Table 7.2.5Summary Sheet for Power Simulation at Çatalan Dam (Case-2)

|                          | Ē      | 8   | (F                   | 4          | 2.8  | §.6   | 5.5    | ŋ            | .9      | 0.5    | 5      | 0.0    | . 1.     | <u>ت</u> | ť.    | 1.1     | ų        | ۍ<br>ک | 1       | ŭ       | 6.1     | 2.6               | 5.5     | 17       |
|--------------------------|--------|---|----------------------|------------|--|-------|--------|--------------|---------|--------|--------|--------|----------|----------|-------|---------|----------|--------|---------|---------|---------|-------------------|---------|----------|
|                          | t To   | / Energ   | (GWh)                | 127 1      | 5 299.8  |       | 768.5  |              |         | ÷.,    |        |        |          |          |       |         |          |        |         |         | 0 574.9 |                   | 113.    | 524.2    |
|                          | Second | Energy  | (GWD)                | 289.3      | 120.4  | 771.4 | 569.1  | 116.1        | 388.7   | 126.1  | 415.8  | 610.5  | 614.1    | 192.0    | 218.3 | 181     | 38.5     | 1+5.8  | 106.6   | 320.6   | 382.0   | 38.2              | 220.9   | 331.2    |
| 0 m3/s                   | шц     | Energy  | (GWh)                | 1.88.1     | 179.2  | 192.2 | † 66 I | 187.2        | 192.2   | 201.6  | 199.5  | 205.1  | 206.6    | 2013     | 189.1 | 180.7   | 1.82.7   | 1.77.7 | 153.6   | 197.6   | 192.9   | 199.4             | 192.6   | 192.9    |
| charge=5                 | Totai  | Disch.  | (m3/s)               | 117.5      | 78.3   | 148.4 | 183.1  | 75.7         | 141.8   | 163.6  | 150.0  | 201.9  | 192.5    | 124.3    | 100.8 | 93.5    | 71.8     | 1.28   | 157.8   | 134.2   | 150.6   | 7                 | 115.4   | 131.9    |
| larget Discharge=50 m3/s | Spill  | , tuo   | (m3/s)               | 0.0        | 0.0  | 0.0   | 0.0    | 0.1          | 0.0     | 9.3    | 0.0    | 5.3    | 2.1      | 0.0      | 0.0   | 0.0     | ņ        | 0.0    | 13.5    | 6.5     | 11.2    | 13.2              | 8.2     | 3.5<br>X |
| 4                        | Second | Disch.  | (m3/s)               | 70.7       | 31.8   | 101.4 | 134.6  | 28.9         | 93.9    | 105.1  | 100.0  | 1-46.6 | 1.141    | 5.45     | 52.6  | 17.1    | 22.0     | 36.9   | 272     | 17.7    | 90.7    | 5.19              | 58.0    | 80.0     |
|                          | Fira S | Disch.  | -                    |            | 46.5   | 47.0  | 48.5   | 46.7         | 6.7t    | 7 6t   | 50.0   | 50.0   | 19.3     | 50.0     | 1.84  | † 97    | 45.5     | 45.2   | 1.84    | 50.0    | 18.7    | 7 6F              | 19.2    | 1.81     |
|                          | 5      |   | ہ<br>نے              | <br>• .    |  |       |        |              |         | ŝ      | t.     |        | -+       | -t       | r.    | τ,<br>Ω | ñ        | 7      | 'n      | -t.     | ŝ       | s.                | 0       | 6        |
|                          | t Tot  | · Energy  | (GWh)                | 198        | 2.77.2   | 577.3 |        | 303.0        |         |        | 585.7  |        |          |          |       |         |          |        |         | 1 455.4 |         |                   | 0.456.0 |          |
|                          | Second | Energy  | (GWh)                | 317.1      | 150.6  | 120.6 | 602.7  | 1            | -122.7  | 9.101  | 120.1  | 575.0  | 6-12.5   | 313.0    | 257.6 | 727.1   | 101.2    | 163,   | 0101    | 300.1   | 416.8   | 5.924             | 296.0   | 333.8    |
| 0 m3/s                   | њ<br>Е | Energy  | (GWh).               | 151.3      | 146.6  | 156.7 | 163.8  | 158.9        | 160.1   | 161.9  | 159.3  | 1.091  | 161.9    | 1-851    | 160.1 | 150.9   | 1.9-1    | 8.171  | 158.0   | 155.3   | 157.5   | 160.0             | 160.0   | 157.0    |
| chargesd                 | Total  | Disch.  | (n.3/s)              | 117.3      | 77.5   | 140.6 | 182.6  | 75.1         | 0.141.0 | 1.57.2 | 5.941  | 200.9  | 191.7    | -119.5   | 101,4 | 8776    | 71.0     | 81.2   | 1.77.1  | 133.4   | 1.151   | 153.6             | 114.6   | 130.5    |
| Farget Dischargem40 m3/s | Spill  | out   | (m3/s)               | 9.0        | 1.0  | 0.0   | 0,0    | 0.6          | 0.0     | 18.4   | 9.3    | 20.7   | 3.0      | 0.0      | 0.0   | 0.0     | 6.8      | ŝ      | 16.4    | 21.6    | 12.0    | 0.0               | 0.0     | 5.6      |
| H                        | Second | Disch.  | (m3/s)               | 11.1       | 38.3   | 101.9 | 142.6  | 9.15<br>0.15 | 101.4   | 98.8   | 100.2  | 1-10-2 | 148.7    | 79.5     | 61.8  | 0<br>1  | 26.3     | 514    | 100.9   | 71.8    | 99.I    | 113.6             | 74.6    | 85.4     |
|                          | Firm 5 | Disch.  | (m3 <sub>3</sub> ) ( | 39.0       | 38.2   | 38.7  | 0.01   | 39.6         | 39.6    | 0.04   | 0.01   | 0.04   | 10.01    | 10.0     | 39.6  | 38.8    | 37.9     | 4.85   | 39.8    | 0.01    | 0.04    | 10.04             | 40.0    | 39.5     |
|                          |        | •   |                      | -<br>  0   | . 6  | 4     | \$     | -            | -1      | 5      | 6      | ŵ      | 6        |          | 4     | 7       |          |        | 6       | 1       | m       | 6                 | :       | 0        |
|                          | Tota   | the second se | (GWh)                |            | 277.9  |       | 753.5  |              |         |        |        |        | 676.9    |          |       | 372.4   |          |        |         |         | 608.3   |                   | 485.0   |          |
|                          | Second | Energy  | (GWh)                | 354.4      | 167.9  | 380.4 | 632.2  | 173.4        | 136.4   | 139.0  | 461.3  | 595.1  | 557.2    | 346.6    | 292.9 | 256.2   | 131.3    | 189.1  | 500.3   | 1.64    | 188.9   | <del>1</del> ,194 | 365.1   | 383.6    |
| 0 m3/s                   | Firm   | Energy  | (GWh)                | 115.1      | 0  | 116.3 | 121.3  | 117.7        | 115.0   | 117.3  | 118.0  |        | 1.9.7    |          |       | 116.2   |          | 115.9  | 116.6   | 120.0   | 119.4   | 118.2             | 119.9   | 117.3    |
| tharge=3(                | Total  | Disch.  | (m3/s)               | 118.3      | 76.6   | 1.041 | 179.5  | 74.2         | 149.8   | 183.9  | 1-18.7 | 7.761  | 192.5    | 117.8    | 100.5 | 92.5    | 70.1     | t'08   | 169.9   | 138.2   | 7.171   | 1-12-1            | 120.2   | 132.1    |
| Target Discharge=30 m3/s | Spill  | aut   | (s/ <u>c</u> m)      | <b>†</b> 1 | 5.0  | 18.0  | 0.0    | 2.2          | 15.5    | 16.7   | 10.2   | 21.4   | 313      | 0.0      | 0.0.0 | 0.0     | 7.6      | 1.6    | 22.4    | 0.0     | 0.0     | 3.7               | 0.0     | 5.4.6    |
| т                        | Second | Disch.  | (m3/s)               | 86.9       | 5<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 92.1  | 149.S  | 42.0         | 104.3   | 107.2  | 108.5  | 143.0  | 131.2    | S7.8     | 70.5  | 62.5    | 32.9     | 517    | 117.5   | 108.2   | 117.4   | 113.5             | 90.2    | 92.8     |
|                          | Firm S | Disch. I  | (m3/s) (             | 30.0       | 29.8   | 30.0  | 30.0   | 30.0         | 30,0    |        |        |        |          |          |       |         |          |        | 30.0    | 30.0    | 30.0    | 30.0              | 30.0    | 30.0     |
| Ì                        |        |   | · [                  | 0          | 6  |       | 6      | 6            | 6       | 9      | Q      | \$     | و :<br>و | 6        | 6     | 6       | 6        | 9      | 6       | 6       | 6       | . 9               |         | 9        |
|                          |        |   | ) (m3/s)             | 7          | ri   |       | 9.2.6  | 1 2.6        | ri<br>F | й<br>- | 14     | 3. 2.  | і,<br>т  | 2        | .4    | i,<br>- | ri<br>ri | -1     | 9 . 2.6 | сі      | ਦੁੱ     | ei<br>-           | 1 2     | 1        |
|                          |        | Inf low   | (m3/s)               | 122.2      | 85.3   | 150.7 | 207.9  | 27.H         | 151.7   | 191.7  | 168.4  | 2:3.5  | 217      | 139.0    | 110.5 | 100.    | 51       | 87.1   | 171.9   | 155.    | 164.0   | 1-1-1-1           | 144.1   | 1-46.2   |
|                          |        |   | Year                 | 1960       | 1961   | 1962  | 1963   | 1961         | 1965    | 1966   | 1961   | 1968   | 1969     | 1970     | 1701  | 1972    | 5191     | 7261   | 1975    | 1976    | 1161    | 1978              | 1979    | Avg.     |
|                          |        |   |                      | -          |  |       |        |              |         |        |        |        |          |          |       |         |          |        |         |         |         |                   |         |          |

Table 7.2.6Summary Sheet for Power Simulation at Çatalan Dam (Case-3)

|                          |           |            |           |                  |       |        |        |        |        | •     |       |        |       |                  |         |                   |         |       |        |        |               |         |          |   |
|--------------------------|-----------|------------|-----------|------------------|-------|--------|--------|--------|--------|-------|-------|--------|-------|------------------|---------|-------------------|---------|-------|--------|--------|---------------|---------|----------|---|
|                          | Total     | Energy     | (GWh)     | 482.3            | 308.4 | 598.1  | 780.1  | 2.99.5 | 590.5  | 627.0 | 625.2 | 817.3  | 827.2 | 509.8            | 431.6   | 1.01-0            | 290.7   | 336.4 | 6-5.5  | 580.5  | 628.9         | 639.6   | +153.4   | 0 |
|                          | Second    | Energy     | (GWh)     | 206.3            | 60.8  | 316.2  | 1.867  | 0.01   | 307.5  | 339.5 | 342.0 | 527.3  | 530.3 | 219.9            | 152.7   | しけい               | 26.7    | 74.2  | 368.6  | 296.0  | 354.2         | 352.5   | 166.0    | t |
| 0 m3/s                   | Е<br>Ц    | Energy     | (GWh)     | 276.0            | 247.6 | 281.9  | 281.7  | 2.59.5 | 283.0  | 287.5 | 283.2 | 290.0  | 296.9 | 2.89.9           | 278.9   | 266.3             | 264.0   | 262.2 | 276.9  | 2.84.5 | 274.7         | 287.1   | 287,4    |   |
| charge=7                 | Total     | Disch.     | (m3/s)    | 113.9            | 19.2  | 142.2  | 183.8  | 76.2   | 142.7  | 165.2 | 150.3 | 202-4  | 193.7 | 1.25.1           | 102.6   | 24.5              | 72.2    | 83.0  | 158.0  | 1-10.7 | 152.0         | 155.2   | 117.4    |   |
| Target Dischargem70 m3/s | Spill     | Å          | (m3/s)    | 0.0              | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 12.7  | 0.0   | 6.9    | 2.8   | 0.0              | 0.0     | 11.2              | 1.6     | 0.0   | 5.9    | 0.0    | 0.0           | 0.0     | 5.8      |   |
|                          | Second    | Disch.     | (m3/s)    | 7:8 <del>1</del> | 16.1  | 7S.1   | 116.2  | 10.7   | 73.0   | 82.5  | 80.8  | 125.5  | 121.5 | 55.1             | 35.8    | 18.1              | 6.9     | 18.6  | 1.ば    | 70.7   | 0.4<br>1.1    | 85.7    | 42.3     |   |
|                          | E H       | Disch.     | (m3/s)    | 65.5             | 63.1  | 67.1   | 67.6   | 65.5   | 69.7   | 70.0  | 70.0  | 70.0   | 69.4  | 70.0             | 66.8    | 6. <del>1</del> 5 | 63.7    | 110   | 67.4   | 70.0   | 67.8          | 69.5    | 693      |   |
|                          | Totai     | Energy     |           | 36.1             | 78.4  | . 9.6  | 50.2   | 16.4   | 86.7   | 28.2  | 6.62  | 55.1   | 17.8  | 06. <del>3</del> | 2.6.5   | 5.63              | 281.9   | ±0.1  | 52.9   | 3.4    | 5 <b>1</b> .3 | 67.7    | 81.8     |   |
|                          | second T  | Energy Ene | Ŭ.,       |                  |       | ·      |        |        |        |       |       |        | •     |                  |         |                   | 51.7 2  |       |        | 1.     |               | ÷       |          | l |
| 3/s                      | Firm Sec  |            | C         |                  |       |        |        |        |        |       |       |        |       |                  |         |                   | 233.2   |       |        |        |               |         |          |   |
| Larget Discharge=60 m3/s | _         | щ.         | $\sim$    |                  |       |        |        |        | ÷      |       |       |        |       |                  |         |                   | 74.9 23 |       |        |        |               |         | 116.4 25 |   |
| if Dischar               | iil Total | out Disch  | -         |                  | S 0'0 |        | 0.0 18 |        | 0.0 14 |       |       |        |       |                  | 0.0 10  |                   | 3.5 7   |       | 5.9 15 |        |               | 11.5 17 | 0.0      |   |
| arge                     | ud Spill  |            | s) (m3/s) |                  |       |        |        |        |        |       |       |        |       |                  |         |                   |         |       |        |        |               |         | .4       |   |
|                          | n Second  | Disch.     | \$        |                  | :     |        |        |        |        |       |       | ÷      |       |                  |         |                   | 0 13.4  |       |        |        |               |         |          |   |
|                          | E         | Disch.     | (m3/s)    |                  |       |        |        |        |        |       |       |        |       |                  |         |                   | 58.0    |       |        |        |               |         |          |   |
|                          | Total     | Energy     | (GWh)     | 6.184            | 323.5 | 596.2  | 776.0  | 306.9  | 589.2  | 624.6 | 626.6 | \$10.5 | 814.5 | 503.2            | 423.2   | 105.3             | 271.3   | 332.0 | 649.5  | 599.6  | 57679         | 656.5   | 477.8    |   |
|                          | Second    | Energy     | (GWh)     | 280.5            | 126.7 | 385.2  | 568.7  | 111.0. | 383.7  | 416.9 | 422.5 | 603.4  | 603.3 | 295.9            | 219.0   | 207.9             | 75.7    | 0,461 | 112.7  | 396.2  | 425.1         | 153.6   | 269.0    |   |
| ) m3/S                   |           | Energy     |           | すする              | 196.8 | 211.0  | 207.5  | _      |        |       |       |        |       |                  |         |                   | 195.6   |       |        |        |               | 202.9   |          |   |
| charge=5(                | Total     | Disch.     | (m3/s)    | 115.8            | 82.0  | 1-10:6 | 182.8  | 79.9   | 1-10.9 | 163.5 | 149.3 | 200.8  | 1.261 | 123.4            | - 6'101 | 99.3              | 74.8    | 1.18  | 157.5  | 150.9  | 150.8         | 171.7   | 115.6    |   |
| Target Discharge=50 m3/s | Spill     | out        | (m3/s)    | 0.0              | 0.2   | 0.0    | 0.0    | 1.0    | 0.0    | 12.7  | 0.0   | 6.9    | 2.8   | 0.0              | 0.0     | 0.0               | 5.9     | 0.8   | 5.9    | 6.0    | 0.0           | 12.7    | 0.0      |   |
|                          | Second    | Disch.     | (m3/s)    | 66.0             | 31.9  | 90.6   | 132.8  | 28.9   | 90.9   | 100.8 | 563   | 143.9  | 139.3 | 73.4             | 51.9    | 9'61              | 19.2    | 33.9  | 101.6  | o,đ    | 100.8         | 109.0   | 65.6     |   |
|                          | Eim<br>F  | Disch.     | (m3/s)    | 19.8             | 6'61  | 50.0   | 50.0   | 50.0   | 50.0   | 50.0  | 50.0  | 50.0   | 50.0  | 50.0             | 50.0    | 19.7              | 49.7    | 50.0  | 50.0   | 50.0   | 50.0          | 50.0    | 50.0     |   |
|                          |           | Evap.      | (m3/s)    | 2.7              | 2.7.  | 2.7    | 2.7    | 2.7    | 2.7    | 5.7   | 2.7   | 2.7    | 2.7   | 2.7              | 2.7     | 2.7               | 7.7     | 2.7   | 2.7    | - 2.7  | 2.7           | 1.1     | 2.7      |   |
|                          |           | nnow 1     | (m3/s) (r | 122.2            | 85.3  | 150.7  | 207.9  | 82.4   | 151.7  | 191.7 | 168.4 | 223.8  | £17.4 | 139.0            | 110.8   | 100.7             | 77.3    | 87.1  | 171.9  | 153.5  | 164.0         | 174.4   | 14.1     |   |
|                          |           | 1          | Year (1   | 1960             | 1961  | 1962   | 1963   | 1964   | 1965   | 9961  | ~     | 1968   |       | 1970             |         | ~1                |         | 1974  | 1975   | 1976   | 126           | 1978    | 1979     |   |

# Table 7.2.7 (1/4) Çatalan Dam Daily Reservoir Operation (With System, Flow in 1970)

|             |                  |                  |                |            |                |                  | lní.i+           |                  | bosti              |                    |                |                |                                 | 0.073                    |                | D            |                | Damar        |                |                |                |
|-------------|------------------|------------------|----------------|------------|----------------|------------------|------------------|------------------|--------------------|--------------------|----------------|----------------|---------------------------------|--------------------------|----------------|--------------|----------------|--------------|----------------|----------------|----------------|
|             | Rule<br>Atbeg.   | R¥<br>Inflow     | /L-8C          | Evp.       | Inf<br>Evp.    | Recv.<br>RC      | Qt+<br>RC        | FSHL             | PSHL<br>Vol.       | Qsp<br>PSHL        | Spill          | 11P            | Rsv,Vol                         | RWI.<br>At end<br>115.00 | Q              | Pawer        | Loss           | Power        | lata I         | ower           | Energy         |
| Jen. 1<br>1 | 115,00           | 182.1            | 0.00           | Ũ.7        | 181.4          | 67.9             | 265.3            | 118.60           | 1,644.6            |                    | 0.0            | 265.3          | 1,398.7<br>1,391.5              | 114.89                   | 88.A           | 44.1         | 0.735          | 43.5         |                | 116.7          | 2,801          |
| 2<br>3      | 115.09<br>115.14 | 172.2<br>143.7   | -0.20<br>-0.13 | 0.7<br>0.7 | 171.5<br>143.0 | -188.5<br>-136.1 | 80.0<br>80.0     | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2837.9<br>-2775.0 | 0,0<br>0.0     | 80.0<br>80.0   | 1,399.4<br>1,404.8              | 115.01<br>113.09         | 80.0<br>80.0   | 39.9<br>40.0 | 0.722<br>0.723 | 39.4<br>39.5 | 0.873<br>0.874 | 34.4<br>34.5   | 826<br>828     |
| 4           | 115.19           | 153.6<br>161.1   | -0.10<br>-0.04 | 0.7<br>0,7 | 152.9<br>160.4 | -106.0<br>-68.3  | 80.0<br>92.1     | 118.60<br>118.60 | 1,644.6            | -2702.6<br>-2634.2 | 0,0<br>0,0     | 80.0<br>92.1   | 1,411.1<br>1,417.0              | 115.19<br>115.28         | 80.0<br>92.1   | 40.1<br>46.2 | 0.725          | 39.5<br>45.5 | 0.874<br>0.903 | 34.5<br>41,1   | 828<br>986     |
| 5<br>6      | 115,23           | 156.0            | 0.00           | 0.8        | 155.2          | -38.0            | 117.2            | 118.60           | 1,644.6            | -2596.3            | 0.0            | 117.2          | 1,420.3                         | 115,33                   | 58.6           | 29.5<br>29.5 | 0.612<br>0.612 | 29.1<br>29.1 | 0.795          | 46.3<br>46.3   | 1,111<br>1,111 |
| 7<br>8      | 115.33<br>115.38 | 156.0<br>153.6   | 0.00<br>0.00   | 0,8<br>0.8 | 155.2<br>152.8 | -38.1<br>-30.5   | 117.1            | 118.60<br>118.60 |                    | -2558.0<br>-2527.4 | 0.0<br>0.0     | 117.1<br>122.3 | 1,426.2                         | 115.38<br>115.42         | 58.6<br>61.2   | 30.8         | 0.624          | 30.5         | 0,807          | 49.1           | 1,178          |
| 9<br>10     | 115.42<br>115.47 | 156.0<br>158.6   | 0.00<br>0.00   | 0.8<br>0.8 | 155.2<br>157.8 | -38.1<br>-38.2   | 117.1<br>119.6   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2489.7<br>-2451.4 | 0.0<br>0.0     | 117.1          | 1,429.5<br>1,432.8              | 115.47<br>115.52         | 58.6<br>59.8   | 29.5<br>30.2 | 0.612<br>0.618 | 29.2<br>29.8 | 0,796<br>0,801 | 46.4<br>47.8   | 1,114          |
| 11          | 115.52           | 163.5<br>165.9   | 0.00<br>0.00   | 0.8<br>0.8 | 162.7<br>165.1 | -30.6<br>-38.3   | 132.1<br>126.8   | 118.60<br>118.60 | 1,644.6            | -2420.8<br>-2383.0 | 0.0            | 132.1          | 1,435.4<br>1,438.7              | 115.56<br>115.61         | 66.1<br>63.4   | 33.4<br>32.1 | 0.650          | 33.0<br>31.7 | 0.829<br>0.818 | 54.6<br>51.8   | 1,310<br>1,243 |
| 12<br>13    | 115.56<br>115.61 | 160.5            | 0.00           | 0.8        | 159.7          | -38.3            | 121.4            | 118.60           | 1,644.6            | -2344.8            | 0.0            | 121.4          | 1,442.0                         | 115.66                   | 60.7           | 30.7         | 0.623          | 30.3<br>32.3 | 0.806          | 48.9<br>53.1   | 1,174<br>1,274 |
| 14<br>15    | 115.66<br>115.70 | 160.5<br>160.5   | 0.00<br>0.00   | 0.8<br>0.8 | 159.7<br>159.7 | -30.7<br>-38.4   | 129.0<br>121.3   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2314.2<br>-2275.3 | 0.0<br>. 0.0   | 129,0<br>121,3 | 1,444,7<br>1,448.0              | 115.70                   | 64.5<br>50.7   | 32,7<br>30.8 | 0,643<br>0.624 | 30.4         | 0.806          | 49.0           | 1,176          |
| 16<br>17    | 115.75           | 164.2<br>156.0   | 0.00<br>0.00   | 0.8<br>0.8 | 163.4<br>155.2 | -38.5<br>-30.8   | 124.9<br>124.4   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2237.0<br>-2206.5 | 0.0            | 124.9<br>124.4 | 1,451.3<br>1,454.0              | 115,80<br>115,84         | 62.5<br>62.2   | 31.7<br>31.6 | 0.633<br>0.632 | 31.3<br>31.2 | 0.814<br>0.814 | 51.0<br>50.8   | 1,224<br>1,219 |
| 18          | 115.84           | 156.0            | 0.00           | 0.8        | 155.2          | -38.6            |                  | 118.60           | 1,644.6            | -2167.4            | 6.0<br>0.0     | 116.6<br>135.2 | 1,457.3<br>1,460.6              | 115.89<br>115.94         | -58.3<br>67.6  | 29.6<br>34.4 | 0.613<br>0.660 | 29.3<br>34.0 | 0.796<br>0.836 | .46.6<br>.56.8 | 1,118<br>1,363 |
| 19<br>20    | 115.89<br>115.94 | 174.6<br>314.6   | 0.00<br>0.00   | 0,8<br>0,8 | 173.8<br>313.8 | -38.6<br>-30.9   | 282.9            | 118.60<br>118.60 | 1,644.6            | 2098.7             | 0.0            | 282.9          | 1 463.3                         | 115.98                   | . 94.3         | 48.0         | 0.829          | 47.3         | 0.910          | 129.0          | 3,096          |
| 2!<br>22    | 115.98<br>116.03 | 260.1<br>237.8   | 0.00<br>0.00   | 0.8<br>0.8 | 259.3<br>237.0 | -38.7<br>-38.8   | 220.6<br>198.2   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2059.7<br>-2021.4 | 0.0            | 220.6<br>198.2 | 1,466.6<br>1,470.0              | 116.03<br>116.08         | 110.3<br>59.1  | 56.2<br>50.6 | 0.956<br>0.867 | 55.2<br>49.7 | 0.926<br>0.917 | 102.2<br>91.2  | 2,453<br>2,189 |
| 23          | 116.08           | 296.1<br>257.7   | 0.00<br>0.00   | 0.8<br>0.8 | 295.3<br>256.9 | -38.8<br>-31.1   | 256.5<br>225.8   | 118.60<br>118.60 |                    | -1982.0<br>-1950.4 | 0.0<br>0.0     | 256.5<br>225.8 | 1,473.4                         | 116,13<br>116,17         | 85.5<br>75.3   | 43.7<br>38.5 | 0.770<br>0.706 | 43.0<br>38.0 | 0.893<br>0.865 | 115.2<br>98.5  | 2,765<br>2,364 |
| 24<br>25    | 116.17           | 231.6            | 0.00           | 8.0        | 230.8          | -38.9            | 191.9            | 118.60           | 1,644.6            | 1911.3             | 0.0            | 191.9          | 1,479.5                         | 116.22                   | 96.0           | 49.1<br>43.7 | 0.845          | 48.3<br>43.1 | 0.913<br>0.893 | 88.2<br>76.9   | 2,117<br>1,846 |
| 26<br>27    | 116.22           | 210.6<br>197.0   | 0.00<br>0.00   | 0,8<br>0.8 | 209.8<br>196.2 | -39.0<br>-31.2   | 170.8<br>165.0   | 118.60<br>118.60 |                    | -1871.9<br>-1840.3 | 0.0            | 170.8<br>165.0 | 1,482.9<br>1,485.6              | 116.27                   | 85.4<br>82.5   | 42.3         | 0.770<br>0.752 | 41.7         | 0.885          | 73.8           | 1,771          |
| 28          | 116.31           | 188.3<br>179.6   | 0.00           | 0.8<br>0.5 | 187.5<br>178.8 | -39,1<br>-39,1   | 148.4<br>139.7   | 118.60<br>118.60 | 1,644.6            | .1801.2<br>-1761.8 | 0.0<br>0.0     | 148.4<br>139.7 | 1,489.0<br>1,492.4              | 116.36<br>116.41         | 74.2           | 38.1<br>35.9 | 0.701<br>0.676 | 37.5<br>35.4 | 0.861<br>0.847 | 64.7<br>60.0   | 1,553<br>1,440 |
| 29<br>30    | 116.36<br>116.41 | 174.6            | 0.00           | 0.8        | 173.8          | -31.3            | 142.5            | 118.60           | 1,644.6            | -1730,3            | 0.0            | 142.5          | 1,495.1                         | 116.45                   | 71.3           | 36.6         | 0.684          | 36.2<br>34.2 | 0.853          | 61.6<br>57.3   | 1 478<br>1 375 |
| 31          | 116.45           | 174.6<br>186.4   | 0.00           | 0,8<br>0.8 | 173.8          | -39.2            | 134.6            | 118.60.          | 1,644.6            | -1691.1            | 0.0<br>0.0     | 134.6<br>148.4 | 1,498.5                         | 116.50                   | 67.3           | 34.6         | 0.662          | 34.2         | U.P.YO         | 37.3           | 47,478         |
| Feb. 1      | 1699             |                  |                |            |                |                  | 11               |                  | 1.00               |                    |                |                | e<br>Televisione<br>Televisione |                          |                |              |                |              |                |                |                |
| 1           | 116.50           | 177.2            | 0.00           | 1.0        | 176.2          | -86.4            | 89.8             | 118.60           | 1,644.6            |                    | 0.0<br>0.0     | 89.8<br>140.1  | 1,506.0                         | 116.61<br>116.67         | 89.8<br>70.1   | 46.3<br>36.2 | 0.805<br>0.679 | 45.5<br>35.7 | 0.903<br>0.849 | 41.1           | 986<br>1,454   |
| 2           | 116.61<br>116.67 | 188.3<br>197.0   | 0.00<br>0.00   | 1.0<br>1.0 | 187.3<br>196.0 | -47.2<br>-39.4   |                  | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -1517.3            | 0.0            | 156.6          | 1,513.5                         | 116.72                   | 78.3           | 40.4         | 0.728          | 39.9         | 0.876          | 69.9           | 1,678          |
| 4           | 116.72<br>116.78 | 255.1<br>254.0   | 0.00<br>0.00   | 1.0<br>1.0 | 254.1<br>253.0 | -47.4<br>-39.5   | 206.7 .<br>213.5 | 118.60           | 1,644.6            |                    | 0.0<br>0.0     | 206.7<br>213.5 | 1,517.6                         | 116.78<br>116.83         | 103.4<br>106.8 | 53.5<br>55.3 | 0.912          | 52.5<br>54.3 | 0.923<br>0.925 | 96.9<br>100.4  | 2,326          |
| 6           | 116.83           | 257.7            | 0.00           | 1.0        | 236.7          | -47.5            | 209.2            | 118.60           | 1,644.6            | 1383.1             | 0.0            | 209.2          | 1,525.1                         | 116.89                   | 104.6          | 54.2<br>52.7 | 0.923          | 53.2<br>51.8 | 0,924<br>0,922 | 98.4<br>95.6   | 2,362<br>2,294 |
| 7<br>8      | 116.89<br>116.94 | 244.1<br>243.8   | 60.0<br>60.0   | 1.0<br>1.0 | 243.1<br>246.8 | -39.7            | 203.4<br>199.1   | 118.60<br>118.60 |                    | 1296.1             | 0.0<br>0.0     | 203.4<br>199.1 | 1,528.5<br>1,532.6              | 116.94<br>117.00         | 99.6           | 51.7         | 0.884          | 50.8         | 0.920          | 93.5           | 2,244          |
| 9           | 117.00<br>117.05 | 250.2<br>259.6   | 0.00<br>0.00   | 1.0<br>1.0 | 249.2<br>258.6 | -39.8<br>-47.8   | 209.4<br>210.8   | 118.60<br>118.60 | 1,644.6            | -1256.5<br>-1209.1 | 0.0<br>0.0     | 209.4<br>210.8 | 1,536.0                         | 117.05                   | 104.7          | 54.4<br>54.8 | 0.926<br>0.933 | 53.5<br>53.9 | 0.924<br>0.925 | 98,8<br>99.6   | 2,371 2,390    |
| 10<br>11    | 117.11           | 270.7            | 0.00           | 1.0        | 269.7          | -39.9            | 229.8            | 118.60           | 1,644.6            | -1169.6            | 0.0            | 229.8          | 1,543.5                         | 117.16                   | 76.6           | 39.9<br>62.6 | 0.722          | 39.3<br>61.3 | 0.873<br>0.924 | 103.0<br>169.9 | 2,472<br>4,078 |
| 12<br>13    | 117.16<br>117.22 | 422.4<br>438.5   | 0.00<br>0.02   | 1.0<br>1.0 | 421.4<br>437.5 | -47.9<br>-24.0   | 360.0<br>360.0   | 118.60<br>118.60 | 1,644.6            |                    | 0.0<br>0.0     | 360.0<br>360.0 | 1,548.8<br>1,555.5              | 117.24                   | 120.0          | 62.7         | 1.069          | 61.4         | 0.924          | 170.2          | 4,085          |
| 14          | 117.27<br>117.33 | 355.5<br>314.1   | 0.06<br>0.00   | 1.0<br>1.0 | 354.5<br>313.1 | 0.0<br>-40,1     |                  | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -1031.3            | 0.0<br>0.0     | 354.5<br>273.0 | 1,555.5                         | 117.33                   | 118.2          | 61.8<br>47.6 | 1.053<br>0.823 | 60.6<br>46.8 | 0.925<br>0.908 | 168.0<br>127.6 | 4,032 3,062    |
| 15<br>16    | 117.38           | 284.9            | 0.00           | 1.0        | 283.9          | -48.2            | 235.7            | 118.60           | 1,644.6            | -942.5             | 0.0            | 235.7          | 1,563.2                         | 117.44                   | 78.6           | 41.1<br>40.8 | 0.737          | 40.6<br>40.3 | 0.880<br>0.879 | 107.1<br>106.2 | 2,570<br>2,549 |
| 17<br>18 -  | 117.44           | 275.0<br>366.6   | 0.00           | 1.0<br>1.0 | 274.0<br>365.6 | -40.2<br>-40.3   | 233.8<br>325.3   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -901.9<br>-861.3   | 0.0<br>0.0     | 233.8<br>325.3 | 1,566.7<br>1,570.2              | 117.50                   | 77.9<br>108.4  | 56.9         | 0.733<br>0.967 | 55.8         | 0,926          | 155.2          | 3,725          |
| 19          | 117.55           | 318.3<br>288.6   | 0.00<br>0.00   | 1.0<br>1.0 | 317.3<br>287.6 | -40.3<br>-48.5   |                  | 118.60<br>118.60 | 1,644.6            | .820.8<br>.772.1   | 0.0<br>0.0     | 277.0<br>239.1 | 1,573.7<br>1,577.9              | 117.60                   | 92.3<br>79.7   | 48.5<br>41.9 | 0.836<br>0.747 | 47.7<br>41.3 | 0.911<br>0.884 | 130,4<br>109.5 | 3,130<br>2,628 |
| 20<br>21    | 117.66           | 270.7            | 0.00           | 1.0        | 269.7          | -40.4            | 229.3            | 118.60           | 1,644.6            | . 731.6            | 0.0            | 229.3          | 1,581.4                         | 117.71                   | 76.4<br>104.4  | 40.2<br>55.0 | 0.726<br>0.936 | 39.7<br>54.0 | 0.875<br>0.925 | 104.1          | 2,498<br>2,398 |
| 22          | 117.71<br>117.77 | 258.3<br>259.6   | 0.00<br>0.00   | 1.0<br>1.0 | 257.3<br>258.6 | -48.6<br>-40.6   |                  | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -682.9<br>-642.3   | 0.0<br>0.0     | 208.7<br>218.0 | 1,585.6<br>1,589.1              | 117.77                   | 72.7           | 38.3         | 0.703          | 37.8         | 0.863          | 97.9           | 2,350          |
| 24<br>25    | 117.82<br>117.85 | 259.6<br>438.5   | 0.00<br>0.00   | 1.0<br>1.0 | 258.6<br>437.5 | -48.7<br>-40.7   | 209.9            | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -593.7<br>-516.2   | 9,0<br>0.0     | 209.9<br>360.0 | 1,593.3<br>1,600.0              | 117.88<br>117.97         | 105.0<br>120.0 | 55.4<br>63.4 | 0.942          | 54.4<br>62.1 | 0.925<br>0.923 | 100.7<br>172.1 | 2,417          |
| 26          | 117.93           | 494.3            | 0.04           | 1.0        | 493.3          | -16.3            | 360.0            | 118.60           | 1,644.6            | -382.9             | 0.0            | 360.0          | 1,611.5                         | 118.13<br>118.24         | 120.0<br>120.0 | 63,6<br>63.7 | 1.086          | 62.3<br>62.4 | 0.923          | 172.5<br>172.7 | 4,140<br>4,145 |
| 27<br>28    | 117.99<br>118.04 | 450.9<br>431.1   | 0.14<br>0.20   | 1.0<br>1.0 | 449.9<br>430.1 | 73.5             | 360.0<br>360.0   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -293.2<br>222.7    | 0.0<br>0,0     | 360.0<br>360.0 | 1,619.3<br>1,625.4              | 118.33                   | 120.0          | 63.8         | 1.089          | 62.6         | 0.922          | 173.0          | 4,152          |
|             |                  | 304.6            |                | 1.0        |                |                  |                  |                  |                    |                    | 0.0            | 251.2          | 1                               |                          |                |              |                |              |                |                | 79,076         |
| Mar.        |                  | 417.5            | 0.23           | 1.6        | 445.6          | 65.7             | 360.0            | 118.60           | 1,644.6            | -136.6             | 0.0            | 360.0          | 1,632.8                         | 118.43                   | 120.0          | 64.0         | 1.093          | 62.7         | 0.922          | 173.3          | 4,159          |
| 1<br>2      | 118.10<br>118.25 | 447.2<br>481.3   | 0.18           | 1.6        | 479.7          | 82.3             | 360.0            | 118.60           | 1,644.6            | -16.9              | 0.0            | 360.0          | 1,643.1                         | 118.58                   | 120.0          | 64.1         | 1.095          | 62.8         | 0.922          | 173.7          | 4,169          |
| 3<br>4      | 118.33<br>118.40 | 450.9<br>. 419.9 | 0.25<br>0.20   | 1.6<br>1.6 | 449.3<br>418.3 | 148.6<br>99.2    | 360.0            | 118.60           | 1,644.6            | 71.9<br>58.3       | 71.9<br>58.3   | 360.0<br>360.0 | 1,644.6                         | 118.60<br>{18.60         | 120.0<br>120.0 | 64.2<br>64.2 | 1.097<br>1.097 | 62.9<br>62.9 | 0.922<br>0.922 | 174.0<br>174.0 | 4,176<br>4,176 |
| 5           | 118.48           | 377.9<br>374.1   | 0.12<br>0.05   | 1.6<br>1.6 | 376.3<br>372.5 | 41.4<br>0.0      |                  | 118.60<br>118.60 | 1,644.6<br>1,644.6 | 16.3<br>12.5       | 16.3<br>12.5   | 360.0<br>360.0 | 1,644.6<br>1,644.6              | 118.60<br>118.60         | 120.0<br>120.0 | 64.2<br>64.2 | 1.097          | 62.9<br>62.9 | 0.922          | 174.0<br>174.0 | 4,176<br>4,176 |
| 6<br>7      | 118.55<br>118.60 | 374.1            | 0.00           | 1.6        | 372.5          | 0.0              | 360.0            | 118.60           | 1,644.6            | 12.5               | 12.5           | 360.0          | 1,644.6                         | 118.60                   | 120.0          | 64,2         | 1.097          | 62.9         | 0.922          | 174.0<br>174.0 | 4,176          |
| 8<br>9      | 118.60<br>118.60 | 366.6<br>362.9   | 0.00<br>0.00   | 1.6<br>1.6 | 365.0<br>361.3 | 0.0<br>0.0       | 360.0<br>369.0   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | 5.0<br>1.3         | 5.0<br>1.3     | 360.0<br>360.0 | 1,644.6<br>1,644.6              | 118.60<br>118.60         | 120.0<br>120.0 | 64.2<br>64.2 | 1.097          | 62.9<br>62.9 | 0.922<br>0.922 | 174.0          | 4,176<br>4,176 |
| · 10        | 118.60           | 362.9<br>377.9   | 0.00           | 1.6<br>1.6 | 361.3<br>376.3 | 0.0              |                  | 118.60           | 1,644.6            | 1.3                | 1.3            | 360.0<br>360.0 | 1,644.6<br>1,644.6              | 118.60<br>118.60         | 120.0<br>120.0 | 64.2<br>64.2 | 1.097          | 62.9<br>62.9 | 0.922          | 174.0<br>174.0 | 4,176<br>4,176 |
| 11<br>12    | 118.60<br>118.60 | 374.1            | 0.00           | 1.6        | 372.5          | 0.0              | 360.0            | 118.60           | 1,644.6            | 12.5               | 12.5           | 360.0          | 1,644.6                         | 118.60                   | 120.0          | 64.2         | 1.097          | 62.9<br>62.9 | 0.922<br>0.922 | 174.0<br>174.0 | 4 176<br>4 176 |
| _13<br>14   | 118.60<br>118.60 | 374.1<br>325.8   | 00.0<br>0.00   | 1.6<br>1.6 | 372.5<br>324.2 | 0.0<br>0.0       |                  | 118.60           | 1,644.6            | 12.5               | 12.5           | 360.0<br>324.2 | 1,644.6<br>1,644.6              | 118.60<br>118.60         | 120.0<br>108.1 | 64.2<br>57.8 | 1.097<br>0.982 | 56.8         | 0.927          | 157.9          | 3,790          |
| 15          | 118.60           | 314.6            | 0.00<br>0.00   | 1.6<br>1.6 | 313.0<br>329.5 | -116.1<br>-116.5 |                  | 118.60<br>118.74 | 1,644.6            | 0.8<br>0.4         | 0.0            | 196.9<br>204.0 | 1,654.6                         | 118.74<br>118.88         | 98.5<br>102.0  | 52.8<br>54.8 | 0.901<br>0.933 | 51.9<br>53.9 | 0.922          | 95.7<br>99.6   | 2,297<br>2,390 |
| 16<br>17    | 118.74<br>118.88 | 322.1<br>333.2   | 0.00           | 1.6        | 331.6          | -116.9           | 214.7            | 118.88           | 1,664.7            | 0.0                | 0.0            | 214.7          | 1,674.8                         | 119.02                   | 71.6           | 38,6         | 0.707          | 38.1         | 0.865          | 98.7           | 2,369          |
| 18<br>19    | 119.02<br>119.53 | 288.8<br>314.2   | 0.00<br>-0.26  | 1.6<br>1.6 | 287.2<br>312.6 | -429.2<br>-278.8 | 80.0<br>80.0     | 119.02<br>119.16 | 1,674.8<br>1,684.9 | 90.3<br>204.8      | 0.0<br>0.0     | 80,0<br>80.0   | 1,692.7<br>1,712.8              | 119.27<br>119.54         | 80.0<br>80.0   |              | 0.764<br>0.766 | 42.6         | 0.891<br>0.892 | 38.0<br>38.2   | 912            |
| 20          | 119.60           | 381.5            | -0.06          | 1.6<br>1.7 | 379.9<br>387.3 | -118.8<br>-271.4 | 261.1            | 119.30<br>119.43 | 1,695.1<br>1,704.6 | 213.7<br>153.3     | 114.8<br>0.0   | 360.0<br>115.9 | 1,704.6                         | 119.43<br>119.75         | 120.0<br>58.0  | 65.3<br>31.6 | 1.118<br>0.632 | 63.9<br>31.2 | 0.920          | 176.5          | 4,236<br>1,219 |
| 21<br>22    | 119.68<br>119.75 | 389.0<br>392.7   | -0.25<br>0.00  | 1.7        | 391.0          | -68.2            | 322.8            | 119.57           | 1,714.8            | 101.8              | 64.6           | 360.0          | 1,725.1                         | 119.71                   | 120.0          | 65.5         | 1.122          | 64.2         | 0.919          | 177.1          | 4,250          |
| 23<br>24    | 119.83<br>119.90 | 362.9<br>333.2   | -0.12<br>0.00  | 1.7<br>1.7 | 361.2<br>331.5 | -162.0<br>-68.4  |                  | 119.71           | 1,725.1<br>1,735.4 | 42.8<br>-8.0       | 0.0            | 199.2<br>263.1 | 1,739.1<br>1,745.0              | 119.90<br>119.98         | 99.6<br>87.7   | 54.5<br>48.1 | 0.928<br>0.830 | 53.6<br>47.4 | 0.924<br>0.910 | 99.0<br>129.3  | 2 376<br>3 103 |
| 25          | 119.98           | 311.0            | 0.00           | 1.7        | 309.3<br>298.0 | -60.0<br>-68.7   |                  | 119.99<br>120.13 | 1,745.7<br>1,756.1 | -68.5<br>-120.0    | 0.0<br>0,0     | 249.3<br>229.3 | 1,750.2<br>1,756.1              | 120.05<br>120.13         | 83.1<br>76.4   | 45.6<br>42.0 | 0.795<br>0.749 | 45.0<br>41.4 | 0.901<br>0.885 | 121.6<br>110.1 | 2,918 2,642    |
| 26<br>27    | 120.05<br>120.13 | 299.7<br>292.4   | 0.00<br>0.00   | 1.7<br>1.7 | 290.7          | -60.2            | 230.5            | 120.27           | 1,766.5            | -181.7             | 0.0            | 230.5          | 1,761.3                         | 120.20                   | 76.8           | 42.3         | 0.752          | 41.7         | 0.886          | 110.9          | 2,662          |
| 28<br>29    | 120.20<br>120.28 | 281.3            | 0.00<br>0.00   | 1.7<br>1.7 | 279.6<br>301.8 | -68.9<br>-60.4   | 210.7<br>241.4   | 120.41<br>120.55 | 1,777.0<br>1,787.4 | -233,2<br>-294.9   | 0,0 :<br>0,0 ~ | 210.7<br>241.4 | 1,767.3<br>1,772.5              | 120.28<br>120.35         | 70.2<br>80.5   | 38.7<br>44.4 | 0,708<br>0.779 | 38.2<br>43.8 | 0.866<br>0.896 | 99.3<br>117.7  | 2,383<br>2,825 |
| 30          | 120.35           | 318.3            | 0.00           | 1.7<br>1.7 | 316.6<br>327.9 | -69.2<br>-60.6   | 247.4<br>267.3   | 120.69<br>120.83 | 1,798.0            | -347.5<br>-409.3   | 0.0<br>0,0     | 247.4<br>267.3 | 1,778.5                         | 120.43<br>120.50         | 82.5<br>89.1   | 45.6<br>49.3 | 0.795<br>0.848 | 44.9<br>48.6 | 0,901<br>0,914 | 121.4<br>133.2 | 2,914<br>3,197 |
| 31          | 120.43           | 329.6<br>356.1   | 0.00           | 1.6        | 321,7          | -00.0            | 20113            | 120.03           |                    |                    | 12.9           | 282.4          |                                 |                          |                |              |                |              |                |                | 101,664        |
|             |                  |                  |                |            |                |                  |                  |                  |                    |                    |                |                |                                 |                          |                |              |                |              |                |                |                |

