.1 | 6.3 | 3161.1 |
| 1983/84 | 49.6 | 12.2 | 450.8 | 301.6 | 250.4 | 6.2 | 21.4 | 3.5 | 0.0 | 22.6 | 3.8 | 0.2 | 1122.3 |
| 1984/85 | 85.8 | 101.1 | 157.2 | 150.6 | 99.2 | 30.8 | 22.8 | 1.1 | 5.0 | 0.4 | 0.3 | 0.1 | 654.4 |
| 1985/86 | 77.1 | 377.3 | 142.8 | 150.8 | 164.1 | 57.7 | 1.2 | 8.6 | 0.2 | 0.8 | 28.1 | 0.0 | 1008.7 |
| 1986/87 | 12.0 | 276.3 | 478.5 | 238.5 | 442.4 | 163.5 | 0.7 | 0.9 | 76.2 | 19.9 | 3.1 | 0.0 | 1712.0 |
| 1987/88 | 30.3 | 165.3 | 377.6 | 133.6 | 215.9 | 93.9 | 5.0 | 4.3 | 1.4 | 11.0 | 1.4 | 33.5 | 1073.2 |
| 1988/89 | 54.5 | 551.3 | 317.6 | 204.2 | 245.6 | 36.2 | 14.7 | 3.5 | 0.0 | 46.8 | 7.7 | 2.2 | 1484.3 |
| 1989/90 | 16.2 | 166.1 | 171.4 | 115.9 | 365.0 | 14.6 | 16.1 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 877.0 |
| 1990/91 | 20.3 | | | | | | | | | | | | |
| Media | 56.4 | 224.8 | 305.0 | 256.0 | 225.3 | 73.3 | 41.8 | 22.9 | 11.0 | 24.1 | 14.9 | 15.7 | 1273.0 |
| Máxima | 311.0 | 551.3 | 551.3 | 531.8 | 521.5 | 262.3 | 253.3 | 309.4 | 76.2 | 207.4 | 170.5 | 205.6 | 3161.1 |
| Mínima | 5.9 | 12.2 | 100.7 | 115.9 | 70.3 | 5.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 654.4 |

Tabla B1.12 Precipitaciones mensuales observadas y estimadas para la Estación El Carmen

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1970/71 | 146.1 | 346.0 | 367.6 | 518.0 | 732.9 | 317.0 | 129.9 | 42.6 | 35.3 | 21.9 | 285.9 | 18.2 | 2961.4 |
| 1971/72 | 65.8 | 345.3 | 367.2 | 636.5 | 614.0 | 392.5 | 211.0 | 420.8 | 128.2 | 154.4 | 126.6 | 28.7 | 3491.0 |
| 1972/73 | 180.8 | 793.7 | 630.6 | 621.5 | 599.3 | 536.5 | 425.9 | 77.4 | 37.5 | 42.4 | 166.0 | 18.8 | 4130.4 |
| 1973/74 | 61.6 | 313.0 | 348.2 | 528.7 | 372.3 | 231.6 | 81.9 | 100.6 | 31.2 | 15.0 | 51.0 | 30.2 | 2165.3 |
| 1974/75 | 86.1 | 791.0 | 629.0 | 679.8 | 593.5 | 454.6 | 135.9 | 66.1 | 50.4 | 21.6 | 62.3 | 74.8 | 3645.1 |
| 1975/76 | 67.8 | 801.1 | 635.0 | 632.6 | 638.1 | 635.0 | 409.6 | 222.8 | 66.3 | 32.4 | 56.7 | 13.8 | 4211.2 |
| 1976/77 | 62.4 | 459.7 | 403.3 | 750.1 | 290.3 | 64.2 | 170.8 | 16.0 | 60.9 | 70.7 | 37.5 | 23.0 | 2408.9 |
| 1977/78 | 159.0 | 319.0 | 630.9 | 497.6 | 497.6 | 389.3 | 25.6 | 35.0 | 14.1 | 30.9 | 23.2 | 24.9 | 2647.1 |
| 1978/79 | 88.8 | 424.7 | 441.4 | 443.1 | 360.0 | 227.0 | 165.7 | 12.4 | 21.9 | 110.8 | 51.7 | 6.1 | 2353.6 |
| 1979/80 | 31.5 | 300.4 | 405.8 | 486.0 | 570.3 | 222.6 | 63.6 | 4.2 | 30.5 | 3.0 | 77.2 | 21.6 | 2216.7 |
| 1980/81 | 93.2 | 206.4 | 652.3 | 725.5 | 341.5 | 17.5 | 9.4 | 48.5 | 22.4 | 45.0 | 14.5 | 11.0 | 2187.2 |
| 1981/82 | 191.3 | 529.7 | 449.1 | 259.2 | 322.5 | 371.3 | 11.0 | 43.2 | 14.9 | 62.0 | 672.1 | 503.6 | 3429.9 |
| 1982/83 | 684.0 | 815.5 | 566.6 | 692.2 | 694.0 | 612.4 | 533.6 | 597.1 | 171.7 | 429.7 | 100.1 | 81.8 | 5978.7 |
| 1983/84 | 123.9 | 113.2 | 748.1 | 792.5 | 622.5 | 97.6 | 28.7 | 21.5 | 0.0 | 77.0 | 11.6 | 22.7 | 2659.3 |
| 1984/85 | 421.0 | 356.8 | 350.9 | 360.0 | 140.0 | 146.9 | 220.5 | 17.0 | 20.1 | 22.5 | 9.4 | 12.0 | 2077.1 |
| 1985/86 | 271.2 | 614.0 | 280.5 | 731.8 | 453.2 | 147.4 | 77.9 | 35.9 | 31.4 | 44.6 | 243.1 | 15.2 | 2946.2 |
| 1986/87 | 63.0 | 702.7 | 806.0 | 533.0 | 597.9 | 570.0 | 221.5 | 3.3 | 127.2 | 25.3 | 57.9 | 15.1 | 3722.9 |
| 1987/88 | 191.2 | 662.5 | 482.5 | 238.5 | 557.6 | 348.1 | 39.3 | 55.0 | 59.1 | 28.1 | 32.3 | 21.3 | 2715.5 |
| 1988/89 | 78.8 | 795.0 | 631.4 | 600.4 | 358.7 | 623.8 | 114.6 | 47.3 | 39.3 | 15.0 | 85.8 | 29.3 | 3419.4 |
| 1989/90 | 61.6 | 286.3 | 332.5 | 473.3 | 358.4 | 261.4 | 80.5 | 58.0 | 40.5 | 15.0 | 11.3 | 30.8 | 2009.6 |
| 1990/91 | 339.2 | | | | | | | | | | | | |
| Media | 156.5 | 498.8 | 507.9 | 560.0 | 485.7 | 333.3 | 157.8 | 96.2 | 50.1 | 63.4 | 108.8 | 50.1 | 3068.8 |
| Máxima | 684.0 | 815.5 | 806.0 | 792.5 | 732.9 | 635.0 | 533.6 | 597.1 | 171.7 | 429.7 | 672.1 | 503.6 | 5978.7 |
| Mínima | 31.5 | 113.2 | 280.5 | 238.5 | 140.0 | 17.5 | 9.4 | 3.3 | 0.0 | 3.0 | 9.4 | 6.1 | 2009.6 |

Tabla B.1.13 Precipitaciones mensuales estimadas para la cuenca del Río Portoviejo (Santa Ana

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|--------|
| 1970/71 | 18.2 | 118.0 | 242.9 | 411.6 | 73.4 | 9.2 | 34.9 | 2.5 | 4.2 | 10.6 | 6.2 | 9.0 | 940.7 |
| 1971/72 | 18.6 | 132.7 | 213.9 | 323.8 | 136.6 | 84.4 | 239.1 | 33.5 | 28.3 | 44.9 | 9.7 | 27.2 | 1292.7 |
| 1972/73 | 115.9 | 350.7 | 304.4 | 303.8 | 228.6 | 178.3 | 59.8 | 11.6 | 4.6 | 10.4 | 1.9 | 0.1 | 1570.1 |
| 1973/74 | 27.3 | 73.7 | 352.5 | 138.9 | 83.6 | 17.6 | 29.6 | 0.6 | 3.8 | 9.5 | 4.3 | 8.2 | 749.6 |
| 1974/75 | 55.3 | 398.3 | 422.0 | 328.6 | 203.0 | 26.1 | 33.4 | 7.9 | 4.6 | 15.3 | 25.4 | 4.2 | 1524.1 |
| 1975/76 | 44.6 | 403.4 | 362.1 | 313.9 | 299.9 | 142.1 | 131.4 | 33.6 | 8.9 | 7.6 | 0.0 | 0.6 | 1748.1 |
| 1976/77 | 56.0 | 113.9 | 250.3 | 315.4 | 167.8 | 16.5 | 32.4 | 0.0 | 0.0 | 26.6 | 2.6 | 0.0 | 981.5 |
| 1977/78 | 55.4 | 127.5 | 129.2 | 191.8 | 76.4 | 78.8 | 1.9 | 4.5 | 0.0 | 2.1 | 0.5 | 0.0 | 668.1 |
| 1978/79 | 3.9 | 127.7 | 259.8 | 133.8 | 117.0 | 40.5 | 22.7 | 4.6 | 0.0 | 7.0 | 4.0 | 0.0 | 721.0 |
| 1979/80 | 7.7 | 103.4 | 88.3 | 162.3 | 200.6 | 87.3 | 7.4 | 0.2 | 1.3 | 0.0 | 0.8 | 3.7 | 663.0 |
| 1980/81 | 23.6 | 72.8 | 432.3 | 262.9 | 240.9 | 5.6 | 3.6 | 6.3 | 7.6 | 5.4 | 2.7 | 3.3 | 1067.0 |
| 1981/82 | 22.0 | 143.4 | 82.9 | 128.8 | 61.2 | 42.8 | 4.8 | 14.1 | 0.0 | 9.9 | 135.8 | 164.6 | 810.3 |
| 1982/83 | 293.0 | 360.2 | 364.0 | 468.0 | 440.1 | 330.1 | 201.9 | 280.0 | 68.9 | 165.9 | 6.0 | 4.2 | 2982.3 |
| 1983/84 | 42.3 | 11.9 | 373.7 | 298.4 | 180.7 | 6.9 | 18.3 | 2.3 | 0.0 | 15.0 | 2.5 | 0.1 | 952.1 |
| 1984/85 | 102.9 | 93.1 | 145.4 | 151.7 | 102.9 | 29.6 | 21.8 | 0.7 | 4.9 | 1.3 | 0.2 | 1.6 | 656.1 |
| 1985/86 | 71.1 | 353.5 | 134.2 | 151.9 | 152.2 | 55.8 | 2.0 | 6.7 | 0.1 | 1.7 | 21.8 | 1.5 | 952.5 |
| 1986/87 | 8.2 | 258.3 | 396.5 | 222.8 | 363.7 | 159.1 | 1.5 | 0.6 | 80.4 | 16.8 | 2.1 | 1.5 | 1511.5 |
| 1987/88 | 25.9 | 153.6 | 317.6 | 138.0 | 191.6 | 91.2 | 5.5 | 2.9 | 1.1 | 9.8 | 0.9 | 28.5 | 966.6 |
| 1988/89 | 49.3 | 517.5 | 270.8 | 195.1 | 214.2 | 34.9 | 14.4 | 2.3 | 0.0 | 38.2 | 5.5 | 3.3 | 1345.5 |
| 1989/90 | 12.3 | 154.3 | 156.5 | 123.7 | 304.8 | 13.8 | 15.6 | 9.5 | 0.0 | 1.0 | 0.0 | 1.5 | 793.0 |
| 1990/91 | 16.2 | | | | | | | | | | | | |
| Media | 50.9 | 203.4 | 265.0 | 238.3 | 192.0 | 72.5 | 44.1 | 21.2 | 10.9 | 20.0 | 11.6 | 13.2 | 1144.8 |
| Máxima | 293.0 | 517.5 | 432.3 | 468.0 | 440.1 | 330.1 | 239.1 | 280.0 | 80.4 | 165.9 | 135.8 | 164.6 | 2982.3 |
| Mínima | 3.9 | 11.9 | 82.9 | 123.7 | 61.2 | 5.6 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 656.1 |

Tabla B.1.14 Precipitaciones mensuales estimadas para la cuenca del Río Chico

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1970/71 | 14.4 | 73.3 | 196.0 | 416.4 | 50.8 | 4.4 | 28.3 | 2.6 | 0.5 | 3.3 | 4.3 | 5.0 | 799.3 |
| 1971/72 | 9.7 | 82.5 | 187.5 | 345.1 | 118.7 | 76.4 | 212.8 | 17.1 | 31.0 | 38.8 | 6.1 | 18.7 | 1144.4 |
| 1972/73 | 114.7 | 392.6 | 280.7 | 252.5 | 158.3 | 162.0 | 34.4 | 10.4 | 1.8 | 4.5 | 0.7 | 0.6 | 1413.2 |
| 1973/74 | 20.4 | 35.0 | 306.7 | 98.0 | 61.8 | 8.9 | 25.9 | 0.8 | 0.0 | 4.9 | 2.7 | 7.0 | 572.1 |
| 1974/75 | 47.3 | 406.6 | 385.7 | 286.5 | 145.4 | 23.3 | 24.4 | 6.2 | 1.9 | 7.1 | 25.0 | 2.5 | 1361.9 |
| 1975/76 | 35.1 | 410.6 | 304.1 | 319.8 | 236.9 | 139.0 | 89.9 | 23.2 | 3.7 | 4.8 | 0.0 | 1.2 | 1568.3 |
| 1976/77 | 34.9 | 204.1 | 258.2 | 281.5 | 148.8 | 8.1 | 14.6 | 0.0 | 0.4 | 6.6 | 1.4 | 0.0 | 958.6 |
| 1977/78 | 42.5 | 132.6 | 181.0 | 155.7 | 54.1 | 56.2 | 1.9 | 1.4 | 0.0 | 0.4 | 0.2 | 0.0 | 626.0 |
| 1978/79 | 3.2 | 96.6 | 173.1 | 131.8 | 78.8 | 28.9 | 18.9 | 4.7 | 0.1 | 3.9 | 2.8 | 0.0 | 542.8 |
| 1979/80 | 2.0 | 50.5 | 91.3 | 165.9 | 180.2 | 67.2 | 3.4 | 0.0 | 0.8 | 0.0 | 0.1 | 28.3 | 589.7 |
| 1980/81 | 2.6 | 73.1 | 273.8 | 92.4 | 112.4 | 0.2 | 1.2 | 5.3 | 0.9 | 0.6 | 0.6 | 0.4 | 563.5 |
| 1981/82 | 14.3 | 64.2 | 109.2 | 89.0 | 26.8 | 26.6 | 3.3 | 14.8 | 0.0 | 6.2 | 123.3 | 120.5 | 598.2 |
| 1982/83 | 267.9 | 318.0 | 287.1 | 306.1 | 359.5 | 317.6 | 218.9 | 282.9 | 108.1 | 146.9 | 0.9 | 2.5 | 2616.4 |
| 1983/84 | 39.2 | 13.3 | 408.9 | 323.1 | 154.9 | 44.6 | 9.3 | 1.6 | 0.7 | 0.8 | 1.7 | 1.4 | 999.5 |
| 1984/85 | 108.0 | 67.1 | 121.9 | 161.8 | 136.0 | 48.7 | 30.5 | 0.8 | 0.3 | 0.8 | 0.2 | 0.1 | 676.2 |
| 1985/86 | 47.0 | 401.2 | 73.9 | 58.1 | 138.5 | 11.1 | 3.2 | 7.1 | 0.4 | 0.6 | 12.5 | 1.2 | 754.8 |
| 1986/87 | 15.9 | 162.6 | 410.8 | 186.7 | 273.0 | 97.1 | 3.0 | 4.5 | 34.8 | 2.8 | 4.7 | 8.3 | 1204.2 |
| 1987/88 | 28.7 | 98.0 | 236.4 | 65.8 | 171.5 | 71.2 | 2.8 | 3.0 | 2.3 | 7.7 | 0.0 | 12.9 | 700.3 |
| 1988/89 | 24.3 | 440.9 | 279.6 | 195.2 | 152.9 | 17.5 | 7.8 | 2.0 | 0.4 | 18.6 | 6.8 | 0.5 | 1146.5 |
| 1989/90 | 13.8 | 56.7 | 81.3 | 150.9 | 141.2 | 1.7 | 18.6 | 2.9 | 0.0 | 0.2 | 0.1 | 1.4 | 468.8 |
| 1990/91 | 34.1 | | | | | | | | | | | | |
| Media | 43.8 | 179.0 | 232.4 | 204.1 | 145.0 | 60.5 | 37.7 | 19.6 | 9.4 | 13.0 | 9.7 | 10.6 | 965.2 |
| Máxima | 267.9 | 440.9 | 410.8 | 416.4 | 359.5 | 317.6 | 218.9 | 282.9 | 108.1 | 146.9 | 123.3 | 120.5 | 2616.4 |
| Mínima | 2.0 | 13.3 | 73.9 | 58.1 | 26.8 | 0.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 468.8 |

Tabla B.1.15 Precipitaciones mensuales estimadas para la cuenca del Río Portoviejo
(Confluencia con el Río Chico)