# Table 7.2.7 (2/4)Çatalan Dam Daily Reservoir Operation<br/>(With System, Flow in 1970)

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|                |                                 |                         |                       |                   |                          |                         | lof.i+                  |                            |                               | •                             |                   | ÷.,                     |                               |                            |                      |                         |                         | _                      |                         |                         |                         |
|----------------|---------------------------------|-------------------------|-----------------------|-------------------|--------------------------|-------------------------|-------------------------|----------------------------|-------------------------------|-------------------------------|-------------------|-------------------------|-------------------------------|----------------------------|----------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| Apr. 1         | Rulo<br>At beg.<br>1988 (Irrg.) | Inflow                  |                       | Evp.              | lut.<br>Tivp.            | Recv.<br>RC             | Qt+<br>RC               | PSHL                       | FSHL<br>Vol.                  | Qsp<br>FSIII.                 | Spill             | 1119                    | Rsv.Vol                       | RWL<br>At end              | Q                    | Power                   | l.oss                   | Power                  |                         | Power                   | Energy                  |
| 1              | 120.50<br>120.68                | 325.8<br>318.3          | 0.00<br>0.00          | 2.3               | 323.5<br>316.0           | -156.3                  | 237.6                   | 120.97                     | 1,819.1                       | -366.8<br>-412.3              | 0.0               | 167.2<br>237.6          | 1,797.2                       | 120.68                     | 83,6<br>79,2         | 46.4<br>44.0            | 0.804                   | 45.7<br>43.4           | 0.904                   | 82.6<br>116.5           | 1,982                   |
| 3              | 120.77                          | 318.3<br>318.3          | 0.00                  | 2.3               | 316.0<br>316.0           | -78.6                   | 237.4                   | 121.24                     | 1,839,6                       | -457,3<br>-502,3              | 0.0<br>0.0        | 237,4                   | 1,810.8<br>1,817.6            | 120.86                     | 79.1                 | 44.0<br>44.1            | 0.774                   | 43.4<br>43.5           | 0.894                   | 116.6                   | 2,798                   |
| 5<br>6<br>7    | 120.95<br>121.04<br>121.13      | 292.7<br>362.9<br>359.3 | 0.00<br>0.00<br>0.00  | 2.3<br>2.3<br>2.3 | 290.4<br>360.6<br>3\$7.0 | •78.9<br>•79.1<br>•79.2 | 211.5<br>281.5<br>277.8 | 121.52<br>121.66<br>121.80 | 1,861.0<br>1,871.7<br>1,882.5 | -547.3<br>-593.4<br>-640.7    | 0.0<br>0.0<br>0.0 | 211.5<br>281.5<br>277.8 | 1,824.4<br>1,831.2<br>1,838.0 | 121.04<br>121.13<br>121.22 | 70.5<br>93.8<br>92.6 | 39.4<br>52.5<br>51.9    | 0.716<br>0.896<br>0.887 | . 38.9<br>51.7<br>51.1 | 0.870<br>0,921<br>0,920 | 101.5<br>142.8<br>141.0 | 2,436<br>3,427<br>3,384 |
| 8<br>9         | 121.22                          | 329.6<br>295.1          | 0.00                  | 2.3<br>2.3        | 327.3<br>293.8           | -79.4                   | 247.9<br>214.2          | 121.94                     | 1,893.4                       | -686.8<br>-732.9              | 0.0<br>0.0        | 247.9                   | 1,844.9                       | 121.31                     | 82.6<br>71.4         | 46.4<br>40.1            | 0.806                   | 45,7<br>39.6           | 0.904                   | 124.0                   | 2,976<br>2,496          |
| 10<br>11       | 121.40<br>121.49                | 841.4<br>298.6          | 0.00                  | 2.4<br>2.4        | 839,0<br>286,2           | -79.7<br>321.3          | 360.0                   | 122.22                     | 1,915.1                       | -379.8<br>-580.7              | 0.0<br>0.0        | 360.0<br>360.0          | 1,893.2<br>1,886.8            | 121.94<br>121.86           | 120.0<br>120.0       | 67,8<br>68,1            | 1,166                   | 66.4<br>66.7           | 0.913<br>0.912          | 182.0<br>182.5          | 4,368<br>4,380          |
| 12<br>13       | 121.58<br>121.67                | 263.9<br>311.0          | 0.28                  | 2.4               | 261.5<br>308.6           | 169.6<br>-8.9           |                         | 122.50                     | 1,937.0<br>1,947.2            | -797.6<br>915.9               | 0.0<br>0.0        | 360.0<br>299.7          | 1,878.3                       | 121,75                     | 120.0<br>99.9        | 68.0<br>56.5            | 1.170<br>0.961          | 66.6<br>55.6           | 0.912<br>0.926          | 182.2                   | 4 373<br>3,708          |
| 14<br>15       | 121.76<br>121.85                | 329.6<br>325.8          | 0.00                  | 2.4<br>2.4        | 327.2<br>323.4           | -80.4<br>-98.5          | 246.8<br>224.9          | 122.77<br>122.91           | 1,958.2<br>1,969.3            | -963.6<br>-994.1              | 0.0<br>0.0        | 246.8<br>224.9          | 1,886.0<br>1,894.5            | 121.84<br>121.95           | 82.3<br>75.0         | 46.6<br>42.6            | 0,809<br>0.756          | 46.0<br>42.0           | 0.905<br>0.868          | 124.7<br>111.8          | 2,993<br>2,683          |
| 16<br>17       | 121.95<br>122.04                | 325.4<br>296.1          | 0.00<br>0.01          | 2.4<br>2.4        | 323.0<br>293.7           | -80.8<br>-71.9          |                         | 123.05                     | 1,980.4                       |                               | 0,0<br>0.0        | 242.2<br>221.8          | 1,901.5                       | 122.05<br>122.12           | 80.7<br>73.9         | 45.9<br>42.1            | 0.800                   | 45.2<br>41.5           | 0.902                   | 122.5<br>110.3          | 2,940<br>2,647          |
| 18<br>19       | 122.13<br>122.22                | 277.5<br>267.6          | -0.01<br>0.01         | 2.4<br>2.4        | 275.1<br>265.2           | -90.1<br>-72.2          | 193.0                   | 123.33<br>123.47           | 2,002.7<br>2,013.9            | -1196.3                       | 0.0<br>0.0        | 185.0<br>193.0          | 1,915.5<br>1,921.7            | 122.23<br>122.30           | 92.5<br>96.5         | 52.7<br>55.1            | 0.899<br>0.938          | \$1.9<br>54.2          | 0.922<br>0.925          | 95.7<br>100.3           | 2,297                   |
| 20<br>21       | 122.31<br>122.40                | 247.8<br>235.4          | -0.01<br>0.00         | 2.4<br>2.4        | 245,4<br>233,0           | -90.5<br>-81.6          | 154.9<br>151.4          | 123.61<br>123.75           | 2,036.4                       |                               | 0.0<br>0.0        | 154.9<br>151.4          | 1,929.5<br>1,936.6            | 122.40<br>122.49           | 775<br>75,7          | 44.3<br>43.4            | 0.778<br>0.766          | 43.7<br>42.8           | 0.896<br>.0.892         | 78.3<br>76.3            | 1,879                   |
| 22<br>23       | 122.49<br>122.58                | 225.5<br>216.8          | 0.00                  | 2.4<br>2.4        | 223.1<br>214.4           | -81.8<br>-72.8          |                         | 123.89<br>124.03           | 2,059.1                       | -1336.0<br>-1393.6            | 0.0<br>0.0        | 141.3                   | 1,943.7<br>1,950.0            | 122.59<br>122.67           | 70.7<br>70.8         | 40.6<br>40.7            | 0.731<br>0.732          | 40.1<br>40.2           | 0.877<br>0.878          | 70.2<br>70.5            | 1,685                   |
| 24<br>25       | 122.67                          | 216.8<br>216.8          | 0.00                  | 2.4               | 214.4<br>214.4           | -82.1<br>-82.3          | 132.3                   | 124.17<br>124.30           |                               | -1484.8                       | 0.0<br>0.0        | 132.3<br>132.1          | 1,957.1<br>1,964.2            | 122.76                     | 66.2<br>66.1         | 38.1<br>38.1            | 0.701                   | 37.6<br>37.6           | 0.862                   | 64.8<br>64.8            | 1,555                   |
| 26<br>27       | 122.85<br>122.94                | 219.3<br>219.3          | 0.00                  | 2.4<br>2.4<br>2.5 | 216.9<br>216.9<br>214.3  | -82.4<br>-82.6<br>-91.9 |                         | 124.44<br>124.58<br>124.72 | 2,103.9                       | -1534.5<br>-1586.4<br>-1628.0 | 0.0<br>0.0<br>0.0 | 134.5<br>134.3<br>122.4 | 1,971.3<br>1,978.4<br>1,986.3 | 122.94<br>123.02<br>123.12 | 67.3<br>67.2<br>61.2 | 38.8<br>38.8<br>35.4    | 0.709<br>0.709<br>0.671 | 38.4<br>38.4<br>35.0   | 0.867<br>0.867<br>0.844 | 66.5<br>66.5<br>59.1    | 1,596<br>1,596<br>1,418 |
| 28<br>29<br>30 | 123.03<br>123.12<br>123.21      | 216.8<br>216.8<br>216.8 | -0.01<br>0.00<br>0.00 | 2.5               | 214.3<br>214.3<br>214.3  | -82.9<br>-83.1          | . 131.4                 | 124.86                     | 2,127.0                       | -1679.8                       | 0.0               | 131.4                   | 1,993.5                       | 123.21                     | 65.7<br>65.6         | 38.1<br>38.1            | 0.701                   | 37.6<br>37.6           | 0.862                   | 64.9<br>64.9            | 1 558                   |
| 50             | 12521                           | 296.5                   | 0.00                  | 2.4               | 2(4.5                    | -52.1                   | 131.4                   | 120.00                     | 2,150.0                       |                               | 0.0               | 210.4                   | 2,0001                        | (12.51                     | 03.0                 | 50.1                    | 0.101                   |                        | 0.0112                  |                         | 75,817                  |
| 1              | 1988(Inig.<br>123.30            | 210.6                   | 0.01                  |                   | 207.0                    | -92.5                   |                         | 125.00                     |                               | 1503.6                        | 0.0               | 114.5                   | 2,008.7                       | 123.41                     | \$7.3                | 33.3                    | 0.649                   | 33.0                   | 0.829                   | 54.6                    | 1,310                   |
| 2<br>3         | 123.41<br>123.46                | 213.0<br>210.6          | 0.00                  | 3.6               | 209.4<br>207.0           | -46.3<br>-46.4          | 163.1<br>169.6          | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -1410.8                       | 0.0               | 163.1<br>160.6          | 2,012.7<br>2,016.7            | 123.46<br>123.50           | 81.6<br>80.3         | 47.5<br>46.8            | 0.822                   | 46.9<br>46.2           | 0.909                   | 85.2<br>83.7            | 2,045                   |
| 4<br>5         | 123.51<br>123.57                | 210.6<br>222.9          | -0.01<br>0.00         | 3.6<br>3.6        | 207.0<br>219.3           | -65.0<br>-46.5          | 142.0<br>172.8          | 125.00<br>125.00           |                               | •1259.6                       | 0.0               | 142.0<br>172.8          | 2,022.3<br>2,026.3            | 123.57<br>123.62           | 71.0<br>86.4         | 41.4                    | 0.741                   | 40.9<br>49.7           | 0.882<br>0.917          | 72.2                    | 1,733                   |
| 6<br>7         | 123.62                          | 216.8<br>210.6          | 0.00                  | 3.6<br>3.7        | 213.2<br>206.9           | -46.6<br>-55.9          |                         | 125.00                     | 2,138.6                       | -1197.6                       | 0.0               | 165.6<br>151.0          | 2,030.3                       | 123.67                     | 83.3<br>75.5         | 48.7<br>44.2            | 0.839                   | 48.0<br>43.6           | 0.912                   | 87.6<br>78.0            | 2,102                   |
| 8<br>9         | 123.73<br>123.78                | 221.7<br>193.2          | 0.00<br>0.00<br>0.00  | 3.7<br>3.7<br>3.7 | 218.0<br>189.5<br>187.1  | -46.7<br>-46.7<br>-45.8 | 171.3<br>142.8<br>140.3 | 125.00<br>125.00<br>125.00 | 2,138.6<br>2,138.6<br>2,138.6 | 1101.9                        | 0.0<br>0.0<br>0.0 | 171.3<br>142.8<br>140.3 | 2,039.1<br>2,043.1<br>2,047.1 | 123.78<br>123.83<br>123.88 | 85,7<br>71,4<br>70,2 | 50.2<br>41.8<br>41.2    | 0.861<br>0.746<br>0.738 | 49.5<br>41.3<br>40.7   | 0.916<br>0.884<br>0.881 | 90.6<br>73.1<br>71.6    | 2,174<br>1,754<br>1,718 |
| 10<br>11<br>12 | 123.83<br>123.68<br>123.94      | 190.8<br>150.8<br>188.3 |                       | -3.7<br>-3.7      | 187.1<br>184.6           | -46.8<br>-56.2<br>-46.9 | 130.9                   | 125.00                     | 2,138.6                       |                               | 0.0               | 130.9                   | 2,052.0                       | 123.94                     | 65.5<br>68.9         | 38.5<br>40.5            | 0.706                   | 38.0<br>40.0           | 0.865                   | 65.7<br>70.1            | 1,577                   |
| 13<br>13<br>14 | 123.99                          | 188.3                   | 0.00                  | 3.7<br>3.7<br>3.7 | 184.6<br>189.5           | -45.9                   | 137.7<br>133.1          | 125.00                     | 2,138.6                       | -505.0<br>-851.0              | 0.0               | 137.7                   | 2,060.2                       | 124.04<br>124.10           | 68.9<br>66.6         | 40.5<br>39.2            | 0.730                   | 40.0                   | 0.877                   | 70.2<br>67.3            | 1,685                   |
| 15<br>16       | 124.10<br>124.15                | 190.8<br>180.3          | 0.00                  | 3.7<br>3.7        | 187.1<br>176.6           | -47.0<br>-47.1          | 140.1<br>129.5          | 125.00                     | 2,138.6<br>2,138.6            | -803.7<br>-756.1              | 0.0<br>0.0        | 140.)<br>129.5          | 2,069.2                       | 124.15<br>124.21           | 70.1<br>64.8         | 41.3<br>38.2            | 0.739                   | 40.8<br>37.8           | 0.881<br>0.863          | 71.8<br>65.1            | 1,723                   |
| 17<br>18       | 124.20<br>124.26                | 182.1<br>179.6          | 0.01<br>0.00          | 3.7<br>3.7        | 178.4<br>175.9           | -47.2<br>-47.2          | 131.2                   | 125.00<br>125.00           | 2,138.6<br>2,138.6            | .708.6<br>-661.1              | 0.0<br>0.0        | 131.2<br>128.7          | 2,077.4                       | 124.26<br>124.31           | 65.6<br>64.4         | 38.7<br>38.0            | 0.708<br>0.700          | 38.3<br>37.6           | 0.867<br>0.862          | 66.4<br>64.8            | 1,594<br>1,555          |
| 19<br>20       | 124.31<br>124.36                | 177.2<br>174.6          | 0.00                  | 3.7               | 173.5<br>170.9           | -47.3<br>-56.8          | 126.2<br>114.1          | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -613.6<br>-556.6              | 0.0               | 126.2<br>114.1          | 2,085.6<br>2,090.5            | 124.36<br>124.42           | 63.1<br>57.1         | 37.3<br>33.8            | 0.692<br>0.654          | 36.9<br>33.4           | 0.857<br>0.832          | 63.2<br>55.6            | 1,517<br>1,334          |
| 21<br>22       | 124.42<br>124.47                | 168.5<br>168.5          | 0.00<br>0.00          | 3.7<br>3.7        | 164.8<br>164.8           | .47.4<br>-47.4          | 117.4<br>117.4          | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -509.3<br>-461.9              | 0.0<br>0.0        | 117.4<br>117.4          | 2,094.6<br>2,098.7            | 124.47<br>124.52           | 58.7<br>58.7         | 34.8<br>34.8            | 0.664<br>0.664          | 34.4<br>34.4           | 0.840<br>0.840          | 57.8<br>57.8            | 1,387                   |
| 23<br>24       | 124.52<br>124.58                | 168.5<br>165.9          | 0.00<br>0.00          | 3.7<br>3.7        | 164.8<br>162.2           | -57.0<br>-47.5          | 107.8<br>114.7          | 125.00<br>125.00           | 2,138.6                       | -404.8<br>-357.6              | 0.0<br>0.0        | 107.8<br>114.7          | 2,103.6<br>2,107.7            | 124.58<br>124.63           | 53.9<br>57.4         | 32.0<br>34.1            | 0.636                   | 31.6<br>33.7           | 0.817                   | 51.7<br>56.2            | 1,241 1,349             |
| 25<br>26       | 124.63<br>124.68                | 165.9<br>163.5          | 0.00                  | 3.7               | 162.2<br>159.8           | -47.6<br>-47.6          | 114.6<br>112.2          | 125.00                     | 2,138.6                       | -310.0                        | 0.0<br>0.0        | 114.6                   | 2,111.8<br>2,115.9            | 124.68<br>124.73           | 57.3<br>56.1<br>50.1 | 34.1<br>33.4<br>29.8    | 0.657<br>0.650<br>0.614 | 33.7<br>33.0<br>29.5   | 0.834<br>0.829<br>0.798 | 56.2<br>54.7<br>47.1    | 1,349                   |
| 27<br>28       | 124.73                          | 161.1                   | 0.00                  | 3.8<br>3.8<br>3.8 | 157.3<br>154.8<br>152.2  | -57.2<br>-57.3<br>-38.3 | 100.1<br>97.5<br>113.9  | 125.00<br>125.00<br>125.00 | 2,138.6<br>2,138.6<br>2,138.6 | -205.5<br>-148.7<br>-109.8    | 0.0<br>0.0<br>0.0 | 100.1<br>97.5<br>113.9  | 2,120.8<br>2,125.8<br>2,129.1 | 124.78<br>124.85<br>124.89 | 48.8<br>57.0         | 29.5<br>29.1<br>34.0    | 0.608                   | 29.5<br>28.8<br>33.6   | 0.792                   | 45.6                    | 1,130<br>1,094<br>1,344 |
| 29<br>30<br>31 | 124.84<br>124.89<br>124.95      | 156.0<br>175.9<br>151.1 | 0.01<br>0.00<br>0.00  | 3.8               | 172.1                    | -58.5<br>-57.4<br>-47.9 | 114.7                   | 125.00                     | 2,138.6<br>2,138.6<br>2,138.6 | -52.6                         | 0.0<br>0.0        | 114.7                   | 2,134.1<br>2,138.2            | 124.95                     | 57,4<br>49,7         | 34.3                    | 0.659<br>0.614          | 33.9<br>29.4           | 0.836                   | 56.6<br>46.9            | 1,358                   |
| 31             | 124.33                          | 185.5                   | 0.00                  | 3.7               | 147.5                    |                         | ,,,,,                   | 123.00                     | 2,120.0                       |                               | 6.0               | 130.4                   | 2,120.2                       |                            |                      |                         |                         |                        |                         |                         | 45,828                  |
| 1              |                                 | 151.1                   | 0.00                  |                   | 146.4                    | 114.9                   |                         | 125.00                     | 2,138.6                       | 119.5                         | 0.0               | 261.3                   | 2,128.3                       | 124.88                     | 87.1                 | 52.0                    | 0.888                   | 51.3                   |                         | 141.6                   | 3,398                   |
| 2<br>3         | 124.88<br>124.82                | 161.1                   | 0.00                  | 4.7               | 151.3<br>156.4           | 57.4                    | 213.7                   | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -176.6                        | 0.0               | 208.7<br>213.7          | 2,123.3<br>2,118.3            | 124.82                     | 69.6<br>71.2         | 41.5<br>42.4<br>40.5    | 0.742<br>0.753<br>0.730 | 41.0<br>41.9<br>40.0   | 0.882<br>0.887<br>0.877 | 108.4<br>111.5<br>105.2 | 2,602<br>2,676<br>2,525 |
| 4<br>5         | 124.75<br>124.70                |                         | 0.00                  | 4.7               | 156.4<br>151.3<br>146.4  | 47.7<br>57.1<br>66.6    | 208.4                   | 125.00<br>125.00<br>125.00 | 2,138.6                       | 282.7<br>339.5<br>405.7       | 0.0<br>0.9<br>0.0 | 204.1<br>208.4<br>213.0 | 2,114.2<br>2,109.3<br>2,103.5 | 124.70<br>124.65<br>124.57 | 68.0<br>69.5<br>71.0 | 41.3<br>42.2            | 0.739<br>0.751          | 40.8                   | 0.881                   | 107.8                   | 2,587 2,657             |
| 6<br>7<br>8    | 124.64<br>124.58<br>124.53      | 151.1<br>148.7<br>146.1 | -0.01                 | 4.7<br>4.7<br>4.7 | 144.0<br>141.4           | 38.0<br>56.9            | 182.0                   | 125.00<br>125.00<br>125.00 |                               | -444.2                        | 0.0<br>0.0        | 182.0<br>198.3          | 2,100.2 2,095.3               | 124.53<br>124.47           | 91.0<br>66.1         | 54.0<br>39.2            | 0.920                   | 53.2<br>38.7           | 0.924<br>0.869          | 98.3<br>101.0           | 2,359                   |
| 9<br>10        | 124.47                          | 143.7<br>141.2          |                       | 4,7               | 139.0<br>136.5           | 56.8<br>56.8            | 195.8                   | 125.00                     | 2,138.6                       |                               | 0.0<br>0.0        | 195.8<br>193.3          | 2,090.4 2,085.5               | 124.41<br>124.35           | 65.3<br>64.4         | 38.7<br>38.1            | 0.708                   | 38.2<br>37.7           | 0.866<br>0.863          | 99.3<br>97.6            | 2 383<br>2 342          |
| 11<br>12       | 124.35<br>124.29                | 138.8<br>191.9          | 0.00                  |                   | 134.2<br>187.3           | 56.7<br>56.6            | 190.9                   | 125.00                     | 2,138.6                       | -671.3<br>-727.9              | 0.0<br>0.0        | 190.9<br>243.9          | 2,080.6                       | 124.29<br>124.23           | 63.6<br>81.3         | 37.6<br>48.0            | 0.695<br>0.829          | 37.2<br>47.4           | 0.859<br>0.910          | 95.8<br>129.3           | 2,299<br>3,103          |
| 13<br>14       | 124.23<br>124.17                | 133.8<br>133.8          | 0.00                  | 4.6<br>4.6        | 129.2<br>129.2           | 56.6<br>56.5            | 185.8                   | 125.00<br>125.00           | 2,138.6 2,138.6               | -784.6<br>-841.2              | 0.0               | 185.8<br>185.7          | 2,070.8<br>2,065.9            | 124.17<br>124.11           | 92.9<br>92.9         | 54.8<br>54.8            | 0.933<br>0.933          | 54.0<br>53.9           | 0.925<br>0.925          | 99.8<br>99.7            | 2,395<br>2,393          |
| 15<br>16       | 124.11<br>124.05                | 131.3<br>131.3          | 0.00<br>0.00          | 4.6<br>4.6        | 126.7<br>126.7           | 56.4<br>56.3            |                         | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -897.8<br>-954.4              | 0.0<br>0.0        | 183.1<br>183.0          | 2,061.0<br>2,056.1            | 124.05<br>123.99           | 91.6<br>91.5         | 53.9<br>53.8            | 0.918<br>0.917          | 53.i<br>53.0           | 0.924<br>0.924          | 98.1<br>97.9            | 2,354<br>2,350          |
| 17<br>18       | 123.99<br>123.93                | 128.9<br>126.3          | 0.00<br>0.00          | 4.6<br>4.6        | 124.3<br>121.7           | 56.3<br>56.2            | 177.9                   | 125.00<br>125.09           | 2,138.6<br>2,138.6            | -1067.8                       | 0.0               | 180.6<br>177.9          | 2,051.2<br>2,046.3            | 123.93<br>123.87           | 903<br>89.0          | 53.J<br>52.2            | 0.906<br>0.892          | 52.3<br>51.5           | 0.922<br>0.921          | 96.4<br>94.7            | 2,314<br>2,273          |
| 19<br>20       | 123.87<br>123.81                | 123.9                   | 0.00                  |                   | 119.3<br>119.3           | 56.1<br>56.0            | 175.3                   |                            | 2,138.6                       | -1179.8                       | 0.0               | 175.4                   | 2,041.5<br>2,036.7            | 123.81 123.75              | 87,7<br>87,7         | 51.4<br>51.4            | 0.879                   | 50.7<br>50.6           | 0.919                   | 93.1<br>93.0            | 2,234<br>2,232          |
| 21<br>22       | 123.75                          | 126.3<br>138.8          | 0.00                  | 4.6<br>4.6        | 121.7<br>134.2           | 56.0<br>55.9            | 190.1                   | 125.00                     | 2,138.6                       | -1290.9                       | 0.0               | 177.7                   | 2,031.9<br>2,027.1            | 123.69                     | 88.9<br>95.1         | 52.0<br>55.6<br>37.6    | 0.888<br>0.946<br>0.695 | 51.3<br>54,7<br>37,1   | 0.921<br>0.926<br>0.859 | 94,4<br>101,3<br>95,7   | 2,266<br>2,431<br>2,297 |
| 23<br>24       | 123.58                          | 151.1<br>146.1          | 0.00                  | 4.6               | 146.5<br>141.5           | 46.5<br>55.8            | 197.3                   | 125.00<br>125.00           |                               | -1392.6                       | 0.0<br>0.0        | 193.0<br>197.3          | 2,023.1                       | 123.58<br>123.52<br>123.47 | 64.3<br>65.8<br>93.7 | -37.0<br>-38.4<br>-54.6 | 0.895<br>0.704<br>0.929 | 37.1<br>37.9<br>53.8   | 0.859<br>0.864<br>0.925 | 95.7<br>98.3<br>99.4    | 2,359<br>2,359<br>2,386 |
| 25<br>26<br>27 | 123.52<br>123.46                | 136.2<br>123.9<br>128.9 | 0.00<br>0.01<br>0.00  | 4.6<br>4.5<br>4.5 | 131.6<br>119.4<br>124.4  | 55.7<br>64.9<br>55.5    | 184.3                   | 125.00<br>125.00<br>125,00 | 2,138.6<br>2,138.6<br>2,138.6 | -1512.8                       | 0,0<br>0.0<br>0.0 | 187.3<br>184.3<br>179.9 | 2,013.5<br>2,007.9<br>2,003.1 | 123.40                     | 93.7<br>92.2<br>90.0 | 53.7<br>52.4            | 0.929<br>0.915<br>0.895 | 52.9<br>51.6           | 0.923                   | 97.6<br>94.9            | 2,342                   |
| 27<br>28<br>29 | 123.40<br>123.34<br>123.28      | 120.9<br>126.3<br>123.9 | 0.00                  | 4.5<br>4.5<br>4.5 | 129.4<br>121.8<br>119.4  | -55.5<br>46.1           | 177.3                   | 125,00                     | 2,138.6                       | 1623.8                        | 0.0               | 177.3                   | 1,998.3                       | 123.27                     | 88.7<br>82.8         | 51.6<br>48.1            | 0.882                   | 50.8<br>47.4           | 0.920                   | 93.4<br>86.2            | 2,242                   |
| 30             | 123.28                          | 123.9<br>121.7<br>140.1 | 0.01                  | 4.5<br>4.6        | 117.2                    | 110.5                   |                         | 125.00                     | 2,138.6                       |                               | 0.0               | 227.7<br>194.7          | 1,984.8                       | 123.11                     | 75.9                 | 44.0                    | 0.774                   | 43.4                   | 0,894                   | 116.5                   | 2,796<br>71,366         |
|                |                                 |                         |                       |                   |                          |                         |                         |                            |                               |                               | -                 |                         |                               |                            |                      |                         |                         |                        |                         |                         |                         |

#### Table 7.2.7 (3/4)Çatalan Dam Daily Reservoir Operation<br/>(With System, Flow in 1970)

|          |                     |                       |              |            |                |              | 1.41.          |                  |                    |                    | i.         |                |                    |                  |               |                  |                |                |                |                 |                 |
|----------|---------------------|-----------------------|--------------|------------|----------------|--------------|----------------|------------------|--------------------|--------------------|------------|----------------|--------------------|------------------|---------------|------------------|----------------|----------------|----------------|-----------------|-----------------|
|          | Ru‰                 | υq                    | VL-RC        |            | Inf            | Recv.        | ևոք.1+<br>Qt+  | FSHL.            | PSHL               | Qsp                | Spili      |                | Rsv, Vot           | RWL              |               | Power            |                | Power          |                |                 |                 |
|          | Albeg.              |                       |              | Evp.       | Evp.           | RC           | RC             |                  | Vol.               | FSHI.              |            | HP             |                    | Atend            | Q             |                  | 1.085          |                | lata Po        | wer             | Energy          |
| Jul. 1   | 988 (Inig.          | -70.9 шЗ,             | 3)           |            |                |              |                |                  |                    |                    | àn         |                | 1.081.4            | 102.02           | 712           | 42.4             | 0.753          | 41.9           | 1007           | 74.3            | 1,783           |
| 1        | 123.10              | 114.9                 | 0.01         |            | 109.8          | 36.8<br>18.4 | 146.6          | 125.00<br>125.00 | 2,138.6            | -1816.9            | 0.0<br>0.0 | 146.6<br>130.3 | 1,981.6<br>1,980.0 | 123.07           | 73.3<br>65.2  | 37,7             | 0.696          | 37.3           | 0.887<br>0.860 | 64.1            | 1,538           |
| 23       | 123.07<br>123.05    | 117.0 .<br>117.0      | 0.00<br>0.00 | 5.1<br>5.1 | 111.9          | 9.2          | 121.1          | 125,00           |                    |                    | 0.0        | 121.1          | 1,979.2            | 123.03           | 60.6          | 35.1             | 0.667          | 34.7           | 0.842          | 58.3            | 1,399           |
| 4        | 123.04              | 119.3                 | -0.01        |            | 114.2          | 9.2          | 123.4          | 125.00           | 2,138.6            |                    | 0.0        | 123.4          | 1,978.4            | 123.02           | 61.7          | 35.7             | 0.674          | 35.3           | 0.846          | 59.7            | 1,433           |
| Ś        | 123.02              | 119.3                 | 0.00         | 5.1        | 114.2          | 9.2          | 123.4          | 125.00           | 2,138.6            |                    | 0.0        | 123.4          | 1.977.6            | 123.01           | 61.7          | 35.7             | 0.674          | 35.3           | 0.846          | 59.7            | 1,433           |
| 6        | 123.01              | 114,6                 | 0.00         | 5.1        | 109.5          | 18.4         | 127.9          | 125.00           | 2,138.6            |                    | 0.0        | 127.9          | 1.976.0            | 122.99           | 64.0          | 37.0             | 0.688<br>0.652 | - 36.6<br>33.3 | 0,855          | 62.5            | 1,500           |
| 7        | 122.99              | 115'5                 | 0.00         | 5.1        | 107,1          | 9.2          | 116.3          | 125.00           | 2,138.6            |                    | 0.0        | 116.3<br>125.4 | 1,975.2<br>1,973.6 | 122.98<br>122.96 | 58.2<br>62.7  | 33.6<br>36.2     | 0.679          | 35.8           | 0.831          | 55.2<br>60.9    | 1,325           |
| 8        | 122.93              | 112.2                 | 0.00         | 5.1        | 107.1<br>107.1 | 18.3<br>18.3 | 125.4<br>125.4 | 125.00<br>125.00 | 2,138.6            |                    | 0.0        | 125.4          | 1.972.0            | 122.94           | 62.7          | 36.2             | 0.679          | 35.8           | 0.850          | 60.9            | 1,462           |
| 9<br>10  | 122.96<br>122.94    | 112.2<br>109.9        | 0.00         | 5.1<br>5.1 | 104.8          | 9.2          | 114.0          | 125.00           | 2,138.6            |                    | 0.0        | 114.0          | 1,971.2            | 122.93           | 57.0          | 32.9             | 0.645          | 32.6           | 0.825          | 53.7            | 1,289           |
| 11       | 122.93              | 109.9                 | 0.00         | 5.1        | 104.8          | 18.3         | 123.1          | 125.00           | 2 138.6            |                    | 0.0        | 123.1          | 1,969.6            | 122.91           | 61.6          | 35.6             | 0.673          | 35.2           | 0.845          | 59.4            | 1,426           |
| 12       | 122.91              | 109.9                 | 0.00         | 5.1        | 104.8          | 9.2          | 114.0          | 125.00           | 2,138.6            |                    | 0.0        | 114.0          | 1,968.8            | 122.90           | 57.0          | 32.9             | 0.645          | 32.5           | 0.824          | . 53.6          | 1,286           |
| 13       | 122.90              | 121,7                 | 0.00         | 5.1        | 116.6          | 18.3         | 134.9          | 125.00           | 2,138.6            |                    | . 0,0      | 134.9<br>121.2 | 1,967.2<br>1,966.4 | 122.88<br>122.87 | 67.5<br>60,6  | 39,0<br>35.0     | 0.711<br>0.666 | 38.5<br>34.6   | 0,868<br>0,841 | 66.8 :<br>58.1  | 1,603<br>1,394  |
| 14       | 122.88              | 117.0                 | 0.00         | 5.0        | 112.0<br>112.0 | 9.2<br>18.3  | 121.2<br>130.3 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -1993.0            | 0.0        | 130.3          | 1,964.8            | 122.85           | 65.2          | 37.6             | 0.695          | 37.2           | 0.859          | 63.8            | 1,531           |
| 15<br>16 | 122.87<br>122.85    | 117.0                 | 0.00         | 5.0<br>5.0 | 109.6          | 18.3         | 127.9          | 125.00           | 2,138.6            |                    | 0.0        | 127.9          | 1.963.2            | 122.83           | 64.0          | 36.9             | 0.687          | 36.5           | 0.855          | 62.3            | 1,495           |
| 17       | 122.83              | 112.2                 | 0.00         | 5.0        | 107.2          | 9.1          | 116.3          | 125.00           | 2,138.6            |                    | 0.0        | [16.3          | 1,962.4            | 122.82           | 58.2          | 33.6             | 0.652          | 33.2           | 0.830          | 55.0            | 1,320           |
| 18       | 122.82              | 109.3                 | 0.00         | 5.0        | 104.3          | 18.3         | 122.6          | 125.00           | 2,138.6            | -2057.7            | 0.0        | 122.6          | 1,960.8            | 122.80           | 61.3          | 35.3             | 0.670          | 34.9           | 0.843          | 56.9            | 1,414           |
| 19       | 122.80              | 107.5                 | 0.00         | 5.0        | 102.5          | 9.1          | 111.6          | 125.00           | 2,138.6            |                    | 0.0        | 111.6          | 1,960.0            | 122.79           | 55.8          | 32.2             | 0.638          | 31.8<br>34.4   | 0.819          | 52.1<br>57.8    | 1,250<br>1,387  |
| 20       | 122.79              | 107.5                 | 0.00         | 5.0        | 102.5          | 18.3         | 120.8          | 125,00           |                    | -2085.4            | 0.0<br>0.0 | 120.8<br>111.6 | 1,958.4<br>1,957.6 | 122.77           | 60.4<br>55.8  | 34.8<br>32.1     | 0.664<br>0.637 | 31.8           | 0.840          | 52.1            | 1,250           |
| 21       | 122.77              | 107.5                 | 0.00         | 5.0<br>5.0 | 102.5<br>100.2 | 9.1<br>18.3  | 111.6<br>118.5 | 125.00<br>125.00 | 2,138.6            |                    | 0.0        | 118.5          | 1 956 0            | 122.74           | 593           | 34.1             | 0.657          | 33.8           | 0.835          | 56.3            | 1,351           |
| 22<br>23 | 122.76              | 105.2<br>105.2        | 0.00         | 5.0        | 100.2          | 9.1          | 109.3          | 125,00           | 2,138.6            | 2122.5             | 0.0        | 109.3          | 1.955.2            | 122.73           | 54.7          | 31.5             | 0.631          | 31.1           | 0.813          | 50.6            | 1,214           |
| 24       | 122.73              | 102.8                 | 0.00         | 5.0        | 97,8           | 18.2         | 116.0          | 125.00           | 2,138.6            |                    | 0,0        | 116.0          | 1,953.6            | 122.71           | 58.0          | 33.4             | 0.650          | 33.0           | 0.829          | 54.7            | 1,313           |
| 25       | 122.71              | 102.8                 | 0.00         | 5.0        | 97.8           | 18.2         | 116.0          | 125.00           |                    |                    | 0.0        | 116.0          | 1,952.0            | 122.69           | 58.0          | 33.4             | 0.650          | 33.0           | 0.829          | 54.7            | 1,313           |
| 26       | 122.69              | 123.9                 | 0.00         | 5,0        | 118.9          | 9.1          |                | 125.00           |                    |                    | 0.0        | 128.0          | 1 951 2            | 122.68           | 64.0          | 36.8<br>37.4     | 0.686<br>0.693 | -36.4<br>37.0  | 0.854          | 62.1<br>63.5    | 1,490           |
| 27       | 122.68              | 117.0                 | 0.00         | 5.0        | 112.0          | 18.2         |                | 125.00<br>125.00 | 2,138.6            |                    | 0.0        | 130.2          | 1,949.6<br>1,945.8 | 122.66<br>122.65 | 65.1<br>\$8.2 | 33.5             | 0.651          | . 33.1         | 0.829          | 54.8            | 1,315           |
| 28<br>29 | 122.66<br>122.65    | 112.2<br>107.5        | 0,00         | 5.0<br>5.0 | 107.2<br>102.5 | 9.1<br>18.2  | 116.3          | 125.00           | 2,138.6            |                    | 0.0        | 120.7          | 1,947.2            | 122.63           | 60.4          | 34.7             | 0.663          | 34.3           | 0.839          | 57.5            | 1,380           |
| 30       | 122.63              | 105.2                 | 0,00         | 5.0        | 100.2          | 9.1          | 109.3          | 125.00           | 2,138.6            | -2224.4            | 0.0        | 109.3          | 1,946.4            | 122.62           | 54.7          | 31.4             | 0.630          | 31.1           | 0.813          | 50.5            | 1,212           |
| 31       | 122.62              | 102.8                 | 0.00         | 5.0        | 97.8           | 18.2         | 116.0          | 125.00           | 2,138.6            | -2242.7            | 0.0        | 116.0          | 1.944.8            | 122.60           | 58.0          | 33.3             | 0.649          | 32.9           | 0.828          | 54.6            | 1,310           |
|          |                     | 111.8                 |              | 5.0        | ÷.,            |              |                |                  |                    |                    | 0.0        | 121.6          |                    |                  |               |                  |                |                |                |                 | 43,402          |
| ~        | 1030                | -12-                  |              |            |                |              |                |                  |                    |                    |            |                |                    |                  |               |                  |                |                |                |                 |                 |
|          | 1988 (Img<br>122.60 |                       | 3/s)<br>0.00 | 4.6        | 96.0           | 18.2         | 114.2          | 125.00           | 2,138.6            | .2761 3            | 0.0        | 114.2          | 1,943.2            | 122.58           | 57.1          | 32.8             | 0.644          | 32.4           | 0.824          | \$3.4           | 1,282           |
| 2        | 122,60<br>122,58    | 100.6<br>100.6        | 0.00         | 4.5        | 96.0<br>96.0   | 18.2         |                | 125.00           |                    | -2279.8            | 0.0        | 114.2          | 1,941.6            | 122.56           | 37.1          | 32.8             | 0.644          | 32.4           | 0.824          | 53.4            | 1,282           |
| 3        | 122.56              | 100.6                 | 0.00         | 4.6        | 96.0           | 9.1          | 105.1          |                  | 2,138.6            |                    | 0.0        | 105.1          | 1,940,8            | 122.55           | 52.6          | 30.2             | 0.618          | 29.9           | 0.802          | 47.9            | 1,150           |
| 4        | 122.55              | 98.4                  | 0.00         | 4.6        | 93.8           | 9.1          | 102.9          | 125.00           | 2,138.6            | 2298.5             | 0.0        | 102.9          | 1.940.0            | 122.54           | 51.5          | 29.5             | 0.612          | 29.2           | 0.796          | 46.5            | 1,116           |
| 5        | 122.54              | 96.2                  | 0.00         | 4.6        | 91.6           | 9.1          | 100.7          | 125.00           | 2,138.6            | 2307.7             | 0.0        | 100.7          | 1,939.2            | 122.53           | 50.4          | 28.9             | 0.606          | 28.6           | 0.790          | 45.2            | 1,085           |
| 6        | 122.53              | 96.2                  | 0.00         | 4.6        | 91.6           | 18.2         | 109.8          | 125.00           | 2,138.6            | -2326.1            | 0.0        | 109.8<br>100.7 | 1,937.6<br>1,936.8 | 122.51           | 54.9<br>50.4  | 28.9             | 0.631<br>0.606 | 31.1<br>28.6   | 0.813          | 50.6<br>45.1    | 1,214           |
| 7        | 122.51<br>122.50    | 96.2<br>96.2          | 0.00         | 4.6<br>4.6 | 91.6<br>91,6   | . 9,1<br>9,1 | 100.7          | 125.00           | 2,138.6            | -2335.5<br>-2344.7 | 0.0        | 100.7          | 1,936.0            | 122.30           | 50.4          | 28.9             | 0.605          | -28.6          | 0.790          | 45.1            | 1,052           |
| 9        | 122.49              | 96.2                  | 0.00         | 4.6        | 91.6           | 9.1          | 100.7          | 125.00           | 2,138.6            |                    | 0.0        | 100.7          | 1,935.2            | 122.48           | 50.4          | 28.9             | 0.606          | 28.6           | 0.790          | 45.1            | 1,082           |
| 10       | 122.48              | 93.9                  | 0.00         | 4.6        | 89.3           | 18.1         | 107.4          | 125.00           | 2,138.6            |                    | 0.0        | 107.4          | 1,933.6            | 122.46           | 53.7          | 30.8             | 0.624          | 30.4           | 0.806          | 49.1            | 1,178           |
| n        | 122.46              | 93.9                  | 0.00         | 4.6        | 89.3           | 9.1          | 98.4           | 125.00           | 2,138.6            | -2381.8            | 0.0        | 98.4           | 1.932.8            | 122.45           | 492           | 28.2             | 0.660          | 27.9           | 0.783          | 43.7            | 1,049           |
| 12       | 122.45              | 93.9                  | 0.00         | 4.6        | 89.3           | 9.1          | 98.4           | 125.00           |                    | -2391.0            | 0.0        | 98.4<br>08.4   | 1,532.0            | 122.44           | 49.2<br>49.2  | 28.2<br>28.2     | 0.600<br>0.690 | 27.9           | 0.783<br>0.763 | 43.7<br>43.7    | 1,049           |
| 13       | 122.44              | 93.9                  | 0.00         | 4.6        | 89.3<br>89.3   | 9.1<br>18.1  | 98.4<br>107.4  | 125.00           | 2,138.6            | -2400.3<br>-2418.6 | 0.0<br>0.0 | 98.4<br>107.4  | 1,931.2            | 122.43<br>122.41 | 53.7          | 30.7             | 0.623          | 30,4           | 0.806          | 49.0            | 1,176           |
| 14<br>15 | 122.43<br>122.41    | 93.9<br>91.7          | 0.00         | 4.6        | 87.1           | 9.1          | 96.2           | 125.00           | 2,138.6            | -2428.1            | 0.0        | 96.2           | 1,928.8            | 122.40           | 96.2          | 55.3             | 0.938          | 54.2           | 0.925          | 50,1            | 1,202           |
| 16       | 122.40              | 91.7                  | 0.00         | 4.6        | 87.1           | 9.1          | 96.2           | 125.00           | 2,138.6            | -2437.3            | 0.0        | 96.2           | 1 928 0            | 122.39           | 96.2          | 55.1             | 0.938          | 54.2           | 0.925          | 50.1            | 1,202           |
| 17       | 122.39              | 91.7                  | 0.00         | 4.6        | 87.3           | 9.1          | 96.2           | 125.00           | 2,138.6            | -2445.6            | 0.0        | 96.2           | 1,927.2            | 122.37           | 96.2          | 55.0             | 0.936          | 54.2           | 0.925          | 50.1            | 1,202           |
| 18       | 122.38              | 91.7                  | -0.01        | 4.6        | 87.1           | 9.0          | 96.1           | 125.00           |                    |                    | 0.0        | 96.1           | 1,926.4            | 122.36           | 96.1          | 55.0             | 0.936          | 54.1           | 0.925          | 50.0            | 1,200           |
| 19       | 122.36              | 91.7                  | 0.00         | 4.6        | 87.1           | 9.0          | 96.1           | 125.00           | 2,138.6            | -2465.0<br>-2474.3 | 0.0<br>0.0 | 96.1<br>93.9   | 1,925.6<br>1,924.8 | 122.35           | 96.1<br>93.9  | 55.0<br>53.7     | 0.936<br>0.915 | 54.1<br>52.8   | 0.925<br>0.923 | 50.0<br>48.8    | 1,200           |
| 20<br>21 | 122.35<br>122.34    | 89.5<br>89.5          | 0.00         | 4.6<br>4.6 | 84.9<br>84.9   | 9.0<br>9.0   | 93.9<br>93.9   | 125.00<br>125.00 | 2,138.6            | -2483.5            | 0.0        | 93.9           | 1,924.U            | 122.33           | 93.9          | 53.7             | 0.915          | 52.8           | 0.923          | 45.8            | 1,171           |
| 22       | 122.33              | 89,5                  | 0.00         | 4.6        | 84.9           | 18.1         | 103.0          | 125.00           | 2,138.6            | -2501.9            | 0.0        | 103.0          | 1,922.4            | 122.31           | 515           | 29.4             | 0.611          | 29.1           | 0.795          | 46.3            | 1,111           |
| 23       | 122.31              | 89.5                  | 0.00         | 4.6        | 84.9           | 9.0          | 93.9           | 125.00           | 2,138.6            | -2511.3            | 0.0        | 93.9           | 1,921.6            | 122.30           | 93.9          | 53.7             | 0.915          | 52.8           | 0.923          | 48.7            | 1,169           |
| 24       | 122.30              | 89.5                  | 0.00         | 4.6        | 84.9           | 9.0          | 93.9           | 125.00           |                    |                    | 0.0        | 93.9           | 1,920.8            | 122.29           | 93.9          | \$3.6            | 0.913          | 528            | 0.923          | 48.7            | 1,169           |
| 25       | 122.29              | 89.5                  | 0.00         | 4.6        | 84.9           | 9.0          | 93.9           | 125,00           | 2,138.6            |                    | 0.0        | 93.9           | 1 920.0            | 122.28           | 93.9<br>51.5  | 53.6<br>29.4     | 0.913<br>0.611 | 52.8<br>29.1   | 0.923<br>0.795 | 48.7<br>46.3    | 1,169<br>1,111  |
| 26       | 122.28              | 89.5<br>89.5          | 0.00<br>0.00 | 4.6<br>4,6 | 84.9<br>84.9   | 18.1<br>9.0  | 103.0<br>93.9  | 125.00           | 2,138.6<br>2,138.6 | -2548.2<br>-2557.6 | 0.0<br>0.0 | 103.0<br>93.9  | 1,918.4<br>1,917.6 | 122.26<br>122.25 | 93.9          | 53.6             | 0.913          | 52.8           | 0.923          | 48.7            | 1,169           |
| 27<br>28 | 122.26              | 89.5                  | 0.00         | 4.6        | 84.9           | 9.0          | 93.9           | 125.00           | 2,138.6            | -2566.9            | 0.0        | 93.9           | 1 916.8            | 122.24           | 93.9          | 53.6             | 0.913          | 52.8           | 0.923          | 48.7            | 1,169           |
| 29       | 122.24              | 895                   | 0.00         | 4.6        | 84.9           | 9.0          |                | 125.00           | 2,138.6            | -2576.1            | 0.0        | 93.9           | 1.916.0            | 122.23           | 93.9          | 53.6             | 0.913          | 52,7           | 0.923          | 48.7            | 1,169           |
| 30       | 122.23              | 89.5                  | 0.00         | 4.6        | 84.9           | 18.0         | 102.9          | 125.00           | 2,138.6            | -2594.4            | 0.0        | 102.9          | 1,914.4            | 122.21           | 515           | 29.4             | 0.611          | 29.1           | 0.795          | 46.2            | 1,109           |
| 31       | 122.21              | 89.5                  | 0.00         | 4.6        | 84.9           | 9.0          | ¥3.9           | 125.00           | 2,138.6            | -2603.9            | 0.0        | 93.9           | 1,913.6            | 122.20           | 93.9          | 53.6             | 0.913          | 52.7           | 0.923          | 48.7            | 1,169           |
|          |                     | 93.0                  |              | 4.6        |                |              |                |                  |                    |                    | 0.0        | 99.8           |                    |                  |               |                  |                |                |                |                 | 35,738          |
| Se       | 1988 (Irrig         | .=29.3 m <sup>≤</sup> | 16)          |            |                |              |                |                  |                    |                    |            |                |                    |                  |               | - 1 <sup>1</sup> |                |                | -<br>          | $\sim 10^{-10}$ |                 |
| 1        | 122.20              | 89.5                  | 0.00         | 3.6        | 85.9           | 54.1         | 140.0          | 125.00           | 2,138.6            | -2658.3            | 0.0        | 140.0          | 1,908.9            | 122.14           | 70.0          | 39.9             | 0.722          | 39,4           | 0.873          | 68.8            | 1,651           |
| 2        | 122.14              | 89.5                  | 0.00         | 3.6        | 85.9           | 27.0         | 112.9          | 125.00           | 2,138.6            | -2685.6            | 0.0        | 112.9          | 1,906.6            | 122.11           | 565           | 32.2             | 0.638          | 31.8           | 0.819          | 52.1            | 1,250           |
| 3        | 122.11              | 91.7                  | 0.00         | 3.6        | 88.1           | 27.0         |                | 125.00           | 2,138.6            |                    | 0.0        | 115.1          | 1,904.3            | 122.08           | 57.6          | 32.8             | 0.644          | 32.4           | 0.824          | 53.4            | 1,282           |
| 4        | 122.03              | 91.7                  | 0.00         | 3.6        | 88.1           | 27.0         | 115.1          | 125.00           | 2,138.6            |                    | 0.0<br>0.0 | 115.1<br>103.9 | 1,902.0<br>1,900.4 | 122.05           | 57.6<br>52.0  | 32.8<br>29.6     | 0.644<br>0.613 | 32.4<br>29.3   | 0.824          | 53.4<br>46.5    | 1,282<br>1,116  |
| 5        | 122.05              | 89.5                  | 0,00         | 3.6        | 85.9<br>85.9   | 18.0<br>26.9 | 103.9<br>112.8 | 125.00<br>125.00 | 2,138.6            |                    | 0.0        | 112.8          | 1,898.1            | 122.03<br>122.00 | 56.4          | 32.1             | 0.615          | 31,7           | 0.818          | 51.9            | 1,246           |
| 6        | 122.00              | 89.5<br>89.5          | 0.00         | 3.6<br>3.6 | 85.9           | 26.9         | 112.8          | 125.00           | 2,138.6            |                    | 0.0        | 112.8          | 1,895.8            | 121.97           | 56.4          | 32.0             | 0.636          | 31.7           | 0.818          | 51.9            | 1,246           |
| 8        | 121.97              | 87.4                  | 0.00         | 3.6        | 83.8           | 26.9         | 110.7          | 125.00           | 2,138.6            |                    | 0,0        | 110.7          | 1,893.5            | 121.94           | 55.4          | 31.5             | 0.631          | 31,1           | 0.813          | 50.6            | 1,214           |
| 9        | 121.94              | 87.4                  | 0.00         | 3.6        | 83.8           | 26.9         | 110.7          | 125.00           | 2,138.6            | -2863.7            | 0.0        | 110.7          | 1 891 2            | 121.91           | 55.4          | 31.4             | 0.630          | 31,1           | 0.813          | 50.5            | 1,212           |
| 10       | 121.91              | 87.4                  | 0.00         | 3.6        | 83.8           | 26.9         |                | 125.00           | 2,138.6            | -2890.3            | 0.0        | 110.7          | 1,888.9            | 121.88           | 55.4          | 31,4             | 0.630          | 31.1           | 0.813          | 50.5            | 1,212           |
| 11       | 121.88              | 85.1                  | 0.00         | 3.6        | 81.5           | 26.8         |                | 125.00           | 2,138.6            | -2916.8            | 0,0        | 108.3          | 1,886.6            | 121.85           | 542           | 30.7             | 0.623          | 30.4           | 0.806          | 49.0<br>48.9    | 1,176           |
| 12<br>13 | 121.85<br>121.82    | 85.1<br>85.1          | 0.00<br>0.00 | 3.6        | 81.5<br>81.5   | 26.8<br>26.8 |                | 125.00<br>125.00 | 2,138.6            |                    | 0.0<br>0.0 | 108.3<br>108.3 | 1,884.3<br>1,882.0 | 121.82<br>121.79 | 54.2<br>54.2  | 30.7             | 0.623          | 30.4<br>30.4   | 0.805          | 48.9            | 1,174           |
| 14       | 121.02              | .85,1                 | 0.00         | 3.6        | 81.5           | 26.8         | 108.3          | 125.00           | 2,138.6            |                    | 0.0        | 108.3          | 1 879.7            | 121.76           | 54.2          | 30.7             | 0.623          | 30,4           | 0.806          | 48.9            | 1,174           |
| 15       | 121.76              | 85.1                  | 0.00         | 3.6        | 81.5           | 17.8         | 99.3           | 125,00           | 2,133.6            | -3014.3            | 0.0        | 99.3           | 1,878.2            | 121.74           | 99.3          | 56.2             | 0.956          | 55.3           | 0.926          | 51.2            | 1,229           |
| 16       | 121.74              | 85.1                  | 0.00         | 3.6        | 81.5           | 26.8         | 108.3          | 125.00           | 2,138.6            | -3040.7            | 0.0        | 108.3          | 1,875.9            | 121.71           | 54.2          | 30.7             | 0.623          |                | 0.806          | 48.8            | 1,171           |
| 17       | 121.71              | 85.1                  | 0.00         | 3.6        | 81.5           | 26.7         |                | 125.00           |                    | -3067.2            | 0.0        | 108.2          | 1,873.6            | 121.68           | 54.1          | 30.6             | 0.622          | 30,3           | 0.806          | 48.8            | 1,171           |
| 18       | 121.68              | 83.0                  | 0.00         | 3.6        | 79.4           | 26.7         | 106.1          |                  | 2,138.6            |                    | 0.0<br>0,0 | 106.1<br>106.1 | 1,871.3            | 121.65           | 53.1<br>53.1  | 30.0<br>30.0     | 0.616<br>0.616 | 29.7<br>29.7   | 0.800          | 47.5<br>47.4    | 1,140<br>1,138  |
| 19<br>20 | 121.65<br>121.62    | 83.0<br>83.0          | 0.00         | 3.6<br>3.6 | 79.4<br>79.4   | 26.7<br>26.7 | 106.1          | 125.00           | 2,138.6            | -3147.1            | 0.0        | 106.1          | 1,866.7            | 121.62           | 53.1          | 30.0             | 0.616          | 29.7           | 0.800          | 47.4            | 1,138           |
| 20       | 121.59              | 83.0                  | 0.00         | 3.6        | 79.4           | 26.7         |                | 125.00           | 2,138.6            |                    | 0.0        | 106.1          | 1.864.4            | 121.56           | 53.3          | 30.0             | 0.616          | 29.6           | 0.799          | 47.3            | 1,135           |
| 22       | 121.56              | 83.0                  | 0.60         | 3.6        | 79.4           | 26.6         | 106.0          | 125,00           | 2,138.6            | 3200.2             | 0.0        | 106,0          | 1,862.1            | 121.53           | 53.0          | 29.9             | 0.615          | 29.6           | 0.799          | 47.3            | 1,135           |
| 23       | 121.53              | 105.2                 | 0.00         | 3.6        | 101.6          | 26.6         | 128.2          | 125.00           | 2,138.6            |                    | 0.0        | 128.2          | 1,859.8            | 121.50           | 64.1          | 36.1             | 0.678          | 35,7           | 0.849          | 60.6            | 1,454           |
| 24       | 121.50              | 93.9                  | 0.00         | 3.6        | 90.3           | 26.6         |                | 125.00           | 2,138.6            |                    | 0.0        | 116.9          | 1.857.5            | 121.47           | 58.5<br>97.1  | 33.0<br>54.7     | 0.646          | 32.6<br>53.8   | 0.825          | 53.7<br>49.8    | 1,289<br>1,195  |
| 25       | 121.47              | 83.0<br>80.8          | 0.00         | 3.6<br>3.6 | 79.4<br>77.2   | 17.7         |                | 125.00           | 2,138.6<br>2,138.6 |                    | 0.0        | 97.1<br>103.8  | 1,856.0<br>1,853.7 | 121.45           | 51.9          | 29.2             | 0.009          | ээ.н<br>28,9   | 0.925          | 45.8            | 1,099           |
| 26<br>27 | 121.45<br>121.42    | 83.0                  | 0.00         | 3.0<br>3.5 | 79.5           | 26.6         |                | 125.00           | 2,138.6            |                    | 0.0        | 106.1          | 1,851.4            | 121.39           | 53.1          | 29.9             | 0.615          | 29.6           | 0.799          | 47.2            | 1,133           |
| 28       | 121.39              | 85.1                  | 0.00         | 3.5        | 81.6           | 26.5         |                | 125.00           | 2,138.6            | -3350.6            | 0.0        | 108.1          | 1,849.1            | 121.36           | 54.1          | . 30.4           | 0.620          | 30,1           | 0,804          | 48.3            | 1,159           |
| 29       | 121.36              | 85.1                  | 0.00         | 35         | 81.6           | 26.5         | 168.1          | 125.00           | 2,138.6            | -3377.2            | 0.0        | 108.1          | 1,846.8            | 121.33           | 54.1          | 30,4             | 0.620          | 30 .           | 0.804          | 48.3            | 1,159           |
| 30       | 121,33              | 85.1                  | 0.00         | 3.5        | 81.6           | 26.5         | 108.1          | 125.00           | 2,138.6            | -3403.8            | 0.0        | 108.1          | 1,844.5            | 121.30           | 54.)          | 30.4             | 0.620          | 30,1           | 0,504          | 48.3            | 1,159<br>36,313 |
|          |                     | 86.8                  |              | 3.6        |                |              |                |                  |                    |                    | 0.0        | 110.0          |                    |                  |               |                  | •              |                |                |                 | .70, 115        |
|          |                     |                       |              |            |                |              |                |                  |                    |                    |            |                |                    |                  |               |                  |                |                |                |                 |                 |

# Table 7.2.7 (4/4) Çatalan Dam Daily Reservoir Operation (With System, Flow in 1970) Recy, Ott FSHL FSHL Osp Spill Ray, Vol RWL Power

|          | Rute                     | Þч                 | /L-RC         |             | Inf            | Recv.         | laf.1+<br>Qt+  | FSHL               | FSHL.              | Qsp                | Spill      |                | Rsv.Vol            | RWL              |                | Power        |                | Power        |                |                |                 |
|----------|--------------------------|--------------------|---------------|-------------|----------------|---------------|----------------|--------------------|--------------------|--------------------|------------|----------------|--------------------|------------------|----------------|--------------|----------------|--------------|----------------|----------------|-----------------|
|          | At beg.                  | Inflow             |               | Evp.        | Evp.           | RC            | RC             |                    | Yol.               | 1511               |            | 61P            |                    | At end           | Q              |              | 1,055          |              | iata P         | owe1           | Evergy          |
| 1        | . 1988 (Irrig.<br>121.30 | #6.3 103/1<br>89.8 | •)<br>0.00    | 2,4         | 87.4           | 79.4          | 166.8          | 125.00             | 2,138.6            | -3349.1            | 0.0        | 166.8          | 1,837.6            | 121.21           | 83,4           | 46.8         | 0.812          | 46.1         | 0.905          | 83.6           | 2,006           |
| 2        | 121.21                   | 89.8               | 0.00          | 2.4         | 87,4           | 35.2          | 122.6          | 124.86<br>124.72   | 2 127.0            |                    | 0.0<br>0.0 | 122.6          | 1,834.6<br>1,831.6 | 121.17           | 61.3           | 34.4<br>34.3 | 0.660<br>0.659 | 34.0<br>33.9 | 0.836<br>0.836 | 56.8<br>56.7   | 1,363<br>1,361  |
| 4.       | 121.17<br>121.13         | 89.8<br>87.4       | 0.00          | 2.4         | 87,4<br>85.0   | 35.2<br>52.7  | 122.6<br>137.7 | 124.57             | 2,115.5<br>2,103.1 | -3062.0            | 0.0        | 122.6<br>137.7 | 1,827.0            | 121.14<br>121.07 | 61.3<br>68.9   | 38.6         | 0.707          | 38.1         | 0.865          | 65.8           | 1,579           |
| 5        | 121.08                   | 87.4               | -0.01         | 2.4         | 85.0           | 26.3          |                | 124.43             | 2,091.6            | -2956.9            | 0.0        | 111.3          | 1 824 7            | 121.04           | 55.7           | 31.1         | 0.627<br>0.693 | 30.8<br>37.0 | 0.810<br>0.858 | 49.9<br>63.4   | 1,198<br>1,522  |
| 6<br>7   | 121.04<br>120.99         | 92.4<br>92.4       | 0.00<br>0.00  | 2.4         | 90.0<br>90.0   | 43.9<br>35.1  | 133.9<br>125.1 | 124.29<br>124.15   | 2,080.2<br>2,068.8 | -2869.1<br>-2763.1 | 0.0<br>0.0 | 133.9<br>125.1 | 1,820.9<br>1,817.9 | 120.99<br>120.95 | 67.0<br>62.6   | 37.4<br>34.9 | 0.665          | 34.5         | 0.838          | 58.0           | 1,392           |
| 8        | 120.95                   | 92.4               | 0.00          | 2.4         | 90.0           | 35.0          | 125.0          | 124.00             | 2,056.6            | -2666.9            | 0.0        | 125.0          | 1,814.9            | 120.91           | 62.5           | 34.9         | 0.665          | 34.5         | 0.840          | 57,9           | 1,390           |
| 9<br>10  | 120.91<br>120.86         | 89.3<br>89.3       | 0.00<br>0.00  | 2.4<br>2.4  | 86.9<br>86.9   | 43.7<br>34.9  | 130.6          | 123.86<br>123.72   | 2,045.3<br>2,034.0 | -2579.6<br>-2484.0 | 0,0<br>0.0 | 130.6<br>121.8 | 1,611.1<br>1,808.1 | 120.86<br>120.82 | 65.3<br>60.9   | 36.4<br>33.9 | 0.682<br>0.655 | 36.0<br>33.5 | 0.851<br>0.833 | 61.2<br>55.9   | 1,469<br>1,342  |
| n        | 120.82                   | 87.4               | 0.00          | 2.4         | 85.0           | 34.9          | 119,9          | 123.58             | 2,022.7            | -2389.1            | 0.0        | 119.9          | 1,805.1            | 120,78           | 60.0           | 33.4         | 0.650          | 33.0         | 0.829          | 54.7           | 1,313           |
| 12<br>13 | 120.78<br>120.73         | 40.2<br>110.3      | 0.00<br>0.00  | 2.4<br>2.4  | 37.8<br>107.9  | 43.6<br>34.8  | 81.4<br>142.7  | 123.44<br>123.29   | 2,011.5<br>1,999.5 | -2293.6<br>-2199.2 | 0.0<br>0.0 | 81.4<br>142.7  | 1,801.3<br>1,798.3 | 120.73<br>120.69 | 81.4<br>71.4   | 45.3<br>39.7 | 0.791<br>0.720 | 44.6<br>39.2 | 0.900<br>0.872 | 40.2<br>68.3   | 965<br>1,639    |
| 14       | 120.69                   | 110.3              | 0.00          | 2.4         | 107.9          | 43.5          | 151.4          |                    | 1,988.3            | -2114.1            | 0.0        | 151.4          | 1,794.5            | 120.64           | .75.7          | 42.0         | 0.748          | 41.5         | 0.885          | 73.4           | 1,762           |
| 15<br>16 | 120.64<br>120.60         | 100.1<br>95.1      | 0.00<br>0.00  | 2.4<br>2.4  | 97.7<br>92.7   | 34.8<br>34.7  | 132.5<br>127.4 | 123.01<br>122.87   | 1,977.2            | -1919.0            | 0.0<br>0.0 | 132.5<br>127,4 | 1,791.5<br>1,788.5 | 120.60<br>120.56 | 66.3<br>63.7   | 36.8<br>35.3 | 0.686<br>0.670 | 36.3<br>34.9 | 0.853<br>0.843 | 62.0<br>58.8   | 1,455<br>1,411  |
| 17       | 120.56                   | 92.4               | 0,00          | 2.4         | 90.0           | 43.4          | 133.4          | 122.72             | 1,954.3            |                    | 0.0        | 133.4          | 1,784.8            | 120.51           | 66.7           | 37.0         | 0.688          | 36.5         | 0.855          | 62.4           | 1,498           |
| 18<br>19 | 120.51<br>120.47         | 92.4<br>92.4       | 0.00<br>0.90  | 2.4<br>2.4  | 90.0<br>90.0   | 34.7<br>34.6  | 124.7<br>124.6 | 122.58<br>122.44   | 1,943.3<br>1,932.3 | -1741.9<br>-1649.2 | 0.0<br>0.0 | 124.7<br>124.6 | 1,781.8<br>1,778.8 | 120.47<br>120.43 | 62.4<br>62.3   | 34.5<br>34.5 | 0.661<br>0.651 | 34.1<br>34.1 | 0.837<br>0.837 | 57.1<br>57.0   | 1,370<br>1,368  |
| 20       | 120.43                   | 89.3               | 0.00          | 2.4         | 86.9           | 43.2          | 130.1          | 122.30             | 1,921.3            | -1566.3            | 0.0        | 130.1          | 1 775 1            | 120.39           | 65.1           | 36.0         | 0.677          | 35.6         | 0,848          | 60.3           | 1,447           |
| 21<br>22 | 120.38<br>120.34         | 89.3<br>89.3       | 0.01<br>0.00  | 2.4<br>2.3  | 86.9<br>87.0   | 43.2          | 130.1<br>130.1 | 122.16             | 1,910,4<br>1,898.8 | -1474.9<br>-1391.5 | 0.0<br>0.0 | 130.1<br>130.1 | 1,771.4            | 120.34<br>120.29 | 65 I<br>65 I   | 36.0<br>35.9 | 0.677<br>0.676 | 35.5<br>35.5 | 0.848          | 60.2<br>69.2   | 1.445<br>1.445  |
| 23       | 120.29                   | 89.3               | 0.00          | 2.3         | 87,0           | 34.5          | 121.5          | 121.87             | 1,887.9            | -1300.7            | 0.0        | 121.5          | 1,764.7            | 120.25           | 60.8           | 33.5         | 0.651          | 33.1         | 0.829          | 54.9           | 1,318           |
| 24<br>25 | 120.25<br>120.21         | 87,4<br>87,4       | 0.00          | 2.3         | 85.1           | 34.4<br>43.0  | 119.5<br>128.1 | 121.73<br>121.59   | 1,877.1<br>1,866.4 | -1211.5<br>-1121.7 | 0.0<br>0.0 | 119.5<br>128.1 | 1.761.7<br>1.758.0 | 120.21<br>120.16 | 59.8<br>64.1   | 33.0<br>35.3 | 0.646<br>0.670 | 32.6<br>34.9 | 0.825<br>0.843 | 53.7<br>58.8   | 1,289           |
| 26       | 120.16                   | 95.1               | 0.00          | 2.3         | 92.8           | 34.4          | 127.2          | 121.44             | 1,854.9            | -1032.1            | 0.0        | 127.2          | 1,755.0            | 120.12           | 63.6           | 35.0         | 0.666          | 34.6         | 0.841          | 58.2           | 1 397           |
| 27<br>28 | 120.12<br>120.08         | 192.0<br>141.2     | 0.00<br>-0.01 | 2.3<br>2.3  | 189.7<br>138.9 | 34.3<br>34.3  | 224.0<br>173.2 | 121.30             | 1,844.2<br>1,833.5 | -942.9<br>-854.9   | 0.0<br>0.0 | 224.0<br>173.2 | 1,752.0<br>1,749.0 | 120.07<br>120.03 | 74.7<br>86.6   | 41.1<br>47.6 | 0.737<br>0.823 | 40.5<br>46.9 | 0.880<br>0.909 | 106.9<br>85.2  | 2,565<br>2,045  |
| 29       | 120.03                   | 105.2              | 0.00          | 2.3         | 102.9          | 34.3          | 137.2          | 121.02             | 1,822.9            | -766.9             | 0.0        | 137.2          | 1,746.0            | 119.99           | 68.6           | 37.7         | 0.696          | 37.2         | 0.859          | 63.9           | 1,534           |
| 30<br>31 | 119.99<br>119.94         | 97.5<br>95.1       | 0.00<br>0.00  | 2.3<br>2.3  | 95.2<br>92.8   | 42.8<br>34.2  | 138.0<br>127.0 | 120.88<br>120.73   | 1,812.3<br>1,801.0 | -679.4<br>-590.9   | 0.0<br>0,0 | 138.0<br>127.0 | 1,742.3<br>1,739.3 | 119.94<br>119.90 | 69.0<br>63.5   | 37.8<br>34.8 | 0.697<br>0.664 | 37.4<br>34.4 | 0.861<br>0.840 | 64,4<br>57,8   | 1,546<br>1,387  |
| .,       |                          | 96.1               |               | 2.4         |                |               |                |                    |                    |                    | 0.0        | 132.9          |                    |                  |                |              |                |              |                |                | 46,266          |
| No       | . 1988                   |                    |               |             |                | 1             |                | •                  | · · .              |                    |            |                |                    |                  |                |              |                |              |                |                |                 |
| 1        | 119.90                   | 92.4               | 0.00          | 13          | 91.1           | 102.4         | 193.5          | 120.59             | 1,790.4            | -573.5             | 0.0        | 193.5          | 1,730.5            | 119.78           | 96.8           | 53.0         | 0.904          | 52.1         | 0.922          | 96.0           | 2,364           |
| 2        | 119.78<br>119.73         | 89.3<br>87.4       | 0.00<br>0.00  | 1.3         | 88.0<br>86.1   | 42.6<br>51.0  | 130.6<br>137.1 | 120.45<br>120.31   | 1,780.0            | -494.0<br>-415.6   | 0.0<br>0,0 | 130.6<br>137.1 | 1,726.8<br>1,722.4 | 119.73<br>119.67 | 65.3<br>68.6   | 35.7<br>37.4 | 0.674<br>0.693 | 35.2<br>37.0 | 0.845<br>0.858 | 59.6<br>63.4   | 1,430<br>1,522  |
| 4        | 119.67                   | 84.7               | 0.00          | 1.3         | 83.4           | 50.9          | 134.3          | 120.16             | 1,758.3            | -347.2             | 0.0        | 134.3          | 1,718.0            | 119.61           | 67.2           | 36.6         | 0.684          | 36.2         | 0.853          | 61.7           | 1.481           |
| 5<br>6   | 119.61<br>119.55         | 84.7<br>84.7       | 0.00          | 1.3         | 83.4<br>83.4   | 50.9<br>50.8  | 134.3<br>134.2 | 120.02<br>119.88   | 1,748.0<br>1,737.6 | -277.8<br>-209.4   | 0.0<br>0.0 | 134.3<br>134.2 | 1.713.6<br>1.709.2 | 119.55<br>119.49 | 67.2<br>67.1   | 36.6<br>36.5 | 0.684<br>0.683 | 36.2<br>36.1 | 0.853<br>0.852 | 61.6<br>61.4   | 1 478<br>1 474  |
| 7        | 119.49                   | 84.7               | 0.00          | 1.3         | 83.4           | 42.3          | 125.7          | 119.74             | 1,727.3            | -132.6             | 0.0        | 125.7          | 1,705.5            | 119.44           | 62.9           | 34.2         | 0.658          | 33.8         | 0.835          | 56.4           | 1,354           |
| 8<br>9   | 119.44<br>119.38         | 84.7               | 0.00<br>0.00  | 1.3         | 83.4<br>83.4   | 59.7<br>59.0  | 134.1<br>142.4 | 119.60<br>119.45   | 1,717.0            | -56.5              | 0.0<br>0.0 | 134.1<br>142.4 | 1,701.1<br>1,696.0 | 119.38           | 67.1<br>71.2   | 36.4<br>38.6 | 0.682<br>0.707 | 36.0<br>38.1 | 0.851<br>0.865 | 61.2<br>66.0   | 1.459<br>1.584  |
| 10       | 119.31                   | 84.7               | 0.00          | 1.3         | 83.4           | 117.7         | 201.1          | 119.31             | 1,695.8            | 1.5                | 0.0        | 201.1          | 1,685.8            | 119.17           | 100.6          | 54.5         | 0.928          | 53.5         | 0.924          | 98.9<br>67.2   | 2,374           |
| 11       | 119.17<br>119.03         | 82.3<br>82.3       | 0.00          | 1.3         | 81.0<br>81.0   | 117.3         | 195.3<br>206.2 | 119.17<br>119.03   | 1,685.7<br>1,675.5 | 1.9<br>2.1         | 0.0<br>0.0 | 198.3<br>206.2 | 1,675,7            | 119.63<br>118.88 | 99.2<br>103.1  | 53.6<br>55.5 | 0.913<br>0.944 | 52.7<br>54.6 | 0.923<br>0.925 | 97.2<br>101.0  | 2,333<br>2,424  |
| 13       | 118.88                   | 82.3               | 0.00          | 1.3         | 81.0           | 116.5         | 197.5          | 118.88             | 1,664.7            | 1.6                | 0.0        | 197.5<br>197.1 | 1.654.8<br>1.644.8 | 118.74           | 98.8<br>08.6   | 53.1<br>52.8 | 0.905<br>0.901 | 52.2<br>52.0 | 0.922<br>0.922 | 95.2           | 2,309<br>2,299  |
| 14       | 118.74<br>118.60         | 82.3<br>79.7       | 0.00          | 13<br>13    | 81.0<br>78.4   | 116.1         | 197.1<br>80.0  | 118.74<br>118.60   | 1,654.7<br>1,644.6 | 2.0<br>0.7         | 0.0<br>0.0 | 80.0           | 1 644.7            | 118.60<br>118.60 | 98.6<br>80.0   | 42.8         | 0.758          | 42.2         | 0.922          | 95.8<br>37.5   | 2,299           |
| 16       | 118.60                   | 79.7               | 0.00          | 1.3         | 78.4<br>75.7   | 0.0           | 80.0<br>80.0   | 118.60             | 1,644.6            | -0.4<br>-4.3       | 0.0<br>0.0 | \$0.0<br>80.0  | 1.644.6<br>1.644.2 | 118.60           | 6.08<br>80.0   | 42.8<br>42.8 | 0.758<br>0.758 | 42.2<br>42.2 | 0.889<br>0.889 | 37.5<br>37.5   | 900<br>900      |
| 17<br>18 | 118.60<br>118.60         | 77.0<br>82.3       | 0.00          | 1.3         | 81.0           | 0.0<br>-8.3   | \$0.0          | 118.60<br>118.60   | 1,644.6<br>1,644.6 | -3.6               | 0.0        | 80.0           | 1,644.2            | 118.59<br>118.60 | 80.0           | 42.5         | 0.758          | 42.2         | 0.889          | 37.5           | 900             |
| 19       | 118.60                   | 84.7               | .0.00         | 1.3         | 83.4           | 0.0           | 83.4           | 118.60<br>[18.60   | 1.644.6            | -3.5<br>-3.5       | 0,0        | 83.4<br>81.0   | 1.644.3<br>1.644.3 | 118.60<br>118.60 | 83.A<br>81.0   | 44.6<br>43.3 | 0.782<br>0.765 | 44,0<br>42.7 | 0.897<br>0.891 | 39.5<br>38.1   | 948<br>914      |
| 20       | 118.60<br>118.60         | 82.3<br>79.7       | 0.60          | 1.3<br>1.3  | 81.0<br>78.4   | Ŭ.Ŭ<br>0.U    | 81.0<br>80.0   | 118.60             | 1,644.6<br>1,644.6 | -5.1               | 0.0<br>0.0 | 80.0           | 1,644.2            | 118.59           | 80.0           | 42.8         | 0.758          | 42.2         | 0.851          | 37.5           | 900             |
| 22       | 118.60                   | 77.0               | -0.01         | 1.3         | 75.7           | 24.8          | 100.5          | 118.60             | 1,644.6            | -29.4              | 0.0        | 100.5<br>132.4 | 1,642.1            | 118.56           | 100.5          | 53.8<br>35.4 | 0.917<br>0.671 | 52.8<br>34.9 | 0.923<br>0.843 | 4\$.8<br>58.9  | 1,171<br>1,414  |
| 23<br>24 | 118.56<br>118.51         | 92.4<br>324.6      | 0.00          | 1.3         | 91.1<br>323.3  | 41.3<br>49.5  | 132.4<br>360.0 | $118.60 \\ 118.60$ | 1,644.6<br>1,644.6 | -70.2<br>-107.3    | 0.0<br>0.0 | 360.0          | 1,638.5<br>1,635.3 | 118.51<br>118.47 | 66.2<br>120.0  | 64.1         | 1.095          | 62.8         | 0.922          | 173.7          | 4,169           |
| 25       | 118.45                   | 246.5              | 0.02          | 1.3         | 245.2          | 65.9          | 311.1<br>333.3 | 118.60<br>118.60   | 1,644.6            | -173,5<br>-223.0   | 0.0        | 311.1<br>333.3 | 1.629.6<br>1.625.3 | 118.39<br>118.33 | 103.7<br>111.1 | 55.3<br>59.2 | 0.941<br>1.006 | 54_4<br>58.1 | 0.925<br>0.927 | 150.8<br>161.6 | 3,619<br>3,878  |
| 26<br>27 | 118.39<br>118.33         | 285.2<br>318.3     | 0.00<br>0.00  | 1.3<br>-1.3 | 283.9<br>317.0 | 49.4<br>49.3  | 360.0          | 118.60             | 1,644.6<br>1,644.6 | -266.4             | 0.0<br>0.0 | 360.0          | 1.621.6            | 118.28           | 120.0          | 63.9         | 1.091          | 62.6         | 0.927          | 173.1          | 4,154           |
| -28      | 118.27                   | 231.5              | 0.01          | 1.3         | 230.2          | 49.2          | 279.4          | 118.60             | 1,644.6            | -315.4             | 0.0        | 279.4          | 1.617.3            | 118.22           | 93.1<br>76.0   | 49.5         | 0.851<br>0.733 | 48,7<br>40,3 | 0.914          | 133.6          | 3,206           |
| 29<br>30 | 118.22<br>118.16         | 182.8<br>159.2     | 0.00<br>0.00  | 1.3<br>1.3  | 181.5<br>157.9 | 49.2<br>49.1  | 230.7<br>207.0 | 118.60<br>118.60   | 1,644,6<br>1,644,6 | -365.2<br>-414.8   | 0.0<br>0.0 | 230.7<br>207.0 | 1,613.0<br>1,608.8 | 118.16<br>118.10 | 76.9<br>103.5  | 40.8<br>54.9 | 0.934          | 54.0         | 0.879<br>0.925 | 106.2<br>99.8  | 2,549<br>2,395  |
|          |                          | 122.5              |               | 1.3         |                |               |                |                    | •                  |                    | 0.0        | 171.5          |                    |                  |                |              |                |              |                |                | 58,752          |
| Dec      | 1988                     |                    |               |             |                |               |                |                    |                    |                    |            |                |                    |                  |                |              |                |              |                |                |                 |
| 1        | 118.10<br>117.91         | 133.8<br>128.9     | 0.00          | 0.8<br>0.8  | 133.0<br>128.1 | 154.9<br>81.2 | 287.9<br>209.3 | 118.60<br>118.60   | 1,644.6<br>1,644.6 | -569.3<br>-650.6   | 0.0<br>0.0 | 287.9<br>209.3 | 1,595.4<br>1,588.4 | 117.91<br>117.81 | 96.0<br>104.7  | 50.8<br>55.3 | 0.870<br>0.941 | 50.0<br>54,3 | 0.918<br>0.925 | 137.6<br>100.4 | 3,302<br>2,410  |
| 3        | 117.81                   | 125.1              | 0.00          | 0.8         | 124.3          | 81.0          | 205.3          | 118.60             | 1,644.6            | -731.5             | 0.0        | 205.3          | 1,5\$1.4           | 117.71           | 102.7          | 54.1         | 0.921          | \$3.2        | 0.924          | 98.2           | 2,357           |
| 4        | 117.71                   | 123.1<br>169.7     | 0.00          | 0.8<br>0.8  | 122.3<br>168.9 | 72.8<br>80.7  | 195.1<br>249.6 | 119.60<br>118.60   | 1,644.6<br>1,644.6 | -804.3<br>-885.1   | 0.0<br>0.0 | 195.1<br>249.6 | 1,575.1            | 117.62<br>117.52 | 97.6<br>83.2   | 51.3<br>43.7 | 9.878<br>0.770 | 50.5<br>43.1 | 0.919<br>0.893 | 92.8<br>115.3  | 2,227<br>2,767  |
| 6        | 117.52                   | 270.7              | 0.00          | 0.8         | 269.9          | \$0.5         | 350.4          | 118.60             | 1 644.6            | -965.9             | 0.0        | 350.4          | 1,561.1            | 117.41           | 116.8          | 61.2         | 1.042          | 60.0         | 0.925          | 166.5          | 3,996           |
| 7.       | 117.42<br>117.33         | 200.7              | -0.01<br>0.01 | 0.8<br>0.8  | 199.9<br>177.6 | 64.2<br>88.1  | 264.1<br>265.7 | 118.60<br>118.60   | 1,644.6<br>1,644.6 |                    | 0,0<br>0.0 | 264.1<br>265.7 | 1,555.6<br>1,548.0 | 117.34<br>117.23 | 88.0<br>88.6   | 46.0<br>46.3 | 0.801<br>0.805 | 45.3<br>45.6 | 0.903<br>0.904 | 122.9<br>123.5 | 2,950<br>2,964  |
| 9        | 117.23                   | 157,4              | 0.00          | 0.8         | 156.6          | 79.9          | 236.5          | 115.60             | 1 644.6            | -1198.0            | 0.0        | 236.5          | 1,541.1            | 117.13           | 78.8           | 41.1         | 0.737          | 40.5         | 0.889          | 107.0          | 2,568           |
| 10<br>11 | 117.13<br>117.03         |                    | 0.00          | 0.8<br>0.8  | 196.1<br>191.1 | 79.7          | 275.8<br>262.6 | 118.60<br>118.60   | 1,644.6            |                    | 0.0<br>0.0 | 275.8<br>262.6 | 1,534.2<br>1,528.0 | 117.03<br>116.93 | 91.9<br>87.5   | 47.8<br>45.4 | 0.826<br>0.793 | 47.1<br>44.8 | 0.909<br>0.901 | 128.4<br>121.0 | 3,982<br>2,904  |
| 12       | 116.94                   | 128.9              | -0.01         | 0.8         | 128.1          | 71.3          | 199.4          | 118.60             | 1.644.6            | -1420.8            | 0.0        | 199.4          | 1,521.8            | 116.84           | 99.7           | 51.7         | 0.884          | 50.8         | 0.920          | 93.5           | 2,244           |
| 13<br>14 | 116.84<br>116.74         | 123.1<br>120.5     | 0.00          | 0.8<br>0.8  | 122.3<br>119.7 | 79.1<br>71.0  | 201.4<br>190.7 | 118.60<br>118.60   | 1,644.6            |                    | 0.0<br>0.0 | 201.4<br>190.7 | 1,515.0<br>1,508.9 | 116.74<br>116.66 | 100.7<br>95.4  | 52.1<br>49.3 | 0.890<br>0.848 | 51.2<br>48.5 | 0,920<br>0.914 | 94.2<br>88.6   | 2,261<br>2,126  |
| 15       | 116.65                   | 118.0              | 0.01          | 0.8         | 117.2          | 86.5          | 203.7          | 118.60             | 1,644.6            | 1657.1             | 0.0        | 203.7          | 1,501.4            | 116.54           | 101.9          | 52.5         | 0.896          | 51.6         | 0.921          | 95.1           | 2,282           |
| 16<br>17 | 116.55                   | 112.9              | -0.01         | 0.8         | 112.1          | 70.6<br>70.4  |                | 118.60<br>118.60   | 1,644.6            |                    | 0.0<br>0.0 | 182.7<br>179.9 | 1,495.3<br>1,489.2 | 116.45<br>116.36 | 91.4<br>90.0   | 47.0<br>46.2 | 0.815<br>0.804 | 46.3<br>45.5 | 0.905<br>0.993 | 83.8<br>82.1   | 2,011<br>1,970  |
| 18       | 116,36                   | 107.8              | 0.00          | 0.8         | 107.0          | 78.1          | 185.1          | 118.60             | 1,644.6            | -1876.7            | 0.0        | 185.1          | 1.482.5            | 116.27           | 92.6           | 47.5         | 0.822          | 46.7         | 0.908          | 84.8           | 2,035           |
| 19<br>20 | 116.26<br>116.16         | 107.8              | 0.01          | 0.8<br>0.8  | 107.0<br>107.0 | 85.7<br>69.9  |                | 118.60<br>118.60   | 1.644.6<br>1.644.6 |                    | 0.0<br>0.0 | 192.7<br>176.9 | 1,475.1<br>1,469.1 | 116.16<br>116.07 | 96.4<br>88.5   | 49.3<br>45.2 | 0.848<br>0.790 | 48.5<br>44.5 | 0.914<br>0.899 | 88.7<br>80.0   | 2,129<br>1,920  |
| 21       | 116.07                   | 105.2              | 0.00          | 0.8         | 104.4          | 77.5          | 181.9          | 118.60             | 1,644.6            | -2108.8            | 0.0        | 181.9          | 1,462.4            | 115.97           | 91.0           | 46.4         | 0.806          | 45.7         | 0,904          | 82.5           | 1,980           |
| 22<br>23 | 115.97<br>115.87         | 102.6<br>102.6     | 0,00<br>0.00  | 0.8         | 101.8<br>101.9 | 77.3<br>69.4  |                | 118.60<br>118.60   | 1,644.6<br>1,644.6 |                    | 0.0<br>0.0 | 179.1<br>171.3 | 1,455.7<br>1,449.7 | 115.87<br>115.78 | 89.6<br>85.7   | 45.6<br>43.5 | 0.795<br>0.767 | 44.9<br>42.9 | 0.901<br>0.892 | \$0.8<br>76.5  | 1,939<br>1,836  |
| 24       | 115.78                   | 102.6              | 0.00          | 0.7         | 101.9          | 76.9          | 178.8          | 118.60             | 1,644.6            | -2332.7            | 0.0        | 178.8          | 1,443.1            | 115.68           | 89.4           | 45.3         | 0.791          | 44.6         | 0.940          | 80.3           | 1,927           |
| 25<br>26 | 115.68<br>115.58         | 100.1<br>100.1     | 0.00<br>0.00  | 0.7<br>0.7  | 99.4<br>99.4   | 76.7<br>76.5  |                | 118.60<br>118.60   | 1,644.6            |                    | 0.0<br>0.0 | 176.1<br>175.9 | 1 436 5<br>1 429.9 | 115.58<br>115.48 | 88.1<br>88.0   | 44.6<br>44.4 | 0.782<br>0.779 | 43.9<br>43.8 | 0,897<br>0,896 | 78.7<br>78.4   | 1,889<br>1,882  |
| 20       | 115.48                   | 100.1              | 0.00          | 0.7         | 99.4           | 63.6          | 168.0          | 118.60             | 1,644.6            | -2553.6            | 0.0        | 168.0          | 1,424.0            | 115.39           | 84,0           | 42.3         | 0.752          | 41.7         | 0.886          | 73.9           | 1,774           |
| 28       | 115.39                   | 97.5<br>97.5       | 0.00<br>0.00  | 0.7         | 96.8<br>96,8   | 76.1<br>75.9  |                | 118.60<br>118.60   |                    | -2629.3<br>-2705.5 | 0.0<br>0.0 | 172.9<br>172.7 | 1 417.4<br>1 410.8 | 115.29<br>115.19 | 86.5<br>86.4   | 43.5<br>43.4 | 8,767<br>0,766 | 42.9<br>42.7 | 0.892<br>0.891 | 76.4<br>76.1   | 1,834<br>1,526  |
| 29<br>30 | 115.29<br>115.19         | 95.1               | 0.00          | 0.7<br>0.7  | 94.4           | 68.1          | 162.5          | 118.60             | 1.644.6            | -2774.1            | 0.0        | 162.5          | 1,404.9            | 115.10           | 81.3           | 40.7         | 0.732          | 40.2         | 0.878          | 70.5           | 1,692           |
| 31       | 115.10                   | 95.1<br>129.4      | 0.00          | 0.7         | 94.4           | 75.5          | 169.9          | 118.60             | 1,644.6            | -3.7               | 0.0<br>0,0 | 169.9<br>207.2 | 1,398.4            | 115.00           | 85.0           | 42.5         | 0.755          | 41.9         | 0,887          | 74.3           | 1,783<br>70,867 |
|          |                          | 129.4              |               | 0.8         |                |               |                |                    |                    |                    |            |                |                    |                  |                |              |                |              |                |                |                 |
| Gra      | nd Total<br>115.00       | 2,109              |               | 32          |                |               |                |                    | 1,398.7            |                    | 13         | 2,061          |                    |                  |                |              |                |              |                |                | 717,567         |

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#### Table 7.2.8 (1/4)Çatalan Dam Daily Reservoir Operation<br/>(With System, Flow in 1975)

|                |                          |                |                  |             |                |                  |                |                  |                    |                    |               |                |                    |                  |                | •            |                |              |                |                |                         |
|----------------|--------------------------|----------------|------------------|-------------|----------------|------------------|----------------|------------------|--------------------|--------------------|---------------|----------------|--------------------|------------------|----------------|--------------|----------------|--------------|----------------|----------------|-------------------------|
|                | Rule                     |                | 'L-RC            |             | Inf            | Recv.            | inf.1+<br>Qi+  | FSIL             | FSHL               | Qsp                | Spill         | 112            | Rsv.Vol            | RWL<br>At end    | : 0            | Power        | Loss           | Power        | Bata           | Power          | Finergy                 |
| Jan. 1         | 988                      | Inflow         | 0.00             | Evp.<br>0.7 | Evp.<br>136.8  | RC<br>-67.9      | RC 265.3       | 118.60           | Yol.               | -2974.6            | 0.0           | 265.3          | 1,398.7            | 115.00           | 88.4           | 44.1         | 0.775          | 43.4         |                | 116.5          | 2,796                   |
| 1 2            | 115.00                   | 135.0          | -0.26            | 0.7         | 134.3<br>136.8 | -233.6           | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6            | -2920.2<br>-2863.3 | 0.0<br>0.0    | 80,0<br>80,0   | 1,392.3            | 114.90<br>114.98 | 80.0<br>80.0   | 39.9<br>39.9 | 0.722 0,722    | 39.3<br>39.4 | 0.873<br>0.873 | 34.3<br>34.4   | 823<br>826              |
| 4              | 115.14                   | 137.5<br>135.0 | -0.21            | 0.7         | 134.3          | -189.0           | 80.0           | 118.60           | 1,644.6            | -2809.1            | 0.0           | 80.0<br>80.0   | 1,401.9            | 115.05<br>115.12 | 80.0<br>80.0   | 40.0<br>40.1 | 0,723<br>0,725 | 39.4<br>39.5 | 0.873          | 34.4<br>34.5   | 826<br>828              |
| 5<br>6.        | 115.23<br>115.28         | 132.6<br>130.1 | -0.18<br>-0.16   | 0.7<br>0.8  | 131.9<br>129.3 | -174.2<br>-159.3 | 80.0<br>80.0   | 118.60<br>118.60 |                    | -2707.6            | 0.0<br>0.0    | 80.0           | 1,410.7            | 115,18           | 80.0           | 40.1         | 0.725          | 39.5         | 0.874          | 34.6           | 830                     |
| 7<br>8         | 115.33<br>115.38         | 127.5<br>127.5 | -0.15<br>-0.13   | 0.8<br>0.8  | 126.7<br>126.7 | -151.9<br>-129.3 | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6            |                    | 0.0<br>0.0    | 80.0<br>80.0   | 1,414.7<br>1,418.7 | 115.25<br>115.31 | 80.0<br>80.0   | 40.2<br>40.2 | 0.726          | 39.6         | 0.875          | 34.6<br>34.7   | 830                     |
| 9<br>10        | 115.42<br>115.47         | 127.5<br>159.8 | -0.11<br>-0.10   | 8.0<br>8.0  | 126.7          | -121.9<br>-114.4 | 80.0<br>80.0:  | 118.60<br>118.60 |                    | -2567.9<br>-2459.3 | 0.0<br>0.0    | 80.0<br>80.0   | 1,422.7<br>1,429.5 | 115.37<br>115.47 | 80.0           | 40.3<br>40.3 | 0.727          | 39.7<br>39.7 | 0.875          | 34.7<br>34.8   | 833<br>835              |
| 11<br>12       | 115.52<br>115.56         | 769.3<br>380.3 | -0.05<br>0.44    | 0.8         | 768.5<br>379.5 | -68.8<br>300.4   | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | 2081.1             | 0.0<br>0.0    | 360.0<br>360.0 | 1,464.8<br>1,466.5 | 116.00<br>116.03 | 120.0<br>120.0 | 60.8<br>61.2 | 1.035<br>1.042 | 59.6<br>59.9 | 0.926<br>0.926 | 165.6<br>166.5 | 3,974<br>3,996          |
| 13<br>14       | 115.61<br>115.66         | 271.9<br>229.2 | 0.42             | 0.8<br>0.8  | 271.1<br>228.4 | 285.3<br>161.8   | 360.0<br>360.0 | 118.60<br>118.60 |                    | -2150.2<br>-2282.1 | 6.0<br>0.0    | 360.0<br>360.0 | 1,458.8<br>1,447.4 | 115.91<br>115.74 | 120.0<br>120.0 | 61.1<br>60.9 | 1.040          | 59.9<br>59.7 | 0.926          | 166.4          | 3,994<br>3,982          |
| 15             | 115.70                   | 200.7<br>180.3 | 0.04             | 0.8<br>0.8  | 199.9<br>179.5 | -7.7<br>-38.5    | 192.2<br>141.0 | 118.60<br>118.60 | 1,644,6            | -2274.7<br>-2235.8 | 0.0<br>0.0    | 192.2<br>141.0 | 1,448.1<br>1,451.4 | 115.75<br>115.80 | 96.1<br>70.5   | 48,7<br>35.8 | 0.839<br>0.675 | 47.9<br>35.3 | 0.912<br>0.846 | 87.4<br>59.7   | 2,098                   |
| 17<br>18       | 115.80<br>115.84         | 171.0          | 0.00             | 0.8         | 170.2<br>165.1 | -30.8<br>-38.6   | 139.4          | 118.60<br>118.60 | 1,644.6            | -2205.3<br>-2166.3 | 0.0<br>0.0    | 139.4<br>126.5 | 1,454.1<br>1,457.4 | 115.84<br>115.89 | 69.7<br>63.3   | 35.4<br>32.2 | 0.671          | 34.9<br>31.8 | 0.843<br>0.819 | 58.9<br>- 52.0 | 1,414<br>1,248          |
| 19             | 115.89                   | 159.8          | 0.00             | 0.8<br>0.8  | 159.0<br>154.0 | -38.6<br>-30.9   | 120.4<br>123.1 | 118.60           | 1.644.6            |                    | 0.0<br>0.0    | 120.4<br>123.1 | 1,460.7            | 115.94<br>115.98 | 60.2<br>61.6   | 30.6<br>31.4 | 0.622<br>0.630 | 30.3<br>31.0 | 0.806<br>0.812 | 48,8<br>50,3   | 1,171                   |
| 20<br>21       | 115.94                   | 154.8<br>146.1 | 0.00             | 0.8         | 145.3<br>142.9 | -38.7<br>-38.8   | 106.6<br>104.1 | 118.60           | 1,644.6            |                    | 0.0           | 106.6          | 1,466.7            | 116.03<br>116.08 | 106.6<br>104.1 | 54.3<br>53.1 | 0.925<br>0.906 | 53.4<br>52.2 | 0.924          | 49.3<br>48.1   | 1,183                   |
| 22<br>23       | 116.03<br>116.08         | 143.7<br>137.5 | 0.00             | 0.8         | 136.7          | -38.8            | 97.9           | 118.60           | 1,644.6            | -1980.9<br>-1949.2 | 0.0           | 97.9<br>103.1  | 1 473.5<br>1 476.2 | 116.13<br>116.17 | 97.9<br>103.1  | 50.0<br>52.7 | 0.858<br>0,899 | 49.2         | 0.916<br>0.922 | 45.0<br>47.7   | 1,080                   |
| 24<br>25       | 116.13<br>116.17         | 135.0<br>132.6 | 0.00<br>0.00     | 0.8<br>0.8  | 134.2<br>131.8 | -31.1<br>-38.9   | 103.1<br>92.9  | 118.60           | 1,644.6            | 1910.2             | 0.0           | 92.9           | 1,479.6            | 116.22           | 92.9<br>90.3   | 47.5         | 0.822          | 46.8<br>45.5 | 0.908          | 42.5<br>41.1   | 1,020<br>986            |
| 26<br>27       | 116.22<br>116.27         | 130.1<br>128.1 | . 0.00<br>. 0.00 | 0.8<br>0.8  | 129.3<br>127.3 | -39.0<br>-31.2   | .90.3<br>96.1  | 118.60<br>118.60 | 1,644.6            | -1870.7<br>-1839.2 | 0.0           | 90.3<br>96.1   | 1,483.0<br>1,485.7 | 116.27<br>116.31 | 96.1           | 49.2         | 0.846          | 48.4<br>46.8 | 0.913          | 44.2<br>42.5   | 1,061                   |
| 28<br>29       | 116.31<br>116.36         | 132.6<br>127.5 | 00.0<br>00.0     | 0.8<br>0.8  | 131.8<br>126.7 | -39.1<br>-39.1   | 92.7<br>87.6   | 118.60<br>118.60 | 1,644.6            |                    | 0.0<br>0.0    | 92.7<br>87.6   | 1,489.1<br>1,492.5 | 116.36<br>116.41 | 92.7<br>87.6   | 47.5<br>45.0 | 0.822<br>0.787 | 44.3         | 0.897          | 39.8           | 955                     |
| 30<br>31       | 116.41<br>116.45         | 132.6<br>146.1 | 00.0<br>00.0     | 0.8<br>0.8  | 131.8<br>145.3 | -31.3<br>-39.2   | 100.5<br>106.1 | 118.60<br>118.60 | 1,644.6<br>1,644.6 |                    | 0.0<br>0.0    | 100.5<br>106.1 | 1,495.2<br>1,498.6 | 116.45<br>116,50 | 100.5<br>106.1 | 51.6<br>54.6 | 0.882<br>0.929 | 50.8<br>53.6 | 0.920<br>0.924 | 46.7<br>49.5   | 1,121                   |
|                |                          | 178.2          |                  | 0.8         | •              |                  |                | ÷                |                    | S.,                | 0.0           | 140.2          |                    | · .              | •              |              |                |              |                |                | 46,690                  |
| Feb. 1         | 1988<br>116.50           | 177.2          | 0.00             | 1.0         | 176.2          | -86.4            |                | 118.60           |                    | -1603.4            | 0.0           | 89.8           | 1,506.1            | 116.61           | 89.8           | 46.3         | 0.805          | 45.5         | 0.903          | .41.1          | 986                     |
| 2<br>3         | 116.61<br>116.67         | 165.9<br>159.8 | 0.00             | 1.0<br>1.0  | 164.9<br>158.8 | -47,2<br>-39.4   | 117.7<br>119.4 | 118.60<br>118.60 | 1,644.6            | -1555,8<br>-1516.2 | 0.0<br>0.0    | 117.7<br>119.4 | 1,510.2<br>1,513.6 | 116.67<br>116.72 | 58.9<br>59.7   | 30.4<br>30.8 | 0.620<br>0.624 | 30.0<br>30.5 | 0.803          | 48.2<br>49.2   | 1,157                   |
| 4<br>5         | 116.72<br>116.78         | 154.8<br>148.7 | 0.00             | 1.0<br>1.0  | 153.8<br>147.7 | -47.4<br>-39.5   | 106.4<br>108.2 | 118.60<br>118.60 |                    | -1468.8<br>-1429.3 | 0.0<br>0.0    | 106.4<br>108.2 | 1,517.7<br>1,521.1 | 116.78<br>116.83 | 106.4<br>108.2 | 55.0<br>56.0 | 0.936<br>0.952 | 54.0<br>55.0 | 0.925<br>0.926 | 50.0<br>50.9   | 1,200                   |
| 6<br>7         | 116.83<br>116.89         | 143.7<br>141.2 | 0.00<br>0.00     | 1.0<br>1,0  | 142.7<br>140.2 | -47.5<br>-39.7   | 95.2<br>100.5  | 118.60<br>118.60 |                    | -1381.9<br>-1342.2 | 0.0<br>0.0    | 95.2<br>100.5  | 1,525.2            | 116.89<br>116.94 | 95.2<br>100.5  | 49.3<br>52.1 | 0,848<br>0,890 | 48.5         | 0.914          | 44.4           | 1,065                   |
| 8<br>9         | 116.94                   | 136.3<br>143.7 | 0.00<br>0.00     | 1.0<br>1.9  | 135.3<br>142.7 | -47.7<br>39.8    | 87.6<br>102.9  | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -1294.9<br>-1255.3 | 0.0<br>0.0    | 87.6<br>102.9  | 1,532.7<br>1,536.1 | 117.00<br>117.05 | 87.6<br>102.9  | 45.5<br>53.5 | 0.794<br>0.912 | 44.8<br>52.6 | 0.901          | 40.4<br>48.5   | 970<br>1,164            |
| 10<br>11       | 117.05                   | 137.5<br>122.1 | 0.00             | 1.0<br>1.0  | 136.5<br>121.1 | -47.8<br>-39.9   | 88.7<br>81.2   | 118.60<br>118.60 |                    | -1208.0<br>-1168.4 | 0.0<br>0.0    | 88.7<br>81.2   | 1.540.2<br>1.543.6 | 117.11<br>117.16 | 88.7<br>81.2   | 46.1         | 0.802<br>0.752 | 45.4<br>41.7 | 0.903          | 41.0           | 984<br>886              |
| 12<br>13       | 117.16                   | 122.1          | 0.00             | 1.0<br>1.0  | 121.1<br>118.0 | -47.9<br>-48.0   | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6            | -1127.9<br>-1089.3 | 0.0<br>0.0    | 80.0<br>80.0   | 1,547.2            | 117.21<br>117.26 | 80.0<br>80.0   | 41.7<br>41.7 | 0.744          | 41.1<br>41.2 | 0.883<br>0.884 | 36.3<br>36.4   | 871<br>874 <sup>:</sup> |
| 14<br>15       | 117.27                   | 121.7<br>127.5 | -0.01            | 1.0<br>1.0  | 120.7<br>126.5 | -56.1            | 80.0<br>80.0   | 118.60<br>118.60 |                    | -1048.4<br>-1902.1 | 0.0           | 80.0<br>80.0   | 1,554.0<br>1,558.0 | 117.31           | 80.0<br>80.0   | 41.8<br>41.8 | 0.746<br>0.746 | 41.2         | 0.884          | 36,4<br>36,5   | 874<br>876              |
| 16<br>17       | 117.38                   | 127.5<br>127.5 | -0.01            | 1.0<br>1.0  | 126.5<br>126.5 | -56.2<br>-48.3   | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6            | -935.8<br>-909.5   | 0.0<br>0.0    | 80.0<br>80.0   | 1,562.0<br>1,566.0 | 117.43<br>117.49 | 80.0<br>80.0   | 41.9<br>41.9 | 0.747<br>0.747 | 41.3<br>41.3 | 0.884<br>0.884 | 36.5<br>36.5   | 876<br>376              |
| 18             | 117.49                   | 130.1          | 0.00             | 1.0<br>1.0  | 129.1<br>129.1 | -4S.3<br>40.3    | 80.8<br>88.8   | 118.60<br>118.60 | 1,644.6            | -861.4<br>-820.8   | 0.0<br>0.0    | 80.8<br>53.8   | 1,570.2            | 117.55<br>117.60 | 80.8<br>88.8   | 42.4<br>46.6 | 0.753          | 41.8<br>45.9 | 0.887          | 37.1<br>41.5   | 890<br>998              |
| 19<br>20       | 117.55                   | 130.1<br>137.5 | 0.00             | 1.0         | 136.5          | -48.5            | 88.0           | 118.60           | 1,644.6            | -772.1             | 0,0<br>0.0    | 88.0<br>127.1  | 1,577.9<br>1,581.4 | 117.66           | 88.0<br>63.6   | 46.3         | 0.805<br>0.651 | 45.6         | 0.904          | 41.2<br>54.8   | 989<br>1,315            |
| 21<br>22       | 117.66<br>117.71         | 168.5<br>174.6 | 0.00             | 1.0<br>1.0  | 167.5<br>173.6 | -48.6            | 127.1<br>125.0 | 118.60           | 1,644.6            | -682.9             | 0.0           | 125.0          | 1,585.6            | 117.77           | 62.5<br>(4.7   | 32.9<br>34.1 | 0.645          | 32.5<br>33.7 | 0.824          | 53.6<br>56.2   | 1,286                   |
| 23<br>24       |                          | 171.0<br>162.3 | 0.00<br>0.00     | 1.0<br>1.0  | 170.0<br>161.3 | -40.6<br>-48.7   | 129.4<br>112.6 | 118.60<br>118.60 | 1.644.6            | -642.3<br>-593.7   | 0.0           | 129.4<br>112.6 | 1,589.1<br>1,593.3 | 117.88           | 56.3           | 29.7         | 0.614          | 29.4         | 0.797          | 46.8           | 1,123                   |
| 25<br>26       | 117.88<br>117.93         | 165.9<br>179.6 | 0.00<br>0.00     | 1.0<br>1.0  | 164.9<br>178.6 | -40.7<br>-48.9   | 124.2<br>129.7 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -553.0<br>-504.3   | 0.0<br>0.0    | 124.2<br>129.7 | 1,596.8            | 117.93<br>117.99 | 62.1<br>64.9   | 32.8<br>34.3 | 0.644<br>0.659 | 32.4<br>33.9 | 0.824<br>0.836 | 53.4<br>56.6   | 1,282                   |
| 27<br>28       | 117.99<br>118.04         | 182.1<br>180.3 | 00.0<br>10.0-    | 1.0<br>1.0  | 181.1<br>179.3 | -40.8<br>-57.2   | 140.3<br>122.1 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -463.8<br>-406.9   | 0.0<br>0.0    | 140.3<br>122.1 | 1,604.5<br>1,609.4 | 118.03<br>118.10 | 70.2<br>61.1   | 37.2<br>32.4 | 0.691<br>0.639 | 36.7<br>32.0 | 0.856          | 62.8<br>52.4   | 1,258                   |
|                |                          | 148.5          |                  | 1.0         |                |                  |                |                  |                    |                    | 0.0           | 101.6          |                    |                  |                |              |                |              |                |                | 30,548                  |
| Mar.<br>1      | 1988<br>118.10<br>118.25 | 188.3<br>179.6 | 0.00<br>-0.02    | 1.6<br>1.6  | 186.7<br>178.0 | -122.8           |                | 118.60<br>118.60 | 1 644 6            | -300.7<br>-218.8   | 0.0           | 80.0<br>95.9   | 1,618.6            | 118.23           | 80.0<br>95.9   | 42.5         | 0.755<br>0.873 | 41.9<br>50.2 | 0.887          | 37.1<br>46.1   | 890<br>1,106            |
| 3              | 118.33                   | 174.6<br>174.6 | 0.00             | 1.6<br>1.6  | 173.0<br>173.0 | -57.6            | 115.4          | 118.60<br>118.60 | 1,644,6            | -161.1             | 0.0<br>0.0    | 115.4<br>107.0 | 1,630.7            | 118.40<br>118.48 | 57.7           | 30.7<br>28.5 | 0.623<br>0.603 | 30.4<br>28.2 | 0.806          | 49.0<br>44.4   | 1,176                   |
| 5              | 118.40<br>115.48         | 174.6          | 0.00             | 1.6         | 173.0          | -57.8            | 115.2          | 118.60           |                    | -37.1              | 0.0<br>0.0    | 115.2          | 1,641.4<br>1,645.0 | 118.55           | 57.6<br>65.8   | 30.8<br>35.2 | 0.624          | 30.4<br>34,8 | 0.806<br>0.843 | 49.0<br>58.6   | 1,176                   |
| 7              | 118.55                   | 174.6          | 0.00             | 1.6         | 173.0<br>175.6 | -41.4<br>8.3     |                | 118.60           | 1,644.6            | -3.7               | 0.0           | 183.9          | 1 644 3<br>1 644.3 | 118.60           | 92.0           | 49.2         | 0.846          | 48.5<br>46.9 | 0.914          | 88.6<br>85.3   | 2,126                   |
| 8<br>9.        | 118.60<br>118.60         | 179.6<br>188.3 | 0.00             | 1.6         | 178.0<br>186.7 | 0,0<br>0.0       | 186.7          | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -3.5<br>-3.5       | 0,0<br>0,0    | 178.0<br>186.7 | 1,644.3            | 118.60<br>118.60 | 89.0<br>93.4   | 47.6         | 0.823          | 49.2         | 0.916          | 90.1           | 2,162                   |
| 10<br>11       | 118.60<br>118.60         | 188.3<br>146.2 |                  | 1.6         | 186.7<br>144.6 | 0.0<br>0.0       | 186.7<br>144.6 | 118.60<br>118.60 | 1 644.6<br>1 644.6 | 3.5<br>3.5         | 0.0<br>0.0    | 186.7<br>144.6 | 1,644.3<br>1,644.3 | 118.60<br>118.60 | 93.4<br>72.3   | 50.0<br>38.7 | 0.858<br>0.708 | 49.2<br>38.2 | 0.916          | 90.1<br>66.1   | 2,162                   |
| 12 -<br>13     | 118.60<br>118.60         | 270.0<br>276.2 | 0.00<br>0.00     | 1.6<br>1.6  | 268.4<br>274.6 | 0.0<br>0.0       | 268.4<br>274.6 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -3.5<br>-3.5       | 0.0<br>0.0    | 268.4<br>274.6 | 1,644.3<br>1,644.3 | 118.60<br>118.60 | 89.5<br>91.5   | 47.9<br>49.0 | 0.828<br>0.843 | 47.2<br>48.2 | 0.910          | 128.7<br>132.1 | 3,089<br>3,170          |
| 14<br>15       | 118,60<br>118,60         | 291.8<br>333.2 | 0.00<br>0.00     | 1.6         | 290.2<br>331.6 | 0.0<br>•116.1    | 290.2<br>215.5 | 119.60<br>118.60 | 1 644.6<br>1 644.6 | -3.5<br>-4.3       | 0.0<br>0.0    | 290.2<br>215.5 | 1,644.3<br>1,654.3 | 118.60<br>118.74 | 96.7<br>71.8   | 51.7<br>38.5 | 0,884<br>0.706 | 50.9<br>38,0 | 0.920          | 140.5<br>98.6  | 3,372                   |
| 16<br>17       | 118.74<br>118.88         | 356.7<br>345.6 | 0.00             | 1.6<br>1.6  | 355.1<br>344.0 | -116.5<br>-116.9 |                | 118.74<br>118.88 | 1,654.7<br>1,664.7 | 3.9<br>3.5         | 0.0<br>- 0.0  | 238.6<br>227,1 | 1,664.4<br>1,674.5 | 118.88<br>119.02 | 79.5<br>75.7   | 42.7         | 0.757<br>0.733 | 42.1         | 0.888<br>0.878 | 112.2<br>105.9 | 2,693<br>2,542          |
| 18<br>19       | 119.02<br>119.53         | 312.2<br>296.1 | 0.00<br>-0.24    | 1.6<br>1.6  | 310.6<br>294.5 | -429.2<br>-262.0 |                | 119.02<br>119.16 | 1,674.8<br>1,684.9 | 110.2<br>206.4     | 0.0           | 80.0<br>80.0   | 1,694.4<br>1,712.9 | 119.29<br>119.54 | 80.0<br>80.0   | 43.2<br>43.4 | 0.764<br>0.766 | 42.6<br>42.8 | 0.891          | 38.0<br>38.2   | 912<br>917              |
| 20<br>21       | 119.60<br>119.68         | 299.4<br>315.9 | -0.06<br>-0.25   | 1.6         | 297.8<br>314.2 | -118.8<br>-271.4 |                | 119.30<br>119.43 | 1,695.1<br>1,704.6 | 214.9<br>116.1     | 33.9<br>0.0   | 360.0<br>80.0  | 1,704.6            | 119.43<br>119.71 | 120.0<br>80.0  | 65.3<br>43.6 | L118<br>0.769  | 63.9<br>43.0 | 0.920          | 176.5          | 4,236<br>922            |
| 21<br>22<br>23 | 119.00                   | 349.4<br>339.5 | -0.04            | 1.7<br>1.7  | 347,7<br>337.8 | -102.2<br>-59.8  | 245.5          | 119.57<br>119.71 | 1 714 8            | 98.7<br>39.0       | 0.0           | 245.5<br>278.0 | 1,733.6<br>1,738.8 | 119.83<br>119.90 | 81.8<br>92.7   | 44.7<br>50.8 | 0.783          | 44.1<br>50.0 | 0.898<br>0.918 | 118.8<br>137.5 | 2,851<br>3,300          |
| 23<br>24<br>25 | 119.90                   | 525.2<br>611.9 | 0.00             | 1.7         | 523.5<br>610.2 | -68.4<br>-51.4   |                | 119.85<br>119.99 | 1,735.4            | 83.6<br>129.8      | 83.6<br>129.8 | 360.0<br>360.0 | 1,745.7            | 119.99<br>120.13 | 120.0<br>120.0 | 65.8<br>65.9 | 1.127<br>1.129 | 64.5<br>64.6 | 0.918          | 177.5          | 4,260<br>4,270          |
| 26             | 120.05                   | 552.5          | 0.01             | 1.7         | 550.8<br>511.2 | 0.0<br>60.3      | 360.0<br>360.0 | 120.13<br>120.27 | 1,756.1            | 70.4<br>29.7       | 70.4<br>29.7  | 360.0          | 1,766.5            | 120.27<br>120.41 | 120.0<br>120.0 | 66.1<br>66.3 | 1,133          | 64.8<br>64.9 | 0.917          | 178.2<br>178.6 | 4,277<br>4,286          |
| 27<br>28       | 120.13<br>120.20         | 512.9<br>396.5 | 0.21             | 1.7         | 394.8          | 112.3            | 360.0          | 120.41           | 1,777.0            | -85.6<br>-224.4    | 0.0           | 360.0          | 1,780.0            | 120.45           | 120.0          | 66.4<br>66.4 | 1.139          | 65.0<br>65.0 | 0.917          | 178,9          | 4,294                   |
| 29<br>30       | 120.28<br>120.35         | 345.6<br>876.8 | 0.17             | 17          | 343.9<br>875.1 | 86.5<br>0.0      | 360.0<br>360.0 | 120.55<br>120.69 | 1,787,4            | 169.0              | 169.0         | 360.0          | 1,808.5            | 120.43<br>120.83 | 120.0          | 66.6         | 1.143          | 65.3<br>65.4 | 0.916          | 179.3          | 4,303<br>4,318          |
| 31             | 120.43                   | 309.7<br>318.2 | 0.40             | 1.7<br>1.6  | 308.0          | 287.1            | 360.0          | 120.83           | 1,808.5            | -174.7             | 0.0<br>16.7   | 360.0<br>227.2 | 1,804.0            | 120.77           | 120,0          | 66.8         | 1,147          | 0.9.4        | 0,711          |                | 81,575                  |
|                |                          |                |                  |             |                |                  |                |                  |                    |                    |               |                |                    |                  |                |              |                |              |                |                |                         |