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|--------|
| 1970/71 | 12.3 | 83.3 | 199.6 | 341.8 | 44.6 | 4.9 | 27.1 | 1.1 | 1.9 | 8.7 | 4.0 | 7.8 | 737.1 |
| 1971/72 | 12.8 | 112.9 | 207.8 | 270.2 | 110.6 | 48.4 | 189.3 | 38.8 | 23.5 | 20.4 | 7.0 | 12.9 | 1054.6 |
| 1972/73 | 71.2 | 252.7 | 227.8 | 224.5 | 176.1 | 117.3 | 55.1 | 6.5 | 2.4 | 6.8 | 0.8 | 0.2 | 1141.4 |
| 1973/74 | 16.9 | 46.5 | 240.2 | 108.8 | 69.0 | 19.5 | 20.2 | 0.4 | 1.7 | 4.5 | 4.0 | 5.0 | 536.7 |
| 1974/75 | 46.4 | 324.8 | 348.1 | 286.1 | 153.9 | 13.8 | 27.8 | 5.2 | 2.1 | 16.6 | 19.3 | 3.8 | 1247.9 |
| 1975/76 | 37.6 | 324.4 | 282.8 | 233.1 | 196.1 | 95.0 | 113.3 | 27.3 | 6.9 | 4.7 | 0.1 | 0.8 | 1322.1 |
| 1976/77 | 48.9 | 96.1 | 206.6 | 243.8 | 132.2 | 12.0 | 35.8 | 0.0 | 0.0 | 30.0 | 1.2 | 0.0 | 806.6 |
| 1977/78 | 37.9 | 109.1 | 117.1 | 158.4 | 44.7 | 61.6 | 0.8 | 7.0 | 0.0 | 2.1 | 0.2 | 0.0 | 538.9 |
| 1978/79 | 2.0 | 86.1 | 200.3 | 93.9 | 90.0 | 35.8 | 16.3 | 2.2 | 0.3 | 3.4 | 1.7 | 0.0 | 532.0 |
| 1979/80 | 3.3 | 82.7 | 67.0 | 147.5 | 137.7 | 77.9 | 4.7 | 0.1 | 0.6 | 0.0 | 0.4 | 44.1 | 566.0 |
| 1980/81 | 10.8 | 58.6 | 272.8 | 195.6 | 151.0 | 4.5 | 1.6 | 4.2 | 3.3 | 2.5 | 1.8 | 4.2 | 710.9 |
| 1981/82 | 12.5 | 84.4 | 45.5 | 88.0 | 41.6 | 37.7 | 2.8 | 6.5 | 0.0 | 5.8 | 88.3 | 121.7 | 534.8 |
| 1982/83 | 234.8 | 329.8 | 293.8 | 375.7 | 341.6 | 382.4 | 248.8 | 249.2 | 59.6 | 109.9 | 2.8 | 2.2 | 2630.6 |
| 1983/84 | 33.7 | 9.0 | 284.7 | 245.1 | 99.5 | 5.8 | 12.4 | 1.0 | 0.0 | 6.5 | 1.1 | 2.2 | 701.0 |
| 1984/85 | 117.7 | 74.3 | 120.2 | 137.8 | 87.2 | 32.7 | 15.8 | 0.3 | 3.6 | 1.5 | 0.2 | 2.1 | 593.4 |
| 1985/86 | 57.6 | 319.2 | 104.5 | 131.4 | 126.2 | 40.8 | 1.9 | 4.0 | 0.1 | 1.8 | 13.2 | 2.0 | 802.7 |
| 1986/87 | 4.7 | 196.6 | 329.7 | 190.7 | 244.8 | 120.6 | 1.6 | 0.5 | 65.9 | 10.9 | 0.9 | 2.7 | 1169.6 |
| 1987/88 | 17.2 | 119.1 | 222.4 | 112.0 | 143.3 | 71.6 | 4.3 | 1.4 | 0.7 | 9.5 | 0.4 | 18.3 | 720.2 |
| 1988/89 | 34.8 | 423.1 | 215.0 | 187.1 | 154.1 | 25.2 | 10.7 | 1.0 | 0.0 | 24.5 | 3.0 | 3.1 | 1081.6 |
| 1989/90 | 7.0 | 111.8 | 126.4 | 110.6 | 197.9 | 9.9 | 11.6 | 5.6 | 0.0 | 1.4 | 0.0 | 2.0 | 584.2 |
| 1990/91 | 12.0 | | | | | | | | | | | | |
| Media | 39.6 | 162.2 | 205.6 | 194.1 | 137.1 | 60.9 | 40.1 | 18.1 | 8.6 | 13.6 | 7.5 | 11.8 | 900.6 |
| Máxima | 234.8 | 423.1 | 348.1 | 375.7 | 341.6 | 382.4 | 248.8 | 249.2 | 65.9 | 109.9 | 88.3 | 121.7 | 2630.6 |
| Mínima | 2.0 | 9.0 | 45.5 | 88.0 | 41.6 | 4.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 532.0 |

Tabla B.1.16 Precipitaciones mensuales estimadas para la cuenca del Río Portoviejo (Estuario)

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|--------|
| 1970/71 | 10.6 | 65.2 | 177.6 | 357.1 | 37.9 | 3.1 | 25 | 1.4 | 0.4 | 5 | 3.2 | 5.7 | 692.2 |
| 1971/72 | 9.1 | 85.1 | 191.1 | 282.6 | 108.3 | 50.3 | 183 | 27.8 | 25.5 | 20.8 | 5.5 | 10.7 | 999.8 |
| 1972/73 | 78.1 | 286.9 | 221.7 | 211.5 | 145.8 | 117.9 | 42.8 | 6.6 | 1.1 | 4 | 0.4 | 0.4 | 1117.2 |
| 1973/74 | 14.6 | 30.8 | 231.8 | 94.8 | 58.4 | 14.4 | 19.3 | 0.5 | 0 | 2.8 | 2.8 | 4.3 | 474.5 |
| 1974/75 | 44.3 | 338.6 | 342.6 | 268.7 | 130.8 | 14.4 | 24.5 | 4.8 | 1.2 | 11.1 | 19.1 | 3.1 | 1203.2 |
| 1975/76 | 32 | 339 | 272.8 | 254.4 | 182 | 99.9 | 94.7 | 22.3 | 4.6 | 4.4 | 0 | 0.8 | 1306.9 |
| 1976/77 | 39.8 | 152 | 221.4 | 241.7 | 125.3 | 8.4 | 26.3 | 0 | 0.2 | 18.5 | 0.8 | 0 | 834.4 |
| 1977/78 | 32.8 | 114.6 | 148.3 | 145.7 | 37.3 | 52.1 | 1 | 4.7 | 0 | 1.2 | 0.1 | 0 | 537.8 |
| 1978/79 | 1.8 | 77.8 | 163.2 | 99.9 | 74 | 30.2 | 15.1 | 2.6 | 0.2 | 3 | 1.5 | 0 | 469.3 |
| 1979/80 | 1 | 58.9 | 76.9 | 144.9 | 136.3 | 69.6 | 3 | 0 | 0.4 | 0 | 0.1 | 35.5 | 526.6 |
| 1980/81 | 1.9 | 62.3 | 220.9 | 117.6 | 98.4 | 1.9 | 0.6 | 4 | 0.5 | 0.4 | 0.7 | 2.7 | 511.9 |
| 1981/82 | 9.4 | 53.3 | 65 | 72.6 | 27.1 | 30.2 | 2.7 | 8.2 | 0 | 4.6 | 88.8 | 100.9 | 462.8 |
| 1982/83 | 226.4 | 313.2 | 269.4 | 297 | 309.1 | 364.3 | 236.3 | 256.1 | 81 | 109.6 | 0.7 | 1.7 | 2464.8 |
| 1983/84 | 34.1 | 10.1 | 328.4 | 267.8 | 99.5 | 26.4 | 8.9 | 0.8 | 0.4 | 0.4 | 0.9 | 1.8 | 779.5 |
| 1984/85 | 118.5 | 64.1 | 110.4 | 137.3 | 104.6 | 44.1 | 21.3 | 0.4 | 1.4 | 1.3 | 0.2 | 1.3 | 604.9 |
| 1985/86 | 46.9 | 340 | 74.5 | 80.7 | 124.8 | 20 | 2.6 | 4.6 | 0.2 | 1.2 | 9.8 | 1.8 | 707.1 |
| 1986/87 | 8.9 | 150.7 | 340.1 | 175.9 | 212.8 | 96.5 | 2.4 | 2.6 | 44.1 | 4.4 | 2.5 | 6.1 | 1047.0 |
| 1987/88 | 20.6 | 94.3 | 192.4 | 79.9 | 137.7 | 64.7 | 3.1 | 1.7 | 1.4 | 7.4 | 0 | 11.8 | 615.0 |
| 1988/89 | 24 | 387.6 | 234.8 | 182.4 | 129.5 | 17.7 | 7.8 | 1.1 | 0.2 | 15.9 | 4 | 1.7 | 1006.7 |
| 1989/90 | 8.5 | 68.4 | 92.2 | 123.7 | 128 | 4.1 | 13.9 | 2.8 | 0 | 0.9 | 0.1 | 1.3 | 443.9 |
| 1990/91 | 23.5 | | | | | | | | | | | | |
| Media | 37.5 | 154.6 | 198.8 | 181.8 | 120.4 | 56.5 | 36.7 | 17.7 | 8.1 | 10.8 | 7.1 | 9.6 | 840.3 |
| Máxima | 226.4 | 387.6 | 342.6 | 357.1 | 309.1 | 364.3 | 236.3 | 256.1 | 81.0 | 109.6 | 88.8 | 100.9 | 2464.8 |
| Mínima | 1.0 | 10.1 | 65.0 | 72.6 | 27.1 | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 443.9 |

Tabla B.1.17 Precipitaciones mensuales estimadas para la cuenca del Río Carrizal

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1970/71 | 31.5 | 98.1 | 242.5 | 526.5 | 93.6 | 21.8 | 18.2 | 3.7 | 1.4 | 38.4 | 5.5 | 2.3 | 1083.5 |
| 1971/72 | 45.9 | 132.6 | 320.6 | 316.0 | 178.7 | 82.0 | 219.1 | 74.8 | 38.2 | 21.1 | 6.8 | 48.3 | 1484.1 |
| 1972/73 | 142.2 | 374.1 | 297.2 | 287.7 | 215.7 | 169.7 | 31.1 | 12.2 | 5.5 | 22.5 | 1.9 | 0.5 | 1560.3 |
| 1973/74 | 27.6 | 83.7 | 312.9 | 126.5 | 84.6 | 17.9 | 35.3 | 0.4 | 0.0 | 9.5 | 5.4 | 13.9 | 717.7 |
| 1974/75 | 85.5 | 464.5 | 439.6 | 321.9 | 222.7 | 25.0 | 28.1 | 13.7 | 1.7 | 16.2 | 27.3 | 3.3 | 1649.5 |
| 1975/76 | 52.5 | 404.9 | 342.6 | 341.6 | 248.6 | 181.1 | 112.5 | 48.2 | 6.6 | 8.6 | 0.1 | 0.5 | 1747.8 |
| 1976/77 | 33.1 | 304.8 | 278.8 | 345.7 | 115.9 | 17.3 | 35.4 | 10.0 | 2.0 | 17.7 | 6.7 | 0.0 | 1167.4 |
| 1977/78 | 31.2 | 173.9 | 269.0 | 282.2 | 62.4 | 113.6 | 4.2 | 1.3 | 0.2 | 3.9 | 4.2 | 0.0 | 946.1 |
| 1978/79 | 7.0 | 188.7 | 188.2 | 225.9 | 151.9 | 60.8 | 24.2 | 4.8 | 0.0 | 5.6 | 2.3 | 0.0 | 859.4 |
| 1979/80 | 1.5 | 112.4 | 200.7 | 194.2 | 214.5 | 46.3 | 9.2 | 0.0 | 0.8 | 0.0 | 0.9 | 4.3 | 784.8 |
| 1980/81 | 19.1 | 126.6 | 414.9 | 185.2 | 173.3 | 1.4 | 5.3 | 26.4 | 2.6 | 5.3 | 2.6 | 3.9 | 966.6 |
| 1981/82 | 40.9 | 88.9 | 143.6 | 127.3 | 172.8 | 32.9 | 13.7 | 7.1 | 0.0 | 8.0 | 151.9 | 236.9 | 1024.0 |
| 1982/83 | 340.1 | 510.3 | 334.7 | 521.5 | 359.3 | 353.1 | 279.8 | 386.0 | 161.0 | 163.9 | 6.2 | 6.7 | 3422.6 |
| 1983/84 | 67.0 | 19.5 | 441.2 | 373.3 | 178.6 | 34.6 | 7.7 | 1.7 | 1.0 | 6.4 | 4.4 | 0.7 | 1136.1 |
| 1984/85 | 107.3 | 90.2 | 146.2 | 189.3 | 129.2 | 20.6 | 20.8 | 4.4 | 0.4 | 5.6 | 3.0 | 0.2 | 717.2 |
| 1985/86 | 81.5 | 388.5 | 144.7 | 142.3 | 253.1 | 48.3 | 8.0 | 11.9 | 0.7 | 5.4 | 37.2 | 4.8 | 1126.4 |
| 1986/87 | 40.2 | 240.1 | 615.2 | 312.2 | 402.1 | 132.6 | 5.1 | 9.0 | 33.5 | 7.3 | 8.2 | 12.5 | 1818.0 |
| 1987/88 | 68.0 | 177.2 | 388.0 | 78.5 | 158.9 | 136.3 | 14.8 | 11.3 | 3.5 | 9.2 | 10.3 | 13.6 | 1069.6 |
| 1988/89 | 36.0 | 447.8 | 327.4 | 127.0 | 231.3 | 21.0 | 16.0 | 7.2 | 0.3 | 17.6 | 8.2 | 0.0 | 1239.8 |
| 1989/90 | 35.8 | 93.7 | 166.9 | 127.2 | 140.3 | 8.1 | 22.3 | 8.4 | 0.1 | 0.3 | 5.1 | 0.1 | 608.3 |
| 1990/91 | 110.1 | | | | | | | | | | | | |
| Media | 66.9 | 226.0 | 300.7 | 257.6 | 189.4 | 76.2 | 45.5 | 32.1 | 13.0 | 18.6 | 14.9 | 17.6 | 1256.5 |
| Máxima | 340.1 | 510.3 | 615.2 | 526.5 | 402.1 | 353.1 | 279.8 | 386.0 | 161.0 | 163.9 | 151.9 | 236.9 | 3422.6 |
| Mínima | 1.5 | 19.5 | 143.6 | 78.5 | 62.4 | 1.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 608.3 |

Tabla B.1.18 Precipitaciones mensuales estimadas para la cuenca del Río Chone
(Confluencia con el Río Carrizal).

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1970/71 | 24.9 | 67.0 | 233.0 | 548.4 | 52.1 | 15.2 | 24.1 | 2.0 | 4.4 | 13.0 | 25.8 | 1.5 | 1011.4 |
| 1971/72 | 21.3 | 48.2 | 314.0 | 268.4 | 127.0 | 47.7 | 285.0 | 55.0 | 87.4 | 6.1 | 1.5 | 1.8 | 1263.4 |
| 1972/73 | 172.8 | 282.3 | 129.8 | 313.4 | 178.8 | 138.2 | 24.2 | 29.6 | 8.1 | 16.2 | 8.0 | 3.8 | 1305.2 |
| 1973/74 | 27.1 | 85.4 | 438.1 | 53.2 | 169.4 | 26.0 | 22.1 | 3.4 | 0.9 | 11.3 | 4.8 | 11.1 | 852.8 |
| 1974/75 | 77.5 | 403.0 | 420.6 | 481.2 | 199.1 | 7.9 | 44.7 | 20.8 | 5.9 | 7.4 | 9.5 | 5.0 | 1682.6 |
| 1975/76 | 63.7 | 417.5 | 266.4 | 282.1 | 228.2 | 141.0 | 176.7 | 12.6 | 3.6 | 8.4 | 1.4 | 2.6 | 1604.2 |
| 1976/77 | 56.0 | 356.0 | 432.6 | 320.8 | 139.8 | 0.5 | 45.4 | 6.4 | 4.3 | 17.6 | 15.2 | 0.2 | 1394.8 |
| 1977/78 | 28.3 | 219.4 | 260.2 | 204.8 | 54.4 | 64.3 | 6.8 | 7.3 | 4.5 | 6.1 | 31.2 | 1.7 | 889.0 |
| 1978/79 | 16.9 | 153.6 | 249.7 | 113.5 | 78.7 | 19.2 | 58.0 | 0.3 | 3.0 | 15.7 | 5.2 | 1.1 | 714.9 |
| 1979/80 | 8.5 | 144.3 | 223.6 | 311.6 | 176.9 | 73.5 | 12.2 | 0.4 | 2.8 | 0.4 | 6.2 | 4.4 | 964.8 |
| 1980/81 | 26.3 | 175.6 | 515.1 | 227.9 | 193.9 | 1.2 | 5.0 | 16.0 | 10.1 | 25.1 | 4.7 | 1.9 | 1202.8 |
| 1981/82 | 26.3 | 139.0 | 73.7 | 160.6 | 82.6 | 47.6 | 13.5 | 2.7 | 0.0 | 7.3 | 200.7 | 196.4 | 950.4 |
| 1982/83 | 325.0 | 481.0 | 501.8 | 513.9 | 307.4 | 622.0 | 340.6 | 297.0 | 119.9 | 109.0 | 9.7 | 10.6 | 3637.9 |
| 1983/84 | 54.6 | 20.7 | 317.0 | 344.1 | 209.7 | 18.8 | 34.3 | 6.8 | 2.8 | 9.3 | 6.7 | 41.9 | 1066.7 |
| 1984/85 | 109.8 | 122.1 | 215.9 | 139.5 | 90.7 | 39.3 | 8.6 | 5.8 | 7.7 | 3.3 | 2.3 | 2.7 | 747.7 |
| 1985/86 | 73.9 | 391.3 | 134.6 | 77.2 | 144.1 | 1.7 | 4.1 | 13.8 | 4.7 | 3.7 | 20.4 | 1.6 | 871.1 |
| 1986/87 | 31.9 | 198.7 | 476.6 | 239.8 | 256.1 | 141.8 | 3.9 | 9.7 | 46.0 | 6.2 | 11.7 | 11.4 | 1433.8 |
| 1987/88 | 47.3 | 165.7 | 314.4 | 80.2 | 177.8 | 91.8 | 3.5 | 11.8 | 6.9 | 11.7 | 0.6 | 20.9 | 932.6 |
| 1988/89 | 42.1 | 455.0 | 309.6 | 203.2 | 154.7 | 0.2 | 10.7 | 5.1 | 4.6 | 13.8 | 13.3 | 1.4 | 1213.7 |
| 1989/90 | 30.0 | 110.9 | 135.2 | 199.1 | 165.5 | 1.2 | 33.6 | 21.5 | 0.8 | 1.4 | 3.7 | 0.8 | 703.7 |
| 1990/91 | 20.8 | | | | | | | | | | | | |
| Media | 61.2 | 221.8 | 298.1 | 254.1 | 159.3 | 75.0 | 57.8 | 26.4 | 16.4 | 14.7 | 19.1 | 16.1 | 1222.2 |
| Máxima | 325.0 | 481.0 | 515.1 | 548.4 | 307.4 | 622.0 | 340.6 | 297.0 | 119.9 | 109.0 | 200.7 | 196.4 | 3637.9 |
| Mínima | 8.5 | 20.7 | 73.7 | 53.2 | 52.1 | 0.2 | 3.5 | 0.3 | 0.0 | 0.4 | 0.6 | 0.2 | 703.7 |

Tabla B.1.19 Precipitaciones mensuales estimadas para la cuenca del Río Chone (Estuario)

(Unidad : mm)

| Año | Dic. | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Annual |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1970/71 | 28.5 | 85.4 | 238.3 | 522.4 | 76.0 | 18.8 | 21.7 | 3.4 | 2.7 | 28.4 | 13.5 | 1.9 | 1041.0 |
| 1971/72 | 35.9 | 99.9 | 314.3 | 295.5 | 158.0 | 67.4 | 240.2 | 65.9 | 54.2 | 16.2 | 5.0 | 30.2 | 1382.7 |
| 1972/73 | 149.5 | 337.6 | 234.1 | 292.8 | 199.0 | 156.1 | 28.1 | 18.6 | 6.8 | 19.8 | 4.5 | 1.8 | 1448.7 |
| 1973/74 | 26.5 | 85.3 | 354.8 | 98.8 | 114.6 | 20.9 | 29.6 | 1.8 | 0.4 | 10.2 | 5.3 | 12.5 | 760.7 |
| 1974/75 | 80.9 | 439.2 | 432.3 | 379.0 | 209.6 | 18.4 | 33.1 | 16.8 | 3.4 | 12.5 | 20.0 | 4.1 | 1649.3 |
| 1975/76 | 55.3 | 405.8 | 306.4 | 311.6 | 236.3 | 163.0 | 131.7 | 33.9 | 5.7 | 8.4 | 0.5 | 1.4 | 1660.0 |
| 1976/77 | 40.6 | 317.4 | 332.1 | 331.4 | 124.4 | 10.8 | 43.2 | 9.7 | 3.2 | 18.5 | 11.7 | 0.1 | 1243.1 |
| 1977/78 | 29.3 | 191.0 | 261.0 | 247.5 | 58.2 | 91.9 | 5.0 | 3.8 | 1.9 | 5.6 | 15.4 | 1.0 | 911.6 |
| 1978/79 | 11.8 | 173.1 | 213.3 | 178.5 | 121.9 | 44.1 | 36.0 | 3.1 | 1.6 | 9.8 | 3.6 | 0.5 | 797.3 |
| 1979/80 | 5.6 | 121.2 | 207.0 | 236.0 | 194.5 | 56.9 | 10.2 | 0.2 | 1.7 | 0.2 | 2.6 | 4.6 | 840.7 |
| 1980/81 | 21.2 | 148.3 | 447.9 | 202.7 | 178.3 | 1.3 | 5.1 | 22.5 | 6.2 | 15.7 | 3.5 | 3.3 | 1056.0 |
| 1981/82 | 35.7 | 106.6 | 114.7 | 143.0 | 135.7 | 37.6 | 13.5 | 5.4 | 0.0 | 7.6 | 165.1 | 218.1 | 983.0 |
| 1982/83 | 323.9 | 486.7 | 386.7 | 514.6 | 343.5 | 450.9 | 295.3 | 348.3 | 142.7 | 141.0 | 7.8 | 8.6 | 3450.0 |
| 1983/84 | 60.8 | 19.2 | 382.5 | 348.7 | 187.1 | 28.3 | 18.8 | 4.0 | 1.8 | 7.7 | 5.4 | 23.8 | 1088.1 |
| 1984/85 | 103.2 | 102.9 | 171.6 | 167.9 | 111.4 | 28.2 | 16.0 | 4.9 | 3.4 | 4.5 | 2.6 | 1.1 | 717.7 |
| 1985/86 | 75.9 | 374.7 | 136.8 | 116.1 | 207.2 | 29.7 | 6.3 | 12.0 | 2.1 | 4.6 | 30.0 | 3.5 | 998.9 |
| 1986/87 | 35.5 | 214.4 | 552.8 | 285.3 | 337.4 | 131.6 | 4.5 | 9.0 | 38.7 | 6.9 | 9.3 | 11.5 | 1636.9 |
| 1987/88 | 57.8 | 172.3 | 350.7 | 76.5 | 162.1 | 115.2 | 10.3 | 12.1 | 4.6 | 11.6 | 6.5 | 15.8 | 995.5 |
| 1988/89 | 37.2 | 435.5 | 310.1 | 151.7 | 196.0 | 12.8 | 13.5 | 6.1 | 1.8 | 15.4 | 9.6 | 0.8 | 1190.5 |
| 1989/90 | 32.5 | 97.9 | 153.0 | 150.7 | 147.3 | 5.6 | 26.3 | 12.7 | 0.3 | 0.8 | 4.6 | 0.3 | 632.0 |
| 1990/91 | 74.4 | | | | | | | | | | | | |
| Media | 63.0 | 220.7 | 295.0 | 252.5 | 174.9 | 74.5 | 49.4 | 29.7 | 14.2 | 17.3 | 16.3 | 17.2 | 1224.2 |
| Máxima | 323.9 | 486.7 | 552.8 | 522.4 | 343.5 | 450.9 | 295.3 | 348.3 | 142.7 | 141.0 | 165.1 | 218.1 | 3450.0 |
| Mínima | 5.6 | 19.2 | 114.7 | 76.5 | 58.2 | 1.3 | 4.5 | 0.2 | 0.0 | 0.2 | 0.5 | 0.1 | 632.0 |

Tabla B.1.20 Probabilidad de Lluvia Para un Período de Retorno de 5 años

| Estación | (Unidad : mm) | | | | | | | | | | | | | |
|------------|---------------|-------|-------|------|------|------|------|------|------|------|------|------|---------|---------|
| | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Período | |
| Alajuela | 58.0 | 102.8 | 106.7 | 69.9 | 4.8 | 3.5 | 0.1 | 0.0 | 0.8 | 0.1 | 0.0 | 0.0 | 1.8 | 1968-85 |
| Calceta | 58.8 | 137.5 | 114.7 | 59.2 | 7.5 | 3.2 | 0.7 | 0.0 | 1.0 | 0.3 | 0.0 | 0.0 | 6.1 | 1963-85 |
| Estancilla | 59.7 | 106.0 | 86.6 | 74.0 | 5.0 | 1.2 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 2.7 | 1964-90 |
| Pechiche | 25.0 | 76.7 | 56.0 | 8.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 3.6 | 1972-85 |
| Portoviejo | 18.9 | 48.0 | 49.9 | 21.5 | 1.9 | 0.2 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 1.6 | 1963-90 |
| Rocafuerte | 21.5 | 28.9 | 36.0 | 11.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | -do- |
| Santa Ana | 51.8 | 87.7 | 121.0 | 44.4 | 5.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1963-86 |
| Estación | Ene. | Feb. | Mar. | Abr. | May. | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Período | |

Tabla B.2.1 Estimación de la escorrentia en el sitio de Presa La Esperanza

(Unidad : m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun | Jul | Ago. | Sep. | Oct. | Nov. | Dic. | Annual |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|----------|
| 1971 | 3.16 | 15.05 | 38.16 | 36.21 | 10.20 | 3.08 | 0.50 | 0.10 | 0.08 | 0.06 | 0.10 | 0.05 | 106.75 |
| 1972 | 4.37 | 20.89 | 40.65 | 32.44 | 14.43 | 20.85 | 17.41 | 5.82 | 2.23 | 0.66 | 0.10 | 3.83 | 163.68 |
| 1973 | 13.17 | 35.88 | 40.98 | 36.33 | 25.48 | 17.47 | 2.27 | 0.21 | 0.12 | 0.05 | 0.10 | 0.04 | 172.10 |
| 1974 | 2.44 | 14.52 | 20.16 | 11.54 | 3.51 | 1.80 | 1.33 | 0.09 | 0.08 | 0.04 | 0.10 | 0.04 | 55.66 |
| 1975 | 11.72 | 38.60 | 44.84 | 33.88 | 14.28 | 4.80 | 1.57 | 0.29 | 0.10 | 0.24 | 0.10 | 0.05 | 150.45 |
| 1976 | 11.26 | 35.03 | 43.75 | 41.92 | 28.56 | 22.79 | 8.49 | 1.16 | 0.20 | 0.05 | 0.10 | 0.04 | 193.34 |
| 1977 | 3.44 | 29.21 | 38.98 | 29.20 | 6.74 | 3.82 | 1.83 | 0.24 | 0.09 | 0.05 | 0.10 | 0.04 | 113.74 |
| 1978 | 4.17 | 16.24 | 25.59 | 20.79 | 13.00 | 10.19 | 0.34 | 0.10 | 0.08 | 0.04 | 0.10 | 0.04 | 90.69 |
| 1979 | 0.04 | 21.04 | 17.05 | 17.51 | 14.29 | 7.69 | 0.80 | 0.10 | 0.08 | 0.05 | 0.10 | 0.04 | 78.80 |
| 1980 | 0.04 | 14.73 | 20.58 | 22.83 | 14.67 | 2.06 | 0.18 | 0.09 | 0.08 | 0.04 | 0.10 | 0.04 | 75.43 |
| 1981 | 1.17 | 22.86 | 36.19 | 27.45 | 12.53 | 0.90 | 0.85 | 0.56 | 0.09 | 0.05 | 0.10 | 0.04 | 102.80 |
| 1982 | 3.60 | 11.55 | 17.53 | 16.40 | 8.08 | 1.78 | 0.41 | 0.09 | 0.08 | 10.36 | 10.20 | 13.77 | 93.83 |
| 1983 | 18.87 | 32.92 | 46.71 | 54.59 | 39.90 | 40.76 | 31.55 | 19.60 | 13.14 | 0.31 | 0.10 | 0.61 | 299.07 |
| 1984 | 1.44 | 8.39 | 49.62 | 40.20 | 17.75 | 4.06 | 0.23 | 0.10 | 0.08 | 0.05 | 0.10 | 0.04 | 122.06 |
| 1985 | 4.44 | 11.26 | 21.06 | 21.55 | 8.46 | 1.37 | 0.59 | 0.09 | 0.08 | 0.04 | 0.10 | 0.04 | 69.07 |
| 1986 | 10.80 | 23.04 | 18.57 | 24.48 | 16.50 | 1.95 | 0.43 | 0.10 | 0.08 | 0.63 | 0.88 | 0.05 | 97.50 |
| 1987 | 7.07 | 37.05 | 57.43 | 52.18 | 33.31 | 13.82 | 0.88 | 0.69 | 0.72 | 0.12 | 0.21 | 0.59 | 204.08 |
| 1988 | 6.50 | 29.48 | 31.34 | 15.69 | 18.09 | 13.88 | 1.68 | 0.27 | 0.10 | 0.19 | 0.31 | 0.50 | 118.02 |
| 1989 | 10.76 | 34.27 | 26.93 | 24.20 | 17.61 | 3.75 | 0.70 | 0.10 | 0.08 | 0.05 | 0.10 | 0.04 | 118.60 |
| 1990 | 2.64 | 10.82 | 15.32 | 11.13 | 4.30 | 1.12 | 0.67 | 0.08 | 0.08 | 0.04 | 0.10 | 0.04 | 46.35 |
| Media | 6.06 | 23.14 | 32.57 | 28.53 | 16.08 | 8.90 | 3.64 | 1.49 | 0.88 | 0.66 | 0.66 | 1.00 | 123.60 |
| | (16.22) | (56.45) | (87.24) | (73.94) | (43.08) | (23.06) | (9.74) | (4.00) | (2.29) | (1.76) | (1.71) | (2.67) | (322.16) |
| Max. | 18.87 | 38.60 | 57.43 | 54.59 | 39.90 | 40.76 | 31.55 | 19.60 | 13.14 | 10.36 | 10.20 | 13.77 | 299.07 |
| Min. | 0.04 | 8.39 | 15.32 | 11.13 | 3.51 | 0.90 | 0.18 | 0.08 | 0.08 | 0.04 | 0.10 | 0.04 | 46.35 |

Nota: Las cantidades que están en parntesis son en millones de metros cúbicos.

Tabla B.2.2 Estimación de la Escorrentía en el sitio de Presa Poza Honda

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Anual |
|-------|--------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|-------|----------|
| 1971 | 0.00 | 5.98 | 12.94 | 10.59 | 2.29 | 0.70 | 0.32 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 32.90 |
| 1972 | 0.50 | 4.92 | 10.75 | 10.27 | 4.80 | 8.71 | 5.59 | 0.80 | 0.82 | 0.72 | 0.17 | 1.39 | 49.44 |
| 1973 | 5.84 | 12.31 | 13.81 | 11.42 | 8.11 | 6.86 | 1.23 | 0.21 | 0.06 | 0.02 | 0.00 | 0.00 | 59.89 |
| 1974 | 0.39 | 7.52 | 10.97 | 5.11 | 1.71 | 0.56 | 0.24 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 26.54 |
| 1975 | 4.68 | 13.46 | 15.66 | 11.26 | 4.90 | 1.75 | 0.41 | 0.10 | 0.03 | 0.01 | 0.04 | 0.00 | 52.30 |
| 1976 | 4.70 | 12.01 | 14.84 | 14.52 | 9.86 | 7.96 | 3.07 | 0.49 | 0.09 | 0.04 | 0.00 | 0.00 | 67.58 |
| 1977 | 1.11 | 5.15 | 11.40 | 10.84 | 4.10 | 0.73 | 0.16 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 33.56 |
| 1978 | 1.54 | 3.33 | 5.45 | 5.21 | 2.83 | 1.57 | 0.12 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 20.08 |
| 1979 | 0.00 | 6.86 | 8.56 | 5.25 | 2.48 | 1.03 | 0.22 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 24.47 |
| 1980 | 0.00 | 2.78 | 4.65 | 7.36 | 5.18 | 1.98 | 0.16 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 22.17 |
| 1981 | 0.34 | 9.01 | 15.53 | 11.51 | 5.51 | 0.67 | 0.19 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 42.84 |
| 1982 | 0.74 | 4.55 | 4.75 | 3.95 | 1.56 | 0.42 | 0.13 | 0.03 | 0.00 | 0.00 | 3.97 | 4.83 | 24.94 |
| 1983 | 7.32 | 11.80 | 17.72 | 20.64 | 14.34 | 12.51 | 10.48 | 7.30 | 3.68 | 3.23 | 0.18 | 0.06 | 109.27 |
| 1984 | 0.32 | 2.61 | 15.42 | 11.19 | 4.81 | 0.79 | 0.23 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 35.45 |
| 1985 | 1.63 | 3.47 | 5.35 | 4.49 | 1.99 | 0.78 | 0.13 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 17.86 |
| 1986 | 4.24 | 7.73 | 5.77 | 5.78 | 3.63 | 1.22 | 0.13 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 28.55 |
| 1987 | 0.00 | 12.06 | 14.02 | 13.41 | 10.67 | 5.10 | 0.36 | 0.17 | 0.95 | 0.11 | 0.02 | 0.00 | 56.87 |
| 1988 | 0.65 | 7.73 | 9.70 | 6.86 | 5.17 | 2.48 | 0.19 | 0.07 | 0.01 | 0.00 | 0.00 | 0.19 | 33.05 |
| 1989 | 5.93 | 13.10 | 10.70 | 8.87 | 4.98 | 1.35 | 0.19 | 0.07 | 0.02 | 0.16 | 0.00 | 0.00 | 45.37 |
| 1990 | 0.00 | 5.24 | 5.25 | 8.68 | 6.44 | 1.06 | 0.25 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 27.00 |
| Media | 2.00 | 7.58 | 10.66 | 9.36 | 5.27 | 2.91 | 1.19 | 0.49 | 0.29 | 0.22 | 0.22 | 0.32 | 40.51 |
| | (5.35) | (18.47) | (28.56) | (24.26) | (14.11) | (7.55) | (3.19) | (1.31) | (0.70) | (0.58) | (0.57) | (.87) | (105.55) |
| Max. | 7.32 | 13.46 | 17.72 | 20.64 | 14.34 | 12.51 | 10.48 | 7.30 | 3.68 | 3.23 | 3.97 | 4.83 | 109.27 |
| Min. | 0.00 | 2.61 | 4.65 | 3.95 | 1.56 | 0.42 | 0.12 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 17.86 |

Nota: Las cantidades que están en parntesis son millones de metros cúbicos

Tabla B.2.3 Estimación de la Escorrentía en el sitio de la Presa Chirijos

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Annual |
|-------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1971 | 0.00 | 1.96 | 5.57 | 4.88 | 0.87 | 0.25 | 0.13 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 13.68 |
| 1972 | 0.00 | 1.62 | 4.48 | 4.48 | 1.98 | 3.59 | 2.30 | 0.39 | 0.35 | 0.27 | 0.05 | 0.59 | 20.10 |
| 1973 | 2.39 | 5.58 | 5.77 | 4.77 | 3.45 | 2.81 | 0.51 | 0.06 | 0.02 | 0.00 | 0.00 | 0.00 | 25.37 |
| 1974 | 0.04 | 2.53 | 3.98 | 1.62 | 0.50 | 0.17 | 0.09 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 8.94 |
| 1975 | 1.90 | 6.07 | 6.56 | 4.73 | 1.90 | 0.63 | 0.16 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 22.00 |
| 1976 | 1.92 | 5.44 | 6.31 | 6.13 | 4.11 | 3.24 | 1.25 | 0.16 | 0.03 | 0.01 | 0.00 | 0.00 | 28.60 |
| 1977 | 0.97 | 3.58 | 5.09 | 4.34 | 1.60 | 0.24 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 15.90 |
| 1978 | 0.68 | 2.37 | 3.26 | 2.28 | 1.14 | 0.61 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 10.38 |
| 1979 | 0.00 | 1.85 | 2.78 | 2.33 | 1.05 | 0.44 | 0.09 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 8.55 |
| 1980 | 0.00 | 0.67 | 2.09 | 3.41 | 2.52 | 0.94 | 0.07 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 9.73 |
| 1981 | 0.00 | 2.42 | 3.50 | 2.25 | 1.14 | 0.09 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.42 |
| 1982 | 0.00 | 1.41 | 2.04 | 1.17 | 0.36 | 0.12 | 0.02 | 0.00 | 0.00 | 0.00 | 1.56 | 1.92 | 8.60 |
| 1983 | 2.61 | 4.49 | 5.54 | 6.43 | 5.60 | 4.98 | 3.98 | 2.92 | 1.73 | 1.40 | 0.07 | 0.03 | 39.76 |
| 1984 | 0.10 | 1.19 | 7.66 | 5.68 | 2.45 | 0.82 | 0.09 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 18.02 |
| 1985 | 0.54 | 1.26 | 2.60 | 3.19 | 1.81 | 0.80 | 0.17 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 10.40 |
| 1986 | 1.77 | 3.72 | 1.44 | 1.64 | 1.19 | 0.13 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 9.93 |
| 1987 | 0.30 | 4.44 | 5.47 | 4.95 | 3.89 | 1.51 | 0.12 | 0.04 | 0.07 | 0.00 | 0.00 | 0.00 | 20.81 |
| 1988 | 0.44 | 2.47 | 3.01 | 2.49 | 2.36 | 0.93 | 0.07 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 11.79 |
| 1989 | 2.00 | 5.65 | 4.54 | 3.56 | 1.82 | 0.32 | 0.06 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 17.98 |
| 1990 | 0.00 | 0.79 | 1.96 | 3.05 | 1.48 | 0.20 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 7.57 |
| Media | 0.78 | 2.98 | 4.18 | 3.67 | 2.06 | 1.14 | 0.47 | 0.19 | 0.11 | 0.08 | 0.08 | 0.13 | 15.88 |
| | (2.10) | (7.25) | (11.20) | (9.51) | (5.52) | (2.96) | (1.25) | (0.51) | (0.29) | (0.23) | (0.22) | (0.34) | (41.37) |
| Max. | 2.61 | 6.07 | 7.66 | 6.43 | 5.60 | 4.98 | 3.98 | 2.92 | 1.73 | 1.40 | 1.56 | 1.92 | 39.76 |
| Min. | 0.00 | 0.67 | 1.44 | 1.17 | 0.36 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.57 |