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#### Table 7.2.8 (2/4)Çatalan Dam Daily Reservoir Operation<br/>(With System, Flow in 1975)

|          |                       |                    |              |             |                  |                  | Inf.i+         | ÷                |                    |                   |                  |                |                    |                  |                |               | +              |                |                |                        |                |
|----------|-----------------------|--------------------|--------------|-------------|------------------|------------------|----------------|------------------|--------------------|-------------------|------------------|----------------|--------------------|------------------|----------------|---------------|----------------|----------------|----------------|------------------------|----------------|
|          | Rule                  |                    | /1-8C        |             | inf              | Recv.            | Qt+            | PSHL             | FSHL               | Qsp               | Spill            |                | Rsv.Vol            | RWI.             |                | Power         |                | Power          | . n            |                        | P              |
| Apr. 1   | At beg.<br>988 (ling. | Inflow             |              | Livp.       | Evp              | RC               | RC             |                  | Vol.               | FSHL              |                  | 115            | · · · · · ·        | At end           | <u>Q</u>       |               | 220.]          |                | iata P         | ower                   | Energy         |
| 1        | 120.50                | 322.1              | 0.27         | 2.3         | 319.8            | 78.4             | 360.0          | 120.97           | 1,819.1            | -328.4            | 0.0              | 360.0          | 1,800.5            | 120.72           | 120.0          | 66.7          | 1.145          | 65,4           | 0.916          | 179.7                  | 4,313          |
| 2        | 120.68                | 379.1              | 0.04         | 2.3         | 376.8            | -43.6            | 333.2          | 121.10           | 1,828.9            | -408.9            | 0.0              | 333.2          | 1,804.3            | 120.77           | nu             | 61.8          | 1.053          | 60.6           | 0.925          | 168.2                  | 4,037          |
| 3        | 120.77<br>120.86      | 433.6<br>437.3     | 0.00<br>0.00 | 2.3<br>2.3  | 431.3<br>435.0   | -78.6<br>-78.7   | 352.7<br>356.3 | 121.24<br>121.38 | 1,839.6<br>1,850.3 | -453.8<br>-498.8  | 0.0<br>0.0       | 352.7<br>356.3 | 1,811,1<br>1,817,9 | 120.86<br>120.95 | 117.6<br>118.8 | 65,5<br>66.3  | 1.122          | 64.2<br>64.9   | 0.919<br>0.917 | 176.9<br>178.6         | 4,246<br>4,286 |
| 5        | 120.95                | 363.1              | 0.00         | 2.3         | 360.8            | -78.9            | 281.9          | 121.52           | 1,861.0            | -543.8            | 0.0              | 281.9          | \$24.7             | 121.04           | 94.0           | 52.5          | 0.896          | 51.7           | 0.921          | 142.7                  | 3,425          |
| 6        | 121.04                | 407.6              | 0.00         | 2.3         | 405.3            | -79.1            | 326.2          | 121.66           | 1,871.7            | 589.9             | 0.0              | 326.2          | 1,831.5            | 121.13           | 108.7          | 60.8          | 1.035          | 59.7           | 0.926          | 165.9                  | 3,982          |
| 7<br>8   | 121.13<br>121.22      | 392.7<br>385.2     | 0.00<br>0.00 | 2.3<br>2.3  | 390.4<br>382.9   | -79.2<br>-79.4   | 311.2<br>303.5 | 121.80<br>121.94 | 1,882.5<br>1,893.4 | -637.2<br>-683.3  | 0.0<br>0.0       | 311.2<br>303.5 | 1,838.3<br>1,845.2 | 121.22<br>121.31 | 103.7<br>101.2 | 58.1<br>56.8  | 0.968<br>0.966 | 57.1<br>55.8   | 0.927<br>0.926 | 158.8<br>155.1         | 3,811<br>3,722 |
| 9        | 121.31                | 371.6              | 0.00         | 2.3         | 369.3            | -79.6            | 289.7          | 122.08           | 1,904.2            | -729.4            | 0.0              | 289.7          | 1,852.1            | 121.40           | 96.6           | 54.3          | 0.925          | 53.4           | 0.924          | 148.0                  | 3,552          |
| 10       | 121.40                | 360.5              | 0.00         | 2.4         | 358.1            | -79.7            | 278.4          | 122.22           | 1,915.1            | -775.6            | 0.0              | 278.4          | 1,859.0            | 121.49           | 92.8           | 52.2          | 0.892          | 51.4           | 0.921          | 142.1                  | 3,410          |
| 11       | 121.49<br>121.58      | 353.0<br>329.6     | 0.00<br>0.00 | 2.4<br>2.4  | 350.6<br>327.2   | -79.9<br>-80.1   | 270.7<br>247.1 | 122.36           | 1,926.0            | -822.9<br>-860.9  | - 0.0<br>0.0     | 270.7<br>247.1 | 1,865.9<br>1,872.8 | 121.58<br>121.67 | 90.2<br>82.4   | 50.9<br>46.5  | 0.872<br>0.808 | 50.1<br>45.9   | 0.918<br>0.905 | 138.0<br>124.5         | 3,312<br>2,988 |
| 12<br>13 | 121.58                | 329.6              | 0.00         | 2.4         | 327.2            | -80.2            | 247.0          | 122.63           | 1,947.2            | +908.2            | 0.0              | 247.0          | 1,879.7            | 121.76           | 823            | 46.5          | 0.808          | 45.9           | 0.905          | 124,7                  | 2,993          |
| 14       | 121.76                | 322.1              | 0.00         | 2.4         | 319.7            | -80.4            | 239.3          | 122.77           | 1,958.2            | -956.6            | 0.0              | 239.3          | 1,886.6            | 121.85           | 79.8           | 45.2          | 0.790          | 44.6           | 0.969          | 120.3                  | 2,887          |
| 15       | 121.85                | 306.0              | 0.00         | 2.4<br>2.4  | 303.6<br>280.1   | -89.5<br>-80.8   | 214.1          | 122.91<br>123.05 | 1,969.3<br>1,980.4 | -996.1<br>-1044.2 | 0.0<br>0.0       | 214.1<br>199.3 | 1,894.3<br>1,901.3 | 121.95<br>122.04 | 71.4<br>66.4   | 40.5<br>37.7  | 0.730<br>0.696 | 40.0<br>37.3   | 0.877<br>0.860 | 105.2<br>96.2          | 2,525          |
| 16<br>17 | 121.95<br>122.04      | 282.5<br>848.9     | 0.00         | 2.4         | 846.5            | -30.8            | 360.0          | 123.19           | 1,991.5            | -6\$7.1           | 0.0              | 360.0          | 1,943.3            | 122.58           | 120.0          | 68.6          | 1.182          | 67.2           | 0.911          | 183.6                  | 4,496          |
| 18       | 122.13                | 841.1              | 0.45         | 2.4         | 838.7            | 326.0            | 360.0          | 123.33           | 2,002.7            | -338.4            | 0.0              | 360.0          | 1,984.7            | 123.10           | 120.0          | 69.2          | 1.194          | 67.8           | 0.909          | 184.9                  | 4,438          |
| 19       | 122.22                | 1087.6             | 0.88         | 2.4         | 1085.2           | 720.4            | 360.0          | 123.47           | 2,013.9            | 257.6             | 257.6            | 360.0          | 2,025.1            | 123.61           | 120.0          | 69.8<br>70.2  | 1.206          | 68.4<br>68.8   | 0.905<br>0.905 | 185.9<br>186.7         | 4,462<br>4,481 |
| 20<br>21 | 122.31<br>122.40      | 695.1<br>754.4     | 1.30<br>1.35 | 2.4<br>2.4  | 692.7<br>752.0   | 1110.8<br>1159.7 | 360.0<br>360.0 | 123.61           | 2,025.1 2,036.4    | 201.9             | 201.9<br>261.2   | 360.0<br>360.0 | 2,036.4<br>2,047.7 | 123.75<br>123.89 | 120.0<br>120.0 | 70.2          | 1.217          | 68.9           | 0.904          | 186.9                  | 4,486          |
| 22       | 122.49                | 725.9              | 1.40         | 2.4         | 723.5            | 1208.8           | 360.0          | 123.89           | 2,047.7            | 231.6             | 231.6            | 360.0          | 2,059.1            | 124.03           | 120.0          | 70.5          | 1.221          | 69.1           | 0.904          | 187.3                  | 4,495          |
| 23       | 122.58                | 645.3              | 1.45         | 2.4         | 612.9            | 1258.1           | 360.0          | 124.03           | 2,059.1            | 152.1             | 152.1            | 360.0          | 2,070.4            | 124,17           | 120.0          | 70.7          | 1.225          | 69.2           | 0.903<br>0.903 | 187.6<br>188.0         | 4 502          |
| 24<br>25 | 122.67                | 473.4<br>478.1     | 1.50         | 2.4<br>2.4  | 471.0<br>475.7   | 1307.7<br>1338.6 | 360.0<br>360.0 | 124.17<br>124.30 | 2,070.4            | -11.7<br>-29.0    | 0.0<br>0.0       | 360.0<br>360.0 | 2,050.0<br>2,090.0 | 124.29<br>124.41 | 120.0<br>120.0 | 71.0          | 1.227<br>1.231 | 69.4<br>69.5   | 0.902          | 188.1                  | 4,512<br>4,514 |
| 26       | 122.85                | 681.4              | 1.56         | 2.4         | 679.0            | 1369.7           | 360.0          | 124.44           | 2,092.5            | 158.1             | 158.1            | 360.0          | 2,103.9            | 124.58           | 120.0          | 71.1          | 1.233          | 69.7           | 0.901          | 188.4                  | 4,522          |
| 27       | 122.94                | 844.9              | 1.64         | 2.4         | 842.5            | 1448.4           | 360.0          | 124.58           | 2,103.9            | 348.2             | 348.2            | 360.0          | 2,115.5            | 124.72           | 120.0          | 71.3          | 1.237          | 69.9           | 0.9%)          | 188.6                  | 4,526          |
| 28<br>29 | 123,03<br>123,12      | 883.3<br>1727.5    | 1.69         | 2.5<br>2.5  | 880.8<br>1725.0  | 1498.9<br>1549.6 | 360.0<br>360.0 | 124.72<br>124.86 | 2,115.5            | 387.7<br>1230.7   | 387.7<br>1,230.7 | 360.0<br>360.0 | 2,127.0<br>2,138.6 | 124.86<br>125.00 | 120.0<br>120.0 | 71.5<br>71.7  | 1.241          | 70.0<br>70.2   | 0.900<br>0.899 | 189.1<br>189.3         | 4,538<br>4,543 |
| 30       | 123.12                |                    | 1.79         | 2.5         | 1669.9           | 1600.6           | 360.0          | 125.00           | 2,138.6            | 1309.9            |                  | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5                  | 4,548          |
|          |                       | 604.5              |              | 2.4         |                  |                  | -              |                  |                    | •                 | 151.3            | 321.7          |                    |                  |                |               |                |                |                |                        | 118,771        |
| Mare     | 988(Inig              | -11.7              |              |             |                  |                  |                | -                |                    |                   |                  |                |                    |                  |                |               |                |                |                |                        |                |
| 1<br>1   | 123.30                |                    | 1.70         | 3.6         | 1108.8           | 1498.8           | 360.0          | 125,00           | 2,138.6            | 748.8             | 748.8            | 360.0          | 2,135.6            | 125.00           | 120.0          | 71.7          | 1,245          | 70.3           | 0.899          | 189.5                  | 4,548          |
| 2        | 123.41                | 314.3              | 1.59         | 3.6         | 310.7            | 1452.4           | 360.0          | 125.00           | 2,138.5            | 49.3              | 0.0              | 360.0          | 2,134.3            | 124.95           | 120.0          | 71.7          | 1.245          | 70.2           | 0.899          | 189.4                  | 4 545          |
| 3<br>4   | 123.46                | 796.6<br>837.4     | 1.49<br>1.49 | 3.6<br>3.6  | 793.0<br>833.8   | 1358.1<br>1350.3 | 360.0<br>360.0 | 125.00           | 2,138.6<br>2,138.6 | 383.2<br>473.8    | 383.2<br>473.8   | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7  | 1.245          | 70.2<br>70.3   | 0.899<br>0.899 | 189.4<br>189.5         | 4,546<br>4,548 |
| ŝ        | 123.57                | 699.9              | 1.43         | 3.6         | 696.3            | 1303.8           | 360.0          | 125.00           | 2,138.6            | 336.3             | 336.3            | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5                  | 4,548          |
| 6        | 123.62                | 656.6              | 1.38         | 3.6         | 653.0            | 1257.2           | 360.0          | 125.00           | 2,138.6            | 293.0             | 293.0            | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5                  | 4,548          |
| 7.       | 123.67                | 603.2              | 1.33         | 3.7<br>-3.7 | 599.5<br>538.9   | 1201.3           | 360.0<br>360.0 | 125.00           | 2,138.6            | 239.5<br>178.9    | 239.5<br>178.9   | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7  | 1.245<br>1.245 | 70.3<br>70.3   | 0.899<br>0.899 | 189.5<br>189.5         | 4,548<br>4,548 |
| 8<br>9   | 123.73<br>123.78      | 542.6<br>. 490.5 . | 1.27         | 3.7         | 486.8            | 1154.6<br>1107.9 | 360.0          | 125.00           | 2,138.6            | 126.8             | 126.8            | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5                  | 4,548          |
| 19       | 123.83                | 450.8              | 1.17         | 3.7         | 457.1            | 1061.1           | 360.0          | 125.00           | 2,138.5            | 97.1              | 97.1             | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5                  | 4 548          |
| 11       | 123.88                | 449.7              | 1.12         | 3.7         | 446.0            | 1004.9           | 360.0          | 125.00           | 2,138.6            | 86.0              | . 86.0           | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7<br>71.7  | 1.245          | 70,3<br>70,3 - | 0.899<br>0.899 | 189.5<br>189.5         | 4,548<br>4,548 |
| 12<br>13 | 123.94<br>123.99      | 436.1<br>365.5     | 1.06         | 3.7<br>3.7  | 432.4<br>361.8   | 958.1<br>911.1   | 360,0<br>360,0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 72.4<br>1.8       | 72.4             | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7          | 1.245<br>1.245 | 70.3           | 0.899          | 189.5                  | 4,548          |
| 14       | 124.04                | 396.5              | 0.96         | 3.7         | 392.8            | 854.7            | 360.0          | 125.00           | 2,138.6            | 32.8              | 32.8             | 360.0          | 2 138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5                  | 4,548          |
| 15       | 124.10                | 447.9              | 0.90         | 3.7         | 444.2            | 807.7            | 360.0          | 125.00           | 2,138.6            | 84.2              | 84.2             | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5<br>189.5         | 4,548          |
| 16       | 124.15                | 614.4.<br>520.3    | 0.85<br>0.80 | 3.7<br>3.7  | 610.7<br>516.6   | 760.6<br>704.0   | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 250.7             | 250.7<br>156.6   | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7          | 1.245<br>1.245 | 70.3<br>70.3   | 0.899<br>0.899 | 189.5                  | 4,548<br>4,548 |
| 18       | 124.26                | 479.4              | 0.74         | 3.7         | 475.7            | 656.8            | 360.0          | 125.00           | 2,138.6            | 115.7             | 115.7            | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5                  | 4,548          |
| 19       | 124.31                | 445.4              | 0.69         | 3.7         | 441.7            | 609.5            | 360.0          | 125.00           | 2,138.6            | 81.7              | \$1.7            | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7          | 1.245          | 70.3           | 0.899          | 189.5                  | 4,548          |
| 20<br>21 | 124.36<br>124.42      | 365.5<br>285.2     | 0.64         | 3.7<br>3.7  | 361.8<br>281.5   | 552.7<br>505.4   | 360.0<br>360.0 | 125.00           | 2,138.6<br>2,138.6 | 1.8               | 1.8<br>0.0       | 360.0<br>360.0 | 2,138.6<br>2,131.8 | 125.00<br>124.92 | 120.0<br>120.0 | 71.7          | 1.245<br>1.245 | 70.3<br>70.2   | 0.899<br>0.899 | 189.5<br>189.4         | 4 548<br>4 546 |
| 22       | 124.47                | 385.2              | 0.45         | 3.7         | 381.5            | 381.3            | 360.0          | 125.00           | 2,138.6            | -57.2             | 0.0              | 360.0          | 2,133.7            | 124.94           | 120.0          | 71.7          | 1.245          | 70.2           | 0.899          | 189.3                  | 4,543          |
| 23       | 124.52                | 371.6              | 0.42         | 3.7         | 367.9            | 343.4            | 360.0          | 125.00           | 2,138.6            | -48.8             | 0.0              | 360.0          | 2,134.4            | 124.95           | 120.0          | 71.7          | 1.245          | 70.2           | 0.899          | 189.3                  | 4,543          |
| 24<br>25 | 124.58<br>124.63      | 374.1<br>356.7     | 0.37<br>0.33 | 3,7<br>3.7  | 370.4<br>353.0   | 305.5<br>267.5   | 360.0<br>360.0 | 125.00           | 2,138.6            | -38.2<br>-45.2    | 0.0<br>0.0       | 360.0<br>360.0 | 2,135.3<br>2,134.7 | 124.96<br>124.95 | 120.0<br>120.0 | 71.7<br>71.7  | 1.245<br>1.245 | 70.2<br>70.2   | 0.899<br>0.899 | 189.4<br>189.4         | 4,546<br>4,546 |
| 26       | 124.68                | 341.9              | 0.27         | 3.7         | 338.2            | 210.2            | 360.0          | 125.00           | 2,138.6            | -66.9             | 0.0              | 360.0          | 2,132.8            | 124.93           | 120.0          | 71.7          | 1.245          | 70.2           | 0.899          | 189.3                  | 4,543          |
| 27       | 124.73                | 332.0              | 0.20         | 3.8         | 328.2            | 133.8            | 360.0          | 125.00           | 2,138.6            | 98.9              | 0.0              | 360.0          | 2,130.1            | 124.90           | 120.0          | 71.6          | 1.243          | 70.2           | 0.899          | 189.3                  | 4,543          |
| 28       | 124.79                | 324.6              | 0.11         | 3.8<br>3.8  | 320.8<br>313.3   | 57.4<br>-28.7    | 360.0<br>284.6 | 125.00<br>125.00 | 2,138.6            | -137.6<br>-109.0  | 0.0<br>0.0       | 360.0<br>284.6 | 2,126.7<br>2,129.2 | 124.86<br>124.89 | 120.0<br>94.9  | 71.6<br>56.6  | 1.243<br>0.962 | 70.1<br>55.7   | 0.900<br>0.926 | 189.4<br>154.7         | 4,546<br>3,713 |
| 23<br>30 | 124.84<br>124.89      | 317.1              | 0.02         | 3.8         | 303.4            | -57.4            | 246.0          | 125.00           | 2,138.6            | -51.4             | 0.0              | 246.0          | 2,134.2            | 124.95           | 82.0           | 49.0          | 0.843          | 48.3           | 0.913          | 132.2                  | 3,173          |
| 31       | 124.95                | 296.1              | 0.00         | 3.8         | 292.3            | -47.9            |                | 125.00           | 2,138.6            | -3.0              | 0.0              | 244.4          | 2,138.3            | 125.00           | 815            | 48.7          | 0.839          | 48.0           | 0.912          | 131.4                  | 3,154          |
|          |                       | 475.1              |              | 3.7         |                  |                  |                |                  |                    |                   | 121.3            | 350.2          |                    |                  |                |               |                |                |                |                        | 137,352        |
| Jun. 1   | 988 (irrg.=           | -36.9 m3/          | i) ·         |             |                  |                  |                |                  |                    |                   |                  |                |                    |                  |                |               |                |                |                |                        |                |
| 1        | 125.00                | 289.8              | 0.00         | 4,7         | 285.1            | 114.9            |                | 125.00           | 2,138.6            | -78.4             | 0.0              | 360.0          | 2,131.8            | 124.92           | 120.0          | 71.7          | 1.245          | 70.2           | 0.899          | 189.4                  | 4,546          |
| 2<br>3   | 124.88<br>124.82      | 275.0<br>268.8     | 0.04<br>0.00 | 4.7<br>4.7  | 270.3<br>264.1   | 95.6<br>57.3     | 360.0<br>321.4 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -168.4<br>-226.3  | 0.0<br>0.0       | 360.0<br>321.4 | 2,124.0<br>2,119.0 | 124.82<br>124.76 | 120.0<br>107.1 | 71.6<br>63.8  | 1.243<br>1.089 | 62.7           | 0.900          | 189.3<br>173.4         | 4,543<br>4,162 |
| 4        | 124.76                | 261.3              | 0.00         | 4.7         | 256.6            | 57.2             | 313.8          | 125.00           | 2,138.6            | -284.1            | 0.0              | 313.8          | 2,114.1            | 124.70           | 104.6          | 62.3          | 1,062          | 61.2           | 0.924          | 169.5                  | 4,068          |
| 5        | 124,70                | 261.3              | 0.00         | 4.7         | 256.6            | 57.1             | 313.7          | 125.00           | 2,138.6            | -340.7            | 0.0              | 313.7          | 2,109.2            | 124.64           | 104.6          | 62.2          | 1.060          | 61.1           | 0.924          | 169.3                  | 4,063          |
| 6 .<br>7 | 124.64                | 247.8              | 0.00<br>0.00 | 4.7         | 243.1            | 57.1<br>47.5     | 300.2<br>286.9 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -397.4<br>-444.5  | 0.0<br>0.0       | 300.2<br>286.9 | 2,104.3<br>2,100.2 | 124.58<br>124.53 | 100.I<br>95.6  | 59.5<br>56.7  | 1.012<br>0.964 | 58.5<br>55.8   | 0.926<br>0.926 | 162.4<br>155.1         | 3,898<br>3,722 |
| 8        | 124.58<br>124.53      | 244.1<br>234.2     | 0.00         | 4.7         | 229.5            | 56.9             |                | 125.00           | 2,138.6            | -501.3            | 0.0              | 286.4          | 2,095.3            | 124.47           | 95.5           | 56.6          | 0.962          | 55.7           | 0.926          | 154.7                  | 3,713          |
| 9        | 124.47                | 230.4              | 0.00         | 4.7         | 225.7            | 56.8             | 282.5          | 125.00           | 2,138.6            | -558.0            | 0.0              | 282.5          | 2,090.4            | 124.41           | 942            | 55.8          | 0.949          | 54.9           | 0.926          | 152.5                  | 3,660          |
| 10       | 124.41                | . 222.9            | 0.00         | 4.7         | 218.2            | 56.8             |                | 125.00           | 2,138.6            | -614.7            | : 0.0            | 275.0          | 2,085.5            | 124.35           | 91.7<br>67.4   | 54.3<br>39.8  | 0.925<br>0.721 | 53.4<br>39.4   | 0.924<br>0.873 | 148, <b>1</b><br>103.0 | 3,554<br>2,472 |
| 11<br>12 | 124.35<br>124.29      | 150.0<br>220.5     | 0.00<br>0.00 | 4.6<br>4.6  | 145.4<br>215.9   | 56.7<br>56.6     |                | 125.00<br>125.00 | 2,138.6            | -671.3<br>-727.9  | 0,0<br>0.0       | 202.1<br>272.5 | 2,080.6<br>2,075.7 | 124.29<br>124.23 | 90.8           | 53.6          | 0.913          | 52.8           | 0.923          | 146.3                  | 3,511          |
| 13       | 124.23                | 216.8              | 0.00         | 4.6         | 212.2            | 56.6             | 268.8          | 125.00           | 2,138.6            | -784.6            | 0.0              | 268.8          | 2,070.8            | 124.17           | 89.6           | 52.9          | 0.902          | 52.1           | 0.922          | 144.0                  | 3,456          |
| 14       | 124.17                | 213.0              | 0.00         | 4.6         | 208.4            | 56.5             | 264.9          | 125.00           | 2,138.6            | -841.2            | 0.0              | 264.9          | 2,065.9            | 124.11           | 883            | 52.0          | 0.888          | 51.3           | 0.921          | 141.7<br>145.7         | 3,401          |
| 15       | 124.11<br>124.05      | 220.5<br>213.0     | 0.00<br>0.00 | 4.6         | 215.9<br>208.4   | 56.4<br>56.3     | 272.3<br>264.7 | 125.00           | 2,138.6<br>2,138.6 | -897.8<br>954.4   | 0.0<br>0.0       | 272.3<br>264.7 | 2,061.0<br>2,056.1 | 124.05<br>123.99 | 90.8<br>88.2   | 53.5<br>51.9  | 0.912<br>0.887 | 52.7<br>51.1   | 0.923<br>0.920 | 143.7                  | 3,497<br>3,386 |
| 16       | 123.99                | 209.4              | 0.00         | 4.6         | 204.8            | 56.3             |                | 125.00           | 2,138.6            | -1011.2           | 0.0              | 261.1          | 2,051.2            | 123.93           | 87.0           | 51.1          | 0.875          | 50.4           | 0.919          | 138.9                  | 3,334          |
| 18       | 123.93                | 216.8              | 0.00         | 4.6         | 212.2            | 56.2             | 268.4          | 125.00           | 2,138.6            |                   | 0.0              | 268.4          | 2,046.3            | 123.87           | 89.5<br>84.0   | 52.5          | 0.896<br>0.855 | 51.8<br>49.1   | 0.922          | 143.1<br>134.7         | 3,434<br>3,233 |
| 19<br>20 | 123.87<br>123.81      | 203.1              | 0.00<br>0.00 | 4.6<br>4.6  | 198.5<br>133.0   | 56.1<br>56.0     | 254.6<br>189.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                   | 0.0<br>0.0       | 254.6<br>189.0 | 2,041.5<br>2,036.7 | 123.81<br>123.75 | 84.9<br>94.5   | 49.8<br>55.4  | 0.855          | 47.1<br>54.5   | 0.915<br>0.925 | 134.7                  | 3,233          |
| 21       | 123.75                | 182.8              | 0.00         | 4.6         | 178.2            | 56.0             | 234.2          | 125.00           | 2,138.6            | -1235.4           | 0.0              | 234.2          | 2,031.9            | 123.69           | 78.1           | 45.7          | 0,797          | 45.1           | 0.902          | 122.0                  | 2,928          |
| 22       | 123.69                | 179.6              | 0.00         | 4.6         | 175.0            | 55.9             | 230.9          | 125.00           | 2,138.6            |                   | 0.0              | 230.9          | 2,027.1            | 123.63           | 77.0           | 45.0          | 0.787          | 44.4           | 0.899          | 119.8                  | 2,875          |
| 23<br>24 | 123.63<br>123.58      | 175.9<br>183.4     | 0.00<br>0.00 | 4.6<br>4.6  | 171.3<br>178.8   | 46.5<br>55.8     |                | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                   | 0.0<br>0.0       | 217.8          | 2,023.1<br>2,018.3 | 123.58           | 72.6<br>78.2   | .42.4<br>45.6 | 0.753          | 41.9<br>45.0   | 0.887<br>0.901 | 111.4<br>121.7         | 2,921          |
| 25       | 123.52                | 209.4              | 0.00         | 4,6         | 204.8            | 55.7             | 260.5          | 125.60           | 2,138.6            | -1448.1           | 0.0              | 260,5          | 2,013.5            | 123.47           | 86.8           | 50.6          | 0.867          | 49.9           | 0.918          | 137.4                  | 3,298          |
| 26       | 123.46                | 203.1              | 0.01         | 45          | 198.6            | 64,9             | 263.5          | 125.00           | 2,138.6            |                   | 0.0              | 263.5          | 2,007.9            | 123.40           | 87.8           | 51.1          | 0.875          | 50.4           | 0.919          | 139.0                  | 3,336          |
| 27       | 123.40<br>123.34      | 197.0<br>197.0     | 0.00         | 4.5         | 192.5<br>. 192.5 | 55.5<br>55.5     | 248.0<br>248.0 | 125,00<br>125.00 | 2,138.6<br>2,138.6 |                   | 0.0<br>0.0       | 248.0<br>248.0 | 2,003.1<br>1,998.3 | 123.34<br>123.27 | 82.7<br>82.7   | 48.1<br>48.1  | 0,830<br>0,830 | 47.4<br>47.4   | 0.910<br>0.910 | 129.5<br>129.3         | 3,108<br>3,103 |
| 28<br>29 | 123.28                | 182.8              | -0.01        | 4.5         | 178.3            | 46.1             | 224.4          | 125.00           | 2,138.6            | -1669.9           | 0.0              | 224.4          | 1,994.3            | 123.22           | 74,8           | 43.4          | 0.766          | 42.9           | 0.892          | 114.7                  | 2,753          |
| 30       | 123.22                | 173.4              | 0.00         | 4.5         | 168.9            | 110.5            |                | 125.00           | 2,138.6            |                   | 0.0              | 279.4          | 1,984.8            | 123.11           | 93.1           | 54,0          | 0.920          | - 53.1         | 0.924          | 147.4                  | 3,538          |
|          |                       | 214.0              |              | 4.6         |                  |                  |                |                  |                    |                   | 0.0              | 268.7          | •                  |                  |                |               |                |                |                |                        | 102,606        |
|          |                       |                    |              |             |                  |                  |                |                  |                    |                   |                  |                |                    |                  |                |               |                |                |                |                        |                |

#### Table 7.2.8 (3/4)Çatalan Dam Daily Reservoir Operation<br/>(With System, Flow in 1975)

|        | R                             |                  | WL-RC                 |                    | luf<br>Evp.             | Recv.                | Inf.1+<br>Qt+<br>RC     | ÞSHL.                      | FSHL<br>Vol,                  | Qsp<br>FS111.      | Spill             | 115                     | Rsv.Vol                       | RWL.<br>Aiend              | Q                    | Power                | Loss                    | Power                | lista                   | Power                | Energy                  |          |
|--------|-------------------------------|------------------|-----------------------|--------------------|-------------------------|----------------------|-------------------------|----------------------------|-------------------------------|--------------------|-------------------|-------------------------|-------------------------------|----------------------------|----------------------|----------------------|-------------------------|----------------------|-------------------------|----------------------|-------------------------|----------|
| 1      | ຟ. 1988 (ໂກ<br>ເ 123.         | 0 169.7          | 3/s)<br>0.01          | <u>Бур.</u><br>5.1 | 164.6                   | 36.8                 | 201.4                   | 125.00                     | 2,138.6                       | -1816.9            | 0.0<br>0.0        | 201.4                   | 1,981.6                       | 123.07<br>123.05           | 67,1<br>90,3         | 38.9<br>52.3         | 0.710                   | 38.4<br>51.5         | 0.867                   | 99.9<br>94.8         | 2,398<br>2,275          |          |
| 1      |                               | 5 163.5          | 0.00<br>0.00<br>-0.01 | 5.1<br>5.1<br>5.1  | 162.2<br>158.4<br>152.3 | 18.4<br>9.2<br>9.2   | 180.6<br>167.6<br>161.5 | 125.00<br>125.00<br>125.00 | 2,138.6                       | 1844,8             | 0.0<br>0.0        | 167.6                   | 1,979.2<br>1,978.4            | 123.03<br>123.02           | 83.8<br>80.8         | 48.5<br>46.7         | 0.836                   | 47.8<br>46.1         | 0.912<br>0.906          | 87.2<br>83.5         | 2,093<br>2,004          |          |
| 2      | 5 123.                        | 2 153.6          | 0.00                  | 5.1                | 148.5                   | 9.2<br>18.4          | 157.7                   | 125.00<br>125.00           | 2,138.6                       | -1863.4            | 0.0<br>0.0        | 157.7<br>160.7          | 1 977.6<br>1 976.0            | 123.01<br>122.99           | 78,9<br>80,4         | 45.6<br>46.5         | 0.795<br>0.808          | 45.0<br>45.9         | 0.901<br>0.905          | 81.1<br>82.9         | 1,946<br>1,920          |          |
| 1      | 122.                          | 9 144.8          | 0.00                  | 5.1<br>5.1         | 139.7<br>136.1          | 9.2<br>18.3          | 148.9                   | 125.00<br>125.00           | 2,138.6                       | -1891.1            | 0.0<br>0.0        | 148.9<br>154.4          | 1 975.2<br>1 973.6            | 122.98<br>122.96           | 74,5<br>77,2         | 43.1<br>44.6         | 0.762<br>0.782          | 42.5<br>44.0         | 0.890<br>0.897          | 75,6<br>79,0         | 1,814<br>1,896          |          |
| ġ      |                               | 5 138.8          | 0.00                  | 5.1<br>5.1         | 133.7<br>131.5          | 18.3<br>9.2          | 152.0<br>140.7          | 125.00<br>125.00           | 2,138.6                       |                    | 0.0<br>0.0        | 152.0<br>140.7          | 1,972.0<br>1,971.2            | 122.94<br>122.93           | 76.0<br>70,4         | 43.9<br>40.7         | 0.773<br>0.732          | 43.3<br>40.2         | 0.894<br>0.878          | 77.5<br>70.5         | 1,860<br>1,692          |          |
| 1      | 1 122.                        | 136.6            | 0.00                  | 5.1<br>5.1         | 131.5<br>128.7          | 18.3<br>9.2          | 149,8<br>137.9          | 125.00<br>125.00           | 2,138.6<br>2,138.6            | +1965.2            | 0.0               | 149.8<br>137.9          | 1,969.6<br>1,968.8            | 122.91<br>122.90           | 74.9<br>69.0         | 43.2<br>39.8         | 0.764                   | 42.7<br>39.3         | 0.891                   | 76.1<br>65.5         | 1,826<br>1,646          |          |
| 1      | 3 122.<br>4 122.              |                  | 0.00                  | 5.1<br>5.0         | 125.0<br>122.5          | 18.3<br>9.2          | 131.7                   | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -1993.0            | 0.0<br>0.0        | 143.3<br>131.7          | 1,967.2                       | 122.88<br>122.87           | 71.7<br>65.9         | 41.4<br>38.0         | 0.741                   | 40.9<br>37.6         | 0.882                   | 72.0<br>64.7         | 1,728                   |          |
|        | 5 122.<br>6 122.              |                  | 0.00<br>0.00          | 5.0<br>5.0         | 120.1<br>116.8          | 18.3<br>18.3         | 138.4<br>135.1          | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -2029.9            | 0.0<br>U.0        | 138.4<br>135.1          | 1,964.8                       | 122.85<br>122.83           | 69.2<br>67.6         | 39.9<br>39.0         | 0.722                   | 39.4<br>38.5         | 0.873                   | 68.8<br>66.8         | 1,651                   |          |
|        | 7 122.<br>8 122.              | 2 118.9          | 0.00                  | 5.0<br>5.0         | 113.9<br>113.9          | 9.1<br>18.3          |                         | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -2057,7            | 0.0<br>0.0        | 123.0                   | 1,962.4                       | 122.82                     | 61.5<br>66.1         | 35.5<br>38.1         | 0.672                   | 35.0<br>37.6<br>35.0 | 0.844                   | 59.2<br>64.9<br>59.1 | 1,421                   |          |
| 2      | 9 122<br>0 122                | 9 121.8          | 0.00                  | 5.0<br>5.0         | 113.9<br>116.8          | 9.1<br>18.3          | 135.1                   | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -2085.4            | 0.0<br>0.0        | 123,0<br>135.1          | 1,960.0                       | 122.79                     | 61.5<br>67.6         | 35.4<br>38.9         | 0.671<br>0.710<br>0.707 | 38.5<br>38.2         | 0.844<br>0.868<br>0.866 | 66.7<br>66.1         | 1,418<br>1,601<br>1,586 |          |
| 1      | 21 122.<br>22 122.            | 6 127.5          | 0.00                  | 5.0                | 125.1                   | 9.1<br>18.3          | 140.8                   | 125.00                     | 2,138.6<br>2,138.6<br>2,138.6 | -2113.2            | 0.0<br>0.0<br>0.0 | 134.2<br>140.8<br>129.2 | 1,957.6<br>1,956.0<br>1,955.2 | 122.76<br>122.74<br>122.73 | 67.1<br>70,4<br>64.6 | 38.6<br>49.5<br>37.2 | 0.730                   | 40.0                 | 0.877                   | 70.2<br>62.9         | 1,685                   |          |
| 2      | 3 122.<br>4 122.              | 3 121.8          | 0.00                  | 5.0<br>5.0         | 120.1<br>116.8<br>113.9 | 9.1<br>18.2<br>18.2  | 135.0                   | 125.00<br>125.00<br>125.00 | 2,138.6                       | -2140.9            | : 0.0<br>0.0      | 135.0                   | 1,953.6                       | 122.71                     | 67.5<br>66.1         | 38.8<br>38.0         | 0.709                   | 38.4<br>37.6         | 0.867                   | 66.5<br>64.7         | 1,596<br>1,553          | •        |
| 2      | 5 122.<br>6 122.<br>7 122.    | 9 118.9          | 0.00<br>0.00<br>0.00  | 5.0<br>5.0<br>5.0  | 113.9<br>113.9          | 9.1<br>18.2          | 123.0                   | 125.00                     | 2,138.6                       | -2168.8            | 0.0<br>0.0        | 123.0<br>132.1          | 1,951.2<br>1,949.6            | 122.68<br>122.66           | 61.5<br>66.1         | 35.4<br>38.0         | 0.671                   | 35.0<br>37.6         | 0.844                   | 59.0<br>64.7         | 1.416<br>1.553          | ÷.,      |
| 2      | 7 122.<br>8 122.<br>9 122.    | 6 . 116.9        | 0.00.                 | 5.0<br>5.0         | 111.9                   | 9,1<br>18.2          | 121.0<br>130.1          | 125.00<br>125.00           | 2,138.6                       | -2196.6            | 0.0               | 121.0<br>130.1          | 1,948,8<br>1,947,2            | 122.65                     | 60.5<br>65.1         | 34.8<br>37.4         | 0.664<br>0.693          | 34.4<br>37.0         | 0.840<br>0.858          | 57.8<br>63.4         | 1,387<br>1,522          |          |
| 3      | 0 122.                        | 3 114.8          | 0.00                  | 5.0<br>5.0         | 109.8<br>113.9          | 9.1<br>18.2          | 118.9                   | 125.00<br>125.00           | 2,138.6                       | -2224.4            | 0.0<br>0.0        | 118.9<br>132.1          | 1 946.4<br>1 944.8            | 122.62<br>122.60           | 59.5<br>66.1         | 34.2<br>38,0         | 0.658<br>0.700          | 33.8<br>37.5         | 0.835<br>0.861          | 56.4<br>64.5         | 1,354<br>1,543          |          |
| -      |                               | 132.3            |                       | 5.0                |                         |                      |                         |                            |                               | •                  | 0.0               | 142.0                   |                               |                            |                      |                      |                         |                      |                         |                      | 52,683                  |          |
| 1      |                               | 0 133.8          | 0.00                  | 4.6                | 129.2                   | 18.2                 |                         | 125.00                     | 2,138.6                       |                    | 0.0               | 147.4                   | 1,943.2                       | 122.58                     | 73.7<br>69.4         | 42.3<br>39.8         | 0.752                   | 41.8<br>39.3         | 0.887<br>0.873          | 74.1<br>68.6         | 1,778<br>1,646          |          |
| 3      | 122.                          | 6 130.1          | 00.0<br>03.0          | 4.6<br>4.6         | 120.5                   | 18.2<br>9.1          | 134.6                   | 125.00                     | 2,138.6<br>2,138.6<br>2,138.6 | -2289.2            | 0.0<br>0.0<br>0.0 | 138.7<br>134.6<br>123.4 | 1,941.6<br>1,940.8<br>1,940.0 | 122.56<br>122.55<br>122.54 | 67.3                 | 38.6<br>35.4         | 0.707                   | 38.2<br>35.0         | 0.866<br>0.844          | 66.1<br>59.1         | 1,586<br>1,418          |          |
| · •    | 122.                          | 4 118.9          | 0.00                  | 4.6                | 114.3<br>114.3<br>110.2 | 9.1<br>9.1<br>18.2   | 123.4<br>123.4<br>128.4 | 125.00<br>125.00<br>125.00 | 2,138.6                       | -2307,7            | 0.0               | 123.4                   | 1,939.2                       | 122.53                     | 61.7<br>64.2         | 35.4<br>36.8         | 0.671                   | 35.0<br>36.4         | 0,844<br>0.854          | 59.1                 | 1 418<br>1 490          |          |
|        | 122.                          | 1 112.6          |                       | 4.6<br>4.6<br>4.6  | 108.0<br>105.9          | 9.1<br>9.1           | 117.1                   | 125.00                     | 2,138.6                       | -2335.5            | 0.0               | 117.1                   | 1 936.8<br>1 936.0            | 122.50                     | 58.6°<br>57.5        | 33.6<br>33.0         | 0.652                   | 33.2<br>32.6         | 0.830                   | 55.1<br>53.8         | 1,322                   |          |
| 5      |                               | 9 110.5          | 0.00                  | 4.6                | 105.9<br>103.8          | 9.1<br>18.1          | 115.0<br>121.9          | 125.00                     | 2,138.6                       | -2354.0            | 0.0<br>0.0        | 115.0<br>121.9          | 1,935.2<br>1,933.6            | 122.48<br>122.46           | 57.5<br>61.0         | 33.0<br>35.0         | 0.646                   | 32.6<br>34.6         | 0.825                   | 53.8<br>58.1         | 1,291<br>1,394          |          |
| 1      | 1 122.<br>12 122.             | 108.4            | 0.00                  | 4.6<br>4.6         | 103.8                   | 9.1<br>.9.1          |                         | 125.00                     | 2,138.6                       | -2381.8            | 0.0<br>0.0        | 112.9<br>110.8          | 1.932.8<br>1.932.0            | 122.45<br>122.44           | 56.5<br>55.4         | 32.4<br>31.7         | 0.639<br>0.633          | 32.0<br>31.4         | 0.820<br>0.815          | 52.5<br>51.2         | 1,260<br>1,229          |          |
| 1      | 3 122.<br>14 122.             | 4 106.3          | 0.00                  | 4.6<br>4.6         | 101.7                   | 9.1<br>18.1          | 110.8<br>119.8          | 125.00                     | 2,138.6                       | -2400.3            | 0.0<br>0.0        | 110.8<br>119.8          | 1.931.2<br>1.929.6            | 122.43<br>122.41           | 55,4<br>59,9         | 31.7<br>34.3         | 0.633<br>0.659          | 31.4<br>33.9         | 0.815                   | 51.2<br>56.7         | 1 229<br>1 361          |          |
| 1      | 15 122.<br>16 122.            | 104.2            | 0.00                  | 4.6<br>4.6         | 99.6<br>96.9            | 9.1<br>9.1           | 108,7<br>106.0          | 125.00<br>125.00           | 2,138.6                       |                    | 0.0<br>0.0        | 108.7<br>106.0          | 1,928.8<br>1,928.0            | 122.40<br>122.39           | 54.4<br>53.0         | 31.1<br>30.3         | 0.627                   | 30.8<br>30.0         | 0.810                   | 49.9<br>45.2         | 1,198                   |          |
|        | 17 122.<br>18 122.            |                  | -0.01                 | 4.6<br>4.6         | 56.9<br>96.9            | 9.1<br>. 9.0.        | 106.0<br>105.9          | 125.00<br>125.00           | 2,138.6                       |                    | 0.0<br>0.0        | 106.0<br>105.9          | 1 927.2                       | 122.37<br>122.36           | 53.0<br>53.0         | 30.3<br>30.3         | 0.619                   | 30.0                 | 0.803                   | 48_2<br>48.1         | 1,157                   |          |
| . ;    | 19 122.<br>20 122.            | 5. 101.5         | 0.00                  | 4.6                | 96.9<br>96.9            | 9.0<br>9.0           |                         | 125.00                     |                               | -2474,3            | 0.0               | 105.9                   | 1,925.6<br>1,924.8            | 122.35                     | 53.0<br>53.0         | 30.3                 | 0.619<br>0.619<br>0.619 | 30.0<br>30.0<br>30.0 | 0.803<br>0.803<br>0.803 | 45.1<br>48.1<br>48.1 | 1,154<br>1,154<br>1,154 |          |
| :      | 21 122<br>22 122              | 3 101.5          | 0.00                  | 4.6<br>4.6         | 96.9<br>96.9            | 9.0<br>18.1          | 115.0                   | 125.00                     | 2,138.6<br>2,138.6<br>2,138.6 | -2501.9            | 0.0               | 105.9<br>115.0          | 1,924.0<br>1,922.4<br>1,921.6 | 122.33<br>122.31<br>122.30 | 53.0<br>57.5<br>52.3 | 30.3<br>32.9<br>29.9 | 0.645                   | 32.5<br>29.6         | 0.824                   | 53.6<br>47.2         | 1 286<br>1 133          |          |
| :      | 23  22.<br>24  22.            | 0 99.5           | 0.00                  | 4.6                | 95.5<br>95.3<br>93.2    | 9.0<br>9.0<br>9.0    | 104.5<br>104.3<br>102.2 | 125.00<br>125.00<br>125.00 | 2,138.6                       |                    | 0.0<br>0.0<br>0.0 | 104.5<br>104.3<br>102.2 | 1,920.8                       | 122.29                     | 52.2<br>51.1         | 29.8                 | 0.614                   | 29.5                 | 0,798<br>0,793          | 47.0<br>45.8         | 1 128<br>1 099          |          |
| 1      | 25 122.<br>26 122.<br>27 122. | 8 97.8           | 0.00                  | 4.6<br>4.6<br>4.5  | 93.2<br>93.2<br>93.2    | 18.1                 | 111.3                   | 125.00                     | 2,138.6                       | -2548.2            | 0.0               | 111.3                   | 1,918.4                       | 122.26                     | 55.7<br>51.1         | 31,8<br>29.2         | 0.634<br>0.609          | 31.5<br>28.9         | 0.816                   | 51.3<br>45.8         | 1,231<br>1,099          |          |
| 1      | 27 122.<br>28 122.<br>29 122. | 25 97.8          | 0.00                  | 4.6                | 93.2<br>93.2            | 9.0<br>9.0           | 102.2                   | 125.00                     | 2,138.6                       |                    | 0.0<br>0.0        | 102.2                   | 1 916.8<br>1 916.0            | 122.24                     | 51.1<br>51.1         | 29.2<br>29.2         | 0.609                   | 28.9<br>28.9         | 0.793<br>0.793          | 45.8<br>45.8         | 1.099                   |          |
| 3      | 40 122.<br>31 122.            | 13 97.7          | 0.00                  | 4.6                | 93.1<br>91.1            | 18.0<br>9.0          | in.                     | 125.00<br>125.00           | 2,138.6                       | -2594.4<br>-2603.9 | 0.0<br>0.0        |                         | 1,914.4                       | 122.21<br>122.20           | 55.6<br>50.1         | 31,7                 | 0.633                   | 31.4<br>28.3         | 0.815<br>0.787          | 51.1<br>44.5         | 1,226                   |          |
|        | <i>,</i> , 1 <i></i>          | 106.7            |                       | 4.6                | 7                       | 7.0                  | 100.1                   |                            | 2,15110                       |                    | 0.0               | 113.5                   |                               |                            |                      |                      |                         | Ŧ                    | ·                       |                      | 39,309                  |          |
| 1      |                               | 0 73.5           | 0.00                  | 3.6                | 69.9                    | 54.1                 |                         | 125.00                     | 2,138.6                       |                    | 0.0               | 124.0                   | 1,908.9                       | 122.14                     |                      | 35.3                 |                         | 34.9<br>54.3         | 0.843                   | 58.9<br>50.2         | 1.414<br>1.205          |          |
| 2      | 122.                          | 1 93.6           | 0.00                  |                    | 69.9<br>90.0            | 27.0<br>27.0         | 96.9<br>117.0           | 125.00<br>125.00           | 2,138.6                       | -2712.2            | 0.0<br>0.0        | 96.9<br>117.0           | 1,906.6                       | 122.11                     | 96.9<br>58.5<br>58.5 | 55.2<br>33.3<br>33.3 | 0.939<br>0.649<br>0.649 | 32.9                 | 0.828<br>0.828          | 54.5<br>54.5         | 1,308                   |          |
|        | 5 122.                        | 5 93.6           | 0.00                  | 3.6<br>3.6         | 90.0<br>93.0<br>90.0    | 27.0                 | 117.0<br>103.0<br>116.9 | 125.00<br>125.00<br>125.00 | 2,138.6<br>2,138.6<br>2,138.6 | -2756.4            | 0.0<br>0.0<br>0.0 | 117.0<br>108.0<br>116.9 | 1,902.0<br>1,900.4<br>1,898.1 | 122.05<br>122.03<br>122.00 | 54.0<br>58.5         | 30.7<br>33.3         | 0.623                   | 30.4<br>32.9         | 0.806<br>0.828          | 49.0<br>54.4         | 1 176                   |          |
|        | 122.                          | 95.7             | 0.00                  | 3.6<br>3.6<br>3.6  | 90.0<br>92.1<br>90.0    | 26.9<br>26.9<br>26.9 |                         | 125.00                     | 2,138.6                       | -2810.5            | 0.0               | 119.0                   | 1,895.8                       | 121.97                     | 59.5<br>58.5         | 33.8<br>33.2         | 0.654                   | 33.4<br>32.9         | 0.832<br>0.828          | 55.6<br>54.4         | 1 334<br>1 306          | - :<br>- |
| ş      |                               | 14 93.6          | 0.00                  | 3.6<br>3.6         | 90.0<br>90.0<br>90.0    | 26.9<br>26.9         |                         | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -2863.7            | 0.0               | 116.9<br>116.9          | 1,891.2<br>1,888.9            | 121.91<br>121.88           | 58.5<br>58.5         | 33.2<br>33.2         | 0.648<br>0.648          | 32.8                 | 0.827<br>0.827          | 54.3<br>54.2         | 1,303<br>1,301          |          |
| 1      | 1 121.<br>2 121.              | 8 93.6           | 0.00                  | 3.6                | 90.0<br>90.0            | 26.8<br>26.8         | 116.8                   | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -2916.8            | 0.0               | 116.8<br>116.8          | 1,886.6                       | 121.85<br>121.82           | 58.4<br>58.4         | 33.1<br>33.1         | 0.647<br>0.647          | 32.7<br>32.7         | 0.826<br>0.826          | 54.1<br>54.1         | 1,298<br>1,298          |          |
| 1      | 3 121.<br>4 121.              | 2 93.6           | 0.00                  | 3.6<br>3.6         | 90.0<br>67.7            | 26.8<br>25.8         | 116.8<br>94.5           | 125.00<br>125.00           | 2,138.6                       | -2970.1            | 0.0               | 116.8<br>94.5           | 1,882.0<br>1,879.7            | 121.79                     | 58 <i>4</i><br>94.5  | 33.1<br>53.5         | 0.647                   | 32.7<br>52.7         | 0.825                   | 54.0<br>48.6         | 1,296                   |          |
| 1      | 5 121.<br>6 121.              | 6 91.6           | 0.00                  | 3.6                | 88.0<br>85.9            | 17.8<br>26.8         | 105.8<br>112.7          | 125.00<br>125.00           | 2,138.6<br>2,138.6            | -3014.3            | 0.0<br>0.0        | 105.8<br>112.7          | 1,878.2<br>1,875.9            | 121.74<br>121.71           | 52.9<br>56.4         | 29.9<br>31.9         | 0.615<br>0.635          | 29.6<br>31.6         | 0.799                   | 47.3<br>51.5         | 1,135                   |          |
| 1      | 7 121.<br>8 121.              | 1 89.5           |                       | 3.6<br>3.6         | 85.9<br>85.9            | 26.7<br>26.7         | 112.6<br>112.6          | 125.00<br>125.00           | 2,138.6<br>2,138.6            |                    | 0.0<br>0.0        | 112.6<br>112.5          | 1,873.6<br>1,871.3            | 121.68<br>121.65           | 56.3<br>56.3         | 31.8<br>31.8         | 0.634<br>0.634          | 31.5<br>31.5         | 0.816<br>0.816          | 51.4<br>51.4         | 1,234<br>1,234          |          |
| 1      | 9 121.<br>D 121.              | 5 89.5<br>2 89.5 | 0.00                  | 3.6<br>. 3.6       | 85.9<br>85.9            | 26.7<br>26.7         | 112.6<br>112.6          | 125.00<br>125.00           | 2,138.6<br>2,138.6            | 3120.5<br>-3147.1  | 0.0<br>0.0        | 112.6<br>112.6          | 1,869.0<br>1,866.7            | 121.62<br>121.59           | 56.3<br>56.3         | 31.8<br>31.8         | 0.634<br>0.634          | 31.4<br>31.4         | 0.815<br>0.815          | 51.3<br>51.2         | 1 231                   | • •      |
| 2      | 1 121.<br>2 121.              | 9 89.5<br>6 89.5 | 0.00<br>0.00          | 3.6                | 85.9<br>85.9            | 26.7<br>26.6         | 112.5                   | 125.00<br>125.00           |                               | -3200.2            | 0.0<br>0.0        | 112.6<br>112.5          | 1,864.4<br>1,862.1            | 121.56<br>121.53           | 56.3<br>56.3         | 31.8                 | 0.634                   | 31.4<br>31.4         | 0.815                   | 51.2<br>51.1         | 1,229                   |          |
| 2      | 3 121.<br>4 121.              | 0 91.6           |                       | 3.6<br>3.6         | 90.0<br>88.0            | 26.6<br>26.6         |                         | 125.00                     | 2,138.6                       | -3253.5            | 0.0               | 116.6                   | 1,859.8                       | 121.50                     | 583<br>573           | 32.9                 | 0.645                   | 32.5                 | 0.824                   | 53.5<br>52.3<br>47.0 | 1,284                   | ÷.,      |
| 2      | 5 121.<br>6 121.              | 5 91.6           | 0.00                  | 3.6<br>3.6         | \$8.0<br>\$8.0          | 17.7                 | 114.6                   | 125.00                     | 2,138.6                       | -3297.4            | 0.0               | 105.7                   | 1,855.0                       | 121.45                     | 52.9<br>573          | 29.8<br>32.3         | 0.614<br>0.638<br>0.638 | 29.5<br>31.9<br>31.9 | 0.798<br>0.819<br>0.819 | 52.2<br>52.3         | 1,128<br>1,253<br>1,255 |          |
| 2      | 8 121.3                       | 9 91.6           | 0.00                  | 3.5                | 88.1<br>88.1<br>93.0    | 26.6<br>26.5         |                         | 125.00<br>125.00           | 2,138.6                       | -3350.6            | 0.0<br>0.0<br>0.0 | 114.7<br>114.6<br>110.4 | 1,851.4<br>1,849.1<br>1,846.8 | 121.39<br>121.36<br>121.33 | 57.4<br>57.3<br>55.2 | 32.3<br>32.2<br>31.0 | 0.638<br>0.626          | 31.9                 | 0.819<br>0.809          | 52.2<br>49.6         | 1,253                   |          |
| 2<br>3 | 9 121.<br>0 121.              | 3 87.4           | 0.00<br>0,00          | 3.5<br>3.5<br>3.6  | 83.9<br>83.9            | 26.5<br>26.5         |                         | 125.00<br>125.00           | 2,138.6<br>2,138.6            |                    | 0.0<br>0.0<br>0.0 |                         | 1,846.8<br>1,844.5            | 121.33                     | 552                  | 31.0                 | 0.626                   | 30.7                 | (1804)                  | 49.6                 | 1 190                   |          |
|        |                               | 89.8             |                       | J.Ŭ                |                         |                      |                         |                            |                               | -<br>              |                   |                         |                               |                            |                      |                      |                         |                      |                         |                      |                         |          |