Nota: Las cantidades que están en paréntesis son millones de metros cúbicos

Tabla B.2.4 Estimación de la Escorrentía en el sitio de Presa Daule-Peripa

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Agó. | Sep. | Oct. | Nov. | Dic. | Annual |
|-------|----------|----------|-----------|-----------|----------|----------|----------|---------|---------|---------|---------|---------|-----------|
| 1971 | 66.06 | 254.77 | 417.81 | 524.38 | 326.81 | 141.17 | 43.43 | 10.97 | 6.22 | 3.18 | 26.64 | 10.38 | 1831.82 |
| 1972 | 57.55 | 246.24 | 473.23 | 531.86 | 316.54 | 177.85 | 134.79 | 92.67 | 48.50 | 27.10 | 11.51 | 11.82 | 2129.65 |
| 1973 | 155.64 | 549.11 | 645.64 | 551.23 | 359.18 | 272.02 | 122.88 | 27.74 | 10.84 | 7.33 | 13.83 | 6.20 | 2721.64 |
| 1974 | 50.53 | 233.06 | 410.65 | 385.03 | 190.72 | 89.81 | 36.69 | 16.27 | 5.07 | 2.11 | 1.57 | 4.06 | 1425.58 |
| 1975 | 131.06 | 536.49 | 666.03 | 572.98 | 337.19 | 180.19 | 54.91 | 18.83 | 8.00 | 3.02 | 5.76 | 13.00 | 2527.48 |
| 1976 | 130.68 | 524.31 | 648.94 | 570.09 | 398.20 | 296.87 | 150.85 | 57.78 | 17.95 | 5.86 | 3.07 | 3.57 | 2808.17 |
| 1977 | 72.29 | 302.42 | 551.54 | 460.07 | 132.73 | 65.57 | 34.70 | 8.00 | 11.15 | 4.92 | 1.76 | 2.90 | 1648.05 |
| 1978 | 71.76 | 345.38 | 546.45 | 442.45 | 276.51 | 127.13 | 19.87 | 8.19 | 4.75 | 1.89 | 1.10 | 1.71 | 1847.18 |
| 1979 | 71.04 | 313.26 | 428.86 | 350.62 | 183.58 | 107.89 | 37.82 | 7.36 | 4.78 | 10.89 | 2.04 | 2.43 | 1520.56 |
| 1980 | 2.16 | 258.18 | 422.53 | 448.14 | 248.98 | 91.68 | 16.36 | 7.03 | 3.99 | 1.67 | 1.62 | 4.03 | 1506.38 |
| 1981 | 37.90 | 299.92 | 649.10 | 481.77 | 136.93 | 21.80 | 10.29 | 5.23 | 3.09 | 1.40 | 0.91 | 1.59 | 1649.93 |
| 1982 | 110.44 | 368.20 | 361.42 | 257.06 | 203.29 | 106.75 | 14.23 | 6.75 | 4.07 | 63.33 | 97.15 | 207.91 | 1800.58 |
| 1983 | 266.19 | 582.90 | 669.25 | 626.56 | 415.92 | 325.28 | 249.51 | 142.10 | 105.59 | 58.11 | 18.84 | 31.09 | 3491.36 |
| 1984 | 33.90 | 293.49 | 726.13 | 629.86 | 251.64 | 57.82 | 15.42 | 6.99 | 3.91 | 2.15 | 1.04 | 2.00 | 2024.34 |
| 1985 | 137.14 | 280.27 | 349.79 | 222.82 | 88.36 | 87.75 | 44.64 | 6.43 | 3.84 | 1.60 | 0.95 | 1.62 | 1225.22 |
| 1986 | 141.97 | 348.29 | 498.14 | 513.19 | 205.62 | 73.38 | 23.08 | 7.83 | 5.05 | 6.90 | 21.08 | 6.58 | 1851.11 |
| 1987 | 114.40 | 565.08 | 684.98 | 519.72 | 364.91 | 231.50 | 65.35 | 15.91 | 20.96 | 4.59 | 2.54 | 3.67 | 2593.61 |
| 1988 | 134.73 | 423.15 | 381.96 | 346.72 | 271.30 | 118.29 | 24.48 | 13.04 | 6.49 | 2.54 | 1.32 | 2.01 | 1726.04 |
| 1989 | 129.29 | 537.98 | 631.01 | 444.39 | 305.81 | 209.84 | 49.55 | 13.61 | 6.96 | 2.90 | 4.22 | 4.30 | 2339.86 |
| 1990 | 45.09 | 214.72 | 374.10 | 352.26 | 191.04 | 95.96 | 28.78 | 10.32 | 4.85 | 1.86 | 1.10 | 1.74 | 1321.82 |
| Media | 97.99 | 373.86 | 526.88 | 461.56 | 260.26 | 143.93 | 58.88 | 24.15 | 14.30 | 10.67 | 10.90 | 16.13 | 1999.52 |
| | (262.46) | (913.29) | (1411.19) | (1196.37) | (697.09) | (373.06) | (157.71) | (64.69) | (37.07) | (28.57) | (28.26) | (43.21) | (5212.96) |
| Max. | 266.19 | 582.90 | 726.13 | 629.86 | 415.92 | 325.28 | 249.51 | 142.10 | 105.59 | 63.33 | 97.15 | 207.91 | 3491.36 |
| Min. | 2.16 | 214.72 | 349.79 | 222.82 | 88.36 | 21.80 | 10.29 | 5.23 | 3.09 | 1.40 | 0.91 | 1.59 | 1225.22 |

Nota: Las cantidades que están en parntesis son millones de metros cúbicos

Tabla B.2.5 Estimación de la Escorrentía en el sitio de presa de derivación Santa Ana

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Anual |
|-------|-----------------|------------------|------------------|------------------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
| 1971 | 0.00 | 14.66 | 33.20 | 26.75 | 5.14 | 1.53 | 0.67 | 0.13 | 0.02 | 0.01 | 0.00 | 0.00 | 82.12 |
| 1972 | 0.00 | 14.11 | 27.33 | 24.82 | 11.24 | 19.54 | 13.67 | 2.77 | 1.65 | 1.18 | 0.33 | 1.54 | 118.18 |
| 1973 | 13.30 | 27.79 | 32.97 | 29.37 | 20.38 | 15.89 | 3.49 | 0.42 | 0.14 | 0.04 | 0.01 | 0.00 | 143.80 |
| 1974 | 0.70 | 16.47 | 25.22 | 12.48 | 4.42 | 1.35 | 0.44 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00 | 61.18 |
| 1975 | 11.82 | 34.35 | 41.06 | 30.33 | 12.41 | 3.78 | 0.99 | 0.24 | 0.06 | 0.02 | 0.03 | 0.00 | 135.08 |
| 1976 | 11.84 | 30.95 | 36.97 | 34.00 | 22.52 | 18.46 | 8.42 | 1.37 | 0.24 | 0.12 | 0.02 | 0.01 | 164.90 |
| 1977 | 3.58 | 14.04 | 28.67 | 26.13 | 9.71 | 2.55 | 0.65 | 0.15 | 0.02 | 0.01 | 0.00 | 0.00 | 85.50 |
| 1978 | 3.99 | 9.66 | 15.67 | 13.61 | 6.93 | 3.85 | 0.27 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 54.07 |
| 1979 | 0.00 | 15.56 | 20.14 | 13.30 | 7.05 | 2.83 | 0.46 | 0.10 | 0.01 | 0.01 | 0.00 | 0.00 | 59.46 |
| 1980 | 0.00 | 6.88 | 11.69 | 17.91 | 13.41 | 5.74 | 0.38 | 0.12 | 0.01 | 0.01 | 0.00 | 0.00 | 56.16 |
| 1981 | 0.00 | 19.96 | 36.01 | 28.09 | 12.84 | 1.33 | 0.39 | 0.12 | 0.02 | 0.01 | 0.00 | 0.00 | 98.78 |
| 1982 | 0.00 | 9.83 | 10.16 | 8.98 | 4.04 | 1.31 | 0.16 | 0.04 | 0.01 | 0.00 | 10.09 | 13.97 | 58.61 |
| 1983 | 19.42 | 31.85 | 45.05 | 50.03 | 39.37 | 37.13 | 26.12 | 17.63 | 9.07 | 8.61 | 0.42 | 0.17 | 284.87 |
| 1984 | 0.49 | 6.07 | 37.81 | 27.04 | 10.04 | 1.50 | 0.38 | 0.13 | 0.02 | 0.01 | 0.00 | 0.00 | 83.48 |
| 1985 | 5.02 | 9.09 | 14.40 | 12.78 | 5.79 | 1.87 | 0.28 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 49.32 |
| 1986 | 11.00 | 20.43 | 15.57 | 15.58 | 9.62 | 2.94 | 0.31 | 0.09 | 0.01 | 0.01 | 0.00 | 0.00 | 75.56 |
| 1987 | 0.00 | 29.55 | 33.66 | 32.16 | 25.97 | 12.06 | 0.79 | 0.38 | 2.77 | 0.29 | 0.04 | 0.01 | 137.70 |
| 1988 | 1.63 | 18.82 | 23.90 | 17.82 | 13.33 | 5.95 | 0.43 | 0.15 | 0.02 | 0.01 | 0.00 | 0.49 | 82.54 |
| 1989 | 15.39 | 33.60 | 26.62 | 22.41 | 12.38 | 3.02 | 0.43 | 0.15 | 0.02 | 0.24 | 0.00 | 0.00 | 114.26 |
| 1990 | 0.00 | 13.37 | 14.14 | 21.61 | 15.27 | 2.12 | 0.49 | 0.15 | 0.02 | 0.01 | 0.00 | 0.00 | 67.18 |
| Media | 4.91 (13.15) | 18.85 (46.94) | 26.51 (71.01) | 23.26 (60.29) | 13.09 (35.07) | 7.24 (18.76) | 2.96 (7.93) | 1.22 (3.26) | 0.71 (1.83) | 0.53 (1.42) | 0.55 (1.42) | 0.81 (2.17) | 100.64 (262.24) |
| Max. | 19.42 | 34.35 | 45.05 | 50.03 | 39.37 | 37.13 | 26.12 | 17.63 | 9.07 | 8.61 | 10.09 | 13.97 | 284.87 |
| Min. | 0.00 | 6.07 | 10.16 | 8.98 | 4.04 | 1.31 | 0.16 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 49.32 |

Nota: Las cantidades que están en paréntesis son millones de metros cúbicos

Table B.2.6 Estimación de la Escurrentía en el Río Chico (Confluencia con el Río Portoviejo)

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Anual |
|-------|-----------------|------------------|------------------|------------------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
| 1971 | 0.00 | 11.45 | 35.46 | 31.81 | 4.92 | 1.35 | 0.46 | 0.09 | 0.02 | 0.01 | 0.00 | 0.00 | 85.57 |
| 1972 | 0.00 | 11.26 | 30.81 | 31.01 | 13.33 | 21.60 | 13.30 | 1.89 | 1.69 | 0.99 | 0.10 | 1.66 | 127.64 |
| 1973 | 17.36 | 33.77 | 34.27 | 28.46 | 20.86 | 15.71 | 2.09 | 0.32 | 0.10 | 0.03 | 0.01 | 0.00 | 152.97 |
| 1974 | 0.00 | 14.33 | 23.62 | 10.80 | 3.40 | 1.00 | 0.22 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 53.41 |
| 1975 | 14.12 | 38.99 | 43.14 | 30.95 | 11.98 | 3.07 | 0.75 | 0.17 | 0.02 | 0.02 | 0.00 | 0.00 | 143.22 |
| 1976 | 13.79 | 33.96 | 39.74 | 38.40 | 25.41 | 18.99 | 6.44 | 0.74 | 0.19 | 0.06 | 0.01 | 0.00 | 177.75 |
| 1977 | 2.80 | 23.46 | 32.99 | 29.34 | 10.90 | 1.51 | 0.36 | 0.09 | 0.02 | 0.01 | 0.00 | 0.00 | 101.47 |
| 1978 | 4.24 | 14.01 | 19.60 | 13.49 | 6.09 | 2.62 | 0.23 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 60.31 |
| 1979 | 0.00 | 11.64 | 17.35 | 13.21 | 5.86 | 1.76 | 0.30 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 50.18 |
| 1980 | 0.00 | 4.34 | 13.45 | 21.23 | 15.21 | 4.93 | 0.36 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00 | 59.62 |
| 1981 | 0.00 | 15.46 | 21.51 | 13.41 | 6.24 | 0.54 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 57.30 |
| 1982 | 0.00 | 6.67 | 10.31 | 6.23 | 1.67 | 0.56 | 0.07 | 0.01 | 0.00 | 0.00 | 9.96 | 14.27 | 49.75 |
| 1983 | 20.81 | 31.17 | 37.57 | 45.11 | 44.53 | 45.46 | 31.59 | 19.97 | 11.83 | 9.91 | 0.46 | 0.19 | 298.61 |
| 1984 | 0.47 | 7.81 | 48.41 | 34.29 | 14.17 | 3.86 | 0.50 | 0.15 | 0.02 | 0.01 | 0.00 | 0.00 | 109.70 |
| 1985 | 5.37 | 8.16 | 15.67 | 18.54 | 11.11 | 5.00 | 0.70 | 0.12 | 0.02 | 0.01 | 0.00 | 0.00 | 64.68 |
| 1986 | 13.72 | 23.46 | 9.01 | 11.47 | 8.24 | 0.72 | 0.18 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 66.83 |
| 1987 | 0.00 | 28.71 | 37.12 | 31.77 | 24.22 | 8.83 | 0.66 | 0.25 | 0.29 | 0.05 | 0.01 | 0.00 | 131.92 |
| 1988 | 1.30 | 14.93 | 17.76 | 15.02 | 14.33 | 5.07 | 0.36 | 0.09 | 0.01 | 0.01 | 0.00 | 0.00 | 68.88 |
| 1989 | 5.94 | 39.81 | 31.64 | 24.18 | 11.23 | 1.63 | 0.37 | 0.08 | 0.02 | 0.01 | 0.00 | 0.00 | 114.92 |
| 1990 | 0.00 | 4.89 | 12.07 | 17.64 | 8.43 | 0.92 | 0.20 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 44.19 |
| Media | 5.00 (13.38) | 18.91 (46.07) | 26.58 (71.18) | 23.32 (60.44) | 13.11 (35.11) | 7.26 (18.81) | 2.96 (7.94) | 1.21 (3.24) | 0.71 (1.85) | 0.56 (1.49) | 0.53 (1.37) | 0.81 (2.16) | 100.95 (263.03) |
| Max. | 20.81 | 39.81 | 48.41 | 45.11 | 44.53 | 45.46 | 31.59 | 19.97 | 11.83 | 9.91 | 9.96 | 14.27 | 298.61 |
| Min. | 0.00 | 4.34 | 9.01 | 6.23 | 1.67 | 0.54 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 44.19 |

Nota: Las cantidades que están en parntesis son millones de metros cúbicos

Tabla B.2.7 Estimación de la Esorrentia en el Río Portoviejo (Confluencia con el Río Chico)

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Annual |
|-------|---------|---------|----------|----------|---------|---------|---------|--------|--------|--------|--------|--------|----------|
| 1971 | 0.00 | 26.12 | 64.42 | 52.00 | 7.67 | 2.20 | 0.59 | 0.14 | 0.03 | 0.01 | 0.00 | 0.00 | 153.19 |
| 1972 | 0.00 | 31.29 | 57.64 | 50.55 | 20.59 | 32.40 | 23.10 | 5.32 | 1.74 | 0.99 | 0.13 | 0.09 | 223.83 |
| 1973 | 21.17 | 49.50 | 57.17 | 53.30 | 37.10 | 25.43 | 5.12 | 0.64 | 0.21 | 0.06 | 0.02 | 0.00 | 249.73 |
| 1974 | 0.00 | 25.22 | 40.98 | 22.76 | 8.86 | 2.30 | 0.33 | 0.06 | 0.02 | 0.01 | 0.00 | 0.00 | 100.53 |
| 1975 | 22.57 | 69.66 | 81.96 | 61.52 | 23.27 | 4.80 | 1.39 | 0.35 | 0.06 | 0.04 | 0.01 | 0.00 | 265.63 |
| 1976 | 22.05 | 60.64 | 66.70 | 58.21 | 37.50 | 30.79 | 13.94 | 1.91 | 0.46 | 0.18 | 0.03 | 0.01 | 292.41 |
| 1977 | 6.73 | 28.45 | 53.78 | 49.45 | 18.65 | 3.89 | 1.41 | 0.25 | 0.04 | 0.03 | 0.01 | 0.00 | 162.69 |
| 1978 | 6.67 | 20.49 | 31.49 | 24.79 | 11.14 | 5.35 | 0.38 | 0.07 | 0.02 | 0.01 | 0.00 | 0.00 | 100.41 |
| 1979 | 0.00 | 25.95 | 34.44 | 22.73 | 13.27 | 4.16 | 0.40 | 0.09 | 0.02 | 0.01 | 0.00 | 0.00 | 101.08 |
| 1980 | 0.00 | 11.53 | 22.81 | 33.94 | 25.10 | 10.27 | 0.60 | 0.15 | 0.03 | 0.01 | 0.00 | 0.71 | 105.16 |
| 1981 | 1.27 | 30.95 | 56.25 | 46.04 | 19.64 | 1.54 | 0.45 | 0.06 | 0.03 | 0.01 | 0.00 | 0.00 | 156.24 |
| 1982 | 0.00 | 10.93 | 12.87 | 13.07 | 6.39 | 1.88 | 0.17 | 0.02 | 0.00 | 0.00 | 19.28 | 28.94 | 93.55 |
| 1983 | 40.00 | 67.96 | 86.47 | 97.30 | 93.93 | 100.45 | 58.17 | 35.00 | 18.67 | 18.16 | 0.91 | 0.32 | 617.34 |
| 1984 | 0.50 | 0.62 | 74.09 | 48.03 | 14.02 | 1.89 | 0.49 | 0.09 | 0.03 | 0.01 | 0.00 | 0.00 | 139.79 |
| 1985 | 12.41 | 18.25 | 29.17 | 27.30 | 13.04 | 3.64 | 0.40 | 0.09 | 0.02 | 0.01 | 0.00 | 0.00 | 104.33 |
| 1986 | 23.08 | 43.88 | 30.16 | 31.85 | 19.33 | 3.82 | 0.49 | 0.10 | 0.03 | 0.01 | 0.00 | 0.00 | 152.75 |
| 1987 | 0.00 | 57.22 | 66.29 | 58.81 | 46.39 | 19.60 | 1.19 | 0.57 | 4.83 | 0.45 | 0.03 | 0.01 | 255.39 |
| 1988 | 0.00 | 33.96 | 40.66 | 32.66 | 25.15 | 9.46 | 0.65 | 0.18 | 0.03 | 0.02 | 0.00 | 0.00 | 142.75 |
| 1989 | 28.80 | 67.18 | 53.60 | 45.57 | 22.65 | 3.62 | 0.66 | 0.19 | 0.03 | 0.03 | 0.00 | 0.00 | 222.34 |
| 1990 | 0.00 | 23.29 | 27.17 | 37.57 | 24.68 | 2.50 | 0.49 | 0.12 | 0.03 | 0.01 | 0.00 | 0.00 | 115.86 |
| Media | 9.26 | 35.15 | 49.41 | 43.37 | 24.42 | 13.50 | 5.52 | 2.27 | 1.31 | 1.00 | 1.02 | 1.50 | 187.75 |
| | (24.81) | (85.64) | (132.33) | (112.42) | (65.40) | (34.99) | (14.79) | (6.08) | (3.41) | (2.69) | (2.65) | (4.03) | (489.24) |
| Max. | 40.00 | 69.66 | 86.47 | 97.30 | 93.93 | 100.45 | 58.17 | 35.00 | 18.67 | 18.16 | 19.28 | 28.94 | 617.34 |
| Min. | 0.00 | 0.62 | 12.87 | 13.07 | 6.39 | 1.54 | 0.17 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 93.55 |