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# Table 7.2.8 (4/4) Çatalan Dam Daily Reservoir Operation (With System, Flow in 1975)

|                | Rule<br>At beg            | Inflow           |               | Evp.         | Inf<br>Evp.    | Recv.<br>RC    | inf.1+<br>Qi+<br>RC | FSHL             | FSHL<br>Vol.               | Qsp<br>FSHL        | Spill       | 11P            | Rsv.Vol            | RWI.<br>At end   |               | Power        | 1.055          | Power 1      | jata l         | Power          | Energy          |
|----------------|---------------------------|------------------|---------------|--------------|----------------|----------------|---------------------|------------------|----------------------------|--------------------|-------------|----------------|--------------------|------------------|---------------|--------------|----------------|--------------|----------------|----------------|-----------------|
| Oct. 19<br>1   | 88 (Irrig.<br>121.30      | =6.3 m3/<br>88.5 | s)<br>0.00    | 2.4          | 86.1           | 79,4           | 165.5               | 125.00           | 2,138,6                    | -3349.1            | 0.0         | 165.5          | 1,837.6            | 121.21           | 82.8          | 46.5         | 0.808          | 45.8         | 0.905          | 82.9           | 1,990           |
| 2<br>3         | 121.21<br>121,17          | 90.2<br>91.9     | 0.00          | 2.4          | 87.8<br>89.5   | 35.2<br>35.2   | 123.0<br>124.7      | 124.66<br>124.72 | 2,127.0                    |                    | 0.0<br>0.0  | 123.0          | 1,834.6<br>1,831.6 | 121.17<br>121.14 | 61.5<br>62.4  | 34.5<br>35.0 | 0.661<br>0.666 | 34.1<br>34.5 | 0.837<br>0.840 | 57.0<br>58.0   | 1,368<br>1,392  |
| 4              | 121.13                    | 91.9             | 0.01          | 2.4          | 89.5           | 52.7           | 142.2               | 124.57           | 2,103.1                    | -3062.0            | 0.0         | 142.2          | 1,827.0            | 121.07           | 71.1          | 39.8         | 0.721          | 39.3         | 0.873          | 68.6           | 1,646           |
| 5<br>6         | 121.08<br>121.04          | 91.9<br>91.9     | -0.01<br>0.00 | 2.4<br>2.4   | 89.5<br>89.5   | 26.3<br>43.9   | 115.8<br>133.4      | 124.43<br>124.29 | 2,091.6<br>2,080.2         |                    | 0.0<br>0.0  | 115.8<br>133.4 | 1,824,7<br>1,820.9 | 121.04<br>120.99 | 57.9<br>66,7  | 32.4<br>37.3 | 0.639<br>0.692 | 32.0<br>36.8 | 0.820<br>0.857 | 52.5<br>63.1   | 1,260<br>1,514  |
| 7              | 120.99                    | 91.9             | 0.00          | 2.4          | 89.5           | 35.1           | 124.6               | 124,15           | 2,068.8                    | 2763.1             | 0.0         | 124.6          | 1,817.9            | 120.95           | 62.3          | 34.8         | 0.664          | 34.4         | 0.840          | 57.8           | 1,387           |
| 8<br>9         | 120.95<br>120.91          | 91.9<br>92.9     | 0.00<br>0.00  | 2.4<br>2.4   | 89.5<br>89.5   | 35.0<br>43.7   | 124.5               | 124.00<br>123.86 | 2,056.6<br>2,045.3         | -2666.9<br>-2579.6 | 0.0<br>0.0  | 124.5<br>133.2 | 1,814.9<br>1,811.1 | 120.91<br>120.86 | 62.3<br>66.6  | 34.8<br>37.1 | 0.664<br>0.690 | 34.4<br>36.7 | 0,840<br>0.856 | 57.7           | 1,385<br>1,507  |
| 0<br>1         | 120.86                    | 91.9             | 0.00          | 2.4          | 89.5           | 34.9           | 124.4               | 123.72           | 2,034.0                    | -2484.0            | 0.0<br>0.0  | 124.4<br>124.4 | 1,808.1            | 120.82           | 62.2          | 34.6         | 0.662          | 34.2         | 0.838          | 57.4           | 1,378           |
| 2              | 120.82<br>120,78          | 91.9<br>90.2     | 0.00          | 2.4          | 89.5<br>87.8   | 34.9<br>43.6   | 124.4<br>131.4      | 123.58<br>123.44 | 2,011.5                    | -2389.1<br>-2293.6 | 0.0         | 131.4          | 1,805.1<br>1,801.3 | 120.78<br>120.73 | 62.2<br>65.7  | 34.6<br>36.5 | 0.662<br>0.683 | 34.2<br>36.1 | 0.838<br>0.852 | 57.4<br>61.5   | 1,378<br>1,476  |
| 3.4.           | 120.73<br>120.69          | 88.5<br>86.7     | 0.00          | 2.4<br>2.4   | 86.1<br>84.3   | 34.8<br>43.5   | 120.9               | 123.29<br>123.15 | 1,999.5<br>1,988.3         | -2199.2            | 0.0<br>0.0  | 120.9<br>127.8 | 1,798,3<br>1,794,5 | 120.69<br>120.64 | 60.5<br>63.9  | 33.6<br>35.5 | 0.652          | 33.2<br>35.1 | 0.830<br>0.845 | 55.1<br>59.3   | 1,322<br>1,423  |
| 5              | 120.64                    | 86.5             | 0.00          | 2.4          | 86.1           | 34,8           | 120.9               | 123.01           | 1,977.2                    | -2020.9            | 0.0         | 120.9          | 1,791.5            | 120.60           | 60.5          | 33.6         | 0.652          | 33.2         | 0.830          | \$5.0          | 1,320           |
| 6<br>7         | 120.60<br>120.56          | 88.5<br>88.5     | 0.00          | 2.4<br>2.4   | 86.1<br>86.1   | 34.7<br>43.4   | 120.8<br>129.5      | 122.87<br>122.72 |                            | -1919.0<br>-1835.1 | 0.0<br>0.0  | 120.8<br>129.5 | 1,788,5<br>1,784,8 | 120.56<br>120.51 | 60.4<br>64.8  | 33,5<br>35,9 | 0.651<br>0.676 | 33.1<br>35.5 | 0.829<br>0.848 | 54.9<br>60.1   | 1,318<br>1,442  |
| 18<br>19       | 120.51                    | 86.7             | 0.00<br>0.00  | 2.4<br>2.4   | 84.3<br>84.3   | 34.7<br>34.6   | 119.0<br>118.9      | 122.58<br>122.44 |                            | -1741.9<br>-1649.2 | 0.0<br>0.0  | 119.0<br>118.9 | 1,781.8<br>1,778.8 | 120.47<br>120.43 | 59.5<br>59.5  | 32.9<br>32.9 | 0.645<br>0.645 | 32.6<br>32.5 | 0.825<br>0.824 | 53.7<br>53.6   | 1,289           |
| 80             | 120,47<br>120,43          | 86.7<br>85.0     | 0.00          | 2.4          | 82.6           | .43.2          | 125.8               |                  |                            | -1566.3            | 0.0         | 125.8          | 1,775.1            | 120.39           | 62.9          | 34.8         | 0.664          | 34.4         | 0.840          | 57.7           | 1,385           |
| 2              | 120.38                    | 85.0             | 0.01          | 2.4<br>2.3   | 82.6<br>82.7   | 43.2<br>43.1   | 125.8<br>125.8      | 122.16<br>122.01 |                            | -1474.9<br>-1391.5 | 0.0         | 125.8<br>125.8 | 1,771.4<br>1,767.7 | 120.34           | 62.9<br>62.9  | 34.7<br>34.7 | 0.663<br>0.663 | 34.3<br>34.3 | 0.839<br>0.839 | 57.6<br>57.6   | 1,382<br>1,382  |
| 3              | 120.34<br>120.29          | 85.0<br>85.0     | 0.00          | 2.3          | 82.7           | 34.5           |                     | 121.87           | 1,887.9                    | -1300.7            | 0.0         | 117.2          | 1.764.7            | 120.25           | 58.6          | 32.3         | 0.638          | 31.9         | 0.819          | 52.3           | 1,255           |
| 1              | 120.25<br>120.21          | 85.0<br>85.0     | 0.00          | 2.3<br>2.3   | 82.7<br>82.7   | 34.4<br>43.0   | 117.1<br>125.7      | 121.73<br>121.59 |                            | -1211.5<br>-1121.7 | 0.0<br>0.0  | 117.1<br>125.7 | 1,761.7<br>1,758.0 | 120.21<br>120.16 | 58.6<br>62.9  | 32.3<br>34.6 | 0.638<br>0.662 | 31.9<br>34.2 | 0.819<br>0.838 | 52.2<br>57.3   | 1,253<br>1,375  |
| 5              | 120.16                    | 85.0             | 0.00          | 2.3          | 82.7           | 34,4           | 117.1               | 121.44           | 1,854.9                    | -1032.1            | 0.0         | 117.1          | 1,755.0            | 120.12           | 58.6          | 32.2         | 0.638          | 31.9         | 0.819          | 52.2           | 1,253           |
| 7<br>8         | 120.12<br>120.08          | 85.0<br>85.0     | 0.00<br>0.01  | 2.3<br>2.3   | 82.7<br>82.7   | 34.3<br>34.3   | 117.0               | 121.30<br>121.16 | 1,844.2                    | -942.9<br>-854.9   | 0.0<br>0.0  | 117.0<br>117.0 | 1,752.0<br>1,749.0 | 120.07<br>120.03 | 58.5<br>58.5  | 32.2<br>32.1 | 0.638<br>0.637 | 31.8<br>31.8 | 0.819<br>0.819 | 52.1<br>52.0   | 1,250<br>1,248  |
| 9              | 120.03                    | 85.0             | 0.00          | 2.3          | 82.7           | 34.3           | 117.0               | 121.02           | 1,822.9                    | -766.9             | 0.0         | 117.0          | 1,746.0            | 119.99           | 58.5          | 32.1         | 0.637          | 31.7         | 0,818          | 51.9           | 1,246           |
| 0<br>1         | 119.99<br>119.94          | 85.0<br>85.0     | 0.00<br>0.00  | ·2.3<br>·2.3 | \$2.7<br>82.7  | 42.8           | 125.5               | 120.88<br>120.73 | 1,812.3<br>1,801.0         | -679.4<br>-590.9   | 0,0<br>0.0  | 125.5<br>116.9 | 1,742.3<br>1,739.3 | 119.94<br>119.90 | 62.8<br>58.5  | 34.4<br>32.1 | 0.660<br>0.637 | 34.0<br>31.7 | 0.836<br>0.818 | 56.9<br>51.8   | 1,366<br>1,243  |
|                |                           | 88.1             |               | 2.4          | · · · ·        |                |                     |                  |                            |                    | 0.0         | 124.9          |                    |                  |               |              |                |              |                |                | 42,719          |
| lov. 1         | 988<br>119.90             | .105.1           | 0.00          | 13           | 104.8          | 102.4          | 207.2               | 120.59           | 1,790.4                    | -573.5             | 0.0         | 207.2          | 1,730.5            | 119.78           | 69.1          | 37,8         | 0.697          | 37.3         | 0,860          | 96.3           | 2,311           |
|                | 119,78                    | 106.1            | 0.00          | 1.3          | 104,8          | 42.6           | 147.4               | 120.45           | 1,780.0                    | -494.0             | 0.0         | 147,4          | 1,726.8            | 119.73           | 73.7          | 40.3         | 0.727          | 39.7         | 0.875          | 69.6           | 1,670           |
|                | 119 <i>.7</i> 3<br>119.67 | 83.3<br>83.3     | 0.00          | 13           | 82.0<br>82.0   | 51.0<br>50.9   | 133.0<br>132.9      | 120.31<br>120.16 | 1,769.5                    | -415.6<br>-347.2   | 0.0<br>0.0  | 133.0<br>132.9 | 1,722,4<br>1,718.0 | 119.67<br>119.61 | 66.5<br>66.5  | 36.3<br>36.3 | 0.681<br>0.681 | 35.9<br>35.8 | 0.851<br>0.850 | 61.0<br>69.8   | 1,464<br>1,459  |
|                | 119.61                    | 83,3             | 0.00<br>0.00  | 13<br>13     | 82.0<br>82,0   | 50.9<br>50.8   | 132.9<br>132.8      | 120.02<br>119.88 | 1,748.0<br>1,737.6         | -277.8<br>-209.4   | 0.0         | 132.9<br>132.8 | 1,713.6<br>1,709.2 | 119.55<br>119.49 | 46.5<br>66.4  | 36.2<br>36.1 | 0.679<br>0.678 | 35.8<br>35.7 | 0.850<br>0.849 | 60.8<br>60.6   | 1,459<br>1,454  |
|                | 119.55<br>119.49          | 83.3<br>83.3     | 0.00          | 1.3          | \$2.0          | 42.3           | 124.3               | 119.74           | 1,727.3                    | -132.6             | 0.0         | 124.3          | 1,705.5            | 119.44           | 62.2          | 33.8         | 0.654          | 33.4         | 0.832          | 55.6           | 1,334           |
|                | 119.44<br>119.38          | 83.3<br>83.3     | 0.00<br>0.00  | 13<br>13     | 82.0<br>82.0   | 50.7<br>59.0   | 132.7<br>141.0      | 119.60<br>119.45 | 1,717.0                    | -56.5<br>2.3       | 0.0<br>0.0  | 132.7<br>141.0 | 1,701.1<br>1,695.0 | 119.38<br>119.31 | 66.4<br>70.5  | 36.1<br>38.2 | 0.678<br>0.702 | 35.6<br>37.8 | 0.848<br>0.863 | 60.4<br>65.2   | 1,450<br>1,565  |
|                | 119.31                    | 83.3             | 0.00          | 1.3          | 82.0           | 117.7          | 199.7               | 119.31           | 1,695.8                    | 1.5                | 0.0         | 199.7          | 1,685.8            | 119.17           | . 59.9        | 54.1         | 0.921          | 53.2         | 0.924          | 98.2           | 2,357           |
|                | 119.17<br>119.03          | 81.5<br>81.5     | 0.00          | 13           | 80.2<br>80.2   | 117.3<br>125.2 | 197.5<br>205.4      | 119.17<br>119.03 | 1,685.7                    | 1.9                | 0.0<br>0.0  | 197.5<br>205.4 | 1,675.7<br>1,664.9 | 119.03<br>118.88 | 98.8<br>102.7 | 53.4<br>55.3 | 0.910          | 52.5<br>54.4 | 0.923<br>0.925 | 96.8<br>109.6  | 2,323<br>2,414  |
| 3              | 118,88                    | 81.5             | 0.00          | 1.3          | 80.2<br>82.0   | 116.5          | 196.7<br>198.1      | 118.88<br>118.74 | 1,654.7                    | 1.6                | 0.0<br>0.0  | 196.7<br>198.1 | 1,654.8<br>1,644.8 | 118.74<br>118.60 | 98.4<br>99.1  | 52.9<br>53.1 | 0.902          | 52.0<br>52.2 | 0.922<br>0.922 | 95.8<br>96.2   | 2,299<br>2,309  |
| 4<br>5         | 118.74<br>118.60          | 83.3<br>88.5     | 0.00          | 1.3<br>.1.3  | \$7.0<br>87.2  | 116.1<br>0.0   | 87.2                | 118.60           | 1,644.6                    | 2.3                | 0.0         | 87.2           | 1,644.8            | 118.60           | .87.2         | 46.7         | 0.900          | 46.0         | 0.922<br>0.995 | 41.6           | 2,509           |
|                | 118.60<br>118.60          | 85.0<br>86.7     | 0.00<br>0.00  | 1.3<br>1.3   | 83.7<br>85.4   | 0.0<br>0.0     | 83.7<br>85.4        | 118.60<br>118.60 | 1,644 <u>.6</u><br>1,644.6 | 2.3<br>2.3         | 0.0<br>0.0  | 83.7<br>85.4   | 1,644.8<br>1,644.8 | 118.60<br>118.60 | 83.7<br>85.4  | 44.8<br>45,7 | 0.785<br>0,797 | 44.1<br>45.0 | 0.898<br>0.901 | . 39.6<br>40.6 | 950<br>974      |
| 7<br>8         | 118.60                    | 85.0             | 0.00          | 13           | 83.7           | 0.0            | 83.7                | 118.60           | 1,644.6                    | 2.3                | 0.0         | 83.7           | 644.8              | 118.60           | 83.7          | 44.8         | 0.785          | 44.1         | 0,898          | 39.6           | 950             |
| 9<br>0         | 118.60<br>118.60          | 85.0<br>85.0     | 0.00          | 1.3<br>· 1.3 | 83.7<br>83.7   | 0.0<br>0.0     | 83.7<br>83.7        | 118.60<br>118.60 | 1,644.6<br>1,644.6         | 2.3<br>2.3         | 0.0<br>0.0  | 83.7<br>83.7   | 1,644.8<br>1,644.8 | 118.60<br>118.60 | 83.7<br>83.7  | 44.8<br>44.8 | 0.78S<br>0.785 | 44.)<br>44.1 | 0.898<br>0.898 | 39.6<br>39.6   | 950<br>950      |
| 1              | 118.60                    | 83.3             | 0.00          | 1.3          | 82.0           | 0.0            | 82.0                | 118,60           | 1,644.6                    | 2.3                | 0.0         | 82.0           | 1,644.8            | 118.60           | 82.0          | 43.9         | 0.773          | 43.3         | 0.894          | 38.7           | 929             |
| 2.3            | 118.60<br>118.56          | 83.3<br>84.5     | 0.00          | 1.3<br>1.3   | 82.0<br>83.2   | - 33.1<br>41.3 | 115.1<br>124.5      | 118.60<br>118.60 | 1,644.6                    | -30.8<br>72.5      | 0.0<br>0.0  | 115.1<br>124.5 | 1,641.9<br>1,638.3 | 118.56<br>118.51 | 57.6<br>62.3  | 30.8<br>33.3 | 0.624<br>0.649 | 30.5<br>32.9 | 0.897<br>0.828 | 49.1<br>54.4   | 1,178<br>1,306  |
| <b>4</b> .     | 118.51                    | 88.5             | 0.00          | 1.3          | 87.2           | 49.5           | 136.7               | 118.60           | 1,644.6                    | -122.4             | 0.0         | 136.7          | 1,634.0            | 118.45           | 68.4          | 36.5         | 0.683          | 36.1         | 0.852          | 61.4           | 1,474           |
| 5.<br>გ        | 118.45<br>118.39          | 125.1<br>111.6   | 0.00          | 13<br>13     | 123.8<br>110.3 | 49.4<br>49.4   | 173.2               | . 118.60         | 1,644.6<br>1,644.6         | -172.1             | 0.0<br>0.0  | 173.2<br>159.7 | 1,629.7<br>1,625.4 | 118.39<br>118.33 | 86.6<br>79.9  | 46.2         | 0.804<br>0.756 | 45.5<br>42.0 | 0.903<br>0.888 | 82.2<br>74.5   | 1,973           |
|                | 118,33                    | 98.8             | 0.00          | 1.3          | 97.5           | 49.3           | 146.8               | 118.60           | 1,644.6                    | -271.5             | 0.0         | 146.8          | 1,621.1            | 118.27           | 73.4          | 39.i         | 0.713          | 38,5         | 0.868          | 66.9           | 1,696           |
| •              | 118.27                    | 90.2<br>88.5     | 0.00<br>0.00  | 1.3          | 88.9<br>87.2   | 41.0           | 129.9<br>136.4      | 118.60<br>118.60 | 1.644.6<br>1.644.6         | -313.0<br>-361.7   | 0.0         | 129.9<br>136,4 | 1,617.6<br>1,613.3 | 118.22<br>118.16 | 65.0<br>68.2  | 34.6<br>36.2 | 0.662<br>0.679 | 34.1<br>35.8 | 0.837<br>0.850 | 57.1<br>60.8   | 1,370<br>1,459  |
| 0              | 118.16                    | 86.7             | 0.90          | 1.3          | 85.4           | 49.1           | 134.5               | 118.60           | 1,644.6                    | 411.4              | 0.0<br>0.0  | 134.5<br>137.6 | 1,609.1            | 118.10           | 673           | 35.7         | 0.674          | 35.3         | 0.845          | 59.6           | 1,430<br>46,153 |
| sc. 19         |                           | 89.7             |               | 1.3          |                |                |                     |                  |                            |                    | 0.0         | 10120          |                    |                  |               |              |                |              |                |                |                 |
|                | 118.10                    | \$5.0<br>83.7    | 0.00          |              | 84.2           | 154.9          |                     | 118.60           | 1,644.6                    | -565.8<br>-647.2   | 0.0<br>0.0  | 239.1<br>163.7 | 1,595.7<br>1,588.7 | 117.91<br>117.81 | 79.7<br>81.9  | 42.2<br>43.2 | 0.751<br>0.764 | 41.6<br>42.6 | 0.886<br>0.891 | 110.6<br>75.9  | 2,654<br>1,822  |
| -              | 117.91<br>117.81          | 83.3<br>83.3     | 0.00<br>0.00  | 0.8          | 82.5<br>82.5   | 81.2<br>81.0   | 163.5               | 118.60           | 1,644.6<br>1,644.6         | -728.0             | 0.0         | 163.5          | 1,581.7            | 117.71           | 81.8          | 43.1         | 0.762          | 42.5         | 0.890          | 75.6           | 1,814           |
|                | 117.71<br>117.62          | 81.5             | 0.00<br>0.00  | 0.8          | 80.7<br>80.7   | 72.8<br>80.7   | 153.5<br>161.4      | 118.60<br>118.60 | 1,644.6<br>1,644.6         | -800.8<br>-881.6   | 0.0<br>0.0  | 153.5<br>161.4 | 1,575,4<br>1,568,4 | 117.62<br>117.52 | 76.8<br>80.7  | 40.4<br>42.4 | 0.728<br>0.753 | 39.8<br>41.8 | 0.876<br>0.887 | 69.8<br>74.1   | 1,675<br>1,778  |
|                | 117.52                    | 8).5<br>81.5     | 0.00          | 0.8<br>0.8   | 80.7           | 80.5           | 161.2               | 118.60           | 1,644.6                    | -962.4             | 0.0         | 161.2          | 1,561.4            | 117.42           | 80.6          | 42.2         | 0.751          | 41.6         | 0.886          | 73.8           | 1,771           |
|                | 117,42<br>117,33          | 81.5<br>79,8     | 0.00          | 0.8<br>0.8   | 80.7<br>79.0   | 72.2           | 152.9<br>159.1      | 118.60<br>118.60 | 1,644.6                    | -1035.2<br>-1114.8 | 0.0<br>0.0  | 152.9<br>159.1 | 1,555.2<br>1,548.3 | 117.33<br>117.23 | 76.5<br>79.6  | 40.0<br>41.6 | 0.723<br>0.743 | 39.5<br>41.0 | 0.874<br>0.882 | 69.0<br>72.2   | 1,656<br>1,733  |
| ;<br>;         | 117.23                    | 83.3             | 0.00          | 0.8          | 82.5           | 79.9           | 162.4               | 118.60           | 1,644.6                    | -1194.5            | 0.0         | 162.4          | 1,541.4            | 117.13           | 81.2          | 42.3         | 0.752          | 41.7         | 0.886          | 73.9           | 1,774           |
| 0              | 117.13<br>117.03          | 83.3<br>81.5     | 0.00          | 0.8<br>0.8   | 82.5<br>80.7   | 79.7<br>71.5   |                     | 118.60<br>118.60 |                            | -1274.1<br>-1345.8 | 0.0         | 162.2<br>152.2 | 1,534.5<br>1,528.3 | 117.03<br>116.94 | 81.1<br>76.1  | 42.2<br>39.5 | 0.751<br>0.717 | 41.6<br>39.0 | 0.886<br>0.871 | 73.7<br>67.9   | 1,769<br>1,630  |
| 11<br>12       | 116.94                    | 79.2             | 0.00          | 0.8          | 78.4           | 79.3           | 157.7               | 118.60           | 1.644.6                    | -1425.4            | 0.0         | 157.7          | 1,521.4            | 116.84           | 78.9          | 40.9         | 0.734          | 40.3         | 0.879          | 70.9           | 1,702           |
| 13             | 116.84<br>116.74          | 78.0<br>76.4     | 0.00          | 0.8<br>0.8   | 77.2           | 79.1           | 156.3<br>146.6      | 118.60<br>118.60 | 1,644.6                    | -1505.0<br>-1575.6 | 0.0<br>0.0  | 156.3<br>146.6 | 1,514.6<br>1,508.5 | 116.74<br>116.65 | 78.2<br>73.3  | 40.5<br>37.9 | 0.730<br>0.699 | 39.9<br>37.4 | 0.876<br>0.861 | 69.9<br>64.3   | 1,678<br>1,543  |
| 14<br>15 :     | 116.65                    | 78.0             | 0.00          | . 0.8        | 77.2           | 78.7           | 155.9               | 118.60           | 644.6                      | -1653.9            | 0.0         | 155.9          | 1,501.7            | 116.55           | 78.0          | 40.2         | 0.726          | 39.7         | 0.875          | 69.3           | 1,663           |
| 16<br>17 · · · | 116.55<br>116.45          | 78.0<br>79.2     | 0.00          | 0.8          | 77.2<br>78.4   | 78.5<br>70.4   | 155.7<br>148.8      | 118.60<br>118.60 |                            | -1732.4<br>-1803.0 | 0.0         | 155.7<br>148.8 | 1,494.9<br>1,458.8 | 116.45<br>116.36 | 77,9<br>74,4  | 40.1<br>38.2 | 0.725<br>0.702 | 39.5<br>37.7 | 0.874<br>0.863 | 69.0<br>65.1   | 1,656           |
| 8              | 116,36                    | 79.2             | 0.00          | 0.8          | 78.4           | 78.1           | 156.5               | 118.60           | 1,644.6                    | -1881.3            | 0.0         | 156.5          | 1,482.1            | 116.26           | 78.3          | 40.1         | 0.725          | 19.6         | 0.875          | 69.Z           | 1,661           |
| 19<br>20       | 116.26<br>116.16          | 79.2<br>81.1     | 0.00          | 0.8          | 78,4<br>80,3   | 77.9<br>69.9   |                     | 118,60<br>118,60 | 1,644,6                    |                    | 0.0<br>0.0  | 156.3<br>150.2 | 1,475.4<br>1,469.4 | 116.16<br>116.07 | 78.2<br>75.1  | 40.0<br>38.4 | 0.723<br>0.704 | 39.5<br>37.8 | 0.874<br>0.863 | 68.9<br>65.3   | 1,654<br>1,567  |
| 21             | 116,07                    | 119.4 ;          | 0.00          | 0.8          | 118,6          | 17.5           | 196.1               | 118.60           | 1,644.6                    | -2105.3            | 0.0         | 196.1          | 1,462.7            | 115.97           | 98.1          | 50.0         | 0.858          | 49.2         | 0.916          | 90.1<br>97.6   | 2,162           |
| 12<br>13       | 115.97<br>115.87          | 148.7<br>113.6   | 0.00<br>0.00  | 0.8<br>0,7   | 147.9<br>112.9 | 77.3<br>69.4   | 225.2<br>182.3      | 118.60<br>118.60 |                            | -2182.6<br>-2252.3 | 0.0<br>0.0  | 225.2<br>182.3 | 1,456.0<br>1,450.0 | 115.87<br>115.78 | 75.1<br>91.2  | 38.2<br>46.3 | 0.702<br>0.805 | 37.7<br>45.6 | 0.863<br>0.904 | \$2.4          | 2,342<br>1,978  |
| - 44           | 115.78                    | 104.2            | 0.00          | 0.7          | 103.5          | 76.9           | 180.4               | 118.60           | 1,644.6                    | -2329.2            | 0.0         | 180.4<br>173.2 | 1,443.4<br>1,436.8 | 115.68<br>115.58 | 90.2<br>86.6  | 45,7<br>43.8 | 0.797<br>0.771 | 45.0<br>43.2 | 0.901<br>0.894 | 81.1<br>77.2   | 1,946           |
| 15 .<br>16     | 115.68<br>115.58          | 97.2<br>93.6     | 0.00.         | 0.7          | 96.5<br>92.9   | 76.7<br>76.5   | 173.2<br>169.4      | 118.60           | 1,644.6<br>1,644.6         | -2481.6            | 0.0<br>.0.0 | 169.4          | 1,430.2            | 115.48           | 84,7          | 42.8         | 0,758          | 42.1         | 0.858          | 74.8           | 1,795           |
| 27             | 115.48                    | 102.4            | 0.00<br>0.00  | 0.7          | .101.7<br>99.9 | 68.6<br>76.1   | 170.3<br>176.0      | 118.60<br>118.60 | 1,644,6                    |                    | 0.0<br>0.0  | 170.3<br>176.0 | 1,424.3            | 115.39<br>115.29 | 85.2<br>88.0  | 42.9<br>44.3 | 0.760<br>0.778 | 42.3<br>43.6 | 0,889<br>0.895 | 75.2<br>78.1   | 1,805           |
| 28<br>29       | 115,39<br>115,29          | 100.6<br>102.4   | 0.00          | 0.7          | 101.7          | . 75.9         | 177.6               | 118.60           | 1,644.6                    | -2702.1            | 0.0         | 177.6          | 1,411.1            | 115.19           | \$8,\$        | 44.6         | 0.782          | 43.9         | 0.897          | 78.8           | 1,891           |
| 30<br>31       | 115.19<br>115.10          | 98.8<br>95.4     | 0.00<br>0.00  | 0.7          | 98.1<br>94.7   | 68.1<br>75.5   |                     | 118.60<br>118.60 | 1,644.6<br>1,644.6         | -2770.6<br>-0.3    | 0.0<br>0.0  | 166.2<br>170.2 | 1,405.2<br>1,398.7 | 115.10           | 83.1<br>85.1  | 41.7<br>42.6 | 0,744<br>0,756 | 41.0<br>41.9 | 0.852          | 72.4<br>74.4   | 1,738<br>1,786  |
| •              | 110.10                    | 90.0             | 3.00          | 0.7          | <i>,</i>       |                |                     |                  |                            |                    | 0.0         | 167.8          |                    |                  |               |              |                |              |                |                | 55,932          |
|                |                           |                  |               |              |                |                |                     |                  |                            |                    |             |                |                    |                  |               |              |                |              |                |                |                 |

Grand Total 115.00 2,534

32

1,398.7

289 2,208

791,919

#### Table 7.2.9 (1/4)Çatalan Dam Daily Reservoir Operation<br/>(With System, Flow in 1988)

| · · ·  |                                |                              |                                    |                         |                        |                              |                      |              |                            |                   |
|--|--------------------------------|------------------------------|------------------------------------|-------------------------|------------------------|------------------------------|----------------------|--------------|----------------------------|-------------------|
| Rule RWL-RC<br>Atbeg. Inflow Evr                     | Inf Rerv.<br>Evp. RC           | lof.1+<br>Qt+ FSHL<br>RC     | FSIII. Qsp<br>Vol, FSIII.          | Spill<br>H              | Rsv.Vol                | RWL<br>At end Q<br>115.00    | Power                | Power<br>255 | Kata Power                 | Energy            |
| 1 115.00 182.1 0.00 0.<br>2 115.09 173.6 0.20 0.     | 7. 172.9 -188.5                | 265.3 118.60<br>80.0 118.60  | 1,644.6 -2930.0<br>1,644.6 -2836.5 | 0.0 265.<br>0.0 80.     | 1,391.\$<br>1,399.5    | 114.89 88.4<br>115.01 80.0   | 44.1 0.7<br>39.9 0.7 | 22 39.4      | 0.895 116.3                | 826               |
| 3 115.14 169.7 -0.13 0.<br>4 115.19 164.7 -0.06 0.   | 7 164.0 -75.8                  | 80.0 118.60<br>88.2 118.60   | 1 644.6 -2747.8<br>1 644.6 -2671.9 | 0.0 80.<br>0.0 88.      | 2 1 413 7              | 115.13 80.0<br>115.23 88.2   | 40.0 0.7             | 77. 43.6     | 0.874 34.5<br>0.895 39.0   | 936               |
| 5 115.23 161.1 0.00 0.<br>6 115.28 164.2 0.00 0.     |                                | 122.4 118.60                 | 1.644.6 -2634.5<br>1.644.6 -2596.3 | 0.0 122.<br>0.0 125.    | 1,420.3                | 115.28 61.2<br>115.33 62.7   | 30.7 0.6<br>31.5 0.6 | 31 31.1      | 0.806 49.0<br>0.813 50.0   | 1,214             |
| 7 115.33 154.8 0.00 0.<br>8 115.38 153.6 0.00 0.     |                                | 115.9 118.60<br>122.3 118.60 | 1 644.6 2558.0<br>1 644.6 -2527.4  | 0.0 115.<br>0.0 122.    |                        | 115.38 58.0<br>115.42 61.2   | 29.2 0.0<br>30.8 0.6 | 24 30.5      | 0.792 45.0<br>0.807 49.1   |                   |
| 9 115.42 151.1 0.00 0.<br>10 115.47 151.1 0.00 0.    | 8 150.3 - 38.1                 | 112.2 118.60<br>112.1 118.60 | 1,644.6 -2469.7<br>1,644.6 -2451.4 | 0.0 112.                |                        | 115.47 56.1<br>115.52 56.1   | 28.3 0.6<br>28.3 0.6 |              | 0.784 43.8                 |                   |
| 11 115.52 151.1 0.00 0.<br>12 115.56 149.9 0.00 0.   | 8 150,3 -30,6                  | 119.7 118.60<br>110.8 118.60 | 1,644.6 -2420.8<br>1,644.6 -2383.0 | 0.0 119.                |                        | 115.56 59.9                  | 30.3 0.6             |              | 0.802 47.9                 |                   |
| 13 115.61 147.4 0.00 0.                              | 8 145.6 38.3                   | 103.3 118.60                 | 1,644.6 -2344.8<br>1,644.6 -2314.2 | 0.0 108.                | 1,442.0                | 115.66 108.3<br>115.70 57.3  | 54.8 0.9<br>29.0 0.6 |              | 0.925 49.8                 | 1,195             |
| 15 115,70 143,7 0.00 0.                              | 8 142.9 -38.4                  | 104.5 118.60                 | 1,644.6 -2275.3                    | 0.0 104.                | 5 1,448.0              | 115.75 164.5<br>115.80 103.2 | 53.0 0.9<br>52.4 0.8 | 04 52.0      | 0.922 48.0                 | 1,152             |
| 17 115.80 140.0 0.00 0.                              | 8 139.2 30.8                   | 108.4 118.60                 | 1,644.6 2206.5                     | 0.0 108.                | 1,454.0                | 115.84 108.4                 | 55.0 0.9<br>54.9 0.9 | 36 54.1      | 0.925 50.0                 | 1,200             |
| 18 115.84 147.4 0.00 0.<br>19 115.89 137.5 0.00 0.   | 8 136.7 38.6                   | 108.0 118.60 98.1 118.60     | 1 644.6 -2129.2                    | 0,0 98.<br>0.0 103.     | 1,460.6                | 115.94 98.1<br>115.98 103.3  | 49.9 0.8<br>52.6 0.8 | 57 49.1      | 0.915 44.5                 | 1,078             |
| 20 115.94 135.0 0.00 0.<br>21 115.98 133.8 0.00 0.   | 8 133.0 -38.7                  | 103.3 118.60<br>94.3 118.60  | 1,644,6 -2098.7<br>1,644.6 -2059.7 | 0.0 94.                 | 1,466.6                | 116.03 94.3                  | 48.1 0.8             | 30 47.3      | 0.910 43.0<br>0.910 43.0   | 1,032             |
| 22 116.03 133.8 0.00 0.<br>23 116.08 137.5 0.00 0.   | 8 136.7 -38.8                  | 94.2 118.60<br>97.9 118.60   | 1,644.6 -2021.4<br>1,644.6 -1982.0 | 0.0 94.<br>0.0 97.      | 1,473.4                | 116.13 97.9                  | 50.0 0.8             | 58 49.2      | 0.916 45.0                 | 1.080             |
| 24 116.13 142.5 0.00 0.<br>25 116.17 143.7 0.00 0.   | 8 142.9 -38.9                  | 110.6 118.60<br>104.0 118.60 | 1,644.6 1950.4<br>1,644.6 -1911.3  | 0.0 110                 | 1 479.5                | 116.17 55.3<br>116.22 104.0  | 28.3 0.6<br>53.2 0.9 | 07 52.3      | 0.783 43.3                 | 1,157             |
| 26 116.22 142.5 0.00 0.<br>27 116.27 140.0 0.00 0.   | 8 139.2 31.2                   | 102.7 118.60<br>108.0 118.60 | 1.644.6 -1871.9<br>1.644.6 -1840.3 | 0.0 102.<br>0.0 108.    | 1,485.6                | 116.27 102.7<br>116.31 108.0 | 52.6 0.8<br>55.3 0.9 | 41 \$4.3     | 0.921 47.0<br>0.925 50.3   | 1,207             |
| 28 116.31 140.0 0.00 0.<br>29 116.36 140.0 0.00 0.   |                                | 100.1 118.60                 | 1 644.6 1801.2<br>1 644.6 -1761.8  | 0.0 100.                | 1,492.4                | 116.36 100.1<br>116.41 100.1 | 51.3 0.8<br>51.4 0.8 | 79 SO.S      | 0.919 46.4                 | 1,114             |
| 30 116.41 140.0 0.00 0.<br>31 116.45 204.3 0.00 0.   |                                | 107.9 118.60                 | 1,644.6 -1730.3<br>1,644.6 -1691.1 | 0.0 107.<br>0.0 164.    |                        | 116.45 107.9<br>116.50 82.2  | 55.4 0.9<br>42.3 0.7 |              | 0.925 50.4<br>0.886 73.8   | 1,771             |
| 150.5 0.<br>Гев. 1988                                | 8                              |                              |                                    | 0.0 112.                | 5                      |                              |                      | e e f        | · · · ·                    | 36,628            |
| 1 116.50 607.0 0.00 1.<br>2 116.61 355.5 0.21 1.     |                                | 360.0 118.60<br>360.0 118.60 | 1,644.6 1445.0<br>1,644.6 -1449.9  | 0.0 360.<br>0.0 360.    |                        | 116.82 120.0<br>116.81 120.0 | 61.9 1.0<br>62.1 1.0 |              | 0.925 168.4                |                   |
| 3 116.67 265.1 0.14 1.                               | 0 264.1 71.1                   | 335.2 118.60<br>182.0 118.60 | 1,644.6 -1521.3<br>1,644.6 -1473.4 | 0.0 335.<br>0.0 182.    | 2 1,513.2              | 116.72 111.7<br>116.78 91.0  | 57.8 0.9<br>47.0 0.8 | 82 56.7      | 0.927 157.<br>0.906 83.5   | 3,785             |
| 5 116.78 206.9 0.00 1.                               | 0 205.9 -39.5                  | 166.4 118.60<br>145.9 118.60 | 1,644.6 -1433.9<br>1,644.6 -1386.5 | 0.0 166.                | 1 520 7                | 116.83 83.2<br>116.89 73.0   | 43.1 0.7             | 62 42.4      | 0.890 75.                  | 1,812             |
| 7 116.89 185.9 0.00 1.                               | 0 184.9 -39.7                  | 145.2 118.60<br>130.9 118.60 | 1,644.6 -1346.9<br>1,644.6 1299.5  | 0.0 145.<br>0.0 130.    | 2 1,528.2              | 116.94 72.6<br>117.00 65.5   | 37.6 0.6<br>34.0 0.6 | 95 37.2      | 0.839 63.9                 | 1,531             |
| 8 116.94 179.6 0.00 1.<br>9 117.00 173.4 0.00 1.     | 0 172.4 -39.8                  | 132.6 118.60                 | 1 644.6 1260.0<br>1 644.6 1212.6   | 0.0 132.                | 5 1.535.7              | 117.05 66.3                  | 34.5 0.6<br>31.2 0.6 | 61 34.0      | 0.836 56.5                 | 1,366             |
| 10 117.05 168.5 0.00 1<br>11 117.11 164.7 0.00 1     | 0 163.7 -39.9                  | 119.7 118.60<br>123.8 118.60 | 1,644.6 1173.1                     | 0.0 123.                | 1,543.2                | 117.16 61.9                  | 32.2 0.0<br>29.6 0.6 | 38 31.8      | 0.819 52.3                 | 1,253             |
| 12 117.16 162.3 0.00 1<br>13 117.22 160.5 0.00 1     | 0 159.5 -40.0                  | 113.4 118.60<br>119.5 118.60 | 1,644.6 1125.7<br>1,644.6 -1086.2  | 0.0 113.<br>0.0 119.    | 5 1.550.8              | 117.22 56.7<br>117.27 59.8   | 31,2 0.6             | 28 30.8      | 0.810 49.9                 | 1,198             |
| 14 117.27 158.6 0.00 1.<br>15 117.33 169.7 0.00 1.   | 0 168.7 -40.1                  | 109.5 118.60<br>128.6 118.60 | 1,644.6 -1037.5<br>1,644.6 -996.9  | 0.0 109.<br>0.0 128     | 5 1,558.5              | 117.33 54.8<br>117.38 64.3   | 28.6 0.6<br>33.6 0.6 | 52 33.2      | 0.787 44.5                 | 1,322             |
| 16 117.38 175.9 0.00 1<br>17 117.44 175.3 0.00 1     | 0 174.3 40.2                   | 126.7 118.60<br>134.1 118.60 | 1,644.6 -948.3<br>1,644.6 -907.7   | 0.0 126.<br>0.0 134.    | 1 1,566.2              | 117.44 63.4<br>117.49 67.1   | 33.2 0.0<br>35.2 0.0 | 69 34.7      | 0.527 54.2 0.842 58.4      | 1,402             |
| 18 117,49 164,7 0.00 1<br>19 117,55 162,3 0.00 1     | 0 161.3 -40.3                  | 115.4 118.60<br>121.0 118.60 | 1,644.6 -859.1<br>1,644.6 -818.5   | 0.0 115.<br>0.0 121.    | 1 573.9                | 117.55 57.7<br>117.60 60.5   | 30.3 0.6<br>31.8 0.6 | 34 31.4      | 0.802 48.0<br>0.815 51.2   | 1,229             |
| 20 117.60 241.5 0.00 1<br>21 117.66 328.2 0.00 1     | 0 327.2 -40.4                  | 192.0 118.60<br>285.8 118.60 | 1.644.6 -769.8<br>1.644.6 -729.3   | 0.0 192.<br>0.0 286.    | 8 1,581.6              | 117.66 96.0<br>117.71 95.6   | 50.5 0.8<br>50.3 0.8 | 63 49.5      | 0.917 91.0                 | 3,264             |
| 22 117.71 459.6 0.00 1.<br>23 117.77 442.2 0.06 1.   |                                | 360.0 118.60<br>360.0 118.60 | 1,644.6 -630.6<br>1,644.6 -549.6   | 0.0 360.<br>0.0 360.    | 1,597.1                | 117.83 120.0<br>117.93 120.0 | 63.2 1.0<br>63.4 1.0 | 82 62.1      | 0.923 171.<br>0.923 171.   | 4,126             |
| 24 117.82 344.4 0.11 1.<br>25 117.88 278.7 0.03 1.   |                                | 360.0 118.60<br>261.4 118.60 | 1,644.6 -566.4<br>1,644.6 -549.7   | 0.0 360.<br>0.0 261.    |                        | 117.91 120.0<br>117.93 87.1  | 63.4 1.0<br>46.0 0.8 | 01 45.3      | 0.923 172.<br>0.903 122.   | 2,950             |
| 26 117.93 241.5 0.00 1<br>27 117.99 225.5 0.00 1     |                                | 191.6 118.60<br>183.7 118.60 | 1,644.6 -500.9<br>1,644.6 -460.4   | 0.0 191.<br>0.0 183.    |                        | 117.99 95.8<br>118.04 91.9   | 50.7 0.8<br>48.6 0.8 |              | 0.917 913                  | 2.095             |
| 28 118.04 225.5 0.00 1.<br>244.6 1.                  |                                | 175.5 118.60                 | 1,644.6 -411.6                     | 0.0 175.<br>0.0 197.    |                        | 118.10 87.8                  | 46.5 0.8             | 08 45.8      | 0.905 82.9                 | 0 1,990<br>60,771 |
| Mar. 1988<br>1 118.10 455.9 0.00 1.                  | 6 454.3 -122.8                 | 331.5 118.60                 | 1,644.6 -289.2                     | 0.0 331.                | 5 1,619.6              | 118.25 110.5                 | 58.7 0.9             | 98 57.6      | 0.927 160.1                | 3,842             |
| 2 118.25 405.1 0.00 1.<br>3 118.33 426.2 0.00 1.     | 6 403.5 -65.7                  | 337.8 118.60<br>360.0 118.60 | 1,644.6 -223.7<br>1,644.6 -158.8   | 0.0 337.<br>0.0 360.    |                        | 118.33 112.6<br>118.41 120.0 | 59.9 1.0<br>63.9 1.0 |              | 0.926 163.3<br>0.922 173.3 |                   |
| 4 118.40 429.8 0.01 1.<br>5 118.48 368.0 0.01 1.     | 6 428.2 -57.7                  | 360.0 118.60 316.8 118.60    | 1,644.6 -90.4<br>1,644.6 -40.7     | 0.0 360.<br>0.0 316.    | 1,636.8                | 118.49 120.0                 | 64.0 1.0<br>56.4 0.9 |              | 0.922 173.0                |                   |
| 6 118.55 257.8 0.00 1                                | 6 256.2 -41.4                  | 214.8 118.60<br>290.8 118.60 | 1,644.6 0.9                        | 0.0 214.<br>0.0 290.    | 3 1,644.7              | 118.60 71.5<br>118.60 96.9   | 38.3 0.7<br>51.8 0.8 | 03 37.8      | 0.863 97.                  | 2,350             |
| 8 118.60 282.5 0.00 1.                               | 6 280.9 0.0                    | 280.9 118.60<br>298.1 118.60 | 1,644.6 1.2<br>1,644.6 1.2         | 0.0 280.<br>0.0 298.    | 1,644.7                | 118.60 93.6<br>118.60 99.4   | 50.1 0.8<br>53.2 0.9 | 60 49.3      | 0.916 135.                 | 3,252             |
| 9 118.60 299.7 0.00 1.<br>10 118.60 368.0 0.00 1.    | 6 366.4 0.0                    | 360.0 118.60                 | 1,644.6 7.6                        | 7.6 360.<br>286.3 360.  | 1,644.6                | 118.60 120.0<br>118.60 120.0 | 64.2 1.0<br>64.2 1.0 | 97 62.9      | 0.922 174.0                | 4,176             |
| 11 118.60 647.9 0.00 1.<br>12 118.60 511.1 0.00 1.   | 6 509.5 0.0                    | 360.0 118.60<br>360.0 118.60 | 1 644.6 149.5                      | 149.5 360.              | 1,644.6                | 118.60 120.0                 | 64.2 1.0<br>64.2 1.0 | 97 62.9      | 0.922 174.0                | 4,176             |
| 13 118.60 429.8 0.00 1.<br>14 118.60 371.6 0.00 1.   | 6 370.0 0.0                    | 360.0 118.60<br>360.0 118.60 | 1,644.6 10.0                       | 10.0 360.               |                        | 118.60 120.0                 | 64.2 1.0             | 97 62.9      | 0.922 174.                 | 4,176             |
| 15 118.60 335.7 0.00 1.<br>16 118.74 324.6 0.00 1.   | 6 323.0 -116.5                 | 218.0 118.60<br>206.5 118.74 |                                    | 0.0 218.<br>0.0 206.    | 1,664.7                | 118.74 72.7<br>118.88 103.3  | 55.5 0.9             | 44 . 54.5    | 0.925 100.9                | 2,419             |
| 17 118.88 335.7 0.00 1.<br>18 119.02 353.0 0.00 1.   | 6 351.4 -429.2                 | 217.2 118.68<br>80.0 119.02  | 1 664 7 0.0<br>1 674 8 154.5       |                         | 1 698.2                | 119.02 72.4<br>119.34 80.0   | 39.0 0.7<br>43.3 0.7 | 65 42.7      | 0.868 100.2                | 912               |
| 19 119.53 559.8 -0.19 1.<br>20 119.60 586.0 -0.30 1. | 5 584.4 -321.5                 | 338.4 119.16<br>262.9 119.30 | 1,684.9 255.7<br>1,695.1 211.5     | 114.4 360.              | ) 1,695.1<br>) 1,704.6 | 119.30 120.0<br>119.43 120.0 | 65.1 1.1<br>65.1 1.1 | 14 63.8      | 0.920 175.<br>0.920 176.   | 4,226             |
| 21 119.68 525.2 -0.25 1<br>22 119.75 447.2 -0.18 1   | 7 445.5 -221.1                 | 252.1 119.43<br>224.4 119.57 | 1,704.6 153.3<br>1,714.8 101,9     | 45.4 360.<br>0.0 224.   | 1,733.9                | 119.57 120.0<br>119.83 74.8  | 65.3 1.1<br>40.8 0.7 | 33 40.3      | 0.919 176.<br>0.879 106.   | 2,551             |
| 23 119.83 400.1 0.00 1.<br>24 119.90 376.6 0.05 1.   |                                | 338.6 119.71<br>263.8 119.85 | 1,725.1 42.4<br>1,735.4 8.1        | 21,0 360.<br>0.0 263.   | 1,745.0                | 119.85 120.0<br>119.98 87.9  | 65.7 1.1<br>48.2 0.8 | 32 47.4      | 0.919 177.<br>0.910 129.0  | 3,110             |
| 25 119.98 376.6 0.00 1.<br>26 120.05 356.8 0.00 1.   | 7 374.9 -60.0                  | 314.9 119.99<br>286.4 120.13 | 1 745.7 -68.5<br>1 756.1 -120.0    | 0.0 314.<br>0.0 286.    | 1,750.2                | 120.05 105.0<br>120.13 95.5  | 57.6 0.9<br>52.5 0.8 |              | 0.927 157.4                |                   |
| 27 120.13 459.6 0.00 1.                              | 7 457.9 -60.2                  | 360.0 120.27<br>360.0 120.41 | 1,766.5 -144.0                     | 0.0 360.<br>0.0 350.    | 1,764.6                | 120.24 120.0<br>120.35 120.0 | 66.1 1.1<br>65.2 1.1 | 33 64.7      | 0,918 178.                 | 4,279             |
| 29 120.28 1050.4 0.07 1.1                            | 7 1048.7 0.0<br>7 1128.1 225.6 | 360.0 120.55<br>360.0 120.69 | 1 787.4 395.9<br>1 798.0 646.6     | 395.9 360.              | 1,798.0<br>1,808.5     | 120,69 120.0<br>120,83 120.0 | 66.5 1.1<br>66.7 1.1 | 41 65.1      | 0.917 179.2                | 4,301             |
| 31 120.43 795.2 0.40 1.                              | 793.5 287.1                    | 360.0 120.83                 |                                    | 310.8 360.<br>73.9 311. | 1,819.1                | 120.97 120.0                 | 66.9 1.1             |              | 0.915 180.0                |                   |
| 465.0 1.0  | ,                              |                              |                                    |                         | ·.                     |                              |                      |              |                            |                   |