Nota: Las cantidades que están en parntesis son millones de metros cúbicos

Tabla B.2.8 Estimación de la Escorrentía en el Estuario del Río Portoviejo

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | JUL. | Agó. | Sep. | Oct. | Nov. | Dic. | Anual |
|-------|---------|----------|----------|----------|----------|---------|---------|--------|--------|--------|--------|--------|----------|
| 1971 | 0.00 | 39.09 | 99.91 | 80.57 | 10.79 | 2.50 | 0.81 | 0.21 | 0.05 | 0.01 | 0.01 | 0.00 | 233.95 |
| 1972 | 0.00 | 48.22 | 89.30 | 78.64 | 33.17 | 42.34 | 38.79 | 7.98 | 3.25 | 0.98 | 0.20 | 0.04 | 342.90 |
| 1973 | 65.94 | 98.23 | 88.03 | 72.71 | 53.02 | 30.80 | 6.56 | 1.06 | 0.29 | 0.06 | 0.02 | 0.01 | 416.73 |
| 1974 | 0.00 | 17.56 | 68.55 | 30.36 | 10.75 | 2.35 | 0.50 | 0.06 | 0.03 | 0.01 | 0.00 | 0.00 | 130.16 |
| 1975 | 63.38 | 131.03 | 126.10 | 85.56 | 32.13 | 5.17 | 2.07 | 0.57 | 0.09 | 0.04 | 0.01 | 0.01 | 446.17 |
| 1976 | 25.77 | 130.62 | 109.97 | 90.80 | 58.97 | 38.32 | 20.65 | 2.74 | 0.73 | 0.09 | 0.05 | 0.01 | 478.71 |
| 1977 | 26.39 | 67.30 | 89.72 | 74.33 | 27.99 | 4.07 | 1.40 | 0.36 | 0.06 | 0.03 | 0.01 | 0.00 | 291.66 |
| 1978 | 8.37 | 48.33 | 54.84 | 34.59 | 14.38 | 4.93 | 0.61 | 0.06 | 0.03 | 0.01 | 0.00 | 0.00 | 166.16 |
| 1979 | 0.00 | 38.78 | 47.58 | 31.81 | 16.76 | 3.62 | 0.60 | 0.10 | 0.03 | 0.01 | 0.00 | 0.00 | 139.31 |
| 1980 | 0.00 | 17.17 | 37.00 | 51.01 | 38.44 | 11.52 | 1.00 | 0.23 | 0.04 | 0.01 | 0.00 | 0.00 | 156.42 |
| 1981 | 0.00 | 48.24 | 63.28 | 41.88 | 17.38 | 1.25 | 0.38 | 0.06 | 0.02 | 0.01 | 0.00 | 0.00 | 172.49 |
| 1982 | 0.00 | 14.51 | 20.50 | 14.09 | 5.31 | 1.51 | 0.16 | 0.02 | 0.01 | 0.00 | 31.30 | 59.12 | 146.53 |
| 1983 | 103.57 | 117.46 | 116.52 | 124.41 | 138.46 | 126.25 | 104.15 | 71.61 | 39.36 | 19.73 | 1.70 | 0.72 | 963.94 |
| 1984 | 1.45 | 1.36 | 134.78 | 79.73 | 27.50 | 4.34 | 1.15 | 0.31 | 0.07 | 0.02 | 0.01 | 0.00 | 250.72 |
| 1985 | 31.87 | 29.77 | 43.89 | 44.56 | 26.85 | 8.80 | 1.19 | 0.28 | 0.05 | 0.01 | 0.00 | 0.00 | 187.27 |
| 1986 | 63.83 | 79.71 | 32.19 | 36.66 | 25.31 | 2.40 | 0.61 | 0.07 | 0.03 | 0.01 | 0.00 | 0.00 | 240.83 |
| 1987 | 0.00 | 95.49 | 103.18 | 80.30 | 62.71 | 20.12 | 1.85 | 0.85 | 2.33 | 0.19 | 0.04 | 0.01 | 367.08 |
| 1988 | 0.01 | 52.98 | 51.19 | 40.84 | 36.86 | 10.47 | 1.00 | 0.24 | 0.05 | 0.01 | 0.01 | 0.00 | 193.66 |
| 1989 | 28.51 | 134.93 | 89.33 | 64.44 | 29.77 | 3.55 | 1.03 | 0.24 | 0.06 | 0.02 | 0.01 | 0.00 | 351.89 |
| 1990 | 0.00 | 23.93 | 36.77 | 45.41 | 23.61 | 1.86 | 0.55 | 0.06 | 0.03 | 0.01 | 0.00 | 0.00 | 132.22 |
| Media | 20.95 | 61.74 | 75.13 | 60.14 | 34.51 | 16.31 | 9.25 | 4.36 | 2.33 | 1.06 | 1.67 | 3.00 | 290.44 |
| | (38.43) | (152.91) | (204.93) | (174.10) | (101.27) | (54.18) | (22.90) | (9.42) | (5.28) | (4.16) | (4.10) | (6.23) | (777.91) |
| Max. | 103.57 | 134.93 | 134.78 | 124.41 | 138.46 | 126.25 | 104.15 | 71.61 | 39.36 | 19.73 | 31.30 | 59.12 | 963.94 |
| Min. | 0.00 | 1.36 | 20.50 | 14.09 | 5.31 | 1.25 | 0.16 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 130.16 |

Nota: Las cantidades que están en parntesis son millones de metros cúbicos

Tabla B.2.9 Estimación de la Escorrentía en el Río Carrizal (Confluencia con el Río Chone)

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Anual |
|-------|---------|----------|----------|----------|---------|---------|---------|--------|--------|--------|--------|--------|----------|
| 1971 | 2.18 | 26.64 | 80.72 | 75.92 | 16.30 | 2.96 | 0.29 | 0.12 | 0.09 | 0.69 | 0.06 | 0.05 | 206.01 |
| 1972 | 6.99 | 35.11 | 68.06 | 60.01 | 30.47 | 43.21 | 30.72 | 7.67 | 2.15 | 0.80 | 0.09 | 7.36 | 292.63 |
| 1973 | 27.50 | 58.87 | 65.88 | 60.83 | 44.31 | 30.44 | 2.58 | 0.20 | 0.13 | 0.14 | 0.06 | 0.05 | 290.99 |
| 1974 | 1.80 | 31.08 | 46.30 | 24.79 | 9.11 | 3.10 | 0.95 | 0.09 | 0.08 | 0.12 | 0.06 | 0.05 | 117.53 |
| 1975 | 29.17 | 79.22 | 87.57 | 68.32 | 30.08 | 6.17 | 1.55 | 0.16 | 0.10 | 0.13 | 0.07 | 0.05 | 302.58 |
| 1976 | 23.16 | 62.41 | 77.24 | 72.20 | 50.46 | 45.32 | 16.50 | 2.12 | 0.20 | 0.18 | 0.07 | 0.05 | 349.89 |
| 1977 | 7.37 | 53.03 | 69.19 | 56.42 | 16.09 | 3.73 | 1.58 | 0.13 | 0.09 | 0.13 | 0.06 | 0.05 | 207.88 |
| 1978 | 4.14 | 37.51 | 59.14 | 41.71 | 19.11 | 13.96 | 0.30 | 0.11 | 0.09 | 0.12 | 0.06 | 0.05 | 176.31 |
| 1979 | 0.05 | 32.97 | 43.90 | 43.58 | 23.31 | 9.71 | 1.00 | 0.12 | 0.09 | 0.12 | 0.06 | 0.05 | 154.97 |
| 1980 | 0.05 | 23.46 | 40.59 | 46.67 | 28.92 | 6.18 | 0.28 | 0.10 | 0.08 | 0.12 | 0.06 | 0.05 | 146.58 |
| 1981 | 0.05 | 45.54 | 65.48 | 44.10 | 19.25 | 0.90 | 0.24 | 0.11 | 0.08 | 0.12 | 0.06 | 0.05 | 175.98 |
| 1982 | 2.40 | 17.54 | 26.44 | 32.46 | 21.25 | 3.58 | 0.34 | 0.10 | 0.08 | 0.12 | 23.09 | 29.26 | 156.67 |
| 1983 | 49.22 | 77.81 | 97.59 | 108.13 | 85.63 | 101.73 | 76.22 | 44.37 | 28.78 | 21.10 | 0.52 | 0.13 | 691.25 |
| 1984 | 2.78 | 16.38 | 94.60 | 69.90 | 26.42 | 3.95 | 0.33 | 0.12 | 0.09 | 0.12 | 0.06 | 0.05 | 214.81 |
| 1985 | 9.31 | 18.08 | 33.42 | 35.45 | 15.46 | 2.80 | 0.39 | 0.09 | 0.08 | 0.12 | 0.06 | 0.05 | 115.32 |
| 1986 | 23.93 | 46.30 | 32.36 | 44.22 | 33.13 | 6.98 | 0.49 | 0.12 | 0.09 | 0.12 | 0.28 | 0.05 | 188.07 |
| 1987 | 12.91 | 72.12 | 104.14 | 89.77 | 64.02 | 24.25 | 1.04 | 0.22 | 0.68 | 0.16 | 0.06 | 0.05 | 369.40 |
| 1988 | 11.62 | 45.24 | 51.49 | 28.51 | 30.73 | 20.74 | 1.31 | 0.15 | 0.09 | 0.13 | 0.06 | 0.05 | 190.11 |
| 1989 | 11.22 | 73.59 | 54.10 | 42.77 | 27.65 | 3.52 | 0.48 | 0.12 | 0.09 | 0.12 | 0.06 | 0.05 | 213.77 |
| 1990 | 2.34 | 19.91 | 29.25 | 29.08 | 14.58 | 1.99 | 0.47 | 0.09 | 0.08 | 0.12 | 0.06 | 0.05 | 98.02 |
| Media | 11.41 | 43.64 | 61.37 | 53.74 | 30.31 | 16.76 | 6.85 | 2.82 | 1.66 | 1.24 | 1.25 | 1.88 | 232.94 |
| | (30.56) | (106.36) | (164.38) | (139.30) | (81.19) | (43.45) | (18.36) | (7.54) | (4.31) | (3.32) | (3.23) | (5.03) | (607.04) |
| Max. | 49.22 | 79.22 | 104.14 | 108.13 | 85.63 | 101.73 | 76.22 | 44.37 | 28.78 | 21.10 | 23.09 | 29.26 | 691.25 |
| Min. | 0.05 | 16.38 | 26.44 | 24.79 | 9.11 | 0.90 | 0.24 | 0.09 | 0.08 | 0.12 | 0.06 | 0.05 | 98.02 |

Nota: Las cantidades que están en parntesis son millones de metros cúbicos

Tabla B.2.10 Estimación de la Escorrentía en el Río Chone (Confluencia con el Río Carrizal)

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Annual |
|-------|---------|----------|----------|----------|---------|---------|---------|--------|--------|--------|--------|--------|----------|
| 1971 | 0.05 | 22.17 | 79.98 | 77.03 | 11.71 | 2.25 | 0.34 | 0.12 | 0.10 | 0.19 | 0.05 | 0.06 | 194.04 |
| 1972 | 0.79 | 26.53 | 59.83 | 49.83 | 21.34 | 41.48 | 31.66 | 11.52 | 6.21 | 0.46 | 0.07 | 0.06 | 249.78 |
| 1973 | 23.91 | 35.51 | 46.68 | 59.73 | 39.50 | 21.02 | 2.62 | 0.93 | 0.15 | 0.21 | 0.05 | 0.06 | 230.38 |
| 1974 | 1.78 | 41.37 | 52.45 | 28.23 | 21.30 | 3.22 | 0.51 | 0.12 | 0.10 | 0.19 | 0.05 | 0.06 | 149.36 |
| 1975 | 23.29 | 70.23 | 99.54 | 89.35 | 29.96 | 5.17 | 2.46 | 0.51 | 0.14 | 0.21 | 0.05 | 0.06 | 320.96 |
| 1976 | 22.81 | 58.32 | 60.93 | 63.84 | 46.27 | 42.79 | 17.41 | 0.88 | 0.21 | 0.23 | 0.06 | 0.06 | 313.82 |
| 1977 | 18.82 | 66.44 | 83.48 | 60.92 | 18.64 | 3.06 | 1.60 | 0.15 | 0.10 | 0.20 | 0.05 | 0.06 | 253.53 |
| 1978 | 4.86 | 41.05 | 49.69 | 32.25 | 12.61 | 5.18 | 0.21 | 0.11 | 0.10 | 0.19 | 0.05 | 0.06 | 146.35 |
| 1979 | 0.05 | 34.17 | 38.05 | 22.66 | 8.97 | 4.13 | 2.07 | 0.13 | 0.10 | 0.19 | 0.05 | 0.06 | 110.63 |
| 1980 | 0.05 | 30.15 | 55.42 | 60.39 | 31.61 | 9.68 | 0.29 | 0.14 | 0.10 | 0.19 | 0.05 | 0.06 | 188.14 |
| 1981 | 3.75 | 57.69 | 81.09 | 55.91 | 24.57 | 1.06 | 0.24 | 0.12 | 0.10 | 0.19 | 0.05 | 0.06 | 224.86 |
| 1982 | 2.95 | 16.33 | 22.02 | 26.57 | 13.22 | 3.85 | 0.18 | 0.09 | 0.10 | 0.19 | 22.72 | 31.96 | 140.19 |
| 1983 | 43.28 | 87.58 | 114.07 | 108.28 | 118.56 | 139.04 | 68.46 | 38.77 | 23.04 | 19.96 | 0.45 | 0.14 | 761.62 |
| 1984 | 1.81 | 12.02 | 73.01 | 70.54 | 30.21 | 5.16 | 1.30 | 0.16 | 0.10 | 0.20 | 0.05 | 3.29 | 197.85 |
| 1985 | 11.09 | 26.83 | 36.21 | 26.95 | 13.30 | 2.68 | 0.18 | 0.10 | 0.10 | 0.18 | 0.05 | 0.06 | 117.73 |
| 1986 | 21.98 | 44.78 | 23.82 | 24.30 | 14.88 | 0.38 | 0.16 | 0.09 | 0.10 | 0.18 | 0.05 | 0.06 | 130.77 |
| 1987 | 4.52 | 57.25 | 78.26 | 64.40 | 49.79 | 20.17 | 0.76 | 0.21 | 1.49 | 0.26 | 0.06 | 0.06 | 277.23 |
| 1988 | 8.67 | 38.40 | 41.95 | 31.06 | 30.48 | 10.75 | 0.39 | 0.14 | 0.10 | 0.19 | 0.05 | 0.06 | 162.24 |
| 1989 | 23.56 | 65.29 | 58.21 | 45.28 | 18.51 | 0.93 | 0.21 | 0.10 | 0.10 | 0.19 | 0.05 | 0.06 | 212.49 |
| 1990 | 2.43 | 18.59 | 32.79 | 42.52 | 19.47 | 2.30 | 1.55 | 0.13 | 0.10 | 0.19 | 0.05 | 0.06 | 120.19 |
| Media | 11.02 | 42.54 | 59.37 | 52.00 | 28.74 | 16.22 | 6.63 | 2.73 | 1.63 | 1.20 | 1.21 | 1.82 | 225.11 |
| | (29.52) | (102.90) | (159.03) | (134.79) | (76.99) | (42.03) | (17.76) | (7.30) | (4.23) | (3.21) | (3.13) | (4.87) | (585.76) |
| Max. | 43.28 | 87.58 | 114.07 | 108.28 | 118.56 | 139.04 | 68.46 | 38.77 | 23.04 | 19.96 | 22.72 | 31.96 | 761.62 |
| Min. | 0.05 | 12.02 | 22.02 | 22.66 | 8.97 | 0.38 | 0.16 | 0.09 | 0.10 | 0.18 | 0.05 | 0.06 | 110.63 |

Nota: Las cantidades que están en parntesis son millones de metros cúbicos

Tabla B.2.11 Estimación de la Escorrentía en el Estuario del Río Chone

(Unidad: m³/s)

| Año | Ene. | Feb. | Mar. | Abr. | May | Jun. | Jul. | Ago. | Sep. | Oct. | Nov. | Dic. | Anual |
|-------|---------|----------|----------|----------|----------|---------|---------|---------|--------|--------|--------|--------|-----------|
| 1971 | 3.50 | 46.74 | 151.65 | 143.14 | 27.36 | 4.94 | 0.57 | 0.09 | 0.02 | 0.69 | 0.00 | 0.00 | 378.71 |
| 1972 | 5.17 | 61.01 | 123.44 | 107.12 | 51.99 | 81.14 | 59.78 | 17.04 | 6.57 | 0.99 | 0.06 | 7.13 | 521.44 |
| 1973 | 54.46 | 94.87 | 111.38 | 114.33 | 81.47 | 51.00 | 4.69 | 0.71 | 0.12 | 0.04 | 0.01 | 0.00 | 513.08 |
| 1974 | 3.63 | 65.92 | 92.11 | 49.32 | 25.48 | 5.74 | 1.26 | 0.05 | 0.02 | 0.01 | 0.00 | 0.00 | 243.54 |
| 1975 | 55.60 | 144.02 | 176.19 | 144.45 | 57.08 | 10.44 | 3.41 | 0.19 | 0.06 | 0.04 | 0.01 | 0.00 | 591.49 |
| 1976 | 47.30 | 112.61 | 132.96 | 129.70 | 93.03 | 83.72 | 31.56 | 2.88 | 0.24 | 0.12 | 0.01 | 0.00 | 634.12 |
| 1977 | 16.11 | 112.28 | 141.53 | 110.14 | 32.56 | 6.96 | 3.49 | 0.14 | 0.03 | 0.03 | 0.00 | 0.00 | 423.28 |
| 1978 | 9.13 | 73.21 | 104.36 | 71.61 | 31.29 | 19.00 | 0.32 | 0.07 | 0.02 | 0.01 | 0.00 | 0.00 | 309.03 |
| 1979 | 0.00 | 63.54 | 79.25 | 67.16 | 34.22 | 14.69 | 2.42 | 0.09 | 0.02 | 0.01 | 0.00 | 0.00 | 261.41 |
| 1980 | 0.00 | 47.79 | 87.57 | 97.31 | 56.50 | 14.41 | 0.37 | 0.09 | 0.02 | 0.01 | 0.00 | 0.00 | 304.07 |
| 1981 | 0.00 | 96.90 | 136.60 | 92.67 | 40.30 | 1.57 | 0.29 | 0.08 | 0.02 | 0.02 | 0.00 | 0.00 | 368.43 |
| 1982 | 5.36 | 31.82 | 47.43 | 58.13 | 34.69 | 6.55 | 0.27 | 0.04 | 0.01 | 0.01 | 45.42 | 58.59 | 288.31 |
| 1983 | 95.21 | 151.12 | 195.75 | 207.48 | 189.29 | 224.65 | 140.86 | 82.75 | 52.97 | 44.06 | 0.91 | 0.17 | 1385.23 |
| 1984 | 4.60 | 26.75 | 159.85 | 130.26 | 52.52 | 8.40 | 0.86 | 0.12 | 0.03 | 0.02 | 0.00 | 4.13 | 387.55 |
| 1985 | 19.98 | 40.54 | 65.34 | 60.61 | 27.61 | 5.10 | 0.21 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 219.45 |
| 1986 | 46.24 | 83.63 | 54.07 | 69.16 | 50.08 | 5.69 | 0.29 | 0.07 | 0.02 | 0.01 | 0.00 | 0.00 | 309.27 |
| 1987 | 11.00 | 126.57 | 178.99 | 152.35 | 111.08 | 42.09 | 1.52 | 0.27 | 1.79 | 0.10 | 0.01 | 0.00 | 625.78 |
| 1988 | 21.30 | 78.57 | 89.05 | 54.65 | 57.38 | 30.81 | 1.61 | 0.13 | 0.03 | 0.02 | 0.00 | 0.00 | 333.55 |
| 1989 | 22.27 | 133.99 | 103.79 | 81.16 | 45.43 | 4.34 | 0.32 | 0.07 | 0.02 | 0.01 | 0.00 | 0.00 | 391.41 |
| 1990 | 4.67 | 36.00 | 57.36 | 63.73 | 30.86 | 3.80 | 1.50 | 0.06 | 0.02 | 0.01 | 0.00 | 0.00 | 198.00 |
| Media | 21.28 | 81.39 | 114.43 | 100.22 | 56.51 | 31.25 | 12.78 | 5.25 | 3.10 | 2.31 | 2.32 | 3.50 | 434.36 |
| | (56.99) | (198.32) | (306.50) | (259.78) | (151.36) | (81.01) | (34.23) | (14.06) | (8.04) | (6.19) | (6.02) | (9.38) | (1131.87) |
| Max. | 95.21 | 151.12 | 195.75 | 207.48 | 189.29 | 224.65 | 140.86 | 82.75 | 52.97 | 44.06 | 45.42 | 58.59 | 1385.23 |
| Min. | 0.00 | 26.75 | 47.43 | 49.32 | 25.48 | 1.57 | 0.21 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 198.00 |

Nota: Las cantidades que están en paréntesis son millones de metros cúbicos

Tabla B.3.1 RECOPIACION DE INFORMACION DE DATOS DE SEDIMENTOS (1/3)

| Nº | Río | Estación | Período | Fecha | CAUDALES | | | | | |
|----------|-----------|------------------------|----------|----------|--------------------------------|----------------------------|-------|----------|--------|--------|
| | | | | | Líquido (m ³ /s) | Sólido (kg/s) | | | | |
| 1 | Río Jama | A.J. Mariano (en Jama) | 78-81 | 25/10/78 | 0.220 | 0.0021 | | | | |
| | | | | 21/09/81 | 0.338 | 0.0108 | | | | |
| 2 | Río Chone | Pte. Margarita | 82-83 | 16/03/82 | 2.079 | 0.1495 | | | | |
| | | | | 27/03/82 | 2.773 | 1.1397 | | | | |
| | | | | 17/02/83 | 28.337 | 68.0626 | | | | |
| | | | | 23/02/83 | 25.139 | 45.0038 | | | | |
| | | | | 24/02/83 | 34.151 | 25.6372 | | | | |
| | | | | 28/02/83 | 27.019 | 25.5221 | | | | |
| | | | | 01/03/83 | 29.607 | 249.8535 | | | | |
| | | | | 03/03/83 | 37.437 | 8.6068 | | | | |
| | | | | 04/03/83 | 37.449 | 51.6347 | | | | |
| | | | | 05/03/83 | 29.442 | 5.8619 | | | | |
| 3 | Río Chone | Pte. Olimpo | 82-83 | 07/03/83 | 28.940 | 71.6554 | | | | |
| | | | | 23/03/82 | 2.284 | 0.1277 | | | | |
| | | | | 25/03/82 | 1.863 | 0.1882 | | | | |
| | | | | 27/03/82 | 2.948 | 0.3187 | | | | |
| | | | | 28/03/82 | 1.534 | 0.2727 | | | | |
| | | | | 17/02/83 | 58.309 | 66.7696 | | | | |
| | | | | 23/02/83 | 107.489 | 149.3022 | | | | |
| | | | | 24/02/83 | 65.040 | 87.7390 | | | | |
| | | | | 28/02/83 | 87.689 | 1360.9596 | | | | |
| | | | | 01/03/83 | 156.198 | 207.8371 | | | | |
| 4 | Río Chone | Pte. Nuevo | 82 | 03/03/83 | 65.088 | 111.8147 | | | | |
| | | | | 04/03/83 | 64.792 | 157.1854 | | | | |
| | | | | 05/03/83 | 76.251 | 47.4739 | | | | |
| | | | | 07/03/83 | 74.572 | 33.5425 | | | | |
| | | | | 22/03/82 | 0.0810 | 0.0045 | | | | |
| | | | | 23/03/82 | 2.1830 | 0.1624 | | | | |
| | | | | 25/03/82 | 1.5250 | 0.1349 | | | | |
| | | | | 27/03/82 | 8.3790 | 1.6255 | | | | |
| | | | | 5 | Río Garrapata | Pte. Garrapata (A.J.Chone) | 71-83 | 22/02/78 | 2.099 | 0.3062 |
| | | | | | | | | 23/10/78 | 0.0820 | 0.0009 |
| 19/01/80 | 0.0570 | 0.0005 | | | | | | | | |
| 23/09/81 | 0.1070 | 0.0054 | | | | | | | | |
| 26/03/82 | 3.6020 | 0.6120 | | | | | | | | |
| 19/02/83 | 6.6270 | 6.022 | | | | | | | | |
| 25/02/83 | 12.765 | 13.0688 | | | | | | | | |
| 26/02/83 | 12.159 | 16.0353 | | | | | | | | |
| 02/03/83 | 15.553 | 16.9808 | | | | | | | | |
| 29/07/83 | 3.6430 | 2.5479 | | | | | | | | |
| | | | 21/11/83 | 0.2840 | 0.0199 | | | | | |

Tabla B.3.1 RECOPIACION DE INFORMACION DE DATOS DE SEDIMENTOS (2/3)

| Nº | Río | Estación | Periodo | Fecha | CAUDALES | |
|----------|--------------|-----------------------------|---------|----------|--------------------------------|------------------|
| | | | | | Líquido (m ³ /s) | Sólido (kg/s) |
| 6 | Río Mosquito | A.J. Grande (Pte. Mosquito) | 71-83 | 22/04/71 | 1.000 | 0.1089 |
| | | | | 29/06/78 | 0.2910 | 0.0028 |
| | | | 71-83 | 24/10/78 | 0.0670 | 0.0005 |
| | | | | 19/01/80 | 0.0990 | 0.0024 |
| | | | | 22/03/82 | 1.3400 | 0.3460 |
| | | | | 24/03/82 | 0.9370 | 0.2840 |
| | | | | 26/03/82 | 0.6070 | 0.0811 |
| | | | | 25/02/83 | 7.6640 | 7.9146 |
| | | | | 26/02/83 | 7.4900 | 7.4840 |
| 05/03/83 | 17.5700 | 10.6900 | | | | |
| 07/03/83 | 16.8200 | 9.7877 | | | | |
| 7 | Río Grande | A.J. Mosquito | 71-82 | 22/04/71 | 2.160 | 0.2860 |
| | | | | 23/02/78 | 3.4340 | 0.3956 |
| | | | | 29/06/78 | 0.5400 | 0.0074 |
| | | | | 24/10/78 | 0.1910 | 0.0019 |
| | | | | 19/01/80 | 0.118 | 0.0022 |
| | | | | 23/09/81 | 0.1500 | 0.0023 |
| | | | | 24/03/82 | 0.9540 | 0.0424 |
| | | | | 26/03/82 | 0.5950 | 0.0129 |
| | | | | 27/03/82 | 0.5110 | 0.0176 |
| 8 | Río Barro | A.J. Carrizal | 71-82 | 03/03/71 | 29.7500 | 11.0630 |
| | | | | 04/03/71 | 37.9700 | 15.0990 |
| | | | | 22/09/82 | 0.1250 | 0.0065 |
| 9 | Río Carrizal | Calceta (H-229) | 71-87 | 02/03/71 | 22.00 | 2.9130 |
| | | | | 10/12/76 | 0.4720 | 0.0136 |
| | | | | 23/02/78 | 9.294 | 0.8002 |
| | | | | 30/06/78 | 1.445 | 0.0136 |
| | | | | 21/06/79 | 1.061 | 0.0397 |
| | | | | 21/01/80 | 0.1660 | 0.0059 |
| | | | | 11/02/83 | 26.5360 | 11.8351 |
| | | | | 01/08/83 | 118.3780 | 157.7624 |
| | | | | 19/05/84 | 6.1600 | 0.5476 |
| 08/04/86 | 25.11 | 14.5775 | | | | |
| 21/05/86 | 10.1180 | 4.0238 | | | | |
| 10 | Río Junín | D.J. Palmar | 78-83 | 21/02/78 | 3.4600 | 1.2781 |
| | | | | 30/06/78 | 0.3200 | 0.0124 |
| | | | | 16/04/80 | 0.5040 | 0.0088 |
| | | | | 11/02/83 | 3.5760 | 1.2444 |
| | | | | 12/08/83 | 7.4410 | 13.3097 |

Tabla B.3.1 RECOPIACION DE INFORMACION DE DATOS DE SEDIMENTOS (3/3)

| Nº | Río | Estación | Período | Fecha | CAUDALES | |
|----------|----------------|------------------|---------|----------|--------------------------------|------------------|
| | | | | | Líquido (m ³ /s) | Sólido (kg/s) |
| 11 | Río Chico | En Alajuela | 78-83 | 22/01/78 | 1.5900 | 0.1640 |
| | | | | 02/07/78 | 0.3000 | 0.0080 |
| | | | | 16/02/83 | 9.4120 | 11.8328 |
| | | | | 08/08/83 | 2.7340 | 0.8183 |
| 12 | Río Portoviejo | Honorato Vásquez | 66-86 | 14/04/66 | 3.4750 | 0.2536 |
| | | | | 31/01/67 | 9.5000 | 0.4560 |
| | | | | 03/02/67 | Sin aforo | |
| | | | | 09/02/67 | 68.00 | 24.92 |
| | | | 66-86 | 16/02/67 | 23.10 | 3.165 |
| | | | | 22/02/67 | 8.41 | 0.412 |
| | | | | 22/02/67 | 12.08 | 14.25 |
| | | | | 24/02/67 | 139.20 | 84.21 |
| | | | | 03/03/67 | 11.51 | 1.18 |
| | | | | 08/03/67 | 16.50 | 2.79 |
| | | | | 13/03/67 | 5.555 | 0.505 |
| | | | | 28/03/67 | 1.85 | 0.017 |
| | | | | 18/09/81 | 2.8170 | 0.0992 |
| | | | | 14/02/83 | 12.487 | 2.5286 |
| 03/08/83 | 24.0250 | 3.3611 | | | | |
| 22/07/86 | 2.3510 | 0.0781 | | | | |
| 13 | Río Portoviejo | Santa Ana | 78-81 | 02/07/78 | 2.400 | 0.1056 |
| | | | | 21/02/78 | 4.3960 | 0.8062 |
| | | | | 27/10/78 | 0.4370 | 0.0128 |
| | | | | 18/06/79 | 3.9800 | 0.3347 |
| | | | | 18/09/81 | 1.8670 | 0.0892 |

Tabla B.3.2 Estimación de la Carga de Sedimentos en los Sitios de Presas

| Nombre de la Presa | Vida Util (Años) | Area de Captación (km ²) | Erosión Potencial (Ton/km ² /año) | Coefficiente de Entrega | Producción de Sedimentos (Ton/km ² /año) | Sedimento Total (Ton/10 ⁶) | Volumen de Sedimento (m ³ x10 ⁶) |
|--------------------|------------------|--------------------------------------|--|-------------------------|---|--|---|
| La Esperanza | 100 | 445 | 4,645 | 0.2787 | 1,295 | 68.53 | 52.72 |
| Poza Honda | 100 | 170 | 4,734 | 0.3596 | 1,702 | 34.72 | 26.71 |
| Chirijos | 100 | 80 | 3,722 | 0.4280 | 1,379 | 13.21 | 10.16 |
| Daule-Peripa | 50 | 4,280 | - | - | - | 115.17 | 88.60 |

FIGURAS

CUENCAS FLUVIOMETRICAS DE LA PROVINCIA DE MANABI

| No | CUENCAS | AREA (km ²) |
|----|-------------|-------------------------|
| 1 | COJIMBA | 718 |
| 2 | CUACHI | 718 |
| 3 | DON JUAN | 204 |
| 4 | JAMA | 1,308 |
| 5 | RIO CANA | 368 |
| 6 | RIO BRICEÑO | 342 |
| 7 | RAMA | 544 |
| 8 | CHONE | 2,267 |
| 9 | PORTOVIEJO | 2,080 |
| 10 | MANTA | 1,024 |
| 11 | SANCAN | 148 |
| 12 | CANTAGALLO | 82 |
| 13 | JIJLIAPA | 260 |
| 14 | SALATE | 128 |
| 15 | RUZAVISTA | 280 |
| 16 | AYAMPE | 332 |
| 17 | SALANGO | 85 |
| 18 | ESMERALDAS | 2,028 |
| 19 | DAULF | 5,036 |
| 20 | FUCA | 1,136 |
| 21 | COLIMER | 980 |
| 22 | QUAHABANO | 165 |

Stations

- - Discharge
- - Rainfall

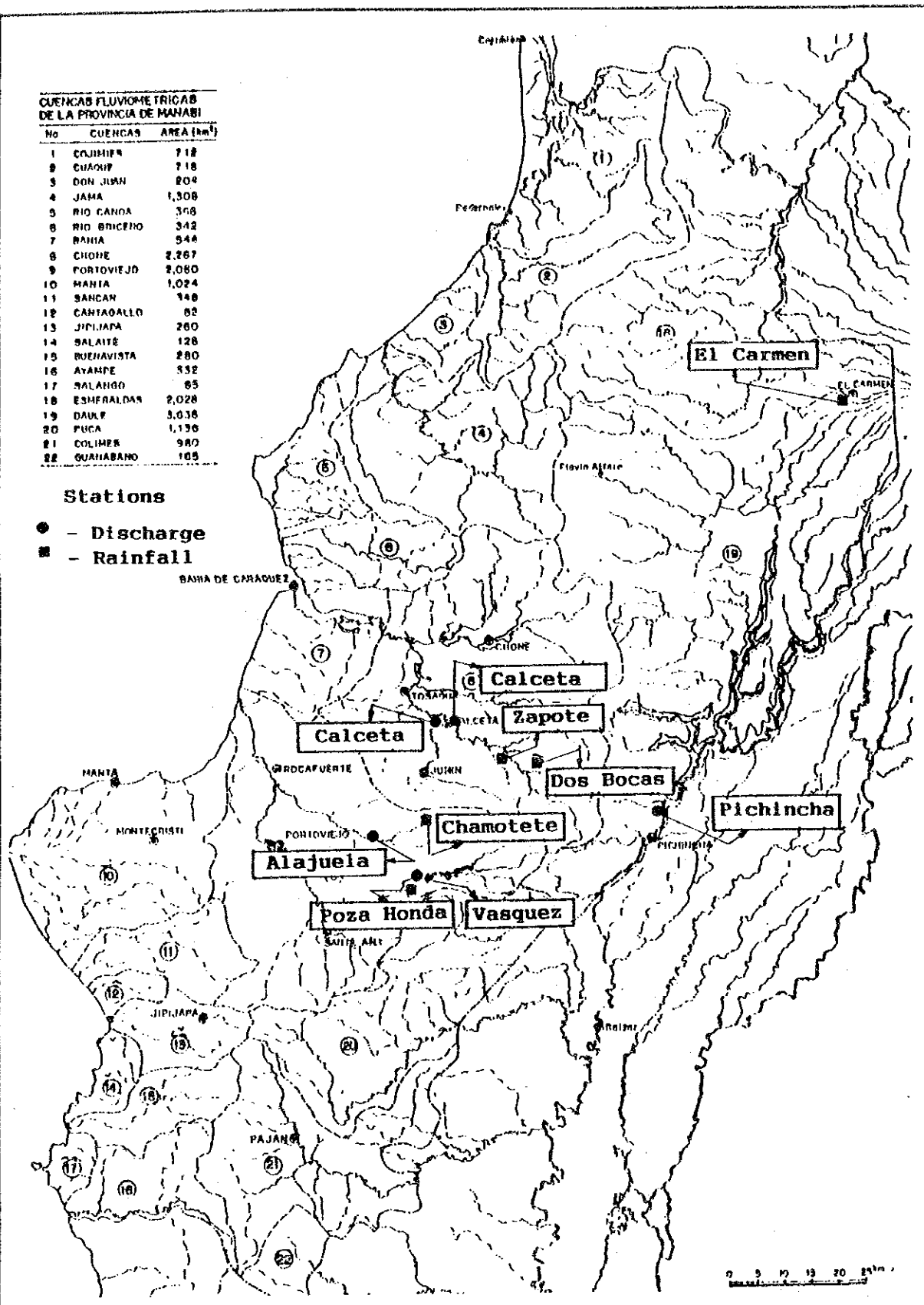


Fig. B.1.1

Localización de Estaciones Meteorológicas y Estaciones de Medición de Caudales.