### Table 7.2.9 (2/4)Çatalan Dam Daily Reservoir Operation<br/>(With System, Flow in 1988)

|             | <b>D</b> 1.           |                |              |            | 2-6            | n                | Inf.1+         | 56111              | Seni               |                    | 6-11           |                | Den Vert           | RWL               |                | Power        |                | Power        |                  |                        |                  |
|-------------|-----------------------|----------------|--------------|------------|----------------|------------------|----------------|--------------------|--------------------|--------------------|----------------|----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|------------------|------------------------|------------------|
|             | Rule<br>At beg.       | Inflow         |              | Evp.       | Inf<br>Evp.    | Recv.<br>RC      | Qi+<br>RC      | FSHL.              | FSHL<br>Vol.       | Qsp<br>FSHL        | Spill          | HP             | Rsv.Vot            | Arend             | <u> </u>       | Puwer        | Loss           |              | Sala P           | 0%61                   | Energy.          |
| 1           | 1988 (Ілге.<br>120.50 | 652.9          | 0.47         | 2.3        | 650.6          | 253.3            | 360.0          | 120.97             | 1,819.1            | 177.2              | 177.2          | 360.0          | 1,828.9            | 121.10            | 120.0          | 67.1         | 1.153          | 65.7         | 0.915            | 180.4                  | 4,330            |
| 2<br>3      | 120.68<br>120.77      | 592.)<br>564.8 | 0.42<br>0.47 | 2.3<br>2.3 | 589.8<br>562.5 | 288.9<br>333.6   | 360.0<br>360.0 | 121.10<br>121.24   | 1,828.9<br>1,839.6 | 106.0<br>78.7      | 106.0<br>78.7  | 360.0<br>360.0 | 1,839.6<br>1,850.3 | 121.24<br>121.38  | 120.0<br>120.0 | 67.2<br>67.4 | 1.154<br>1.158 | 65.9<br>66.0 | 0.914<br>0.914   | 180.6<br>181.1         | 4,334<br>4,346   |
| 4<br>5      | 120.86<br>120.95      | 560.0<br>514.8 | 0.52         | 2.3<br>2.3 | 557.7<br>512.5 | 378.5<br>423.7   | 360.0<br>360.0 | 121.38<br>121.52   | 1,850.3<br>1,861.0 | 73.9<br>28.7       | 73.9<br>28.7   | 360.0<br>360.0 | 1,861.0<br>1,871.7 | 121.52<br>121.66  | 120.0<br>120.0 | 67.6<br>67.7 | 1.162<br>1.164 | 66.2<br>66.4 | 0.914<br>0.913   | 181.5<br>181.8         | 4,356<br>4,363   |
| 6           | 121.04                | 503.0          | 0.62         | 2.3        | 500.7          | 469.0            | 360.0<br>360.0 | 121.66<br>121.80   | 1,871.7            | 15.7<br>71.5       | 15.7<br>71.5   | 360.0<br>360.0 | 1,882.5<br>1,893.4 | 121.80<br>121.94  | 120.0<br>120.0 | 67.9<br>68.1 | 1.168          | 66.5<br>66.7 | 0.913<br>0.912   | 182.2<br>182.4         | 4,373<br>4,378   |
| 7<br>8      | 121.13<br>121.22      | 560.0<br>675.1 | 0.67<br>0.72 | 2.3        | 557.7<br>672.8 | 514.7<br>560.5   | 360.0          | 121.94             | 1.893.4            | 187.8              | 187.8          | 360.0          | 1,904.2            | 122.08            | 120.0          | 68.2         | 1.174          | 66.8         | 0.912            | 182.9                  | 4,390            |
| 9<br>10     | 121.31<br>121.40      | 664.0<br>647.9 | 0.77         | 2.3<br>2.4 | 661.7<br>645.5 | 606.6<br>652.9   |                | 122.08             | 1,904.2<br>1,915.1 | 175.5<br>159.3     | 175.5<br>159.3 | 360.0<br>360,0 | 1,915.1<br>1,926.0 | 122.22<br>122.36  | 120.0<br>120.0 | 68.4<br>68.5 | 1.178          | 67.0<br>67.2 | 0.911<br>0.911   | 183.1<br>183.6         | 4,394<br>4,406   |
| 11<br>12    | 121.49<br>121.58      | 686.3<br>686.3 | 0.87<br>0.92 | 2.4<br>2.4 | 683.9<br>683.9 | 699.5<br>746.3   | 360.0<br>360.0 | 122.36<br>122.50   | 1,926.0<br>1,937.0 | 196.6<br>205.8     | 196.6<br>205.8 | 360.0<br>360.0 | 1,937.0<br>1,947.2 | 122.50<br>122.63  | 120.0<br>120.0 | 68.7<br>68.9 | 1.184<br>1.188 | 67.3<br>67.5 | 0.910<br>0.910   | 183.8<br>184.2         | 4 411<br>4 421   |
| 13          | 121.67                | 728.3          | 0.96         | 2,4        | 725.9<br>713.6 | 784.2            | 360.0<br>360.0 | 122.63<br>122.77   | 1,947.2            | 238.6<br>225.1     | 238.6<br>225.1 | 360.0<br>360.0 | 1,958.2<br>1,969.3 | 122.77<br>122.91  | 120.0<br>120.0 | 69.0<br>69.2 | 1.190<br>1.194 | 67.6<br>67.8 | 0.909            | 184.4<br>184.9         | 4,426<br>4,438   |
| 14<br>15    | 121.76<br>121.85      | 716.0<br>728.3 | 1.01<br>1.06 | 2.4<br>2.4 | 725.9          | 870.0            | 360.0          | 122.91             | 1,969.3            | 237.4              | 237.4          | 360.0          | 1,980.4            | 123.05            | 120.0          | 69.4         | 1.198          | 68.0         | 0.908            | 185.1                  | 4 442            |
| 16<br>17    | 121.95<br>122.04      | 733.4<br>770.5 | 1.10<br>1.15 | 2.4        | 731.0<br>768.1 | 917.7<br>965.6   | 360.0<br>360.0 | 123.05<br>123.19   | 1,980.4<br>1,991.5 | 242.5<br>278.5     | 242.5<br>278.5 | 360.0<br>360.0 | 1,991.5<br>2,002.7 | 123.19<br>123.33  | 120.0<br>120.0 | 69.5<br>69.7 | 1.200<br>1.204 | 68.1<br>68.3 | 0.907<br>0.907   | 185.3<br>185.8         | 4,447<br>4,459   |
| 18<br>19    | 122.13<br>122.22      | 745.7<br>641.6 | 1.20         | 2.4<br>2.4 | 743.3<br>639.2 | 1013.8<br>1062.2 | 360.0<br>360.0 | 123.33<br>123.47   | 2,002.7<br>2,013.9 | 253.7<br>149.6     | 253.7<br>149.6 | 360.0<br>360.0 | 2,013.9<br>2,025.1 | 123.47<br>123.61  | 120.0<br>120.0 | 69.9<br>70.0 | 1.208<br>1.210 | 68,4<br>68,6 | 0,906<br>0,906   | 186.0<br>186.4         | 4,464<br>4,474   |
| 20          | 122.31                | 597.1          | 1.30         | 2.4        | 594.7<br>650.5 | 1110.8<br>1159.7 | 360.0<br>360.0 | 123.61             | 2.025.1<br>2,036.4 | 103.9              | 103.9<br>159.7 | 360.0<br>360.0 | 2,036.4            | 123.75<br>123.89  | 120.0<br>120.0 | 70.2<br>70.3 | 1.215          | 68.8<br>68.9 | 0.905            | 186.7<br>186.9         | 4,481<br>4,486   |
| 21<br>22    | 122.40<br>122.49      | 652.9<br>692.5 | 1.35<br>1.40 | 2.4<br>2.4 | 690.1          | 1208.8           | 360.0          | 123.89             | 2 047.7            | 198.2              | 198.2          | 360.0          | 2,059.1            | 124.03            | 120.0          | 70.5         | 1.221          | 69.1         | 0,904            | 187.3                  | 4,495            |
| 23<br>24    | 122.58<br>122.67      | 620.6<br>586.7 | 1.45<br>1.50 | 2.4<br>2.4 | 618.2<br>584.3 | 1258.1<br>1307.7 | 360.0<br>360.0 | 124.03<br>124.17   | 2,059.1<br>2,070.4 | 127.4<br>101.6     | 127.4<br>101.6 | 360.0<br>360.0 | 2,070.4<br>2,081.0 | 124.17<br>124.30  | 120.0<br>120.0 | 70,7<br>70,8 | 1.225          | 69.2<br>69.4 | 0.903<br>0.903   | 187.6<br>188.0         | 4,502<br>4,512   |
| 25<br>26    | 122.76<br>122.85      | 641.6<br>537.6 | 1.54<br>1.59 | 2.4        | 639.2<br>535.2 | 1348.1<br>1398.1 | 360.0<br>360.0 | 124.30<br>124.44   | 2,081.0            | 146.1<br>43.3      | 146.1<br>43.3  | 360.0<br>360.0 | 2,092.5<br>2,103.9 | 124.44<br>124.58  | 120.0<br>120.0 | 71.0<br>71.2 | 1.231<br>1.235 | 69.5<br>69.7 | 0.902<br>0.901 · | 188.2<br>188.4         | 4,517<br>4,522   |
| 27          | 122.94<br>123.03      | 529.0<br>546.3 | 1.64         | 2.4<br>2.5 | 526.6<br>543.8 | 1448.4<br>1498.9 | 360.0<br>360.0 | 124.58<br>124,72   | 2,103.9            | 32.3<br>50.7       | 32.3<br>50.7   | 360.0<br>360.0 | 2,115.5            | 124.72<br>124.86  | 120.0<br>120.0 | 71.3<br>71.5 | 1.237<br>1.241 | 69.9<br>70.0 | 0.900<br>0.900   | 188.6<br>189.1         | 4,526<br>4,538   |
| 28<br>29    | 123.12                | 551.3          | 1.74         | 2.5        | 548.8          | 1549.6           | 360.0          | 124.86             | 2,127.0            | 54.5               | 54.5           | 360.0          | 2,138.6            | 125.00            | 120.0          | 71.7         | 1.245          | 70.2         | 0.899            | 189.3                  | 4,543            |
| 30          | 123.21                | 573.6<br>630.0 | 1.79         | 2.5<br>2.4 | 571.1          | 1600.6           | 360.0          | 125.00             | 2,138.6            | 211.1              | 211.1<br>144.4 | 360.0<br>360.0 | 2,138.6            | 125.00            | 120.0          | 71.7         | 1.245          | 70,3         | 0.899            | 189.5                  | 4,548<br>133,322 |
| May.        | 1988(brig             | .=11.7 m)      | 3/5)         |            |                |                  |                |                    |                    | :                  |                |                |                    |                   |                |              |                |              |                  |                        |                  |
| 1 2         | 123.30<br>123.41      | 602.0<br>554.9 | 1,70<br>1.59 | 3.6<br>3.6 | 598.4<br>551.3 | 1498.8<br>1452.4 | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | 238,4<br>191.3     | 238,4<br>191,3 | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00  | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0,899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 3           | 123.46                | \$20.3         | 1.54         | 3.6        | 516.7          | 1406.0.          | 360.0          | 125.00             | 2,138.6            | 156.7<br>130.7     | 156.7<br>130.7 | 360.0<br>360.0 | 2,138.6            | 125.00<br>125.00  | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 4<br>5      | 123.51<br>123.57      | 494.3<br>468.2 | 1.49<br>1.43 | 3.6<br>3.6 | 490.7<br>464.6 | 1350.3<br>1303.8 | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | 104.6              | 104.6          | 360.0          | 2,138.6            | 125.00            | 120.0          | 71.7         | 1.245          | 70.3         | 0.899            | 189.5                  | 4,548            |
| 6           | 123.62<br>123.67      | 447.2<br>433.6 | 1.38<br>1.33 | 3.6<br>3.7 | 443.6<br>429.9 | 1257.2<br>1201.3 | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | 83.6<br>69.9       | 83.6<br>69.9   | 360.0<br>360.0 | 2,138.6<br>2,138.6 | -125.00<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 8           | 123.73<br>123.78      | 438.5<br>433.6 | 1.27<br>1.22 | 3.7<br>3.7 | 434.8<br>429.9 | 1154.6<br>1107.9 | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | 74.8<br>69.9       | 74.8<br>69.9   | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00  | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 10          | 123.83                | 403.8          | 1.17         | 3.7        | 405.1          | 1061.1           | 360.0          | 125.00<br>125.00   | 2,138.6            | 45.1<br>36.4       | 45.1<br>36.4   | 360.0<br>360.0 | 2,138.6            | 125.00<br>125.00  | 120.0<br>120.0 | 71.7<br>71.7 | 1.245          | 70.3<br>70.3 | 0.899            | 189.5<br>189.5         | 4,548<br>4,548   |
| 11<br>12    | 123.88<br>123.94      | 400.1<br>384.0 | 1.12         | 3.7<br>3.7 | 380.3          | 1004.9<br>958.1  | 360.0          | 125.00             | 2,138.6            | 20.3               | 20.3           | 360.0          | 2,138.6            | 125.00            | 120.0          | 71.7         | 1.245          | 70.3         | 0.899            | 189.5                  | 4,548            |
| 13<br>14    | 123.99<br>124.04      | 368.0<br>371.6 | 1.01<br>0.96 | 3.7<br>3.7 | 364.3<br>367.9 | 911.1<br>854.7   | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | 4.3<br>7.9         | 4.3<br>7.9     | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00            | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 15<br>16    | 124.10<br>124.15      | 364.2<br>355.5 | 0.90<br>0.85 | 3.7<br>3.7 | 360.5<br>351.8 | 807.7<br>760.6   | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | 0.5<br>-8.2        | 0.0            | 360.0<br>360.0 | 2,138.6<br>2,137.9 | 125.00<br>124.99  | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 17          | 124.20                | 348.1          | 0.79         | 3.7        | 344.4<br>340.7 | 694.4<br>637.6   | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6            | -23.7<br>-42.4     | 0.0<br>0.0     | 360.0<br>360.0 | 2,136.6<br>2,134.9 | 124.98<br>124.96  | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.2 | 0.899<br>0.899   | 189.5<br>189.4         | 4,548<br>4,546   |
| 18<br>19    | 124.26<br>124.31      | 344.4<br>340.7 | 0.65         | 3,7        | 337.0          | 571.2            | 360.0          | 125.00             | 2,138.6            | -65.8              | 0.0            | 360.0          | 2,132.9            | 124.93            | 120.0          | 71.7         | 1.245          | 70.2         | 0.899            | 189.3                  | 4,543            |
| 20<br>21    | 124.36<br>124.42      | 332.0<br>317.1 | 0.57<br>0.48 | 3.7<br>3.7 | 328.3<br>313.4 | 485.7<br>409.6   | 360.0<br>360.0 | 125.00 .<br>125.00 | 2,138.6<br>2,138.6 | -97.7<br>-143.8    | 0.0<br>0.0     | 360.0<br>360.0 | 2,130.2<br>2,126.2 | 124.90<br>124.85  | 120.0<br>120.0 | 71.6<br>71.6 | 1.243<br>1.243 | 70.2<br>70.1 | 0.899<br>0.900   | 189.3<br>189.3         | 4,543<br>4,543   |
| 22<br>23    | 124.47<br>124.52      | 317.1<br>313.4 | 0.38<br>0.28 | 3.7<br>3.7 | 313.4<br>309.7 | 314.3<br>209.6   | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | -190.1<br>-240.1   | 0.0<br>0.0     | 360.0<br>360.0 | 2,122.2<br>2,117.9 | 124.80<br>124.75  | 120.0<br>120.0 | 71.5<br>71.5 | 1.241<br>1.241 | 70.1<br>70.0 | 0.900<br>0.900   | 189.2<br>189.0         | 4,541<br>4,536   |
| 24          | 124.58                | 324.6          | 0.17         | 3.7        | 320.9          | 114.3            | 360.0          | 125.00             | 2,138.6            | -278.7             | 0.0<br>0.0     | 360.0<br>328.4 | 2,114.5            | 124.71<br>124.68  | 120.0<br>109.5 | 71.4<br>65.1 | 1.239          | 70.0<br>63.9 | 0.900<br>0.920   | 188.9<br>176.4         | 4,534<br>4,234   |
| 25<br>26    | 124.63<br>124.68      | 303.5<br>852.6 | 0.08<br>0.00 | 3.7<br>3.7 | 299.8<br>848.9 | 28.6<br>-47.6    | 328.4<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | -307.5<br>181.0    | 181.0          | 360.0          | 2,138.6            | 125.00            | 120.0          | 71.5         | 1.241          | 70.1         | 0.900            | 189.2                  | 4,541            |
| 27<br>28    | 124.73<br>124.79      | 442.2<br>433.6 | 0.27         | 3.8<br>3.8 | 438.4<br>429.8 | 200.9<br>153.2   | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | 78,4<br>69,8       | 78.4<br>69.8   | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00  | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 29<br>30    | 124.84<br>124.89      | 408.8<br>376.6 | 0.16         | 3.8<br>3.8 | 405.0<br>372.8 | 105.4            | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | 45.0<br>12.8       | 45.0<br>12.8   | 360.0<br>360.0 | 2.138.6<br>2.138.6 | 125.00<br>125.00  | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 31          | 124.95                | 360.5          | 0.05         | 3.8        | 356.7          | 0.0              |                | 125.00             | 2,138.6            | 0.0                | 0.0<br>52.3    | 356.7<br>358.9 | 2,138.6            | 125.00            | 118.9          | 71.1         | 1.233          | 69.6         | 0.902            | 188.5                  | 4,524<br>140,593 |
| _           |                       | 414.8          |              | 3.7        |                |                  |                |                    |                    |                    | 32.3           | 339.7          |                    |                   |                |              |                |              |                  |                        | 170,000          |
| Jun. 1<br>1 | 938 (ing.=<br>125.00  | 344,4          | 0.00         | 4.7        | 339.7          | 114.9            |                | 125.00             | 2,138.6            | -20.3              | 0.0            |                | 2,136.8            | 124.98            | 120.0          | 71.7         | 1.245          | 70.3         | 0.899            | 189.5                  | 4,548            |
| 2<br>3      | 124.88<br>124.82      | 320.9<br>307.2 | 0.10         | 47         | 316.2<br>302.5 | 153.1<br>162.5   | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | -64.6<br>-122.3    | 0.0<br>0.0     | 360.0<br>360.0 | 2,133.0<br>2,128.0 | 124.93<br>124.87  | 120.0<br>120.0 | 71.7<br>71.6 | 1.245<br>1.243 | 70.2<br>70.2 | 0.899<br>0.899   | 189.4<br>189.2         | 4,546<br>4,541   |
| 4<br>5      | 124.76<br>124.70      | 296.1<br>282.5 |              | 4.7<br>4.7 | 291.4<br>277.8 | 162.3<br>152.5   | 360.0<br>360.0 | 125.00<br>125.00   | 2,138.6<br>2,138.6 | -191.3<br>-273.2   | 0.0<br>0.0     | 360.0<br>360.0 | 2,122.1<br>2,115.0 | 124.80<br>124.71  | 120.0<br>120.0 | 71.5<br>71.4 | 1.241<br>1.239 | 70.1<br>79.0 | 0.900<br>0.900   | 189.2<br>189.0         | 4,541<br>4,536   |
| 6           | 124.64                | 265.1          | 0.07         | 4.7        | 260.4          | 123.7            | 360.0          | 125.00             | 2,138.6            | -372.7             | 0.0            | 360.0          | 2,105.4            | 124.61<br>124.53  | 120.0<br>107.2 | 71.3<br>63.6 | 1.237          | 69.9         | 0.900            | 188.7                  | 4,529            |
| 7           | 124.58<br>124.53      | 250.2<br>236.0 | 0.03         | 4.7<br>4.7 | 245.5<br>231.3 | 76.0<br>56.9     | 288.2          | 125.00<br>125.00   | 2,138.6<br>2,138.6 | -448.7<br>-506.0   | 0.0<br>0.0     | 321.5<br>288.2 | 2,099.8<br>2,094.9 | 124.47            | 96.1           | 57.0         | 1.086<br>0.969 | 62.5<br>56.1 | 0.922<br>0.926   | 172.8<br>155.7         | 3,737            |
| 9<br>10     | 124,47<br>124,41      | 225.5<br>213.7 | 0.00<br>0.00 | 4.7<br>4.7 | 220.8<br>209.0 | 56.8<br>56.8     |                | 125.00<br>125.00   | 2,138.6            | -562.6<br>-619.3   | 0.0<br>0.0     | 277.6<br>265.8 | 2,090.0            | 124.41<br>124.35  | 92.5<br>88.6   | 54.8<br>52.4 | 0.933<br>0.895 | 53.9<br>51.6 | 0.925<br>0.921   | 149.7<br>142.7         | 3,593<br>3,425   |
| ្រា         | 124.35<br>124.29      | 216.8<br>213.7 | 0.00<br>0.00 | 4.6<br>4.6 | 212.2<br>209.1 | 56.7<br>56.6     | 268.9          | 125.00<br>125.00   | 2,138.6<br>2,138.6 | -675.9<br>-732.5   | 0.0<br>0.0     | 268.9<br>265.7 | 2,080.2<br>2,075.3 | 124.29<br>124.23  | 89.6<br>88.6   | 53.0<br>52.3 | 0.904<br>0.893 | 52.2<br>51.5 | 0.922<br>0.921   | 144.4<br>142.4         | 3,466<br>3,418   |
| 12<br>13    | 124.23                | 222.9          | 0.00         | 4.6        | 218.3          | 56.6             | 274.9          | 125.00             | 2,138.6            | -789.2             | 0.0            | 274.9          | 2,070.4 2,065.5    | 124.17            | 91.6<br>94.9   | 54.0<br>55.9 | 0.920          | 53.2<br>55.0 | 0.924<br>0.926   | 147.6<br>152.9         | 3,542<br>3,670   |
| 14<br>15    | 124.17<br>124.11      | 232.8<br>236.0 | 0.00<br>0.00 | 4.6<br>4.6 | 228.2<br>231.4 | 56.5<br>56.4     | 287.8          | 125.00<br>125.00   | 2,138.6<br>2,138.6 | -845.9<br>-902.5   | 0.0<br>0.0     | 284.7<br>287.8 | 2,060.6            | 124.05            | 95.9           | 56.5         | 0.961          | 55.6         | 0.926            | 154.4                  | 3,706            |
| 16<br>17    | 124.05<br>123.99      | 232.8<br>225.5 | 0.00         | 4.6<br>4.6 | 228.2<br>220.9 | 56.3<br>56.3     | 284.5          | 125.00             | 2,138.6<br>2,138.6 | -959.1<br>-1015.8  | 0.0<br>0.0     | 284.5<br>277.2 | 2,055.7<br>2,050.8 | 123.99<br>123.93  | 54.8<br>92.4   | 55.8<br>54.3 | 0.949<br>0.925 | 54.9<br>53.5 | 0.926<br>0.924   | 152.5<br>148.2         | 3,660<br>3,557   |
| 18<br>19    | 123.93<br>123.87      | 209.4<br>220.5 | 0.00<br>0.00 | 4.6<br>4.6 | 204.8<br>215.9 | 56.2<br>56.1     | 261.0          | 125.00<br>125.00   | 2,138.6            | -1072.4            | 0.0<br>0.0     | 261.0<br>272.0 | 2,045.9<br>2,041.1 | 123.87<br>123.81  | 87.0<br>90.7   | 51.1<br>53.2 | 0.875<br>0.907 | 50.3<br>52.4 | 0.918<br>0.923   | 138.6<br>145.0         | 3,326<br>3,480   |
| 20          | 123.81                | 265.1          | 0.00         | 4.6        | 260.5          | 56.0             | 316.5          | 125.00             | 2,138.6            | 1184.5             | 0.0            | 316.5          | 2,036.3            | 123.75            | 105.5          | 61.8         | 1.053          | 60.7         | 0.925            | 168.5                  | 4 044            |
| 21<br>22    | 123.75<br>123.69      | 277.5<br>270.7 | 0.00<br>0.00 | 4.6<br>4.6 | 272.9<br>266.1 | 56.0<br>55.9     | 322.0          | 125.00<br>125.00   | 2,138.6<br>2,138.6 | -1295.5            | 0.0<br>0.0     | 328.9<br>322.0 | 2,031.5<br>2,026.7 | 123.69<br>123.63  | 109.6<br>107.3 | 64.1<br>62.7 | 1.095<br>1.069 | 63.0<br>61.6 | 0.921<br>0.924   | 174.0<br>170.8         | 4,176<br>4,099   |
| 23<br>24    | 123.63<br>123.58      | 257.7<br>251.4 | 0.00         | 4.6<br>4.6 | 253.1<br>246.8 | 46.5<br>55.8     |                | 125.00<br>125.00   | 2,138.6            |                    | 0,0<br>0.0     | 299.6<br>302.6 | 2,022.7<br>2,017.9 | 123.58<br>123.52  | 99.9<br>109.9  | 58.4<br>58.9 | 0.993          | 57.4<br>57.9 | 0.927<br>0.927   | 159.5<br>161.0         | 3,828<br>3,864   |
| - 25        | 123.52                | 242.7          | 0.00         | 4.6        | 238.1          | 55.7             | 293.8          | 125,00             | 2,138.6<br>2,138.6 | -1452.7            | 0.0<br>0.0     | 293.8<br>275.4 | 2,013.1 2,008.3    | 123.46<br>123.40  | 97.9<br>91.8   | 57.1<br>53.5 | 0.971<br>0.912 | 56.1<br>52.6 | 0.926            | 156.0<br>145.8         | 3,744<br>3,499   |
| 26<br>27    | 123.46<br>123.40      | 224.3<br>219.8 | 0.00<br>0.00 | 4.5<br>4.5 | 219.8<br>215.3 | 55.6<br>55.5     | 270.8          | 125.00<br>125.00   | 2,138.6            | 1563.6             | 0.0            | 270.8          | 2,003.5            | 123.34            | 90.3           | 52.5         | 0.896          | 51.7         | 0.921            | 142.9                  | 3,430            |
| 28<br>29    | 123.34<br>123.28      | 211.8<br>209.4 | 0.00<br>0.00 | 4.5        | 207.3<br>204.9 | 55.5<br>55.4     | 262.8<br>260.3 | 125.00<br>125.00   | 2,138.6            | -1619.2<br>-1674.6 | 0.0<br>0,0     | 262.8<br>260.3 | 1,998,7<br>1,993,9 | 123.28<br>123.22  | 87.6<br>86,8   | 50.9<br>50.4 | 0.872          | 50.2<br>49.7 | 0.918<br>0.917   | 138. <b>2</b><br>136.6 | 3,317<br>3,278   |
| 30          | 123.22                | 204.3<br>246.2 | 0.00         | 4.5<br>4.6 | 199.8          | 110.5            |                | 125.00             | 2,138.6            |                    | 0.0<br>0,0     | 310.3<br>301.1 | 1,984.4            | 123.10            | 103,4          | 59.9         | 1.019          | 58.9         | 0.926            | 163.7                  | 3,929<br>115,176 |
|             | · ·                   |                |              |            |                |                  |                |                    |                    |                    | -              |                |                    |                   |                |              |                |              |                  |                        |                  |

#### Table 7.2.9 (3/4)Çatalan Dam Daily Reservoir Operation<br/>(With System, Flow in 1988)

|            |                             |                |              |            |                 |               | laf.1+         |                  |                    |                    |            |                |                    |                  |                    |               |                |                |                 |              |                 |
|------------|-----------------------------|----------------|--------------|------------|-----------------|---------------|----------------|------------------|--------------------|--------------------|------------|----------------|--------------------|------------------|--------------------|---------------|----------------|----------------|-----------------|--------------|-----------------|
|            | Rulo                        |                | IL-RC        |            | Inf             | Recv.<br>RC   | Qi+<br>RC      | FSHL             | FSHL<br>Vol.       | Qsp<br>FSHL        | Spill      | 616            | Rsv.Vol            | RWL<br>At end    | Q                  | Puwer         | 1.055          | Power          | lata P          | ower         | Energy          |
| Ĵ          | At beg.<br>al. 1988 (Itrig. | =70.9 m3/      |              | ivp.       | Evp.            |               | ,              |                  | 5 - 5              |                    |            |                |                    |                  |                    |               |                |                | 0.887           | 111.3        | 2,671           |
| 1 2        | 123.10                      | 197.0<br>197.0 |              | 5.1<br>5.1 | 191.9<br>191.9  | 27.6          | 219.5<br>210.3 | 125.00           |                    | -1812.3<br>-1830.9 | 0.0        | 219.5          | 1,982.0<br>1,980.4 | 123.07<br>123.05 | 73.2<br>70.1       | 42.4<br>40.6  | 0.753          | 41.8<br>40.1   | 0.8877          | 105.4        | 2,530           |
| 3          | 123.05                      | 192.0          | 0.00         | 5.1        | 186.9           | 9.2           | 196.1          | 125,00           | 2,138.6            | -1840.2            | 0.0        | 196.1          | 1,979.6            | 123.04           | 65.4               | 37.8          | 0,697          | 37.4           | 0.861           | 96.5<br>97.6 | 2,316 2,342     |
| 4          | 123.04<br>123.02            | 184.5<br>180.9 |              | 5.1<br>5.1 | 179.4<br>175.8  | 18.4<br>9.2   | 197.8<br>185.0 | 125.00<br>125.00 | 2,138.6            |                    | 0.0<br>6.0 | 197.8<br>185.0 | 1,978.0            | 123.02<br>123.01 | 65.9<br>92.5       | 38.1<br>53.5  | 0,701<br>0.912 | 37.7<br>52.7   | 0.863           | 97.2         | 2,333           |
| 6          | 123.01                      | 168.5          | 0.00         | 5.1        | 163.4           | 18.4          | 181.8          | 125.00           | 2,138.6            | -1886.5            | 0.0        | 181.8          | 1,975.6            | 122.99           | 90.9               | 52.6          | 0.898          | 51.8           | 0.922           | 95.4         | 2,290           |
| 7          | 122.99<br>122.98            | 162.3<br>159.8 |              | 5.1<br>5.1 | 157.2<br>.154.7 | 9.2<br>18.3   | 166.4<br>173.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 166.4<br>173.0 | 1,974.8<br>1,973.2 | 122.98           | *3.2<br>865        | 48.1          | 0.830<br>0.858 | 47.4           | 0.910<br>0.916  | 86.3<br>90.2 | 2,071<br>2,165  |
| 8<br>9     |                             | 158.6          |              | 5.1        | 153.5           | 18.3          | 171.8          | 125.00           | 2,138.6            | -1932.7            | 0.0        | 171.8          | 1,971.6            | 122.94           | 85.9               | 49.6          | 0.852          | 48.9           | 0.915           | 89.5         | 2,148           |
| 10         |                             | 156.0          |              | 5.1        | 150.9           | 9.2<br>18.3   | 160.1<br>162.6 | 125.00           | 2,135.6<br>2,138.6 |                    | 0.0<br>0.0 | 160.1          | 1.970.8            | 122.93<br>122.91 | : 80.1<br>81.3     | 46.3<br>46.9  | 0.805          | 45.6<br>46.3   | 0.904           | 82.4<br>83.9 | 1,978<br>2,014  |
| 1          |                             | 149.4<br>149.4 |              | 5.1<br>5.1 | 144.3<br>144.3  | 9.2           | 153.5          | 125,00           | 2,138.6            |                    | 0.0        | 153.5          | 1,968.4            | 122.90           | 76.8               | 44.3          | 0.778          | 43.7           | 0.896           | 78.3         | 1,879           |
| ľ.         | 122.90                      | 158.6          |              | 5.1        | 153.5           | 18.3          | 171.8<br>162.8 | 125.00           | 2,138.6            |                    | 0.0        | 171.8<br>162.8 | 1,966.B<br>1,966.0 | 122.88           | 85.9<br>81.4       | 49.6<br>47.0  | 0.852<br>0.815 | 48.9<br>46.3   | 0.915<br>0.906  | 89.4<br>83.9 | 2,146           |
| 14         |                             | 158.6<br>156.0 |              | 5.0<br>5.0 | .153,6<br>151,0 | 9.2<br>18.3   | 162.8          | 125.00           | 2,138.6            | -2016.0            | 0,0        | 169.3          | 1,964.4            | 122.85           | 84,7               | .48.9         | 0.842          | 48.2           | 0.913           | \$7.9        | 2,110           |
| 14         | 6 122.85                    | 153.6          |              | 5.0        | 148.6<br>144.9  | 18.3<br>9.1   | 166.9<br>154.0 | 125.00<br>125.00 | 2,138.6            |                    | 0.0<br>0.0 | 166.9          | 1,962.8<br>1,963.0 | 122.83<br>122.82 | 83.5<br>77.0       | 48.1<br>44.4  | 0.830<br>0.779 | 47.5           | 0.911<br>0.896  | 86.4<br>78.5 | 2,074<br>1,884  |
| 1<br>1     |                             | 149.9<br>147.4 |              | 5.0<br>5.0 | 142.4           | 18.3          | 160.7          | 125.00           | 2,138.6            |                    | 0.0        | 160.7          | 1,960.4            | 122.80           | 80,4               | 46.3          | 0.805          | 45.7           | 0.904           | 82.6         | 1,982           |
| 1          |                             | 143.7          |              | 5.0        | 138.7           | 9.1           | 147,8<br>155,8 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0        | 147.8          | 1,959.6<br>1,958.0 | 122.79           | 73.9<br>.77.9      | 42.6<br>44.9  | 0.756          | 42,0<br>44,3   | 0.888<br>0.899  | 74.7<br>79.6 | 1,793           |
| 2          |                             | 142.5<br>138.8 |              | 5.0<br>5.0 | 137.5<br>133.8  | 18.3          | 142.9          | 125.00           | 2,138.6            |                    | 0.0        | 142.9          | 1,957.2            | 122,76           | 71.5               | 41.2          | 0.738          | 40.7           | 0.881           | 71.6         | 1,718           |
| 2          |                             | 140.0          |              | 5.0        | 135.0           | 18.3          | 153.3<br>146.6 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 153.3          | 1,955.6<br>1,954.8 | 122.74           | . 76.7<br>: 73.3   | 44.2<br>42.2  | 0.777          | 43.6           | 0.895<br>0.886  | 78.0<br>73.8 | 1,872<br>1,771  |
| 2<br>2     |                             | 142.5<br>142.5 |              | 5.0<br>5.0 | 137.5<br>137.5  | 9.1<br>18.2   | 155.7          | 125.00           | 2,138.6            |                    | 0.0        | 155.7          | 1,953.2            | 122.71           | 77.9               | 44.8          | 0.785          | 44.2           | 0.898           | 79.4         | 1,906           |
| . 2        | 5 122.71                    | 142.5          |              | 5.0        | 137.5           | 18.2          |                | 125.00           | 2,138.6            |                    | 0.0<br>0.0 | 155.7<br>144.1 | 1,951.6<br>1,950.8 | 122.69           | 77.9               | 44.8<br>[4].5 | 0.785<br>0.742 | 44.2<br>40.9   | 0.898<br>0,882  | 79,4<br>72,2 | 1,906<br>1,733  |
| 20<br>2    |                             | 140.0<br>140.0 |              | 5.0<br>5.0 | 135.0<br>135.0  | 9.1<br>18.2   | 144.1<br>153.2 | 125.00<br>125.00 | 2,138.6            |                    | 0.0        | 153.2          | 1,949.2            | 122.66           | 76.6               | 44 U          | 0.774          | 43.5           | 0.895           | 77.8         | 1,867           |
| 25         | 8 122.66                    | 193.9          | 0.00         | 5.0        | 185.9           | 9.1           | 198.0          | 125.00           | 2,138.6            |                    | 0.0        | 198.0          | 1 948.4            | 122.65           | 66.D               | 37.9          | 0.699          | 37.5.<br>43.9  | 0.861<br>0.897  | 96.8<br>78.8 | 2,323<br>1,891  |
| 2          |                             | 141.8<br>138,2 |              | 5.0<br>5.0 | 136.8<br>133.2  | 18.2.<br>0.0  | 155.0<br>133.2 | 125.00           | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 155.0<br>133.2 | 1,946.8<br>1,946.8 | 122.62<br>122.62 | 715<br>66.6        | 44.5<br>38.3  | 0.781<br>0.703 | 37.8           | 0.863           | 65,2         | 1,565           |
| 3          |                             | 138.2          | 0.00         | 5.0        | 133.2           | 18.2          |                | 125.00           | 2,138.6            |                    | 0.0        | 151.4          | 1,945.2            | 122.60           | 75,7               | 43.5          | 0.767          | 42.9           | 0.892           | 76.6         | 1,838<br>63,040 |
|            |                             | 156.9          |              | 5.0        |                 |               |                |                  |                    |                    | 0.0        | 165.3          |                    |                  |                    |               |                |                |                 |              | 03,040          |
|            | ug. 1988 (Imig              |                |              |            |                 |               |                |                  | • • • • • •        |                    |            |                | 1047               | 100.00           | -                  |               | 0 767          | <i>4</i> 2 Y   | 0.000           | 74 4         | 1 70*           |
| 1 2        | 122.60                      | 135.0<br>132.6 |              | 4.6<br>4.6 | 130.4<br>128.0  | 18.2<br>18.2  | 148.6<br>146.2 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 148,6          | 1,943.6<br>1,942.0 | 122.58           | 743                | 42.7<br>42,0  | 0.757<br>0.748 | 42.1<br>41.4   | 0.888<br>0.885  | 74.8<br>73.3 | 1,795<br>1,759  |
| 3          | 122.56                      | 136.2          | 0.00         | 4.6        | 131.6           | 9.1           | 140.7          | 125.00           | 2,138.6            | -2284.6            | 0.0        | 140.7          | 1,941.2            | 122.55           | 70,4               | 40.4          | 0.728          | 39.9           | 0.876           | 69.8         | 1,675           |
| 4          | 122.55                      | 136.2          |              | 4.6        | 131.6<br>130.4  | 9.1<br>9.1    | 140.7<br>139.5 | 125.00           | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 140.7<br>139.5 | 1,940,4<br>1,939.6 | 122.54           | 70.4<br>69.8       | 40.4          | 0.725          | 39.9<br>39.5   | 0.876<br>0.874  | 69.8<br>69.1 | 1,675<br>1,658  |
| 6          | 122.53                      | 135.0          | 0.00         | 4.6        | 130.4           | 18.2          | 148.6          | 125.00           | 2,138.6            | -2321.4            | 0.0        | 148.6          | 1,938.0            | 122.51           | 74.3               | 42.6          | 0,156          | 42.1           | 0.888           | 74,7<br>69.0 | 1,793           |
| 7          | 122.51                      | 135.0<br>132.6 |              | 4.6<br>4.6 | 130.4<br>128.0  | 9.1<br>9.1    | 139.5          | 125.00<br>125.00 | 2,138.6            | -2330.9<br>-2340.1 | 0.0        | 139.5          | 1,937.2            | 122,50<br>122,49 | 698<br>686         | 49.0<br>39.3  | 0.723          | 39.5<br>35.8   | 0.874<br>0.870  | 67.5         | 1,656<br>1,620  |
| 9          | 122.49                      | 132.6          | 0.00         | 4.6        | 128.0           | 9.1           | 137.1          | 125.00           | 2,138.6            | -2349.4            | 0.0        | 137.1          | 1,935.6            | 122.48           | 68.6               | 39.3          | 0.715          | 38.8           | 0.870           | 67.5<br>72.3 | 1,620<br>1,735  |
| 10         |                             | 131.3<br>128.9 |              | 4.6<br>4.6 | 126.7<br>124.3  | 18.1<br>9.1   | 144.8          | 125.00<br>125.00 | 2,138.6            |                    | 0.0        | 144.8<br>133.4 | 1,934.0<br>1,933.2 | 122.46           | 72.4<br>66.7       | 41.5<br>38.2  | 0.742<br>0.702 | 41.0<br>37.8   | 0.882<br>0.863  | 65.2         | 1,565           |
| 1          | 122.45                      | 128.9          |              | 4.6        | 124.3           | . 9.1         | 133.4          | 125.00           | 2,138.6            | -2386.4            | 0.0        | 133.4          | 1,932.4            | 122.44           | 66.7               | 38.2          | 0.702          | 37.7           | 0.863           | 65.1         | 1,562           |
| 1'<br>1'   |                             | 127.5<br>127.5 |              | 4.6<br>4.6 | 122.9<br>122.9  | 9.1           | 132.0<br>141.0 | 125.00           | 2,138.6            |                    | 0.0<br>0.0 | 132.0<br>141.0 | 1.931.6<br>1.930.0 | 122.43           | 66.0<br>70.5       | 37.8<br>40.4  | 0.697<br>0.728 | 37.3           | 0.860<br>0.876  | 64.2<br>69.8 | 1,54)<br>1,675  |
| i          |                             | 127.5          |              | 4.6        | 122.9           | 9.1           | 132.0          | 125.00           | 2,138.6            | -2423.5            | 0.0        | 132.0          | 1,929.2            | 122.40           | 66.0               | 37.8          | 0.697          | 37.3           | 0.860           | 64.2         | 1,541           |
| 1          |                             | 127.5          |              | 4.6<br>4.6 | 122.9<br>122.9  | 9.1<br>9.1    | 132.0<br>132.0 | 125.00           | 2,138.6            | -2432.7<br>-2442.0 | 0.0<br>0.0 | 132.0<br>132.0 | 1,928.4            | 122.39           | 0,66<br>0,66       | 37.8<br>37.8  | 0.697          | 37.3<br>37.3   | 0.860           | 64.2<br>64.2 | 1,541<br>1,541  |
| 1'<br>1    |                             | 125.1          |              | 4.6        | 120.5           | 18.1          | 138.6          | 125.00           |                    |                    | 0.0        | .138.6         | 1,926.0            | 122.36           | 693                | 39.6          | 0.719          | 39.2           | 0.872           | 68.3         | 1,639           |
| 19         |                             | 125.1          |              | 4.6        | 120.5           | 9.0<br>9.0    | 129.5<br>128.3 | 125.00<br>125.00 | 2,138.6            |                    | 0.0<br>0.0 | 129.5<br>128.3 | 1,925.2<br>1,924.4 | 122.35           | 64.8<br>64.2       | 37.1          | 0.690<br>0.685 | - 36.6<br>36.3 | 0.855<br>0.853  | 62,6<br>61.8 | 1,502           |
| 2          |                             | 123.9          |              | 4.6<br>4.6 | 119.3<br>119.3  | 9.0<br>9.0    |                | 125.00           | 2,138.6            |                    | 9.0        | 128.3          | 1,923.6            | 122.33           | 64,2               | 36,7          | 0.685          | 36.3           | 0.853           | 61.8         | 1,493           |
| 2          |                             | 122.1          |              | 4.6        | 117.5           | . 18.1        |                | 125.00           | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 135.6<br>126.5 | 1,922.0<br>1,921.2 | 122.31<br>122.30 | 67,8<br>633        | 38.8<br>36.2  | 0.709          | 38.3<br>35.7   | 0.867<br>0.849  | 66,4<br>60.7 | 1,594<br>1,457  |
| Z<br>V     |                             | 122.1<br>120.8 |              | 4.6<br>4.6 | 117.5<br>116.2  | 9.0<br>9.0    | 126.5          | 125.00           |                    | -2525.2            | 0.0        | 125.2          | 1,920.4            | 122.29           | 62.6               | 35.8          | 0.675          | 35.3           | 0.846           | 59.8         | 1,435           |
| 2          |                             | 120.8          |              | 4.6        | 116.2           | 9.0           | 125.2<br>134.3 | 125.00           | 2,138.6            |                    | 0.0<br>0.0 | 125.2<br>134.3 | 1,919.6<br>1,918.0 | 122.28           | 62.6<br>67.2       | 35.8<br>38.4  | 0.675          | 35.3<br>37.9   | 0.846<br>0.864  | 59.8<br>65.5 | 1,435<br>1,572  |
| 2          |                             | 120.8<br>120.8 |              | 4.6<br>4.6 | 116.2<br>116.2  | - 18.1<br>9.0 |                | 125.00           | 2,138.6            |                    | 0.0        | 125.2          | 1,917.2            | 122.25           | 62.6               | 35.7          | 0.674          | 35.3           | 0.846           | 59.8         | 1,435           |
| 22         |                             | 117.5          |              | 4.6        | 112.9           | 9.0           | 121.9          | 125.00           | 2,138.6            |                    | 0.0        | 121.9<br>120.4 | 1,916.4<br>1,915.6 | 122.24<br>122.23 | 61.0<br>60.2       | 34.8<br>34.4  | 0.664<br>0.660 | 34.4<br>34.0   | 0.840<br>0.816  | 57.8<br>56.8 | 1,387<br>1,363  |
| 29<br>30   |                             | 116.0<br>116.0 |              | 4.6<br>4.6 | 111.4<br>111.4  | 9.0<br>18.0   |                | 125.00           |                    | -2580.8<br>-2599.0 | 0.0        | 129.4          | 1,914.0            | 122.21           | 64.7               | 36.9          | 0.687          | 36.5           | 0.855           | 62.4         | 1,498           |
| 31         | 122.21                      | 116.0          |              |            | 111.4           | 9.0           | 120.4          | 125.00           | 2,138.6            | -2608.5            | 0.0        | 120.4          | 1,913.2            | 122.20           | 60.2               | 34.3          | 0.659          | 33.9           | 0,836           | 56.8         | 1,353<br>48,598 |
|            |                             | 126.7          |              | 4.6        |                 |               |                | ÷.               |                    |                    | 0.0        | 133.8          |                    |                  |                    |               | ·              |                | · .             |              |                 |
|            | p. 1988 (Inrig.<br>122.20   |                |              | 14         | . 112.4         | 54.1          | 144.4          | 125.00           | 2,138.6            | 3452.0             | 0.0        | 166.5          | 1,908.5            | 122.14           | 83.3               | 47.5          | 0.822          | 46.8           | 0.908           | 85.0         | 2,040           |
| 1          | 122.14                      | 116.0          | 0.00<br>0.00 |            | )112.4<br>112.4 | 27.0          |                | 125.00           | 2,138.6            |                    | 0.0        | 139.4          | 1,996.2            | 122.11           | 69.7               | 39.7          | 0.720          | 39.2           | 0.872           | 68.4         | 1,642           |
| 3          |                             | 116.0          |              | 3.6        | 112.4           | 27.0          |                | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 139.4<br>139.4 | 1,903.9<br>1,901.6 | 122.08           | 69.7<br>69.7       | 39.7<br>39.7  | 0.720          | 39.2<br>39.2   | 0.872           | 68.3<br>68.3 | 1,639           |
| 4          | 122.08                      | 116.0<br>117.5 |              | 3.6<br>3.6 | 112.4<br>113.9  | 27.0<br>18.0  | 133.4          | 125.00           | 2,138.6            |                    | 0.0        | 131.9          | 1,990.0            | 122.03           | 66,0               | 37.5          | 0.694          | 37.1           | 0.859           | 63.7         | 1,529           |
| 6          |                             | 117.5          | 0.00         | 3.6        | 113.9           | 26.9          |                | 125.00           | 2,138.6            |                    | 0.0        | 140.8          | 1,897.7            | 122.00<br>121.97 | 70.4<br>70.4       | 40.0<br>40.0  | 0.723          | 39.5<br>39.5   | 0.874<br>0.874  | 69.1<br>69.1 | 1,658           |
| 7          | 122.00                      | 117.5          |              | 3.6<br>3.6 | 113.9           | 26.9<br>26.9  |                | 125.00           | 2,138.6            |                    | 0.0        | 140.8<br>145.7 | 1,895.4<br>1,893.1 | 121.97           | 72.9               | 40.0          | 0.741          | 40.9           | 0.882           | 72.1         | 1,730           |
| 9          | 121.94                      | 187.1          | 0.00         | 3.6        | 183.5           | 26.9          | 210.4          | 125.00           |                    |                    | 0,0        | 210.4          | 1,890.8            | 121.91           | 70,1<br>78,0       | 39.8          | 0.721          | 39.3<br>43.7   | 0.873           | 103.0        | 2,472           |
| 10         |                             | 132.6          | 0.00<br>0.00 | 3.6<br>3.6 | 129.0<br>127.7  | 26.9<br>26.8  | 155.9<br>154.5 | 125.00           | 2,138.6            |                    | 0.0        | 155.9<br>154.5 | 1,888.5<br>1,886.2 | 121.88           | 773                | 44.3<br>43.8  | 0.778<br>0.771 | 43.3           | 0.874           | 77.3         | 1,855           |
| 13         | 2 121.85                    | 128.9          | 0.00         | 3.6        | 125.3           | 26.8          | 152.1          |                  | 2,138.6            |                    | 0.0        | 152.1          | 1,883.9            | 121.82           | 76.1               | 43.1          | 0.762          | 42.6<br>42.2   | 0.891<br>0.859  | 75.8<br>74.9 | 1,819<br>1,798  |
| 14         |                             | 127.5<br>125.1 | 0.00<br>0.00 | 3.6        | 123.9           | 26.8<br>26.8  | 150.7<br>148.3 | 125.00           | 2,138.6            |                    | 0.0<br>0.0 | 150.7<br>148.3 | 1,881.6            | 121.79           | 75.4<br>74.2       | 42.7<br>42.0  | 0.757          | 41.5           | 0.885           | 73.3         | 1,759           |
| 12         | 5 121.76                    | 123.9          | 0.00         | 3.6        | 120.3           | 17.8          | 138.1          |                  | 2,138.6            | -3019.0            | 0.0        | 138.1          | 1,577.8            | 121.74           | 69.1<br>72.0       | 39.1          | 0.713          | 38.6<br>40.2   | 0.869<br>0.878  | 67.1<br>79.6 | 1,610<br>1,694  |
| - 10<br>10 |                             | 120.8          | 0.00         |            | 117.2<br>113.9  | 26.8<br>26.7  | 144.0<br>140.6 | 125.00           | 2,138.6            |                    | 0.0        | 144.0<br>140.6 | 1,875.5            | 121.71           | 703                | 40.7          | 0.732<br>0.720 | 39.3           | 0.873           | 68.5         | 1,644           |
| 18         | 121,68                      | 113.7          | 0.00         | 3.6        | 110.1           | 26.7          | 136.8          | 125.00           | 2,138.6            | -3098.5            | 0,0        | 136.8          | 1,870.9            | 121.65           | 68,4               | 38.7          | 0.708          | 38.2<br>37.9   | 0.866<br>0.864  | 66.1<br>65.5 | 1,586           |
| 19<br>20   |                             | 112.7          |              |            | 109.1           | 26,7<br>26,7  | 135.8<br>134.3 | 125.00           | 2,138.6            |                    | 0.0<br>0.0 | 135.8<br>134.3 | 1,868.6<br>1,866.3 | 121.62           | 67.9               | 38,4<br>37.9  | 0.704          | 37.5           | 0.861           | 64.5         | 1,548           |
| 21         | 121.59                      | 111.2          | 0.00         | 3.6        | 107.6           | 26.7          | 134.3          | 125.00           | 2,138.6            | 3178.3             | 0.0        | 134.3          | 1,864.0            | 121.56           | 67.2               | 37.9          | 0.699          | 37.5           | 0.861<br>0.858  | 64.5<br>63.4 | 1,548           |
| 2          |                             | 109.7          |              | 3.6        | 106.1           | 26.6<br>26.6  | 132.7          | 125.00<br>125.00 | 2,138.6            |                    | 0.0        | 132.7<br>134.2 | 1,861.7<br>1,859.4 | 121.53           | 66,4<br>67,1       | 37.4<br>37.8  | 0.693<br>0.697 | 37.0<br>37.4   | 0,858           | 64.3         | 1,543           |
| 2          | 121.50                      | 131.3          | 0.00         | 3.6        | 127.7           | 26.6          | 154.3          | 125,00           | 2,138.6            | 3258.1             | 0.0        | 154,3          | 1,857.1            | 121.47           | 772                | 43.5          | 0.767          | 62.9           | 0.892           | 76.5         | 1,836           |
| 2:<br>20   |                             | 127.5<br>120.6 |              | 3.6<br>3.6 | 123.9<br>117.2  | 17.7          | 141.6<br>143.8 | 125,00           | 2,138.6<br>2,138.6 |                    | 0.0<br>6.0 | 141.6<br>143.8 | 1.855.6<br>1.853.3 | 121.45           | - 70.8<br>- 71.9 - | 39,9<br>40.5  | 0.722<br>0.730 | 39.4<br>40.0   | 0.87.)<br>0.877 | 68,7<br>70.1 | 1,649           |
| 27         | 121.42                      | 117.5          | 0.00         | 3,5 ்      | 114.0           | 26.6          | 140.6          | 125.00           | 2,138.6            | -3328.7            | 0.0        | 140.6          | 1,851.0            | 121.39           | 703                | 39.5          | 0.717          | 39.1           | 0.872           | 68,1         | 1,634           |
| 28<br>29   |                             | 117.5          |              | 3.5<br>3.5 | 114.0<br>112.5  | 26.5<br>26.5  | 140.5<br>139.0 | 125.00<br>125.00 | 2,138.6            |                    | 0.0        | 140.5          | 1,843.7<br>1,846.4 | 121.36<br>121.33 | 70.3               | 39.5<br>39.1  | 0.717          | 39.0<br>38.6   | 0.871<br>0.869  | 67.9<br>67.0 | 1,630<br>1,608  |
| 30         |                             | 116.0          | 0.00         | 3.5        | 112.5           | 26.5          |                | 125.00           | 2,138.6            |                    | 0.0        | 139.6          | 1,844.1            | 121.30           | 695                | 39.0          | 0.711          | 38,6           | 0,869           | 67.0         | 1,608           |
|            |                             | 121.7          |              | 3.6        |                 |               |                |                  |                    |                    | 0.0        | 144.8          | :<br>:             | •                |                    |               |                |                | 1.1             |              | 51,029          |
|            |                             |                |              |            |                 |               |                |                  |                    |                    |            |                |                    |                  |                    |               |                |                |                 |              |                 |