GOVERNMENT OF THE REPUBLIC OF ECUADOR
 CENTRO DE REHABILITACION DE MANABI (CRM)
 THE FEASIBILITY STUDY ON THE WATER
 RESOURCES DEVELOPMENT FOR
 CHONE-PORTOVIEJO RIVER BASINS

JAPAN INTERNATIONAL COOPERATION AGENCY

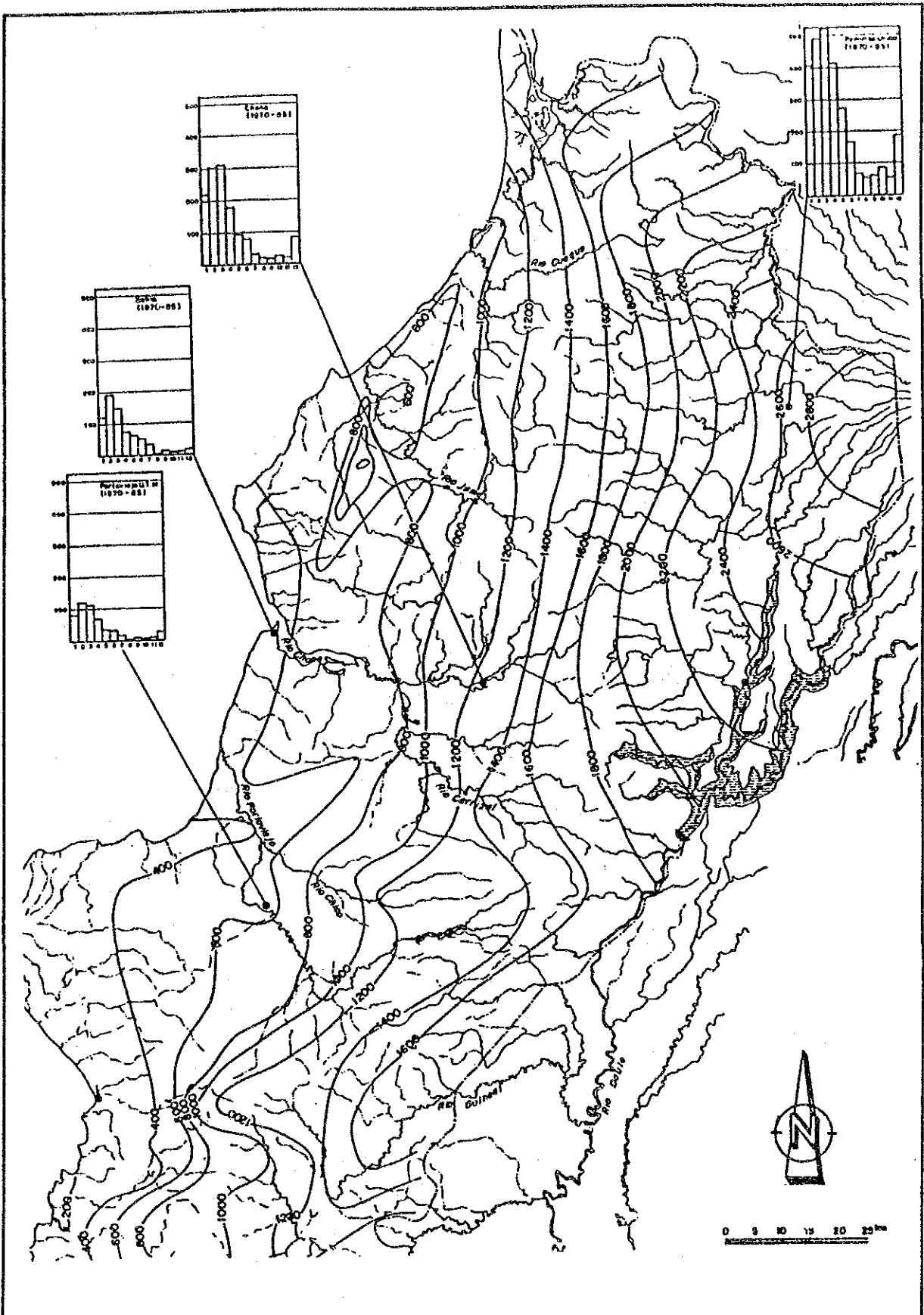


Fig. B.1.2 Mapa de Isoyetas para el Area de Estudio

GOVERNMENT OF THE REPUBLIC OF ECUADOR
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 RESOURCES DEVELOPMENT FOR
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 JAPAN INTERNATIONAL COOPERATION AGENCY

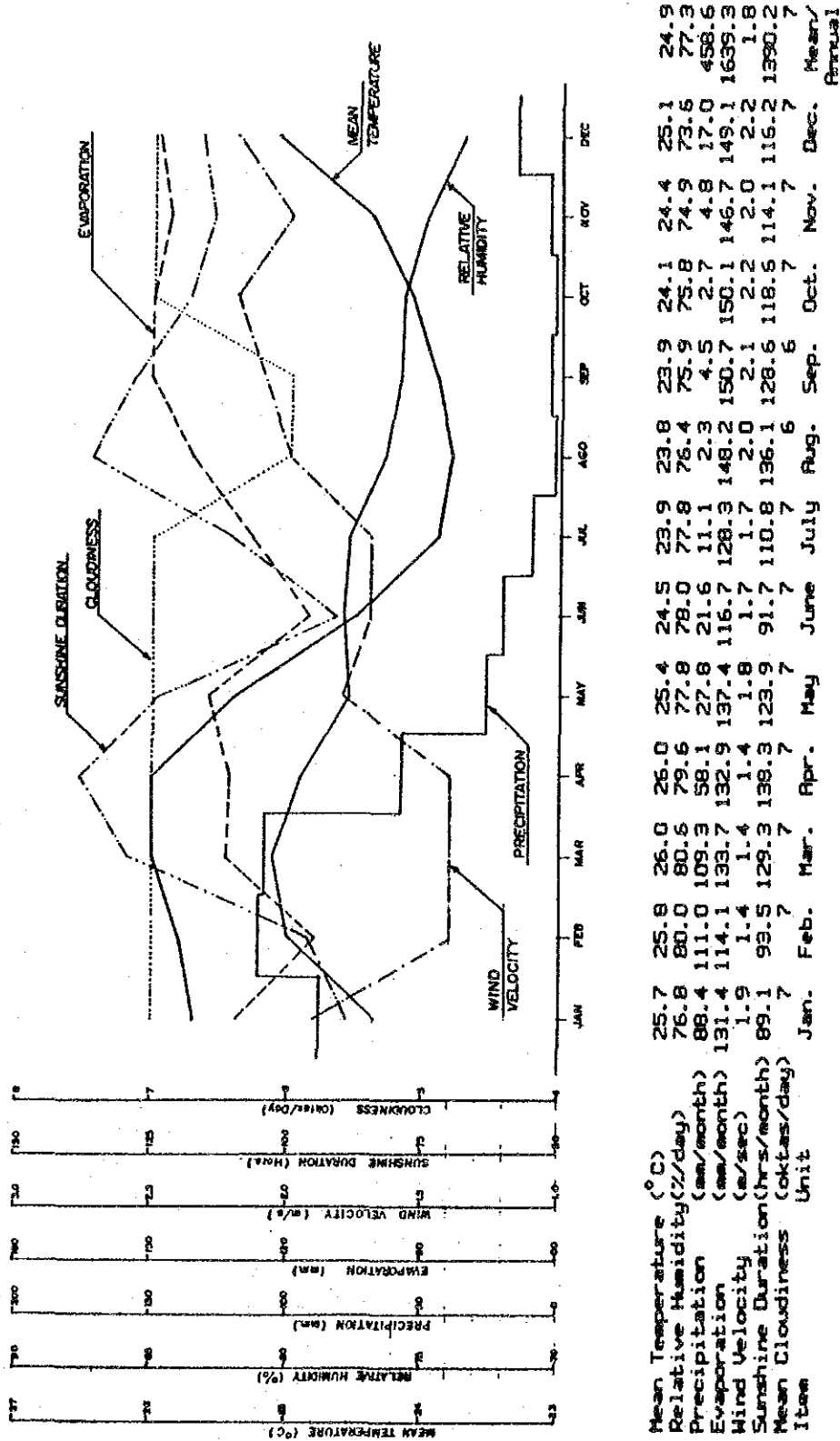


Fig. B.2.1 Valores Medios Meteorológicos e Hidrológicos de la Estación Portoviejo - UTM.

GOVERNMENT OF THE REPUBLIC OF ECUADOR
 CENTRO DE REHABILITACION DE MAMBI (CRM)
 THE FEASIBILITY STUDY ON THE WATER
 RESOURCES DEVELOPMENT FOR
 CHONE-PORTOVIEJO RIVER BASINS

JAPAN INTERNATIONAL COOPERATION AGENCY

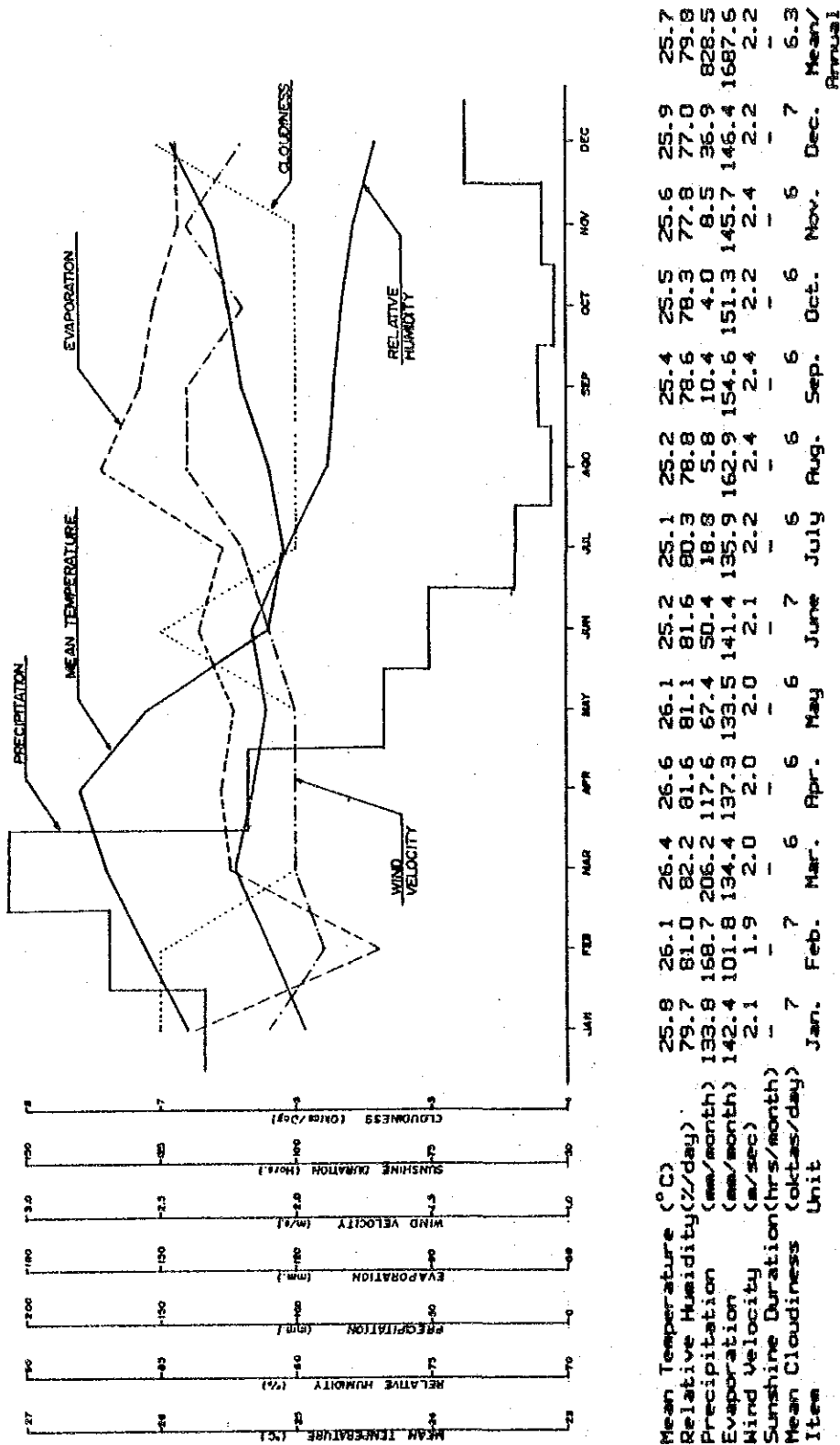
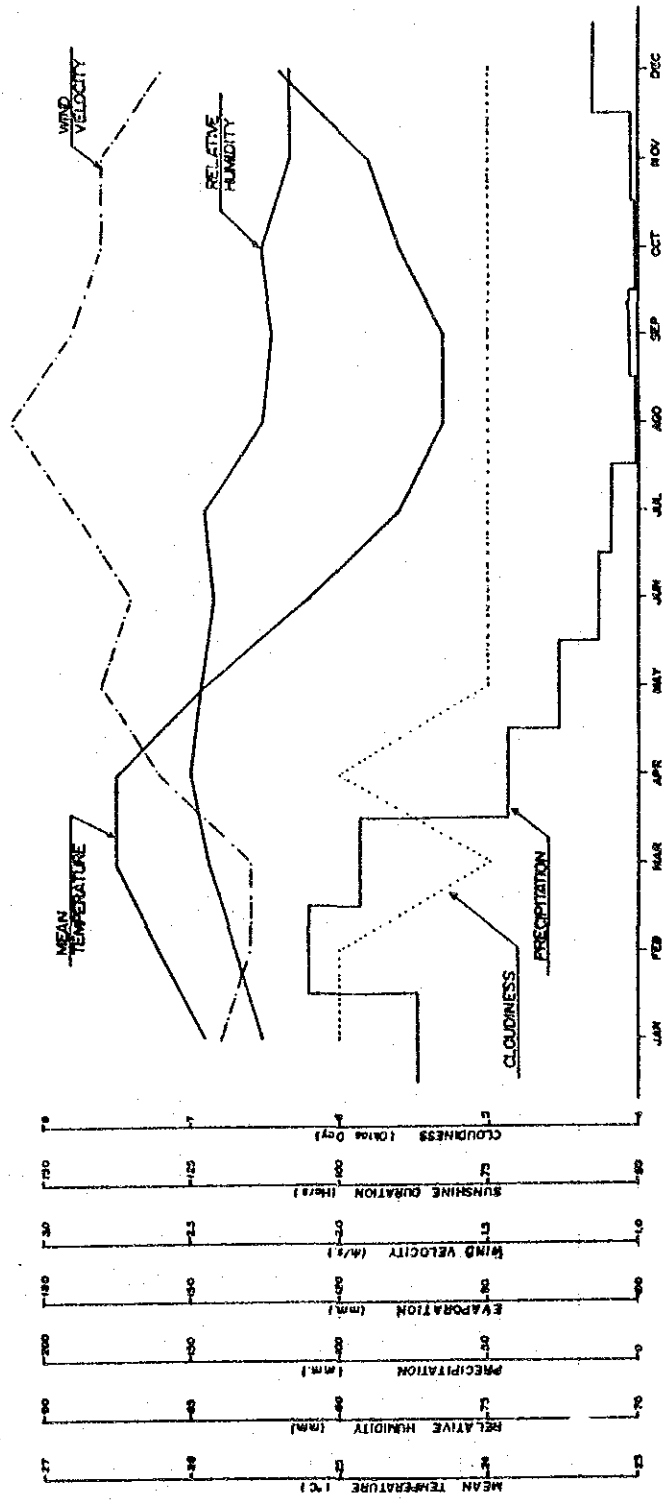


Fig. B.2.2 Valores Medios Meteorológicos e Hidrológicos de la Estación Santa Ana.

GOVERNMENT OF THE REPUBLIC OF ECUADOR
 CENTRO DE REHABILITACION DE MANABI (CRM)
 THE FEASIBILITY STUDY ON THE WATER
 RESOURCES DEVELOPMENT FOR
 CHONE-PORTOVIEJO RIVER BASINS

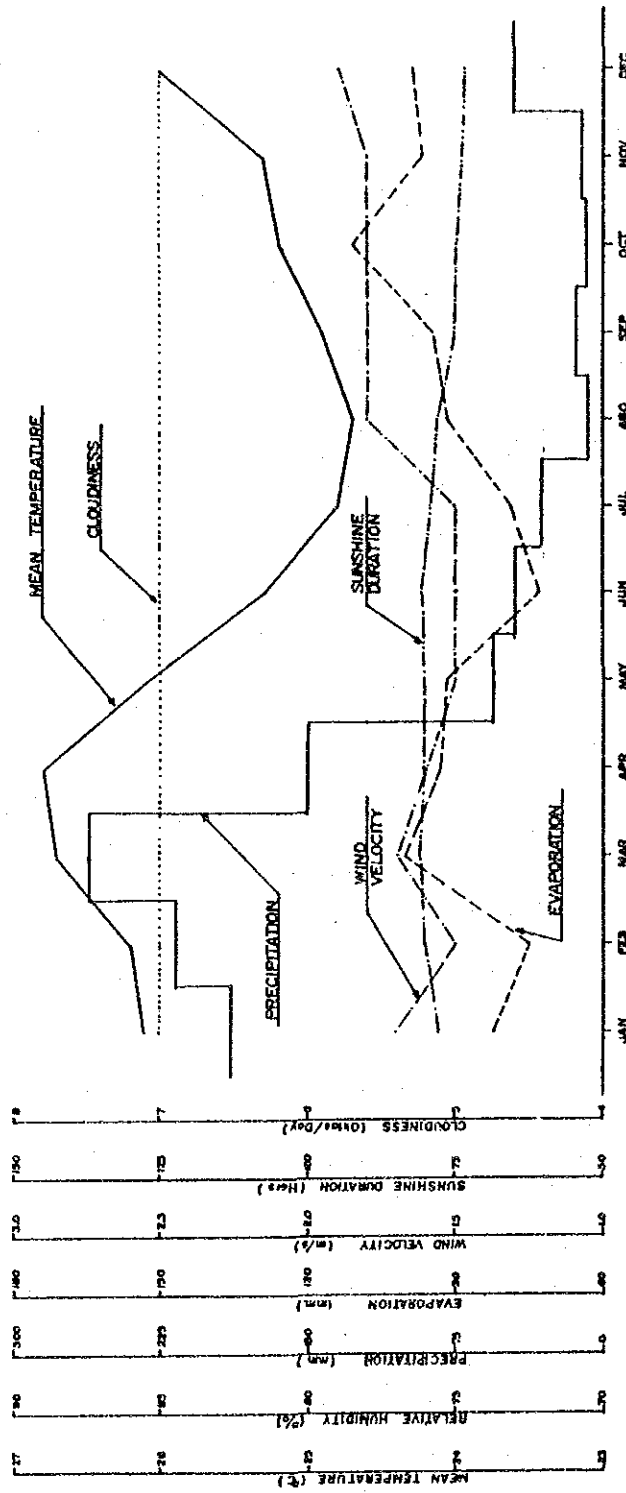
JAPAN INTERNATIONAL COOPERATION AGENCY



| Item | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Annual/ |
|-------------------------------|------|-------|------|------|------|------|------|------|------|------|------|------|---------|
| Mean Temperature (°C) | 25.9 | 26.2 | 26.5 | 26.5 | 25.9 | 25.2 | 24.6 | 24.3 | 24.3 | 24.6 | 24.8 | 25.4 | 25.4 |
| Relative Humidity (%) | 82.6 | 83.5 | 84.4 | 85.0 | 84.6 | 84.2 | 84.5 | 82.6 | 82.3 | 82.6 | 81.7 | 81.7 | 83.3 |
| Precipitation (mm/month) | 74.0 | 110.8 | 93.3 | 43.7 | 26.9 | 13.8 | 9.0 | 1.2 | 3.5 | 1.7 | 2.6 | 15 | 395.5 |
| Evaporation (mm/month) | 2.4 | 2.3 | 2.3 | 2.6 | 2.8 | 2.7 | 2.9 | 3.1 | 2.9 | 2.8 | 2.8 | 2.6 | 2.7 |
| Wind Velocity (m/sec) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sunshine Duration (hrs/month) | 6 | 6 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mean Cloudiness (oktas/day) | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Annual |

Fig. B.2.3 Valores Medios Meteorológicos e Hidrológicos de la Estación Rocafuerte.

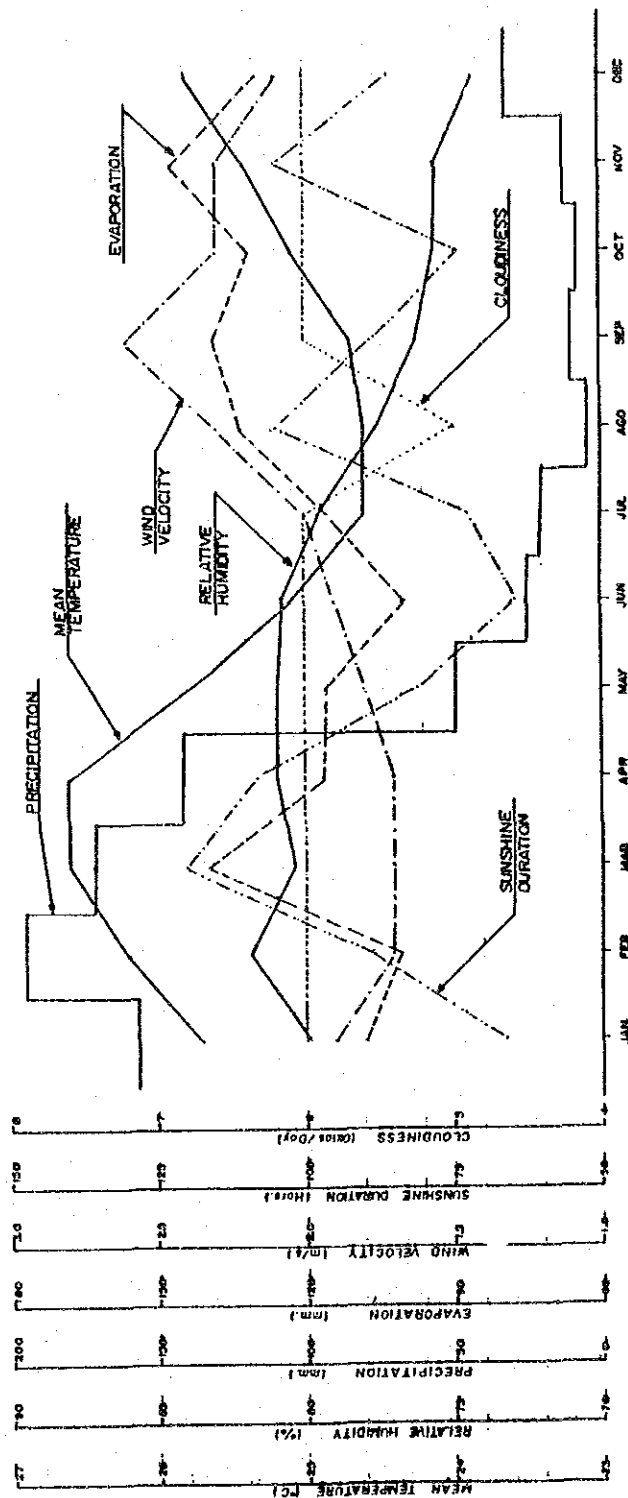
GOVERNMENT OF THE REPUBLIC OF ECUADOR
 CENTRO DE REHABILITACION DE MANABI (CRM)
 THE FEASIBILITY STUDY ON THE WATER
 RESOURCES DEVELOPMENT FOR
 CHONE-PORTOVIEJO RIVER BASINS
 JAPAN INTERNATIONAL COOPERATION AGENCY



| Item | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Mean/Annual |
|---------------------------------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|-------------|
| Mean Temperature (°C) | 26.1 | 26.2 | 26.7 | 26.8 | 26.1 | 25.3 | 24.8 | 24.7 | 24.9 | 25.2 | 25.3 | 26.0 | 25.7 |
| Relative Humidity (%/day) | 189.2 | 216.3 | 261.1 | 151.5 | 56.2 | 45.1 | 91.9 | 8.2 | 13.6 | 8.6 | 11.4 | 46.1 | 1039.2 |
| Precipitation (mm/month) | 82.3 | 75.1 | 99.8 | 93.0 | 91.5 | 73.6 | 79.0 | 91.6 | 94.7 | 110.6 | 96.8 | 98.6 | 1086.6 |
| Evaporation (mm/month) | 1.7 | 1.5 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.7 |
| Wind Velocity (m/sec) | 77.5 | 80.1 | 81.0 | 80.3 | 80.2 | 80.8 | 79.1 | 78.0 | 75.2 | 74.9 | 73.8 | 73.4 | 77.9 |
| Sunshine Duration (oktas/month) | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7.0 |
| Mean Cloudiness Unit | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Mean/Annual |

Fig. B.2.4 Valores Medios Meteorológicos e Hidrológicos de la Estación Calcuta.

GOVERNMENT OF THE REPUBLIC OF ECUADOR
 CENTRO DE REHABILITACION DE MAMBI (CRM)
 THE FEASIBILITY STUDY ON THE WATER
 RESOURCES DEVELOPMENT FOR
 CHONE-PORTOVIEJO RIVER BASINS
 JAPAN INTERNATIONAL COOPERATION AGENCY



| Item | Jan. | Feb. | Mar. | Rpr. | May | June | July | Rug. | Sep. | Oct. | Nov. | Dec. | Annual |
|-------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|
| Mean Temperature (°C) | 25.7 | 26.2 | 26.6 | 26.6 | 25.8 | 25.1 | 24.6 | 24.6 | 24.7 | 25.1 | 25.4 | 25.9 | 25.5 |
| Relative Humidity (%/day) | 79.9 | 81.9 | 80.4 | 81.0 | 81.0 | 80.8 | 79.6 | 77.6 | 76.2 | 75.6 | 75.6 | 74.3 | 78.7 |
| Precipitation (mm/month) | 156.6 | 194.6 | 171.6 | 141.2 | 49.4 | 25.6 | 20.4 | 5.7 | 10.0 | 8.0 | 12.4 | 32.1 | 827.6 |
| Evaporation (mm/month) | 107.9 | 100.4 | 139.6 | 116.1 | 115.8 | 99.9 | 115.2 | 133.1 | 138.6 | 131.1 | 146.8 | 129.5 | 1474.0 |
| Wind Velocity (m/sec) | 1.9 | 1.7 | 1.7 | 1.7 | 1.8 | 1.9 | 2.0 | 2.3 | 2.6 | 2.3 | 2.3 | 2.1 | 2.0 |
| Sunshine Duration (hrs/month) | 66.3 | 88.8 | 120.5 | 108.0 | 81.0 | 64.6 | 72.5 | 104.8 | 88.3 | 74.5 | 105.0 | 85.6 | 1059.9 |
| Mean Cloudiness (oktas/day) | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |

Fig. B.2.5 Valores Medios Meteorológicos e Hidrológicos de la Estación La Estancilla.

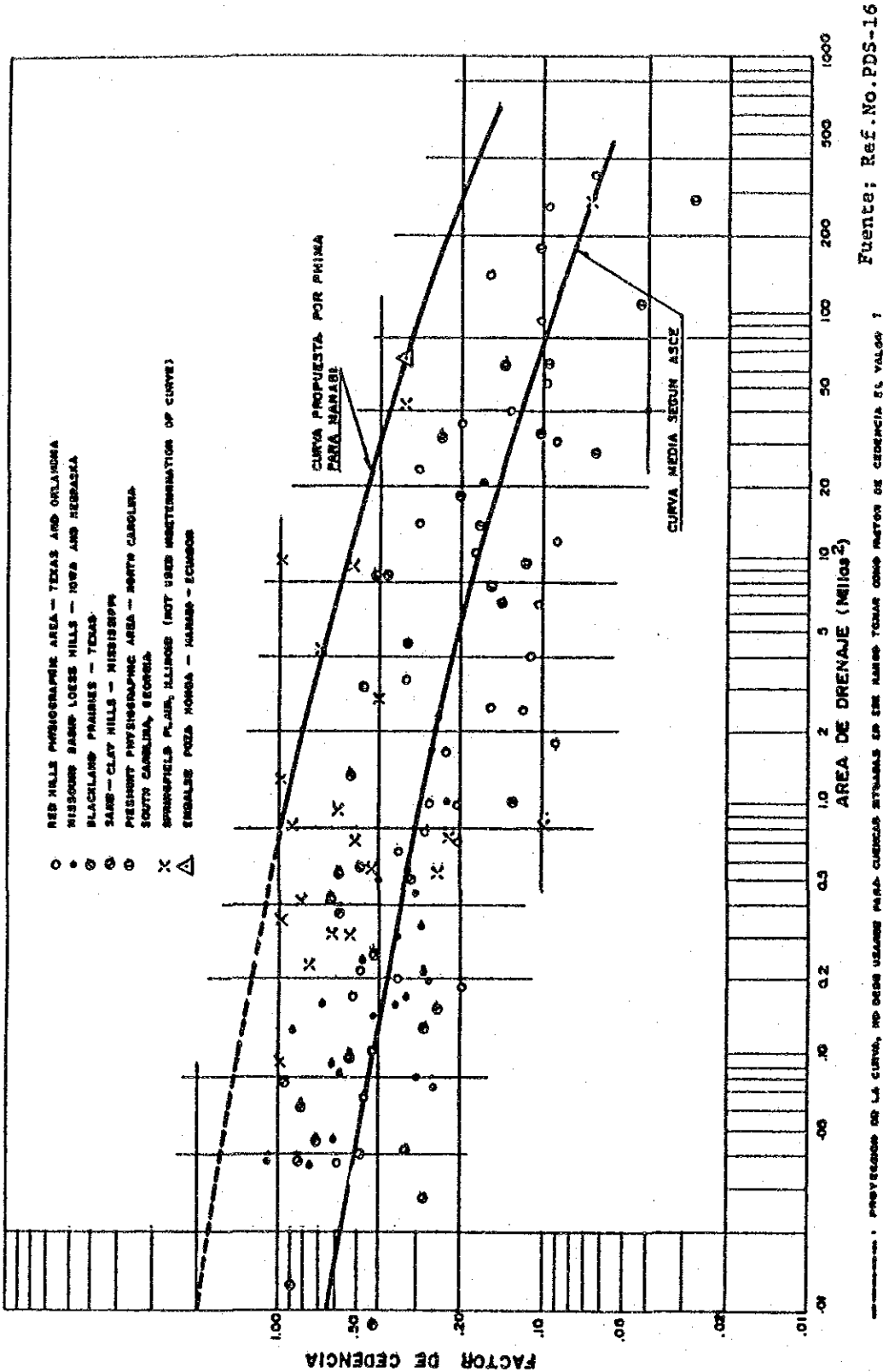


Fig. B.3.1 Relación entre el tamaño de la Cuenca de Captura y la Tasa de Suministro de Sedimento.

LISTA DE DATOS RECOLECTADOS(1/2)

| No | Title | Source |
|----|---|---|
| 1 | Daily and monthly precipitation of different periods, from the stations seen by the project. | <ul style="list-style-type: none"> •Metheorologic annuary from INAMHI (1962-1986). •Documents (source) in INAMHI •Original information, CRM •Information in the ownstation |
| 1 | PRECIPITACIONES DIARIAS Y MENSUALES DE DIVERSOS PERIODOS, DE LAS ESTACIONES CONTEMPLADAS EN EL PROYECTO. | <ul style="list-style-type: none"> •ANUARIOS METEOROLOGICOS DEL INAMHI (1962-1986). •DOCUMENTOS FUENTES, EN EL INAMHI •INFORMACION ORIGINAL, CRM •INFORMACION EN PROPIA ESTACION |
| 2 | Average daily levels, daily average discharges, monthly average discharges from the stations taken under consideration for the project, and corresponding to different periods. | <ul style="list-style-type: none"> •Hydrologic annuary from INAMHI (1963-1984). •Additional studies for the redesign of the "La Esperanza" dam - Multiple Project Carrizal-Chone, made by INTECSA (Hydrologic Report No 4-A). |
| 2 | NIVELES MEDIOS DIARIOS, CAUDALES MEDIOS DIARIOS Y, CAUDALES MEDIOS MENSUALES DE LAS ESTACIONES CONSIDERADAS EN EL PROYECTO, Y CORRESPONDIENTES A DIFERENTES PERIODOS. | <ul style="list-style-type: none"> •ANUARIOS HIDROLOGICOS DEL INAMHI (1963-1984). •ESTUDIOS ADICIONALES PARA EL REDISEÑO DE LA PRESA "LA ESPERANZA" PROYECTO MULTIPLE CARRIZAL-CHONE REALIZADO POR INTECSA INFORME HIDROLOGICO No 4-A). |
| 3 | Metheorologic parameters (monthly average temperatures figures) of average temperatures, relative humidity, precipitations, evaporation (Tank a), wind velocity, sun duration or hours, cloudyness. | <ul style="list-style-type: none"> •Metheorologic annuaries from INAMNI (1962-1986) |
| 3 | PARAMETROS METEOROLOGICOS (VALORES MENSUALES DE TEMPERATURAS MEDIAS, DE HUMEDAD RELATIVA PRECIPITACIONES, EVAVOPACION (TANQUE A), VELOCIDAD DEL VIENTO, DURACION U HORAS DE SOL, NUBOSIDAD. | <ul style="list-style-type: none"> •ANUARIOS METEOROLOGICOS DEL INAMHI (1962-1986) |
| 4 | Sediment data at the Hydrometric stations taken under consideration in the studies. | <ul style="list-style-type: none"> •Hydrologic annuaries from INAMHI (1963-1984). •Goals of the Multiple Project Chone (Association ACI-1983). •Sediment and erosion studies by PHIMA (1988). |

LISTA DE DATOS RECOLECTADO(2/2)

Cont.

| No | Title | Source |
|----|---|---|
| 4 | DATOS DE SEDIMENTOS DE LAS ESTACIONES HIDROMETRICAS CONSIDERADAS EN EL ESTUDIO. | <ul style="list-style-type: none"> • ANUARIOS HIDROLOGICOS DEL INAMHI (1963-1984). • PROYECTO DE PROPOSITO MULTIPLE CHONE (ASOCIACION ACI-1983). • ESTUDIOS DE EROSION Y SEDIMENTOS POR EL PHIMA (1988). |

INAMHI: INSTITUTO NACIONAL DE METEOROLOGIA E HIDROLOGIA
 - NATIONAL INSTITUTE OF METHEOROLOGY AND HYDROLOGI

CRM: CENTRO DE REHABILITACION DE MANABI
 - MANABI REHABILITATION CENTER

PHIMA: PLAN INTEGRAL DE DESARROLLO DE LOS RECURSOS HIDRICOS DE LA
 PROVINCIA DE MANABI.
 - INTEGRATED WATER RESOURCES DEVELOPMENT OF THE PROVINCE
 OF MANABI.

INTECSA: INTERNACIONAL DE INGENIERIA Y ESTUDIOS TECNICOS, S.A. (ESPAÑA)
 - INTERNATIONAL OF ENGINEERING AND TECHNICAL STUDIES, S.A. (ESPAÑA)

REFERENCE

TEXTOS DE REFERENCIA UTILIZADOS

1. Anuarios hidrológicos del INAMHI (Instituto Nacional de Meteorología e Hidrología). Desde 1963 a 1984.

Hydrological yearbook of INAMHI (Metheorology and Hydrology National Institute).

2. Anuarios meteorológicos del INAMHI (Instituto Nacional de Meteorología e Hidrología). Desde 1962 a 1986.

Meteorological yearbook of INAMHI (Metheorology and Hydrology National Institute).

3. Informe Final, Volumen II y III. Informes Sectoriales. Plan Integral de Desarrollo de los Recursos Hídricos de la Provincia de Manabí. CONADE-INNERHI-CRM/JICA.

Final Report, Volume II & III. Sectorial Reports. Integrated Water Resources Development of the Province of Manabi. CONADE-INNERHI-CRM/JICA.

4. Informe de Hidrología y Meteorología - Presa Daule-Peripa. Comisión de Estudios para el Desarrollo de la Cuenca del Río Guayas. TAMS-AHT-INTEGRAL, Octubre, 1978.

Hydrology and Metheorology Report - Daule-Peripa dam. Comission of studies for the development of the Guayas river basin. TAMS-AHT-Integral, October, 1978.

5. Informe Hidrológico - Volumen II. Estudios adicionales para el Rediseño de la Presa "La Esperanza" del Proyecto Múltiple Carrizal-Chone. Asociación INTECSA-GEOSISA. Junio, 1984.

Hydrologic Report - Volume II. Additional studies for the redesign of the "La Esperanza" dam of the Multiple Development Carrizal-Chone. Association Intecsa-Geosisa. June, 1984.

REFERENCE (CONTINUED)

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Anexos: Tomo I.- Datos Climáticos y Generación de Caudales
Tomo II.- Datos Climáticos y Generación de Caudales
Tomo III.- (Complemento) Hidrogramas para diferentes períodos
de retorno.

Plan Integral de Desarrollo de los Recursos Hídricos de la Provincia
de Manabí. Convenio: CRM-INERHI-CONADE-OEA. Portoviejo, Ecuador.
1988.

HIDROLOGY AND

Additions: Volume I.- Climate data and discharge generation
Volume II.- Climate data and discharge generation
Volume III.- (Complement) Hydrograms for different return
periods.

Integrated Water Resources Development of the province of Manabi.
Agreement: CRM-INERHI-CONADE-OEA. Portoviejo, Ecuador, 1988.

7. Erosión y Sedimentos, y

Anexos: Erosión y Sedimentos. Plan Integral de Desarrollo de los
Recursos Hídricos de la Provincia de Manabí.

Convenio: CRM-INERHI - CONADE - OEA. Portoviejo, Ecuador. 1988

Erosion and Sediments, and

Additions: Erosion and Sediments. Integrated Water Resources
development of the province of Manabi.

Agreement: CRM-INERHI-CONADE-OEA. Portoviejo, Ecuador. 1988.

8. Hidrología: Anexos A3.1 - A3.50

Presa Poza Honda. Proyecto Definitivo. Consorcio de Ingenieros
Consultores. HOLFELDER · RHEIN-RUHR
FREIBURG · DORTMUND

República Federal de Alemania

CRM-Centro de Rehabilitación de Manabí, Agosto, 1968.

Hydrology: Additions A3.1 - A3.50

Poza Honda Dam. Final Project. Consultant Engineering Team

HOLFELDER · RHEIN-RUHR

FREIBURG · DORTMUND

Federal Republic of Germany

REFERENCE (CONTINUED)

CRM. Manabi Rehabilitation Center, August, 1968.

9. Tecnología de Transporte de Sedimentos

Por Daryl B. Simons y Fuat Sentürk

Publicaciones de Recursos de Agua

Fort Collins, Colorado 80522, USA. 1977

Sediment Transport Technology

By Daryl B. Simons and Fuat Sendürk

Water Resources Publications

Fort Collins, Colorado 80522, USA. 1977

10. Ingeniería de Sedimentación

Por el Comité ASCE TASK para la preparación del Manual de Sedimentación del Comité de Sedimentación de la División Hidrológica.

Vito A. Vanoni, Editor. 1975.

Sedimentation Engineering

By the ASCE TASK Committee for the preparation of the Manual on Sedimentation of the Sedimentation Committee of the Hydraulics Division. Vito A. Vanoni, Editor. 1975.