#### Table 7.2.9 (4/4) Çatalan Dam Daily Reservoir Operation (With System, Flow in 1988)

|             |                       |                    |                |            |                |                |                     |                  | . `                 |                    |              |                |                    | :                 |                        |              |                        |               |                 |                |                 |
|-------------|-----------------------|--------------------|----------------|------------|----------------|----------------|---------------------|------------------|---------------------|--------------------|--------------|----------------|--------------------|-------------------|------------------------|--------------|------------------------|---------------|-----------------|----------------|-----------------|
|             | ,<br>Rulo<br>Atbeg.   | Тоцож              |                | Evp.       | lof<br>Evp.    | Recv.<br>RC    | Lnf.1+<br>Qt+<br>RC | FSHL             | FSHL<br>Vol.        | Qsp<br>ISHL        | Spill        | HP             | Rsv.Vot            | RWL<br>At end     | Q                      | Power        | Loss                   | Power         | Rata            | Power          | Freergy         |
| 0a.1        | 988 (Irrig.<br>121.30 | =6.3 m3/:<br>116.0 | s)<br>0.00     | 2.4        | 113.6          | 79.4           | 193.0               | 125.00           | 2,138.6             | 3353.7             | 0.0          | 193.0          | 1,837.2            | 121.21            | 96.5                   | 54.1         | 0.921                  | 53.3          | 0.924           | 98.5           | 2,364           |
| 2           | 121.21                | 116.0              | 0.00           | 2.4        | 113,6          | 35.2           | 148.8               | 124,86           | 2,127.0             | -3256.3            | 0.0          | 148.8          | 1,834.2            | 121.17            | 74.4                   | 41.7         | 0.744                  | 41.2          | 0.884           | 72,8           | 1,747           |
| 3           | 121.17<br>121.13      | 116.0<br>116.0     | 0.00<br>0.00   | 2.4        | 113.6<br>113.6 | 35.2<br>44.0   | 148.8<br>157.6      | 124.72<br>124.57 | 2,115.5<br>2,103.1  | -3147.5<br>-3057.9 | 0.0<br>0.0   | 148.8<br>157.6 | 1,831.2<br>1,827.4 | 121.13<br>121.08  | 74,4<br>78.8           | 41.7<br>44.1 | 0.744<br>0.775         | 41.1<br>43.5  | 0.883           | 72.6<br>77.9   | 1,742           |
| 5           | 121.08                | 116.0              | 0.00           | 2.4        | 113.6          | 35.1           | 148.7               | 124,43           | 2,091.6             | 2961.0             | 0.0          | 148.7          | 1,824.4            | 121.04            | 74.4                   | 41.6         | 0.743                  | 41.1          | 0.683           | 72.5           | 1,740           |
| 6<br>7      | 121.04<br>120.99      | 116.0<br>116.0     | 0.00           | 2.4<br>2.4 | 113.6          | 43.9<br>35.1   | 157.5<br>148.7      | 124.29<br>124.15 | 2,080,2<br>2,068.8  | 2872.6<br>2766.6   | 0.0<br>0.0   | 157.5<br>148.7 | 1,820,6<br>1,817.6 | 120.99<br>120.95  | 78,8<br>74,4           | 44.0<br>41.5 | 0.774<br>0.742         | 43.4<br>41.0  | 0.894<br>0.882  | 77.6<br>72.3   | 1,862<br>1,735  |
| 8           | 120.95                | 116.0              | 0.00           | 2.4        | 113.6          | 35.0           |                     | 124.00           | 2,056.6             | -2670.4            | 0.0          | 148.6          | 1,814.6            | 120.91            | 743                    | 41.5         | 0.742                  | 40.9          | 0.882           | 72.2           | 1,733           |
| 9<br>10     | 120.91<br>120.86      | 116.0<br>128.9     | 00.0<br>00.0   | 2.4<br>2.4 | 113.6<br>126.5 | 43.7<br>34.9   | 157.3<br>161.4      | 123.86<br>123.72 | 2,045.3<br>2,034.0  | 2583.1<br>2487.4   | 0.0<br>• 0.0 | 157.3<br>161.4 | 1,810.8<br>1,807.8 | 120.86<br>120.82  | 78.7<br>80,7           | 43.9<br>45.0 | 0.773<br>0.787         | 43.3<br>44.3  | 0.894<br>0.899  | 77.3<br>79.7   | 1,855<br>1,913  |
| 11<br>12    | 120.82<br>120.78      | 131.3<br>132.6     | 0.00<br>0.00   | 2.4<br>2.4 | 128.9<br>130.2 | 34.9<br>43.6   | 163.8<br>173.8      | 123.58<br>123.44 | 2,022.7             | -2392.5<br>-2297.1 | 0.0<br>0.0   | 163.8<br>173.8 | 1,804,8<br>1,801.0 | 120.78<br>120.73  | 81.9<br>86.9           | 45.6<br>48.3 | 0.795<br>0.833         | 45.0<br>47.6  | 0.901           | 81.0<br>86.3   | 1,944<br>2,083  |
| 13          | 120.73                | 125.1              | 0.00           | 2.4        | 122.7          | 34.8           | 157.5               | 123.29           | 1,999.5             | -2202.6            | 0.0          | 157.5          | 1,798.0            | 120.69            | 78.8                   | 43.8         | 0.771                  | 43.2          | 0.894           | 77.2           | 1,853           |
| 14<br>15    | 120.69<br>120.64      | 129.0<br>120.8     | 0.00           | 2.4<br>2.4 | 126.6<br>118.4 | - 43,5<br>34,8 | 170.1<br>153.2      | 123.15<br>123.01 | 1,988.3<br>1,977.2  | -2117.6            | 0.0<br>0.0   | 170.1<br>153.2 | 1,794.2<br>1,791.2 | 120.64<br>120.60  | 85.1<br>76.6           | 47.3         | 0.819<br>0.755         | 46.6<br>41.9  | 0.908<br>0.887  | 84.5<br>74.4   | 2,028           |
| 16          | 120.60                | 122.4              | 0.00           | 2.4        | 120.0          | 34.7           | 154.7               | 122.87           | 1,966.1             | -1922.4            | 0.0          | 154.7          | 1,788.2            | 120.56            | · 17A                  | 42.9         | 0.760                  | 42.3          | 0.889           | 75.2           | 1,805           |
| 17          | 120.56<br>120.51      | 123.9<br>142.5     | 0.00           | 2.4<br>2.4 | 121.5          | 43,4<br>34,7   | 164.9<br>174.8      | 122.72<br>122.58 | 1,954.3<br>1,943.3  |                    | 0.0<br>0.0   | 164.9<br>174.8 | 1,784.5<br>1,781.5 | 120.51<br>120.47  | 82.5<br>87.4           | 45.7<br>48.4 | 0.797<br>0.835         | 45.1<br>47.7  | 0.902<br>0.911  | 81.2<br>86.9   | 1,949<br>2,086  |
| 19          | 120.47                | 156.0              | 0.00           | 2.4        | 153.6          | 34.6           | 188.2               | 122.44           | 1,932.3             | -1652.7            | 0.0          | 188.2          | 1,778.5            | 120.43            | 94.1                   | 52.1         | 0.890                  | 51.2          | 0.920           | 94.3           | 2,263           |
| 20<br>21    | 120.43<br>120.38      | 138,8<br>135.0     | 0.00<br>0,00   | 2.4<br>2.4 | 136.4<br>132.6 | 43.2<br>34.6   | 179.6<br>167.2      | 122.30<br>122.16 | 1,921.3             | -1569.8<br>-1469.8 | 0.0<br>0.0   | 179.6<br>167,2 | 1,774.8<br>1,771.8 | 120.38<br>120.34  | 89.8<br>83.6           | 49.6<br>46.2 | 0.852<br>0.804         | 48.9<br>45.5  | 0.915<br>0.903  | \$9.5<br>82.2  | 2,148           |
| 22          | 120.34                | 128.9              | 0.00           | 2.3        | 126.6          | 43.1           | 169.7               | 122.01           | 1,898.8             | 1386.9             | 0.0          | 169.7          | 1,768.1            | 120.29            | 84.9                   | 46.9         | 0.813                  | 46.2          | 0.906           | 83.6           | 2,006           |
| 23<br>24    | 120.29                | 125.1              | 0.00           | 2.3<br>2.3 | 122.8          | 34.5<br>34.4   | 157.3<br>152.9      | 121.87           | 1,887.9<br>1,877.1  | -1296.1<br>-1206.9 | 0.0<br>0.0   | 157.3<br>152.9 | 1,765.1<br>1,762.1 | 120.25<br>120.21  | 78.7<br>76.5           | 43.4<br>42.2 | 0.766<br>0.751         | 42.8<br>41.6  | 0.892           | 76.3<br>73.7   | 1,831           |
| 25          | 120.21                | 119.2              | 0.00           | 2.3        | 116.9          | 43.0           | 159.9               | 121.59           | 1,866.4             | -1117.1            | 0.0          | 159.9          | 1,758.4            | 120.16            | 80.0                   | 44.0         | 0.774                  | 43.4          | 0.894           | 27.6           | 1,862           |
| 26<br>27    | 120.16<br>120.12      | 122.4              | 0.00<br>0.00   | 2.3<br>2.3 | 120.1<br>121.6 | 34,4<br>34,3   | 154.5<br>155.9      | 121.44<br>121.30 | 1.854.9<br>1.844.2  | -1027.5<br>-938.2  | 0.0<br>0.0   | 154.5<br>155.9 | 1,755.4<br>1,752.4 | 120.12<br>120.08  | 272<br>0,87            | 42.5<br>42.9 | 0.7 <b>55</b><br>0.760 | 42.0<br>42.3  | 0.888<br>0.889  | 74.5<br>75.2   | 1,788           |
| 28          | 120.08                | 127.5              | 0.00           | 2.3        | 125.2<br>285.1 | 42.9           | 168.1<br>319.4      | 121.16<br>121.02 | 1,833.5             | -858.9<br>-770.4   | 0.0          | 168.1<br>319.4 | 1,748.7<br>1,745.7 | 120.03<br>119.99  | 84.)<br>106.5          | 46.2<br>58.5 | 0.804<br>0.994         | 45.5<br>57.4  | 0.9ti3<br>0.927 | 82.2<br>159.6  | 1,973<br>3,830  |
| 29<br>30    | 120.03<br>119.99      | 287.4<br>133.9     | 0.00<br>0.00   | 2.3<br>2.3 | 131.6          | 34,3<br>42,8   | 174.4               | 120.88           | 1,822.9<br>1,812.3  | -682.8             | 0,0          | 174.4          | 1,742.0            | 119.94            | 87.2                   | 47.8         | 0.826                  | 47.1          | 0.909           | 85.7           | 2,057           |
| 31          | 119.94                | 153.6<br>131.4     | 0,00           | 2.3<br>2.4 | 151.3          | 34,2           | 185.5               | 120.73           | 1,801.0             | -594.4             | 0.0<br>0.0   | 185.5<br>168.3 | 1,739.0            | 119.90            | 92.8                   | \$0.9        | 0.872                  | 50.1          | 0.918           | 91.9           | 2,206<br>61,606 |
|             | ÷                     | 171.4              |                |            | ÷.,            |                | · ·                 |                  | 1                   |                    |              | 100.0          |                    |                   |                        |              |                        |               |                 |                | 01,000          |
| Nov. 1<br>1 | 988<br>119.90         | 143.7              | 0.60           | 13         | 142.4          | 102.4          | 244.8               | 120.59           | 1,790.4             | -576.9             | 0.0          | 244.8          | 1,730.2            | 119.78            | \$1.6                  | 44,7         | 0.783                  | 44.0          | 0.897           | 118.5          | 2,844           |
| 2           | 119.78                | 153.6              | 0.00           | 1.3        | 152.3          | 42.6           | 194.9               | 120.45           | 1,780.0             | -497.5             | 0,0          | 194.9          | 1,726.5            | 119.73            | 97.5                   | 53.3         | 0.909                  | 52.4          | 0.923           | 96,7           | 2 321           |
| 3.          | 119.73<br>119.67      | 184.5<br>173.4     | 0.00           | 1.3<br>1.3 | 183.2<br>172.1 | 51.0           | 234.2<br>223.0      | 120.31<br>120.16 | 1,769.5             | -419.1<br>-350.7   | 0.0<br>0.0   | 234.2<br>223.0 | 1,722.1<br>1,717.7 | 119.67<br>119.61  | 78.)<br>74.3           | 42.6<br>40.5 | 0.756<br>0.739         | 42.1<br>40.0  | 0.888<br>0.877  | 112.0          | 2,688<br>2,525  |
| 5           | 119.61                | 158.6              | 0,00           | 1.3        | 157.3          | 50,9           | 208.2               | 120.02           | 1,748.0             | -281.2             | 0.0          | 208.2          | 1,713.3            | 119.55            | 69.4                   | 37.8         | 0.697                  | 37.3          | 0.860           | 96.3           | 2,311           |
| 6<br>7      | 119.55<br>119.49      | 162.3<br>359.3     | 0.00           | 13         | 161.0<br>358.0 | 50.8<br>42.3   | 211.8<br>360.0      | 119.88<br>119.74 | 1,737.6<br>1,727.3  | -212.8<br>-95.7    | 0.0<br>0.0   | 211.8<br>360.0 | 1,708.9<br>1,708.7 | 119.49            | 70.6<br>120.0          | 38,4<br>65,3 | 0.704<br>1.118         | 37.9<br>63.9  | 0.864<br>0.920  | 98.3<br>176.5  | 2,359<br>4,236  |
| 8           | 119.44                | 381.0              | 0.05           | 1.3        | 379.7          | 92.9           | 360.0               | 119.60           | 1,717.0             | \$1.0              | 51.0         | 360.0          | 1,706.0            | 119.45            | 120.0                  | 65.2         | 1.116                  | 63.9          | 0.920           | 176.4          | 4,234           |
| 9<br>10     | 119.38<br>119.31      | 265.1<br>216.8     | 0.07<br>0.00   | 13<br>13   | 263.8<br>215.5 | 118.1<br>117.7 | 360.0<br>333.2      | 119.45<br>119.31 | 1,706.0             | 21.9<br>-0.8       | 21.9<br>0.0  | 360.0<br>333.2 | 1,695.8<br>1,685.6 | 119.31<br>119.17  | 120.0<br>111.1         | 65.1<br>60.1 | 1.114<br>1.022         | 63.8<br>59.0  | 0.920<br>0.926  | 176.1<br>163.9 | 4,226<br>3,934  |
| 11          | 119.17                | 180.9              | 0.00           | 1.3        | 179.6          | 117.3          | 296.9               | 119.17           | 1,685.7             | -0.4               | 0.0          | 296.9          | 1,675.5            | 119.03            | \$9.0                  | 53.5         | 0.912                  | 52.6          | 0.923           | 145.5          | 3,492           |
| 12<br>13    | 119.03<br>118.88      | 171.0<br>154.7     | 0.00 .<br>0.00 | 1.3<br>1.3 | 169.7<br>153.4 | 125,2<br>116,5 | 294.5<br>269.9      | 119.03<br>118.88 | 1,675.5<br>1,664.7  | -0.2<br>-0.8       | 0.0<br>0.0   | 294.9<br>269.9 | 1,664.7<br>1,654.6 | 118.88<br>118.74  | 98.3<br>90.0           | 52.9<br>48.3 | 0.902<br>0.833         | 52.)<br>47.6  | 0.922<br>0.911  | 144.0<br>130.1 | 3,456<br>3,122  |
| 14          | 118.74                | 147.4              | 0.00           | 1.3        | 146.1          | 116.1          | 262.2               | 118.74           | 1 654 7             | -0.4               | 0.0          | 262.2          | 1,644.6<br>1,644.6 | 118.60<br>118.60  | 87.4<br>71.2           | 46.8<br>38.1 | 0.812<br>0.701         | 46.1<br>37.6  | 0.906<br>0.862  | 125,4<br>64,8  | 3,010           |
| 15<br>16    | 118.60<br>118.60      | 143.7<br>147.4     | 0.00           | 1.3        | 142.4<br>146.1 | 0.0<br>0,0     | 142.4<br>146.1      | 118.60<br>118.60 | 1,644.6<br>1,644.6  | 0.0                | 0.0          | 142.4<br>146.1 | 1,644.6            | 118.60            | 73.1                   | 39.i         | 0.713                  | 38.6          | 0.869           | 67.0           | 1,555<br>1,608  |
| 17<br>18    | 118,60<br>118,60      | 178.4<br>206.9     | 0.00<br>0.00   | 1.3<br>1.3 | 177.1<br>205.6 | 6.0<br>6.0     |                     | 118.60<br>118.60 | 1,644.6<br>1,644.6  | 0.0<br>0.0         | 0.0<br>0.0   | 177.1<br>205.6 | 1,644.6<br>1,644.6 | 118.60<br>118.60  | не.6<br>102.8          | 47.4<br>55.0 | 0.820<br>0.936         | 46.7<br>54.1  | 0.908<br>0.925  | 84.8<br>109.0  | 2,035<br>2,400  |
| 19          | 118.60                | 178.4              | 0.00           | 1.3        | 177.1          | 0.0            | 177.1               | 118.60           | 1,644.6             | 0.0                | 0.0          | 177.1          | 1,644.6            | 118.60            | <b>\$8.6</b>           | 47.4         | 0.820                  | 46.7          | 0.908           | 84.8           | 2,035           |
| 20<br>21    | 118.60<br>118.60      | 162.3<br>158.6     | 0.00           | 1.3        | 161.0<br>157.3 | 0.0<br>0.0     | 161.0               | 118.60<br>118.60 | 1,644.6<br>1,644.6  | 0.0<br>0.0         | 0.0<br>0.0   | 161.0<br>157.3 | 1,644.6<br>1,644.6 | 118.60<br>118.60  | - 80 <u>.5</u><br>78.7 | 43.1<br>42.1 | 0.762<br>0.749         | 42.5<br>41.5  | 0.890<br>0.885  | 75.6<br>73.5   | 1,814<br>1,764  |
| 22          | 118.60                | 153.6              | 0.00           | 1.3        | 152.3          | 33.1           | 185.4               | 118.60           | 1.644.6             | -33.1              | 0.0          | 185.4          | 1,641.7            | 118.56            | 92.7                   | 49.6         | 0.852                  | 45.8          | 0.915           | 89.3           | 2,143           |
| 23<br>24    | 118.56                | 153.6<br>153,6     | 0.00<br>0.00   | 1.3<br>1.3 | 152.3<br>152.3 | 41,3<br>49,5   | 193.6<br>201.8      | 118.60<br>118.60 | 1,644.6<br>1,644.6  | -74.9<br>-124.7    | 0.0<br>0.0   | 193.6<br>201.8 | 1,638.1<br>1,633.8 | 118.51<br>118.45  | \$6.8<br>100.9         | 51.7<br>53.9 | 0.884<br>0.918         | 50.9<br>53.0  | 0.920<br>0.924  | 93.6<br>97.9   | 2,246<br>2,350  |
| 25          | 118.45                | 151.1              | 0.00           | -1.3       | 149.8          | 49.4           | 199.2               | 118.60           | 1,644.6             | -174.4             | 0.0          | 199.2          | 1,629.5            | 118.39            | 99.6                   | 53.1         | 0.906                  | 52.2          | 0.922           | 96.3           | 2,311           |
| 26<br>27    | 118.39<br>118.33      | 149.9<br>149.9     | 0.00<br>0.00   | 1.3<br>1.3 | 148.6<br>145.6 | 49.4<br>49.3   | 198.0<br>197.9      | 118.60<br>118.60 | 1,644.6             | -224.2<br>-273.8   | 0.0<br>0.0   | 198.0<br>197.9 | 1,625.2            | 118.33<br>118.27  | 99.0<br>99.0           | 52.7<br>52.7 | 0.899<br>0.899         | 51.9<br>51.8  | 0.922<br>0.922  | 95.6<br>95.5   | 2,294<br>2,292  |
| 28          | 118.27                | 151.1              | 0.00           | 1.3        | 149.8          | 41.0           | 190.8               | 118.60           | 1,644.6             | -315.3             | 0.0          | 190.8          | 1,617.4            | 118.22            | 95.4                   | 50.7         | 0.869                  | 49.9          | 0.918           | 91.6<br>1/2 0  | 2,198           |
| 29<br>30    | 118.22<br>118.16      | 147.4<br>146.1     | 0.00           | 1.3<br>1.3 | 146.1<br>144.8 | 49.2<br>49.1   | 195.3<br>193.9      | 118.60<br>118.60 | 1,644.6<br>1,644.6  | -364.0<br>-413.7   | 0,0<br>0,9   | 195.3<br>193.9 | 1,613.1<br>1,608.9 | 118.16<br>118.10  | 97,7<br>97,0           | 51.9<br>51.5 | 0.857<br>0.881         | 51.0<br>50,6  | 0.920<br>0.919  | 93.9<br>93.0   | 2,254<br>2,232  |
|             |                       | 179.5              |                | 13         |                |                |                     |                  |                     |                    | 2.4          | 225.9          |                    |                   |                        |              |                        |               |                 |                | 78,289          |
| Dec. 1      |                       |                    |                |            |                |                |                     |                  |                     |                    |              |                |                    |                   |                        |              |                        |               |                 |                |                 |
| 1           | 118.10<br>117.91      | 143.7<br>143.7     | 0.00<br>0.00   | 0.8<br>0.8 | 142.9<br>142.9 | 154.9<br>81.2  | 297.8<br>224.1      | 118.60<br>118.60 | 1,644,6<br>1,644,6  | -568.1<br>-649.5   | 0,0<br>0.0   | 297.8<br>224.1 | 1.595.5<br>1.588.5 | 117.91<br>117.81  | 99.3<br>74,7           | 52.6<br>39.4 | 0.898<br>0.716         | 51.7<br>38.9  | 0.921<br>0.870  | 142.7<br>101.5 | 3,425<br>2,436  |
| 3           | 117.81                | 143.7              | 0.00           | 0.8        | 142.9          | 81.0           | 223.9               | 118.60           | 1,644.6             | -730.3             | 0.0          | 223.9          | 1,581.5            | 117.71            | 74.6                   | 39.3         | 0.715                  | 38.8          | 0.870           | 101.3          | 2,431           |
| 4           | 117.71<br>117.62      | 146.1<br>147.4     | 0.00<br>0.00   | 0,8<br>0,8 | 145.3<br>146.6 | . 72.8<br>80.7 | 218.1<br>227.3      | 118.60<br>118.60 | 1,644.6<br>1,644.6  | -803.1<br>-883.9   | 0.0          | 218.1<br>227.3 | 1,575.2<br>1,568.2 | 117.62<br>117.52  | 72.7<br>75.8           | 38.2<br>39.8 | 0.702<br>0.721         | 37.7<br>39.3  | 0.863<br>0.873  | 97,7<br>102,8  | 2,345<br>2,467  |
| 6           | 117.52                | 149.9              | 0.00           | 0.8        | 149.1          | 80,5           | 229.6               | 118.60           | 1 644 6             | -964.8             | 0.0          | 229.6          | 1,561.2            | 117.42            | 76.5                   | 40.1         | 0.725                  | 39.5          | 0.874           | 103.7          | 2,489           |
| 7:<br>8     | 117.42<br>117.33      | 149.4<br>151.1     | 0.00<br>- 0,00 | 0.8<br>0.8 | 148.6<br>150.3 | 72.2           | 220.8<br>230.4      | 118.60<br>119.60 | 1,644,6<br>1,644,6  |                    | 0.0<br>0.0   | 220.8<br>230.4 | 1,555.0<br>2,548,1 | 117.33<br>117.23  | 73.6<br>76.8           | 38.5<br>40.1 | 0.706<br>0.725         | 38.0<br>39.6  | 0.865<br>0.875  | 98.6<br>103.8  | 2,366<br>2,491  |
| 9           | 117.23                | 149.4              | 0.00           | 8.0        | 148.6          | 79.9<br>21-2   |                     | 118.60           | 1 644 6             |                    | 0.0<br>0.0   | 228.5<br>226.3 | 1,541.2            | 117.13<br>117.03  | 762<br>75.4            | 39.7<br>39.2 | 0.7 <u>20</u><br>0.714 | 39.2<br>38.7  | 0.872<br>0.869  | 102.4<br>100.9 | 2 458<br>2 422  |
| 10<br>11    | 117.13<br>117.03      | 147.4<br>147.4     | 0.00 .<br>0.00 | 0.8        | 146.6<br>146.6 | 79.7<br>71.5   | 226.3<br>218.1      | 118.60<br>118.60 | 1,644.6<br>1,644.6  | 1348.1             | 0.0          | 218.1          | 1,534.3<br>1,528.1 | 116.94            | 72.7                   | 37.7         | 0.696                  | 37.3          | 0.860           | 96.1           | 2,306           |
| 12          | 116.94<br>116.84      | 146.1<br>146.1     | 0.00<br>0.00   | 0.8        | 145.3<br>145.3 | 79.3           | 224.6<br>224.4      | 118.60<br>118.60 | 1 644 6<br>1 644 6  |                    | 0.0<br>0.0   | 224.6<br>224.4 | 1,521.2<br>1,514,4 | 116.84<br>116.74  | 74.9<br>74.8           | 38.8<br>38.7 | 0.709<br>0.708         | -38.3<br>38.2 | 0.867<br>0.866  | 99.6<br>. 99.2 | 2,390<br>2,381  |
| 13 -<br>14  | 116.74                | 146.1              | 0.00           | 0.8        | 145.3          | 71.0           | 216.3               | 118.60           | 1,644.6             | -1577.9            | 0.0          | 216.3          | 1,508.3            | 116.65            | 108.2                  | 55.9         | 0.951                  | 54.9          | 0.926           | 101,6          | 2,438           |
| 15<br>16    | 116.65<br>116.55      | 156.0<br>133.9     | 0.00           | 0.8<br>0.8 | 155.2<br>133.1 | 78.7<br>78.5   | 233.9<br>211.6      | 118.60<br>118.60 | 1,644.6<br>1,644.6  |                    | 0.0<br>0.0   | 233.9<br>211.6 | 1,501.5<br>1,494.7 | 116.55<br>116.45  | 78.0<br>105.8          | 40.2<br>54.4 | 0.726<br>0.926         | 39.7<br>53.5  | 0.875<br>0.924  | 104.0<br>98.8  | 2,496           |
| .17         | 116.45                | 259.6              | 0.00           | 0.8        | 258.8          | 70.4           | 329.2               | 118.6D           | 1,644.6             | 1805.4             | 0.0          | 329.2          | 1,488.6            | 116.36            | 109.7                  | 56.3         | 0.957                  | 55.3          | 0.926           | 153.7          | 3,689           |
| 18<br>19    | 116.36<br>116.26      | 645.4<br>441.0     | 0.00           | 0.8<br>0.8 | 644.6<br>440.2 | 78,1<br>438,7  |                     | 118.60<br>118.60 | 1,644.6             |                    | 0.0<br>0.0   | 360.0<br>360.0 | 1,513.2<br>1,520.1 | i 16.72<br>116.82 | 120.0<br>120.0         | 61.8<br>62.1 | 1.053<br>1.058         | 60.5<br>69.8  | 0.925           | 168.0          | 4,032<br>4,051  |
| 20          | 116.16                | 325.8              | 0.66           | 0.8        | 325.0          | 587.6          | 360.0               | 118.60           | 1,644.6             | -1476.0            | 0.0          | 360.0          | 1,517.1            | 116.78            | 120.0                  | 62.1         | 1.058                  | 60.8          | 0.925           | 168.9          | 4,054           |
| 21<br>22    | 116.07<br>115.97      | 270.7<br>237.8     | 0.71           | 0.8<br>0.8 | 269.9<br>237.0 | 633.5          | 360.0<br>360.0      | 118.60<br>118.60 | 1,644.6<br>1,644.6  |                    | 0.0<br>0.0   | 360.0<br>360.0 | 1,509,3<br>1,498.7 | 116.66            | 120.0<br>120.0         | 62.0<br>61.8 | 1.056<br>1.053         | 60.8<br>60.6  | 0.925           | 168.6<br>168.2 | 4,046<br>4,037  |
| 23          | 115.87                | 219.3              | 0.64           | 0.7        | 218.6          | 567.4          | 360.0               | 118.60           | 1,644,6             | -1830.1            | 0.0          | 360.0          | 1,486.5            | 116.32            | 120.0                  | 61.6         | 1.049                  | 60.4          | 0.925           | 167.6          | 4,022           |
| 24<br>25    | 115.78<br>115.68      | 206.9<br>199.4     | 0.54           | 0.7        | 206.2<br>198.7 | 495.6<br>424.3 | 360.0<br>360.0      | 118.60<br>118.60 | 1,644,6<br>1,644.6  |                    | 0.0          | 360.0<br>360.0 | 1,473.2<br>1,459.3 | 116.13<br>115.92  | 120.0<br>120.0         | 61.4<br>61.2 | 1.645<br>1.042         | 60.2<br>60.0  | 0.925<br>0.925  | 167.0<br>166.4 | 4,008<br>3,994  |
| 26          | 115,58                | 201.9              | 0.34           | 0,7        | 201.2          | 338,0          | 360.0               | 118.60           | 1,644.6             | -2303.5            | 0.0<br>0.0   | 360.0          | 1,445.6            | 115.71            | 120.0                  | 60.9<br>60.7 | 1.036                  | 59.7          | 0.926           | 165.9          | 3,982           |
| 27<br>28    | 115.48<br>115.39      | 192.0<br>184.5     | 0.23           | 0.7<br>0.7 | 191-3<br>183.8 | 244.8<br>152.4 | 336.2               | 118.60<br>118.60 | 1,644.6             | -2471.9<br>-2624.6 | 0.0          | 360.0<br>336.2 | 1,431.0<br>1,417.8 | 115.49<br>115.29  | 120,0<br>E12,1         | 56.5         | 1.033<br>0.961         | 59.5<br>55.4  | 0.926<br>0.926  | 165.2          | 3,965<br>3,694  |
| 29          | 115.29                | 178.4              | 0.00           | 0.7        | 177.7          | 75.9<br>68.1   |                     | 118.60<br>118.60 |                     | -2700.9<br>-2769.5 | 0.0<br>0.0   | 253.6<br>238.4 | 1,411.2            | 115.19<br>115.10  | 84.5<br>79.5           | 42.4<br>39.8 | 0.753<br>0.721         | 41.8<br>39.3  | 0,887<br>0,873  | 111.3<br>102.8 | 2,671 2,467     |
| 30<br>31    | 115.19                | 171.0<br>136.2     | 0,00<br>0.00   | 0,7<br>0.7 | 170.3<br>135.5 | 75.5           |                     | 118.60           | 1,644.6             | 2/69.5             | 0.0          | 211.0          | 1,398.8            | 115.00            | 105.5                  | 52.8         | 0.721<br>0.901         | 39.3<br>51.8  | 0.922           | 95.6           | 2,294           |
| - • 1       |                       | 200.6              |                | 0.8        |                |                | :                   |                  |                     |                    | 0.0          | 278.2          |                    |                   |                        |              |                        |               |                 |                | 94,718          |
| Grand       |                       | 3,068              |                | 32         |                |                |                     |                  | 1,398.7             |                    | 273          | 2,759          |                    |                   |                        |              |                        |               |                 |                | 996,315         |
|             | 115.00                |                    |                |            |                |                |                     |                  | ، <sub>مح</sub> ر ، |                    | <b>.</b>     |                |                    |                   |                        |              |                        |               |                 |                |                 |

#### Table 7.2.10 (1/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1970)

|             |                  |          |                          |       |                  |                |                  | ·.                 |                    |               |                |                    |                   |                |              |                |                |                  |                |                |
|-------------|------------------|----------|--------------------------|-------|------------------|----------------|------------------|--------------------|--------------------|---------------|----------------|--------------------|-------------------|----------------|--------------|----------------|----------------|------------------|----------------|----------------|
|             | Rula             | RWL      | RC                       | inf.  | Recv.            | lmf.1+<br>Qt+  | PSHL             | FSHL.              | Qsp                | Spill         |                | Rav.Vol            | RW1.              |                | Power        |                | Power          |                  |                | ·              |
| ·           |                  | Inflow   | Evp.                     | Evp.  | RC               | RC             |                  | Vul.               | USIU.              |               | 116            | 1 398 7            | At end<br>115.00  | <u>Q</u>       |              | 1.055          |                | ata Po           | ower           | Energy         |
| ົ້ນໝ.1<br>1 | 115.00           | 182.1 0  | .00 0.7                  | 181.4 | -67.9            | 265.3          | 118.60           | 1,644.6            | -2930,0            | 0,0           | 265.3          | 1 391 5            | 114.89            | 88,4           | 44.1         | 0.775          | 43.5           | 0.895            | 116.7          | 2,801          |
| 2           | 115.09           |          | 20 0.7                   |       | -188.5           | 80.0           | 118.60           | 1.644.6            |                    | 0.0           | 80.0           | 1.399.4            | 115.01<br>115.09  | 80,0<br>80,0   | 39.9<br>40.0 | 0.722<br>0.723 | 39.4<br>39.5   | 0.873<br>0.874   | 34,4<br>34,5   | 826<br>828     |
| 3           | 115.14           |          | .13 0.7<br>.10 0.7       |       | -136.1<br>-106.0 | . 80.0<br>80.0 | 118.60           | 644.6              |                    | 0.0           | 80.0<br>80.0   | 1,404.8            | 115.19            | . 80.0         | 40.1         | 0.725          | 39.5           | 0.874            | 34.5           | 828            |
| 5           | 115.23           |          | .04 0.7                  |       | -68.3            | 84.6           | 118.60           | 1,644,6            | -2626.7            | 0.0           | 84.6           | 1.417.6            | 115.29            | 84.6           | 42.5         | 0.755          | 41.9           | 0.887            | 37,1           | 890            |
| 6           | 115.28           | 156.0 0  | .01 0.8                  | 155,2 | -30.4            | 130.0          | 118.60           | 1,644.6            |                    | 0.0           | 130.0          | 1,419,8            | 115.32<br>115.38  | 65.0<br>109.5  | 32.7<br>55.1 | 0.643<br>0.938 | 32.3<br>54.1   | 0.823            | 53.1           | 1,274          |
| 7           | 115.33<br>115.38 |          | 01 0.8                   |       | -45.7<br>30.5    | 109.5<br>124.7 | 118.60<br>118.60 | 1,644,6<br>1,644,6 | -2556.2<br>-2528.6 | 0.0<br>0.0    | 109.5<br>124.7 | 1,423.7            | 115.42            | 62.4           | 31.4         | 0.630          | 31.0           | 0.812            | 50.4           | 1,210          |
| 9           | 115.42           |          | .00 0.8                  |       | -38.1            | 114.7          | 118.60           | 1,644,6            | -2488.4            | 0.0           | 114.7          | 1,429.6            | -115.47           | 57.4           | 28.9         | 0.606          | 28.6           | 0.790            | 45.1           | 1,082          |
| 10          | 115.47           | 158.6 0  | 0.00 0.8                 | 157.8 | -38.2            | 117.0          | 118.60           | 1,644.6            |                    | 0.0           | 117,0          | 1 433.1            | 115.52<br>115.57  | 58.5<br>63.6   | 29.5<br>32.1 | 0.612<br>0.637 | 29.2           | 0.796<br>0.818   | 46.4<br>51.9   | 1,114          |
| 11          | 115.52<br>115.56 |          | 0.00 0.8                 |       | 30.6<br>-30.6    | 127.2<br>132.1 | 118.60<br>118.60 | 1,644.6            |                    | 0.0<br>0.0    | 127.2          | 1,436.2<br>1,439,1 | 115.62            | 66.1           | 33.4         | 0.650          | 33.0           | 0.829            | 54.7           | 1,313          |
| 12<br>13    | 115.61           |          | 01 0.8                   |       | -30.7            | 134,4          | 118.60           | 1,644.6            | -2353.2            | 0.0           | 134.4          | 1 441.3            | 115.65            | 67.2           | 34.0         | 0.656          | 33.6           | 0.833            | 55.9           | 1,342          |
| 14          | 115.66           |          | 01 0.8                   |       | -38.4            | 121.3          | 118.60           | 1,644.6            |                    | 0.0<br>0.0    | 121.3<br>121.3 | 1 444.6<br>1 447.9 | 115.30            | 60.7<br>60.7   | 30.7         | 0.623          | 30.4<br>30.4   | 0.806            | 48.9           | 1,174          |
| 15<br>16    | 115.70<br>115.75 |          | 0.00 0.8                 |       | -38.4<br>-38.5   | 121.3<br>121.2 | 118-60<br>118-60 | 1,644.6            |                    | 0.0           | 121.2          | 1 451.5            | 115.80            | 60.6           | 30.7         | 0.623          | 30.4           | 0,806            | 49.0           | 1,176          |
| 17          | 115.80           | 156.0 0  | 0.00 0.8                 | 155.2 | -30.8            | 132.6          | 118.60           | 1,644.6            | 2212.4             | 0.0           | 132.6          | 1,453.5            | 115.83            | 66.3           | 33.7         | 0.653          | 33.2<br>54.3   | 0.830            | 55.2<br>50.3   | 1,325          |
| 18          | 115.84           |          | 0.01 0.8                 |       | 46.3<br>-38.6    | 108.9<br>116.6 | 118.60<br>118.60 | 1,644.6            |                    | 0.0           | 108.9<br>116.6 | 1 457 5<br>1 462 4 | 115.89<br>115.97  | 108.9<br>58.3  | 55.3<br>29.7 | 0.941<br>0.614 | 29.3           | 0.796            | 46.7           | 1,121          |
| 19<br>20    | 115.89<br>115.94 |          | 0.00 0.8<br>0.03 0.8     |       | -7.7             | 166.1          | 118.60           | 1,644.6            |                    | 0.0           | 166.1          | 1,475.2            | 116.16            | 83.1           | 42.4         | 0.753          | 41.8           | 0,887            | 74.1           | 1,778          |
| 21          | 115.98           |          | .18 0.8                  |       | 100.9            | 360.0          | 118.60           | 1,644.6            |                    | 0.0           | 360.0          | 1,466.5            | 116.03<br>116.05  | 120,0<br>110.3 | 61.3<br>56.3 | 1.044 0.957    | 60.0<br>55.2   | 0.925            | 166.6<br>102.2 | 3,998          |
| 22.<br>23   | 116.03<br>116.08 |          | 1.00 0.8<br>1.03 0.8     |       | -38.8<br>-62.1   | 220.5<br>174.9 | 118.60<br>118.60 | 1,644.6<br>1,644.6 |                    | 0.0<br>0,0    | 220.5          | 1 467.9<br>1 478.3 | 116.20            | 87.5           | 44.7         | 0.783          | 44.0           | 0.897            | 78.9           | 1,894          |
| .24         | 116.13           |          | 0.07 0.6                 |       | 23.3             | 318.6          | 118.60           | 1,644.6            | 1986.5             | 0.0           | 318.6          | 1,473.0            | 116.12            | 106.2          | 54.3         | 0.925          | 53.3           | 0.924            | 147.8          | 3,547          |
| 25          | 116.17           | 231.6 -0 | .05 0.8                  |       | -77.8            |                | 118.69           | 1,644.6            |                    | 0.0<br>0.0    | 179.1          | 1,477.5            | 116.19<br>116.24  | 89.6<br>84.3   | 45.8<br>43.1 | 0.798<br>0.762 | 45.1<br>42.5   | 0.902            | 81.3<br>75.6   | 1,951          |
| 25          | 116.22<br>116.27 |          | .03. 0.8<br>.03 0.8      |       | -62.3<br>-54.6   | 168.5<br>155.2 | 118.60<br>118.60 | 1,644.6            |                    | 0.0           | 168.5<br>155.2 | 1 481 1            | 116.30            | 77.6           | 39.8         | 0.721          | 39.2           | 0.872            | 68,4           | 1,642          |
| 28          | 116.31           |          | 0.01 0.8                 |       | -46.9            | 149.3          | 118.60           | 1,644.6            | -1813.7            | 0.0           | 149.3          | 1,487.9            | 116.35            | 74.7           | 38.3         | 0.703          | 37.8           | 0.863            | 65.2           | 1,565          |
| 29          | 116.36           |          | 0.01 0.8                 |       | -46.9            | 140.6          | 118.60           | 1,644.6<br>1,644.6 |                    | 0.0           | 140.6<br>131.8 | 1 491 2<br>1 494.8 | .116.39<br>116.45 | 70.3<br>65.9   | 36.1<br>33.9 | 0.678          | 35.6<br>33.4   | 0.848<br>0.832   | 60.4<br>55.6   | 1,450          |
| 30<br>31    | 116.41<br>116.45 |          | ).02 0.8<br>).00 0.8     |       | -47.0<br>-39.2   | 131.8<br>134.6 | 118.60<br>118.60 | 1,644.6            |                    | 0.0           | 134,6          | 1,498.2            | 116.50            | 67,3           | 34.6         | 0.662          | 34.2           | 0.838            | 57.3           | 1,375          |
| 21          | 110.45           | 186.4    | 0.8                      |       |                  |                |                  | ••••               |                    | 0.0           | 148.4          |                    | :                 |                |              |                | ÷              |                  |                | 47,934         |
|             |                  |          |                          |       |                  |                |                  | .:                 | 2                  |               |                |                    |                   | 10 g           | -            | 1.0            | ۰.             |                  | 1.15           |                |
| Feb.        | 116.50           | 177.2 0  | 0.00 1.0                 | 176.2 | -86.4            | 87.4           | 118.60           | 1,644.6            | •1605.6            | 0.0           | 87.4           | 1,505.9            | 116.61            | 87.4           | 45.0         | 0.787          | 44.3           | 0.899            | 39.9           | 958            |
| 2           | 116.61           | 188.3 0  | 0.00 1.0                 | 187.3 | -47.2            | 129.0          | 118.60           | 1,644.6            |                    | 0.0           | 129.0          | 1,510.9            | 116.65            | 64.5<br>77.9   | 33.3<br>40.2 | 0.649<br>0.726 | 32.9<br>39.7   | 0.828            | 54.4<br>69.4   | 1,306          |
| 3           | 116.67<br>116.72 |          | 0.01 1.0<br>0.02 1.0     |       | -31.5<br>-31.6   | 155.8<br>164.4 | 118.60<br>118.60 | 1.644.6            |                    | 0.0<br>0.0    | 155.8<br>164.4 | 1,514.4            | 116.74<br>116.85  | 82.2           | 42.5         | 0.755          | 41.9           | 0.887            | 74,4           | 1,786          |
| ŝ           | 116.78           |          | 0.07 1.0                 |       | 15.8             | 269.9          | 118.60           | 1,644.6            | •1433.6            | 0.0           | 269.9          | 1,520.7            | 116.83            | 90.0           | 46.6         | 0.809          | 45.9           | 0.905            | 124.5          | 2,988          |
| 6           | 116.83           |          | .00 1.0                  |       | -47.5            | 205.5          | 118.60           | 1,644.6            |                    | 0,0<br>0.0    | 205.5          | 1 525 1<br>1 527 4 | 116.89<br>116.93  | 102.8          | 53.3<br>56.3 | 0.909<br>0.957 | 52.3<br>55.2   | 0.922<br>0.926   | 96.5<br>102.3  | 2,316          |
| 7<br>8      | 116.89<br>116.94 |          | 0.00 . 1.0<br>0.01 - 1.0 |       | -39.7            | 187.5          | 118.60           |                    | -1297.2            | 0.0           | 187.5          | 1,532.5            | 117.00            | 93.8           | 48.7         | 0.839          | 47.9           | 0.912            | 87.4           | 2,098          |
| 9           | 117.00           |          | .00 1.0                  | 249.2 | -39.8            | 207.0          | 118.60           | 1,644.6            | -1255.3            | 0.0           | 207.0          | 1,536,1            | 117.05            | 103.5          | 53,8         | 0.917          | 52.9           | 0.923            | 97.6           | 2,342          |
| 10          | 117.05           |          | 0.00 1.0                 |       | -47.8<br>-31.9   | 201.4<br>226.7 | 118.60<br>118.60 | 1,644.6            | -1198.6            | 0.0<br>0.0    | 201.4<br>226.7 | 1,541.0<br>1,544.7 | 117.12            | 100.7          | 52.4<br>39.4 | 0.895<br>0.716 | - 51.5<br>38.8 | 0.921<br>0.870   | 94.9<br>101.3  | 2,278 2,431    |
| 11          | 117.11           |          | 0.01 1.0<br>0.02 1.0     |       | -32.0            | 237.7          | 118.60           | 1,644.6            | -972.5             | 0.0           | 237.7          | 1,560.6            | 117.41            | 79.2           | 41.4         | 0.741          | 40.8           | 0.881            | 167.9          | 2,590          |
| 13          | 117.22           | 438.5 0  | .19 1.0                  | 437.5 | 112.3            | 360.0          | 118.60           | 1,644.6            | -894.7             | 0.0           | 360.0          | 1 567 3            | 117.50            | 120.0          | 62.9         | 1.073          | 61.6           | 0.924            | 170.8          | 4 079          |
| 14          | 117.27           |          | 23 1.0                   |       | 136.6<br>96.5    | 360.0<br>360.0 | 118.60<br>118.60 | 1,544.6<br>1,644.6 | -900.2<br>-947.4   | 0.0           | 360.0<br>360.0 | 1,566.8<br>1,562.7 | 117.50            | 120.0<br>120.0 | 62.9<br>62.9 | 1.073<br>1.073 | 61.7<br>61.6   | 0.923<br>0.924   | 170.7          | 4,097          |
| 15<br>16    | 117.33<br>117.38 |          | 0.17 1.0<br>0.06 1.0     |       | 0.0              | 313.1          | 118.60           | 1,644.6            | .977.1             | 0.0           | 313.1          | 1 560.2            | 117.40            | 104.4          | 54.7         | 0.931          | 53.7           | 0.924            | 148.8          | 3,571          |
| 17          | 117.44           |          | 0.04 1.0                 |       | -72.4            | 211.5          | 118.60           | 1,644.6            | -914.4             | 0.0           | 211.5          | 1.565.6            | 117,48            | 105.8          | 55.4         | 0.942          | 54.4           | 0.925<br>0.862   | 100.7<br>97.2  | 2,417<br>2,333 |
| 18          | 117.49           |          | 0.01 1.0<br>0.11: 1.0    |       | -56.4            | 217.6<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -766.4<br>-808.9   | 0.0           | 217.6<br>369.0 | 1.578.4            | 117.66            | 72.5<br>120.0  | 38.1<br>63.1 | 0.701          | 37,6<br>61.8   | 0.923            | -171.2         | 4,109          |
| 19<br>20    | 117.60           |          | 0.01 1.0                 |       | 40.4             | 276.9          | 118.60           | 1,644.6            | -798.3             | 0.0           | 276.9          | 1.575.6            | 117.62            | 92.3           | 48.5         | 0.836          | 47.7           | 0.911            | 130.5          | 3,132          |
| 21          | 117.66           |          | 0.04 1.0                 |       | -72.8            | 214.8          | 118.60           | 1,644.6            | -743.7             | 0.0           | 214.8<br>204.9 | 1,580.3            | 117.69            | 73.6<br>102.5  | 37.6<br>54.0 | 0.695<br>0.920 | 37.2<br>53.9   | . 0.859<br>0.924 | 95.8<br>98.0   | 2,299          |
| 22<br>23    | 117.71<br>117.77 |          | ).02 1.0<br>).02 1.0     |       | -64.8<br>56.8    | 204.9<br>200.5 | 118.60           | 1,644.6<br>1,644.6 | -691.8<br>-634.0   | 0.0           | 204.9          | 1,584,8<br>1,589,8 | 117.83            | 102.3          | 52.9         | 0.920          | 52.0           | 0.924            | 95.8           | 2,299          |
| 23          | 117.82           |          | 0.01 1.0                 |       | -40.6            | 218.0          | 118.60           | 1,644.6            | -593.7             | 0.0           | 218.0          | 1,593.3            | 117.88            | 72.7           | 38.4         | 0.704          | 37.9           | 0.864            | 98.1           | 2,354          |
| 25          | 117.88           |          | 0.00 1.0                 |       | -40.7            | 217.9          | 118.60           | 1,644,6            | -374.1<br>-240.5   | 0.0<br>0.0    | 217.9<br>360.0 | 1,612.3<br>1,623.8 | 118.15<br>118.31  | 72.6<br>120.0  | 38.4<br>63.8 | 0.704<br>1.089 | 37.9<br>62.5   | 0.864            | 98.4<br>172.9  | 2,362<br>4,150 |
| 26<br>27    | 117.93           |          | ).22 1.0<br>).32 1.0     |       | 130,7<br>221.1   | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6            | -150.8             | 0.0           | 360.0          | 1,631.6            | 118,42            | 120.0          | 63.9         | 1.091          | 62.7           | 0.922            | 173.3          | 4,159          |
| 28          | 118.04           |          | 0.38 1.0                 |       | 262.6            | 360.0          | 118.60           | 1,644.6            | 80.4               | 0.0           | 360.0          | 1 637 7            | 118.50            | 120.0          | 64.0         | 1.093          | 62.8           | 0.922            | 173.6          | 4,166          |
| •           |                  | 304.6    | 1.0                      | 1     | · .              |                | -                |                    |                    | 0,0           | 245.9          |                    |                   |                | ·            |                |                |                  |                | 77,212         |
| Mar.        | 1982             |          |                          |       | :                |                |                  |                    | 1. j               | ÷ .           |                | • .                | 1.1               |                |              | . :            |                |                  |                | 1.1            |
| 1           | 118.10           |          | 40 1.6                   |       | 205.8            |                | 118.60           | 1,644.6            | 5.7                | 5.7           |                | 1.644.6            |                   | 120.0          | 64.2         | 1.097          | 62.9           | ·0.922<br>0.922  | 173.9          | 4,174          |
| 2           | 118.25<br>118.33 |          | 0.35 1.6<br>0.27 1.6     |       | 222.7<br>165.1   | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6            | 119.7<br>89.3      | 119.7<br>89.3 | 360.0<br>360.0 | 1,644,6            | 118.60<br>118.60  | 120.0<br>120.0 | 64.2<br>64.2 | 1.097<br>1.097 | 62.9<br>62.9   | 0.922            | 174.0          | 4,176          |
| 4           | 118.40           |          | .20 1.6                  |       | 99.2             | 360.0          | 118.60           | 1,644.6            | 58.3               | 58.3          | 360.0          | 1,644,6            | 118.60            | 120.0          | 64.2         | 1.097          | 62.9           | 0.922            | 174.0          | 4,176          |
| 5           | 118,48           |          | 1.12 1.6                 |       | 41.4             | 360.0          | 118.60           | 1,644.6            | 16.3<br>12.5       | 16.3<br>12.5  | 360.0<br>360.0 | 1,644,6            | 118.60<br>118.60  | 120.0          | 64.2<br>64.2 | 1.097<br>1.097 | 62.9<br>62.9   | 0.922<br>0.922   | 174.0<br>174.0 | 4,176<br>4,176 |
| 67          | 118.55<br>118.60 |          | ).05 · 1.6<br>).00 · 1.6 |       | 0.0<br>0.0       | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | 12.5               | 12.5          | 360.0          | 1,644.6            | 118.60            | 120.0          | 64.2         | 1.097          | 62.9           | 0.922            | 174.0          | 4,176          |
| 8           | 118.60           |          | 0.00 1.6                 | 365.0 | 0.0              | 360.0          | 118.60           | 1,644.6            | 5.0                | 5.0           | 360.0          | 1.644.6            | 118.60            | 120.0          | 64.2         | 1.097          | 62.9           | 0.922            | 174.0          | 4,176          |
| 9           | 118.60           |          | 0.00 1.6                 |       | 0.0              |                | 118.60           | 1,644.6<br>1,644.6 | 1.3                | 1.3<br>1.3    | 360.0<br>360.0 | 1,644.6<br>1,644.6 | 118.60<br>118.60  | 120.0<br>120.0 | 64.2<br>64.2 | 1.097<br>1.097 | 62.9<br>62.9   | 0,522<br>0.922   | 174.0<br>174.0 | 4,176<br>4,176 |
| 10<br>11    | 118.60<br>118.60 |          | 1.00 1.6<br>1.00 1.6     |       | 0.0<br>0.0       | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6            | 16.3 :             | 16.3          | 360.0          | 1.644.6            | 118.60            | 120.0          | 64.2         | 1.097          | 62.9           | 0.922            | 174.0          | 4 176          |
| 12          | 118.60           |          | .00. 1,6                 |       | 0.0              | 369.0          | 118.60           | 1,644.6            | 12.5               | 12.5          | 360.0          | 1,644.6            | 118.60            | 120.0          | 64.2         | . 1.097        | 62.9           | 0.922            | 174.0          | 4,176          |
| 13          | 118.60           |          | 0.00 1.6                 |       | 0.0              | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | 12.5<br>35.8       | 12.5<br>0.0   | 360.0<br>360.0 | 1,644.6<br>1,641.5 | 118.60<br>118.56  | 120.0<br>120.0 | 64.2<br>64.2 | 1.097          | 62.9<br>62.9   | 0.922<br>0.922   | 174.0<br>174.0 | 4,176          |
| 14<br>15    | 118.60<br>118.60 |          | 000 1.6<br>004 1.6       |       | -149.2           | 175.0          | 118.60           | 1,644.6            | 14.8               | 0.0           | 175.0          | 1 653.4            | 118.72            | 87.5           | 46.9         | 0.813          | 46.2           | 0.906            | 83.6           | 2,006          |
| 16          | 118.74           | 322.1 -0 | .02 1.6                  | 320.5 | -133.1           | 179.9          | 118.74           | 1 654.7            | . 9.8              | 0.0           | 179.9          | 1 665 5            | 118.89            | 90.0           | 48.3         | 0.833          | 47.6           | 0.911            | 86.7           | 2,081          |
| 17          | 118.88           |          | 1.01 1.6                 |       | -108.5<br>-420.8 | 212.0<br>80.0  | 118.88<br>119.02 | 1,664.7            | 12.0               | 0.0<br>0.0    | 212.0<br>80.0  | 1,675.8<br>1,693.7 | 119.03            | 70.7<br>80.0   | 38.1<br>43.2 | 0.701<br>0.764 | 37.6<br>42.6   | 0.862<br>0.891   | 97.2<br>38.0   | 2,333<br>912   |
| 18<br>19    | 119.02<br>119.53 |          | 01 1.6                   |       | -420.8           | 80.0           | 119.02           | 1,684.9            | 216.4              | 0.0           | 80.0           | 1,713.8            | 119.56            | 80.0           | 43.4         | 0.766          | 42,8           | 0.892            | 38.2           | 917            |
| 20          | 119.60           | 381.5 -0 | .04 1.6                  | 379.9 | -101.8           | 210.8          | 119.30           | 1,695.1            | 275.6              | 126,4         | 360.0          | 1,704.6            | 119.43            | 120.0          | 65.3         | 1.118          | 63.9           | 0.920            | 176.5          | 4,236          |
| 21          | 119.68           |          | 25 1.7                   |       | 271.4<br>-59.7   | 108.5<br>327.6 | 119.43<br>119.57 | 1,704.6            | 160.7              | 0.0<br>72.7   | 108.5<br>360.0 | 1 728.7<br>1 725.1 | 119.76<br>119.71  | 54.3<br>120.0  | 29.6<br>65.5 | 0.613          | 29.3<br>64.2   | 0.796<br>0.919   | 46.5<br>177.1  | 1,116<br>4,250 |
| 22<br>23    | 119.75<br>119.83 |          | .12 1.7                  |       | 152.0            | 229.0          | 119.71           | 1,725.1            | 13.0               | 0.0           | 229.0          | 1,736.5            | 119.86            | 76.3           | 41.7         | 0.744          | 41.2           | 0,894            | 109.2          | 2,621          |
| 24          | 119.90           | 333.2 -0 | .04 -1.7                 | 331.5 | -102.6           | 258.6          | 119.85           | 1,735.4            | -33.6              | 0.0           | 258.6          | 1,742.8            | 119.95            | 86.2           | 47.2         | 0.818          | 46.5           | 0.907            | 126.6          | 3,038          |
| 25          | 119.98<br>120.05 |          | .03 1.7<br>.03 1.7       |       | -85.6<br>-94.4   | 245.9<br>214.9 | 119.99<br>120-13 | 1,745.7            | -90.5<br>-127.5    | 0.0<br>0.0    | 245.9<br>214.9 | 1,748.3            | 120.02<br>120.12  | 82,0<br>71.6   | 45.0<br>39.3 | 0.787          | 44.4<br>38.8   | 0.899            | 119.6<br>101.4 | 2,434          |
| 26<br>27    | 120.03           |          | .03 1.7                  |       | 68.8             | 229.2          | 120.27           | 1,766.5            | -187.3             | 0.0           | 229.2          | 1,760.8            | 120,19            | 76.4           | 42.0         | 0.748          | 41.5           | 0.885            | 110.1          | 2,642          |
| 28          | 120.20           | 281.3 -0 | .01 1.7                  | 279.6 | 17.5             |                | 120.41           | 1,777.0            | -241.5<br>-273.4   | 0,0<br>0.0    | 213.2<br>210.6 | 1,766.5            | 120.27<br>120.38  | 71.1           | 39.2<br>38.7 | 0.714<br>0.703 | 38.7<br>38.3   | 0,869<br>0,867   | 100.8<br>99.5  | 2,419<br>2,388 |
| 29<br>30    | 120.28<br>120.35 |          | .01 1.7<br>.03 1.7       |       | -69.0<br>-43.2   |                | 120.55           | 1,787,4<br>1,798,0 | -336.7             | 0.0           | 210.6          | 1,774,4<br>1,779,4 | 120.38            | 86.2           | 47.7         | 0.825          | 47.0           | 0.909            | 128.0          | 3,072          |
| 31          | 120.43           | 329.6 0  | .01 1.7                  | 327.9 | -52.0            | 264.6          | 120.83           | 1,808,5            | -396.2             | 0.0           | 264.6          | 1,784.9            | 120.52            | 18.2           | 48.8         | 0.841          | 43.1           | 0.913            | 131,7          | 3,161          |
|             |                  | 356.1    | 1.6                      |       |                  |                |                  |                    |                    | 18.1          | 281.3          |                    |                   |                |              |                |                |                  |                | 100,958        |
|             |                  |          |                          |       | · ·              |                |                  |                    |                    |               |                |                    |                   |                |              |                |                |                  |                |                |

#### Table 7.2.10 (2/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, How in 1970)

|          |                      |                  |                 |            |                  |                 |                |                  |                    |                    | •          |                |                    |                  |               |                  |                |              |                |                |                |
|----------|----------------------|------------------|-----------------|------------|------------------|-----------------|----------------|------------------|--------------------|--------------------|------------|----------------|--------------------|------------------|---------------|------------------|----------------|--------------|----------------|----------------|----------------|
|          |                      |                  |                 |            |                  |                 |                |                  |                    |                    |            |                |                    |                  | •             |                  |                |              |                |                |                |
|          | Rule                 | RV               | /L-RC           |            | lef,-            | Recv.           | lof.t+<br>Qt+  | FSHL             | FSHL.              | Osp                | Spiff      |                | Rsv.Vol            | RWL              |               | Power            |                | Power        |                |                |                |
|          | Atbeg.               | ណែល              |                 | Evp.       | Evp.             | RC              | ŘC             |                  | Vol.               | ISH.               |            | 112            |                    | Atend            | <u> </u>      |                  | 1.055          | E            | ata            | Power          | Energy         |
| Apr. 1   | 982 (Ing.=<br>120.50 | элэщэ/э<br>325.8 | 0.02            | 2.3        | 323.5            | -139,0          | 188.9          | 120.97           | 1,819.1            | -374.7             | 0.0        | 186.9          | 1,796.5            | 120.67           | 94.5          | 52.4             | 0.895          | 51.6         | 156.0          | 95.0           | 2,280          |
| 2        | 120.68               | 318.3            | -0.01           | 2.3        | 316.0            | -87.1           | 236.4          | 121.10           | 1,828.9            | -419.2             | 0.0        | 236.4          | 1,803.4            | 120.76           | 78.8          | 43.8             | 0.771          | 43.2         | 0.894          | 115.9          | 2,782          |
| 3        | 120.77<br>120.86     | 318.3<br>318.3   | -0.01<br>- 0.00 | 2.3<br>2.3 | 316.0<br>316.0   | -87.3<br>-78.7  | 228.7<br>237.3 | 121.24<br>121.38 | 1,839.6<br>1,850.3 | -455.5<br>-501.2   | 0.0        | 228.7<br>237.3 | 1,810.9<br>1,817.7 | 120.86<br>120.95 | 76.2          | 42.4<br>44.1     | 0.753<br>0.775 | 41.9<br>43.5 | 0,887<br>0,895 | 111.4          | 2,674<br>2,803 |
| 5        | 120.95               | 292.7            | 0.00            | 2.3        | 290.4            | -78.9           | 237.1          | 121.52           | 1,861.0            | 571.7              | 0.0        | 237.1          | 1,822.3            | 121.01           | 79.0          | 44.1             | 0.775          | 43,5         | 0.895          | 116.9          | 2,806          |
| 6        | 121.04               | 362.9            | -0.03           | 2.3        | 360.6            | -105.4          | 185.0          | 121.66           | 1,871.7            | -521.2             | 0.0        | 185.0          | 1,837.5            | 121.21           | 92.5          | 51.8             | 0.885          | 51.0         | 0.920          | 93.8           | 2,251          |
| 7<br>8   | 121.13<br>121.22     | 359.3<br>329.6   | 0.08            | 2.3<br>2.3 | 357,0<br>327,3   | 8.8<br>-79,4    | 351.8<br>277.6 | 121.80<br>121.94 | 1,882.5<br>1,893.4 | 641.8<br>717.7     | 0.0<br>0.0 | 351.8<br>277.6 | 1,837.9<br>1,842.2 | 121.22<br>121.27 | 117.3<br>92.5 | 65.8<br>51.9     | 1.127<br>0.887 | 64.5<br>51.1 | 0.918<br>0.920 | 177.5          | 4,260          |
| 9 ·      | 121.31               | 296.1            | -0.04           | 2.3        | 293.8            | -114.9          | 212.4          | 122.08           | 1,904.2            | .762.3             | 0.0        |                | 1,849.2            | 121.37           | 70.8          | . 39.8           | 0.721          | 39.3         | 0.873          | 102.8          | 2,467          |
| 10       | 121.40               | 841.4            | -0.03           | 2.4        | 839.0            | -106.3          | 187.5          | 122.22           | 1,915.1            | -237.4             | 0.0        | 187.5          | 1,905.5            | 122,10<br>122.01 | 93.8<br>120.0 | 53.1<br>68.3     | 0.906<br>1.176 | 52.2<br>66.9 | 0.922<br>0.911 | 96,3           | 2,311          |
| 11       | 121.49<br>121.58     | 288.6<br>263.9   | 0.61<br>0.43    | 2.4<br>2.4 | 286.2<br>261.5   | 464.9<br>304.0  | 360.0<br>360.0 | 122.36<br>122.50 | 1,926.0<br>1,937.0 | 438.4<br>-655.2    | 0.0<br>0.0 | 360.0<br>360.0 | 1,899.1<br>1,890.6 | 121.90           | 120.0         | 68.2             | 1.174          | 66.8         | 0.912          | 182.8<br>182.7 | 4,387<br>4,385 |
| 13       | 121.67               | 311.0            | 0.23            |            | 308.6            | 125.1           | 360.0          | 122.63           | 1,947.2            | -833.8             | 0.0        | 360.0          | 1,886.2            | 121.85           | 120.0         | 68.1             | 1.172          | 66.7         | 0.912          | 182.4          | 4,378          |
| 14       | 121.76               | 329.6            | 0.09            | 2.4        | 327.2            | 0.0             | 308.6          | 122.77           | 1,958.2            | -943.2             | 0.0        | 308.6          | 1,887.8            | 121.87<br>121.94 | 102.9<br>85.2 | 58.3<br>48.3     | 0.991<br>0.833 | 57.3<br>47.7 | 0.927<br>0.911 | 159,4<br>130,2 | 3,826          |
| 15<br>16 | 121.85<br>121.95     | 325.8<br>325.4   | 0.02<br>-0.01   | 2.4<br>2.4 | 323.4<br>323.0   | -71.6<br>-89.7  | 255.6          | 122.91<br>123.05 | 1,969.3<br>1,980,4 | -1004.0<br>-1042.6 | 0.0<br>0.0 | 255.6<br>233.7 | 1,893.7<br>1,901.4 | 121.94           | 77.9          | 44.3             | 0.778          | 43.7         | 0.511          | 117.4          | 3,125<br>2,818 |
| 17       | 122.04               | 296.1            | 0.00            | 2.4        | 293.7            | -80.9           | 242.1          | 123,19           | 1,991.5            | -1120.9            | 0.0        | 242.1          | 1,905.9            | 122.10           | 80,7          | 45.9             | 0.800          | 45.3         | 0.903          | 122.7          | 2,945          |
| 18       | 122.13               | 277.5            | -0.03           | 2.4        | 275.1            | -108.1          | 185.6          | 123.33           |                    | -1160.5            | 0.0        | 185.6          | 1,913.6            | 122.20<br>122.30 | 92.8<br>87.9  | 52.9<br>50.2     | 0.902<br>0.861 | 52.1<br>49.4 | 0.922<br>0.916 | 96.0<br>90,6   | 2,304<br>2,174 |
| 19<br>20 | 122.22               | 267.6<br>247.8   | -0.02           | 2.4<br>2.4 | 265.2<br>245,4   | -99.3<br>-90.5  | 175.8          | 123.47<br>123.61 | 2,013.9<br>2,025.1 | -1201.1            | 0.0<br>0.0 | 175.8          | 1,921.3<br>1,927.4 | 122.38           | 87.4          | 50.2             | 0.858          | 49.4         | 0.916          | 90,0           | 2,162          |
| 21       | 122.40               | 235.4            | -0.02           | 2.4        | 233.0            | -99.7           | 145.7          | 123.75           | 2,036.4            | 1305.1             | 0.6        | 145.7          | 1,934.9            | 122.47           | 72.9          | 41.7             | 0,744          | 41.2         | 0.834          | 72.8           | 1,747          |
| 22       | 122.49               | 225.5            | -0.02           | 2.4        | 223.1            | -99.9           | 133.1          | 123.89           | 2,047.7            |                    | 0.0        | 133.1          | 1,942.7            | 122.57           | 66.6<br>66.1  | 38.2             | 0.702<br>0.700 | 37.7<br>37.5 | 0.863<br>0.861 | 65.1<br>64,6   | 1,562          |
| 23<br>24 | 122.58<br>122.67     | 216.8<br>216.8   | -0.01<br>-0.01  | 2.4<br>2.4 | 214.4<br>214.4   | -91.0<br>-91.2  | 132.1<br>123.2 | 124.03<br>124.17 | 2,059.1<br>2,070.4 |                    | 0.0<br>0.0 | 132.1          | 1,949.8<br>1,957.7 | 122.66<br>122.76 | 61.6          | 38.0<br>35.4     | 0.700<br>0.671 | 35.0         | 0.844          | 59.1           | 1,550<br>1,418 |
| 25       | 122.76               | 216.8            | 0.00            | 2.4        | 214.4            | -82.3           | 132.1          | 124.30           |                    | .1477.9            | 0.0        | 132.1          | 1,964.8            | 122.85           | 66.1          | 38.1             | 0.701          | 37.6         | 0.862          | 64.8           | 1,555          |
| 26       | 122.85               | 219.3            | 0.00            | 2.4        | 216.9            | -82.4           | 132.0          | 124.44           | 2,092.5            |                    | 0.0        | 132.0          | 1,972.1            | 122.95           | 66.0<br>71.8  | 36.1             | 0.701          | 37.6         | 0.862<br>0.882 | 64.9<br>72.2   | 1,558          |
| 27<br>28 | 122.94<br>123.03     | 219.3<br>216.8   | 0.01<br>-0.01   | 2.4<br>2.5 | 216.9<br>214.3   | -73,4<br>-91,9  | 143.5<br>125.0 | 124.58<br>124.72 | 2,103.9<br>2,115.5 | -1586.3<br>-1630.6 | 0.0<br>0.0 | 143.5<br>125.0 | 1,978,4<br>1,986,1 | 123.02<br>123.12 | 62.5          | 41.5<br>36.2     | 0.742<br>0.679 | 41.0<br>35.8 | 0.850          | 60,8           | 1,733<br>1,459 |
| 29       | 123.12               | 216.8            | 0.00            | 2.5        | 214.3            | -82.9           | 131.4          | 124.86           | 2,127.0            | -1682.1            | 0.0        | 131.4          | 1,993.3            | 123.21           | 65.7          | 38.1             | 0.701          | 37.6         | 0.862          | 64,9           | 1,558          |
| 30       | 123.21               | 216.8            | 0.00            |            | 214.3            | -83.1           | 131.2          | 125.00           | 2,138.6            | -1598.6            | 0.0        | 131.2          | 2,000.5            | 123.30           | 65.6          | 38.1             | 0.701          | 37.6         | 0.862          | 64.9           | 1,558          |
|          |                      | 296.5            |                 | 2.4        | 1                |                 |                |                  |                    |                    | 0.0        | 210.9          |                    |                  |               |                  |                |              |                |                | 76,222         |
| May. 1   | 982 (Irrig           | =11.7 m          | 3/s)            |            |                  |                 |                |                  |                    |                    |            |                | ÷                  |                  |               |                  |                |              |                |                |                |
| 1        | 123.30               | 210.6            |                 | 3.6        | 207.0            | -101.8          | 112.5          | 125.00           | 2,138.6            |                    | 0.0        | 112.5          | 2,008.7            | 123.41           | 56.3<br>80.4  | 32.7             | 0.643          | 32.4<br>46.2 | 0.824<br>0.906 | 53.3<br>83.6   | 1,279<br>2,006 |
| 2 .      | 123.41<br>123.46     | 213.0<br>210.6   | 0.00            | 3.6<br>3.6 | 209.4<br>207.0   | -46.3<br>-46.4  | 160.7<br>163.0 | 125.00<br>125.00 | 2,138.6            | -1454.8            | 0.0<br>0.0 | 160.7<br>163.0 | 2,012.9<br>2,016.7 | 123.46<br>123.50 | 81.5          | 46.8<br>47.5     | 0.812          | 46.2         | 0.900          | 85.2           | 2,000          |
| 4        | 123.51               | 210.6            | -0.01           | 3.6        | 207.0            | -65.0           | 142.0          | 125.00           |                    | -1345.9            | 0.0        | 142.0          | 2,022.3            | 123.57           | 71.0          | 41.4             | 0.741          | 40.9         | 0.882          | 72.2           | 1,753          |
| 5        | 123.57               | 222.9            | 0.00            | 3.6        | 219.3            | -46.5           | 160.5          | 125.00           |                    | -1287.3            | 0.0        | 160.5          | 2,027.4            | 123.64           | 80.3          | 46.9             | 0.813          | 46.3         | 0.905          | 83.8           | 2,011          |
| 6<br>7   | 123.62               | 216.8<br>210.6   | 0.02            | 3.6<br>3.7 | 213.2<br>206.9   | -27.9<br>-65.3  | 191.4<br>147.9 | 125.00<br>125.00 |                    | -1265.2<br>-1206.0 | 0.0<br>0.0 | 191.4<br>147.9 | 2,029.3<br>2,034.4 | 123.66<br>123.73 | 95.7<br>74.0  | 55.9<br>43.3     | 0.951<br>0.765 | 55.1<br>42.7 | 0.926<br>0.891 | 102.0<br>76.1  | 2,448<br>1,826 |
| 8        | 123.73               | 221.7            | 0.00            | 3.7        | 218.0            | -46.7           | 160.2          | 125.00           |                    | -1148.2            | 0.0        | 160.2          | 2,039.4            | 123.79           | 80.1          | 46.9             | 0.813          | 46.3         | 0.906          | 83.8           | 2,011          |
| 9        | 123,78               | 193.2            | 0.01            | 3.7        | 189.5            | -37,4           | 180.6          | 125.00           |                    | -1139.2            | 0.0        | 180.6          | 2,040.2            | 123.80<br>123.88 | 90.3<br>57.4  | 52.9<br>33.7     | 0.902<br>0.653 | 52.1<br>33.3 | 0.922<br>0.831 | 96.1<br>55.3   | 2,306<br>1,327 |
| 10<br>11 | 123.83<br>123.88     | 190.8<br>190.8   | -0.03<br>0.00   | 3.7<br>3.7 | - 187.1<br>187.1 | -74.8<br>-56.2  | 114.7<br>130.9 | 125.00<br>125.00 | 2,138.6            | -1066.5<br>-1009.8 | 0.0<br>0.0 | 114.7<br>130.9 | 2,046.5<br>2,051.4 | 123.94           | 65.5          | 38.5             | 0.033          | 38.0         | 0.865          | 65.7           | 1,577          |
| 12       | 123.94               | 188.3            | 0.00            | 3.7        | 184.6            | -46.9           | 140.2          | 125.00           | 2,138.6            | -954.9             | 0.0        | 140.2          | 2,055.2            | 123.98           | 70.1          | 41.2             | 0.738          | 40.7         | 0.881          | 11.7           | 1,721          |
| 13       | 123.99               | 188,3            | -0.01           | 3.7        | 184.6            | -56.3           | 128.3          | 125.00           | 2,138.6            | 909.0              | 0.0        | 128.3          | 2,060.1            | 124.04           | 64.2          | 37.8             | 0.697          | 37.3         | 0.860          | 64.1<br>64.2   | 1,538          |
| 14<br>15 | 124.04<br>124.10     | 193.2<br>190.8   | 0.00<br>0.01    | 3.7<br>3.7 | 189.5<br>187.1   | ·-56.4<br>-37.6 | 128.2<br>151.9 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -847.3<br>-812.0   | 0.0<br>0.0 | 128.2<br>151.9 | 2,065.4            | 124.11           | 64.1<br>76.0  | 37.7<br>44.8     | 0.696<br>0.785 | 37.3<br>44.2 | 0.860<br>0.898 | 79.3           | 1,541<br>1,903 |
| 16       | 124.15               | 180.3            | 0.00            | 3.7        | 176.6            | -47.1           | 140.0          | 125.00           | 2,138.6            | .775.9             | 6.0        | 140.0          | 2,071.6            | 124.18           | 70.0          | 41.3             | 0.739          | 40.8         | 0.881          | 71.8           | 1,723          |
| 17       | 124.20               | 182.1            | -0.02           | 3.7        | 178.4            | -75.4           | 101.2          | 125.00           | 2,138.6            | 698.3              | 0.0        | 101.2          | 2,078.3            | 124.27           | 50.6          | 29.9             | 0.615          | 29.6         | 0.799          | 47.2<br>72.4   | 1,133          |
| 18<br>19 | 124.26<br>124.31     | 179.6            | 0.01            | 3.7<br>3.7 | 175.9<br>173.5   | -37.8<br>-56.7  | 140.6<br>119.2 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -662.6<br>-608.9   | 0.0<br>0.0 | 140.6<br>119.2 | 2,081.3<br>2,086.0 | 124.30<br>124.36 | 70.3<br>59.6  | 41.5<br>35.2     | 0.742<br>0.669 | 41.0<br>34.8 | 0.882<br>0.843 | 58.8           | 1,738<br>1,411 |
| 20       | 124.36               | 174.6            | 0.00            | 3.7        | 170.9            | -56.8           | 116.7          | 125.00           | 2,138.6            | -554.6             | 0.0        | 116.7          | 2,090.7            | 124.42           | 58.4          | 34.6             | 0.662          | 34.2         | 0.838          | 57.2           | 1,373          |
| 21       | 124.42               | 168.5            | 0.00            | 3.7        | 164.8            | -47.4           | 123.5          | 125.00           | 2,138.6            | -513.1             | 0.0        | 123.5          | 2,094.3<br>2,099.2 | 124.46<br>124.52 | 61.8          | 36.6             | 0.684          | 36.2         | 0.853<br>0.818 | 61.7<br>51.8   | 1,481<br>1,243 |
| 22<br>23 | 124.47<br>124.52     | 168.5<br>168.5   | -0.01<br>0.00   | 3.7<br>3.7 | 164.8<br>164.8   | -56.9<br>-57.0  | 107.9<br>107.8 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -455.8<br>-399.0   | 0.0<br>0.0 | 107.9<br>107.8 | 2,099.2            | 124.52           | 54.0<br>53.9  | 32.0<br>32.0     | 0.636<br>0.636 | 31.7<br>31.6 | 0.817          | 51.7           | 1,241          |
| 24       | 124.58               | 165.9            | 0.00            | 3.7        | 162.2            | -47.5           | 117.3          | 125.00           | 2,138.6            | -354.4             | 0.0        | 1173           | 2,108.0            | 124.63           | 58.7          | 34.9             | 0.665          | 34.5         | 0.840          | 57.9           | 1,390          |
| 25       | 124.63               | 165.9            | 0.00            | 3.7        | 162.2            | -47.6           | 114.6          | 125.00           | 2,138.6            | -306.6             | 0.0        | 114.6          | 2,112,1            | 124.65           | 57.3          | 34.1             | 0.657          | 33.7         | 0.834          | 56.2           | 1,349<br>1,349 |
| 26<br>27 | 124.68<br>124.73     | 163.5<br>161.1   | 0.00<br>0.00    | 3.7<br>3.8 | 159.8<br>157.3   | -47.6<br>-57.2  | 114.6<br>102.6 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -261.5<br>-206.9   | 0.0<br>0.0 | 114.6<br>(02.6 | 2,116.0<br>2,120.7 | 124.73<br>124.78 | 57.3<br>51.3  | 34.1<br>30.5     | 0.657<br>0.621 | 33.7<br>30.2 | 0.834<br>0.805 | 56.2<br>48.7   | 1,169          |
| 28       | 124.79               | 158.6            | -0.01           | 3.8        | 154.8            | -57.3           | 100.0          | 125.60           | 2,138.6            | -152.4             | 0.0        | 100.0          | 2,125.4            | 124.84           | 50.0          | 29.8             | 0.614          | 29.5         | 0.798          | 47.1           | 1,130          |
| 29       | 124.84               | 156.0            | 0.00            | 3.8        | 152.2            | -47.8           | 107.0          | 125.00           | 2,138.6            | -107.6             | 0.0        | 107.0          | 2,129.3            | 124.89           | 53.5<br>47.4  | 31.9             | 0.635          | 31.6         | 0.817          | 51.6           | 1,238<br>1,054 |
| 30<br>31 | 124.89<br>124.95     | 175.9<br>151.1   | 0.00            | 3.8        | 172.1<br>147.3   | -57.4<br>-28.8  | 94.8<br>143.3  | 125.00           | 2,138.6<br>2,138.6 | -30.3<br>-26.1     | 0.0<br>0.0 | 94.8<br>143.3  | 2,136.0<br>2,136.3 | 124.97<br>124.97 | 71,7          | 28.3<br>42.8     | 0.601<br>0.758 | 28.0<br>42.3 | 0.784<br>0.889 | 43.9<br>75.2   | 1,805          |
| 51       |                      | 185.5            |                 | 3.7        |                  |                 | • • • -        |                  |                    |                    | 0.0        | 131.1          |                    |                  |               |                  | -              |              |                |                | 49,079         |
| T        | 19 <b>1</b> 6        |                  |                 |            |                  |                 |                |                  |                    |                    |            |                |                    |                  |               |                  |                |              |                |                |                |
| 100,19   | 82 (irrg.≓<br>125.00 | 151.1            |                 | 4.7        | 146.4            | 86.2            | 233.5          | 125.00           | 2,138.6            | -113.7             | 0.0        | 233.5          | 2,128.8            | 124.88           | 77.8          | 46.5             | 0.808          | 45.8         | 0.905          | 124.5          | 2,988          |
| 2        | 124.83               | 156.0            | 0.00            | 4.7        | 151.3            | 57.4            | 203.8          | 125.00           | 2,138.6            | -165.9             | 0.0        | 203.8          | 2,124.3            | 124.83           | 67.9          | 40.5             | 0.730          | 40.0         | 0.877          | 105.3          | 2,527          |
| 3.       | 124.82               | 161.1<br>161.1   | 0.01            |            | 155.4<br>156.4   | 66.8<br>57.2    | 218.1<br>213.6 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -227.2<br>284.1    | 0.0<br>0.0 | 218.1<br>213.6 | 2,119.0<br>2,114.1 | 124.76<br>124.70 | 72.7          | 43.3<br>42.4     | 0.765<br>0.753 | 42.8<br>41.8 | 0.892<br>0.887 | 114.4<br>111.4 | 2,746<br>2,674 |
| 5        | 124.70               | 156.0            | 0.00            | 4,7        | 151.3            | 57.1            |                | 125.00           | 2,138.6            | 345.8              | 0.0        | 213.5          | 2,103.7            | 124.64           | 71.2          | 42.3             | 0.752          | 41.8         | 0.887          | 111.2          | 2,669          |
| 6        | 124.64               | 151.1            | 0.00            | 4.7        | 146.4            | 57.1            | 208.4          | 125.00           | 2,138.6            | -408.1             | 0.0        | 208.4          | 2,103.3            | 124.57           | 69.5          | 41.3             | 0.739          | 40.8         | 0.881          | 107.7          | 2,585          |
| 7        | 124.58               | 145.7            | -0.01           | 4.7        | 144.0            | 38.0            | 184.4 200.9    | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -449.0<br>-508.6   | 0.0        | 184.4<br>200.9 | 2,099.8            | 124.53<br>124.47 | 92.2<br>67.9  | 54.7<br>39.7     | 0.931<br>0.720 | 53.9<br>39.3 | 0.925<br>0.873 | 99.7<br>102.7  | 2,393<br>2,465 |
| 8<br>9   | 124.53<br>124.47     | 146.1<br>143.7   | 0.00            | 4.7        | 141.4            | 56.9<br>56.8    | 198.2          | 125.00           | 2,138.6            | -567.3             | 0.0        | 198.2          | 2,089.6            | 124.40           | 66.1          | 39.1             | 0.713          | 38.7         | 0.869          | 100.8          | 2 4 1 9        |
| 10       | 124.41               | 141.2            | -0.01           | 4.7        | 136.5            | 47.3            | 186.3          | 125.00           | 2,138.6            | -616.9             | 0.0        | 186.3          | 2,085.3            | 124.35           | 93.2          | 55.1             | 0.938          | 54.3         | 0.925          | 100.4          | 2,410          |
| 11       | 124.35<br>124.29     | 138.8<br>191.9   | 0.00            | 4.6        | 134.2            | 56.7<br>56.6    | 193.2<br>190.8 | 125.00           | 2,138.6<br>2,138.6 | -675.9<br>-679.4   | 0.0<br>0.0 | 193.2<br>190.8 | 2,050.2            | 124.29<br>124.29 | 64.4<br>63.6  | 38.1<br>37.6     | 0.701<br>0.695 | 37.6<br>37.1 | 0.862<br>0.859 | 97.3<br>95.7   | 2,335<br>2,297 |
| 12<br>13 | 124.23               | 133.8            | 0.06            |            | 187.3            | 113.2           |                | 125.00           | 2,138.6            | 850.7              | 0.0        | 300.5          | 2,065.1            | 124.10           | 100.2         | 59.1             | 1.005          | 58.1         | 0.927          | 161.6          | 3 878          |
| 14       | 124.17               | 133.8            | -0.07           | 4.6        | 129.2            | -9.4            | 119.8          | 125.00           | 2,138.6            | -841.3             | 0.0        | 119.8          | 2,065.9            | . 124.11         | 59.9          | 35.3             | 0.670          | 34.9         | 0.843          | 58.8           | 1,411          |
| 15       | 124.11               | 131.3<br>131.3   | 0.00            | 4.6        | 126.7            | 56.4            | 185.6<br>183.0 | 125.00           | 2,138.6            | -900.3<br>-956.8   | 0.0        | 185.6<br>183.0 | 2,060.8<br>2,055.9 | 124.05<br>123.99 | 92.8<br>91.5  | -54.6<br>53.8    | 0.929<br>0.917 | 53.8<br>53.0 | 0.925<br>0.924 | 99.S<br>97.9   | 2,388<br>2,350 |
| 16<br>17 | 124.05<br>123.99     | 128.9            | 0.00<br>0.00    | 4.6<br>4.6 | 126.7<br>124.3   | 56.3<br>56.3    | 183.0          | 125.00           | 2,138.6            |                    | 0.0        | 183.0          | 2,050.8            | 123.93           | 91.5          | 53.8             | 0.917          | 52.9         | 0.923          | 97.7           | 2,345          |
| 18       | 123.93               | 126.3            | 0.00            | 4.6        | 121.7            | 56.2            | 180.5          | 125.00           | 2,138.6            | -1075.0            | 0.0        | 180.5          | 2,045.7            | 123.87           | 90.3          | 53.0             | 0.904          | 52.2         | 0.922          | 96.2           | 2,309          |
| 19<br>20 | 123.87               | 123.9            | 0.00            | 4.6        | 119.3            | 56.1            |                | 125.00           | 2,138.6            |                    | 0.0        | 177.8          | 2,040,6<br>2,036.6 | 123.80<br>123.75 | 88.9<br>83.0  | 52.1             | 0.890          | 51.4<br>47,9 | 0.921<br>0.912 | 94.6<br>87.4   | 2,270<br>2,098 |
| 20<br>21 | 123.81<br>123.75     | 123.9<br>126.3   | -0.01<br>0.00   | 4.6<br>4.6 | 119.3<br>121.7   | 46.7<br>56.0    |                |                  | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 166.0<br>175.3 | 2,035.5            | 123.75           | 87.7          | 48.6<br>51.3     | 0.838          | 47.9<br>50.6 | 0.912          | 92.9           | 2,230          |
| 22       | 123.69               | 138.8            | 0.01            | 4.6        | 134.2            | 65.2            | 186.9          | 125.00           | 2,138.6            | -1286.5            | 0.0        | 186.9          | 2,027.4            | 123.64           | . 93.5        | 54.7             | 0.931          | 53.8         | 0.925          | 99.5           | 2,388          |
| 23       | 123.63               | 151.1            | 0.01            | 4.6        | 146.5            | 55.8            | 190.0          | 125.00           | 2,138.6            |                    | 0.0        | 190.0          | 2,023.6            | 123.59           | 95.0          | 55.5             | 0.944          | 54.6         | 0.925          | 101.1<br>107.3 | 2,426<br>2,575 |
| 24<br>25 | 123.58<br>123.52     | 146.1<br>136.2   | 0.01<br>-0.01   | 4.6<br>4.6 | 141.5<br>131.6   | 65.1<br>46.4    | 211.6<br>187.9 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 211.6<br>187.9 | 2,017.5<br>2,012.6 | 123.51<br>123.45 | 70.5<br>94.0  | . 41.1<br>· 54.8 | 0.737<br>0.933 | 40.6<br>53.9 | 0,880<br>0,925 | 99.7           | 2,393          |
| 26       | 123.46               | 123.9            | -0.01           | 4.5        | 119.4            | 46.3            | 177.9          | 125.00           | 2,138.6            | -1516.8            | 0.0        | 177.9          | 2,007.5            | 123.39           | 89.0          | 51.8             | 0.885          | 51.1         | 0.920          | 93.9           | 2,254          |
| 27       | 123.40               | 128.9            | -0.01           | 4.5        | 124.4            | 46.3            | 165.7          | 125.00           | 2,138.6            | -1558.7            | 0.0        | 165.7          | 2,003.9            | 123.35           | 82.9          | 48.2             | 0.832          | 47.6         | 0.911          | 86.6<br>100.1  | 2,078<br>2,402 |
| 28<br>29 | 123.34<br>123.28     | 126.3<br>123.9   | 0.01            | 4.5<br>4.5 | 121.8<br>119.4   | 64.7<br>46.1    | 189.1<br>167.9 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0 | 189.1<br>167.9 | 1,998.1<br>1,993.9 | 123.27<br>123.22 | 94.6<br>84.0  | 55.0<br>48.8     | 0.936<br>0.841 | 54.1<br>48.1 | 0.925<br>0.913 | 87.7           | 2,402          |
| 30       | 123.22               | 121.7            | 0.00            | 4.5        | 117.2            | 110.5           |                |                  | 2,138.6            |                    | 0.6        | 229.9          | 1,984.2            | 123.10           | 76.6          | 44.4             | 0.779          | 43.8         | 0.896          | 117.9          | 2,830          |
|          |                      | 140.1            |                 | 4.6        |                  | 11              |                |                  |                    |                    | 0.0        | 194,1          |                    |                  |               |                  |                |              |                |                | 73,238         |

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#### Table 7.2.10 (3/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1970)

|                 | Rule<br>At beg.  | RWI                 |                           | livp.      | lnf<br>Evp.    | Recv.<br>RC  | inf.1+<br>Qt+<br>RC | PSHL,            | FSHL<br>Vol.       | Qsp<br>FSHL        | Spill       | 444             | Rsv.Vol              | R₩1.<br>At end   | Q              | Power          | Loss           | Power        | Esta           | Power         | Energy          |
|-----------------|------------------|---------------------|---------------------------|------------|----------------|--------------|---------------------|------------------|--------------------|--------------------|-------------|-----------------|----------------------|------------------|----------------|----------------|----------------|--------------|----------------|---------------|-----------------|
| Tut. 1          |                  | ≈70.9 m3/s          |                           |            |                |              |                     | · · ·            |                    |                    |             |                 | •                    |                  |                |                |                |              |                | 1.            |                 |
| 1               | 123.10           | 114.9               | 0.00                      | 5.1        | 109.8          | 27.6<br>9.2  | 144,8<br>119.0      | 125.00<br>125,00 |                    | -1822.0<br>-1828.9 | 0.0<br>0.0  | 144,8<br>119,0  | 1,981.2<br>1,980.6   | 123.06<br>123.05 | 72.4<br>59.5   | 41.9<br>34.4   | 0.747<br>0.660 | 41.4<br>34.1 | 0.885<br>0.837 | 73.3<br>57.0  | 1 759<br>1 368  |
| 2<br>3          | 123.07<br>123.05 |                     | 0.01                      | 5.1<br>5.1 | 111.9          | 9.2          | 121.1               | 125.00           | 2,138.6            | -1837.9            | 0.0         | 121.1           | 1,979.8              | 123.04           | 60.6           | 35.1           | 0.667          | 34.7         | 0.842          | 58.3          | 1,399           |
| 4               | 123.04<br>123.02 |                     | 0.00                      | 5.1<br>5.1 | 114.2<br>114.2 | 18.4<br>9.2  | 130.3<br>123.4      | 125.00<br>125.00 | 2,138.6            | -1854.1<br>-1863.4 | 0.0         | 130.3<br>123.4  | 1,978,4<br>1,977.6   | 123.02<br>123.01 | 65.2<br>61.7   | 37.7<br>- 35.7 | 0.696<br>0.674 | 37.3<br>35.3 | 0.860<br>0.846 | 64.1.<br>59.7 | 1,538<br>1,433  |
| 5<br>6          | 123.02           |                     | 0.00                      | 5.1        | 109.5          | 18.4         | 132.6               | :125.00          | 2,138,6            | -1886.5            | 0.0         | 132.6           | 1 975.6              | 122.99           | 66.3           | 38.3           | 0.703          | 37.9         | 0.864          | 65.5          | 1,572           |
| 7               | 122.99           |                     | 0.00<br>0.00              | 5.1<br>5.1 | 107.1<br>107.1 | 9.2<br>18.3  | 118.7<br>125.4      | 125.00           | 2,138.6            | -1898.2<br>-1916.4 | 0.0<br>0.0  | 118.7           | 1.974.6              | 122.98<br>122.96 | 59.4<br>62.7   | 34.3<br>36.2   | 0.659          | 34,0<br>35.8 | 0.836          | 56.7<br>60.9  | 1,361           |
| 8<br>9          | 122.98<br>122.96 |                     | 0,00                      | 5.1        | 107.1          | 18.3         | 125.4               | 125.00           | 2,138.6            | -1935.0            | 0.0         | 125.4           | 1.971.4              | 122.94           | 62.7           | 36.2           | 0.679          | 35.8         | 0.850          | 60.9          | 1,462           |
| 10              | 122.94           |                     |                           | 5.1<br>5.1 | 104.8<br>104.8 | 9.2<br>9.2   | 116.3<br>114.0      | 125.00<br>125.00 | 2,138.6            | -1946.7<br>-1956.0 | 0.0<br>0.0  | 116.3<br>114.0  | 1,970.4              | 122.92<br>122.91 | 58.2<br>57.0   | 33.6<br>32.9   | 0.652          | 33.2         | 0.830          | 55.1<br>53.6  | 1,322           |
| 11<br>12        | 122.93<br>122.91 |                     | 0.00                      | 5.1        | 104.8          | 9.2          | 114.0               | 125.00           | 2,138.6            | -1965.2            | Q.Q         | 114.0           | 1,968.8              | 122.90           | \$7.0          | 32.9           | 0.645          | 32.5         | 0.824          | 53.6          | 1,286           |
| 13              | 122.90           |                     | 0.00<br>0.02              | 5.1<br>5.0 | 116.6<br>112.0 | 18.3<br>27.5 | 123,1<br>144,1      | 125.00           | 2,138.6<br>2,138.6 | -1971.8<br>-2004.3 | 0.0         | 123.1<br>144.1  | 1.968.2<br>1.965.4   | 122.90<br>122.86 | 61.6           | 35.6<br>41.6   | 0.673          | 35.2<br>41.1 | 0.845<br>0.883 | 59.4<br>72.5  | 1,426           |
| 14<br>15        | 122.88<br>122.87 |                     | 0.02                      | 5.0        | 112.0          | 9,1          | 121.1               | 125.00           | 2,138.6            | -2013.7            | 0.0         | 121.1           | 1,964.6              | 122.85           | 60.6           | 35.0           | 0.666          | 34.6         | 0.841          | 58,1          | 1,394           |
| 16              | 122.85           |                     |                           | 5.0<br>5,0 | 109.6<br>107.2 | 18.3         | 130.3<br>118.7      | 125.00           | 2,138.6            | -2034.6<br>-2046.2 | 0.0<br>0.0  | 130.3<br>118.7  | 1.962.8              | 122.83           | 65.2<br>59.4   | 37.6<br>34.2   | 0.695<br>0.658 | 37.2         | 0.859          | 63.8<br>56.6  | 1,531           |
| 17<br>18        | 122.83<br>122.82 |                     | 0.00                      | 5.0        | 104.3          | 18.3         | 125.5               | 125.00           | 2,138.6            | 2067.5             | 0.0         | 125.5           | 1,960.0              | 122.79           | 62.8           | 36.2           | 0.679          | 35.8         | 0.850          | 60.8          | 1,459           |
| 19              | 122.80           |                     | -0.01<br>0.00             | 5.0<br>5.0 | 102.5<br>102.5 | 0.0<br>18.3  | 104.3<br>120.8      | 125.00           | 2,138.6<br>2,138.6 | -2068.9<br>-2087.7 | 0.0         | 104.3<br>120.8  | 1,959.8<br>1,958.2   | 122.79<br>122.77 | 52.2<br>60.4   | 30.1<br>34.8   | 0.617<br>0.664 | 29.8<br>34.4 | 0.801          | 47.6<br>57.8  | 1,142           |
| 20<br>21        | 122.79<br>122.77 |                     | 0.00                      | 5.0        | 102.5          | 9.1          | 111.6               | 125.00           | 2,138.6            | -2097.1            | 0.0         | 111.6           | 1,957.4              | 122.76           | 55.8           | 32.1           | 0.637          | 31.8         | 0.819          | 52.1          | 1,250           |
| 22              | 122.76           |                     | 0.00                      | 5.0        | 100.2<br>100.2 | 18.3<br>9.1  | 120.8<br>109.3      | 125.00<br>125.00 |                    | -2117.8            | 0.0<br>0.0  | 120.8<br>109.3  | 1,955.6<br>1,954.8   | 122.74<br>122.73 | 60.4<br>54.7   | 34.8<br>31.5   | 0.664<br>0.631 | 34,4<br>31,1 | 0.840          | 57,8<br>50.6  | 1 387<br>1 214  |
| 23<br>24        | 122.74           |                     |                           | 5.0<br>5.0 | 97.8           | 18.2         | 118.4               | 125.00           |                    | -2147.9            | 0.0         | 118,4           | 1,953.0              | 122.70           | 59.2           | 34.1           | 0.657          | 33.7         | 0.834          | 56.2          | 1,349           |
| 25              | 122.71           | 102.8               | 0.01                      | 5.0        | 97.8           | 9.1          | 106.9               | 125.00           | 2,138.6<br>2,138.6 | -2157.2            | 0.0         | 106.9<br>106.9  | 1.952.2              | 122,69<br>122,71 | 53.5<br>53.5   | 30.8<br>30.8   | 0.624          | 30.4<br>30.4 | 0.806          | 49.0<br>49.0  | 1,176<br>1,176  |
| 26<br>27        | 122.69<br>122.68 |                     | 0.00<br>0.03              | 5.0<br>5.0 | 118.9<br>112.0 | 9.1<br>45.6  | 106.9               | 125.00           | 2,138.6            | -2145.4<br>-2198.3 | 0.0         | 164.5           | 1,955.2              | 122.65           | 82.3           | 47.3           | 0.819          | 46.7         | 0.908          | 84.7          | 2 033           |
| 28              | 122.66           | 112.2               | 0.01                      | 5.0        | 107.2          | 0.0          |                     | 125.00           | 2,138.6            | -2202.7            | 0.0         | 112.0           | 1,948.3              | 122.64           | 56.0           | 32.2<br>33.4   | 0.638          | 31.8<br>33.1 | 0.819          | 52.1<br>54.8  | 1,250<br>1,315  |
| 29<br>30        | 122.65<br>122.63 |                     | 0.01                      | 5.0<br>5.0 | 102.5<br>100.2 | 9.1<br>9.1   | 116.3<br>111.6      | 125.00           | 2,138.6            | -2216.3<br>-2227.8 | 0.0<br>0.0  | 111.6           | 1,947,1<br>1,946.1   | 122.63<br>122.62 | 58.2<br>55.8   | 32.1           | 0.650<br>0.637 | 31.7         | 0.818          | 51.9          | 1,245           |
| 31              | 122.62           | 102.8               | 0.00                      | 5.0        | 97.8           | 18.2         | 118.4               | 125.00           |                    | -2248.6            | 0.0         | 118.4           | 1 944.3              | 122.59           | 59.2           | 34,0           | 0.656          | 33.6         | 0.833          | 56.0          | 1,344           |
|                 |                  | 111.8               |                           | 5.0        |                |              | 1                   |                  |                    |                    | 0.0         | 121.6           |                      |                  |                |                |                |              |                |               | 43,425          |
|                 |                  | .=57 <i>.</i> 6 m3/ |                           |            |                | ÷            | :                   |                  |                    |                    |             |                 | 1.042 *              | 133.69           |                |                | 0.433          | 30.4         | 0.805          | 48.9          | 1 174           |
| 1 2             | 122.60<br>122.58 |                     | -9.01<br>0.00             | 4,6<br>4,6 | 96.0<br>96.0   | 9.1<br>18-2  | 106.9<br>114.2      | 125.00<br>125.00 | 2,138.6            | -2259.7<br>-2277.5 | 0.0<br>0.0  | 106.9<br>114.2  | 1,943,4<br>1,941.8   | 122.58           | 53.5<br>57.1   | 30.7<br>32.8   | 0.623          | 30.4<br>32.4 | 0.805          | 48.9<br>53.4  | 1,174           |
| 3               | 122.56           | 100.6               | 0.00                      | 4.6        | 96.0           | 9.1          | 105.1               | 125.00           | 2,138.6            | -2286.9            | 0.0         | 105.1           | 1,941.0              | 122.55           | 52.6           | 30.2           | 0.618          | 29.9         | 0.802          | 47.9          | 1,150           |
| 4.              | 122.55           | 98.4                | 0.00<br>0.00              | 4.6        | 93.8<br>91.6   | 9.1<br>9.1   | 105.1<br>102.9      | 125.00           | 2,138.6            | +2298.3<br>+2309.9 | 0.0<br>0.0  | 105.1           | 1,940.0<br>1,939.0   | 122.54<br>122.53 | 52.6<br>51.5   | 30.2           | 0.618<br>0.612 | 29.9<br>29.2 | 0.802<br>0.795 | 47.9<br>46.5  | 1 150           |
| 5<br>6          | 122.54<br>122.53 | 96.2<br>96.2        | 0.00                      | 4.6        | 91.6           | 18.2         | 109.8               | 125.00           | 2,138.6            | -2328.4            | 0.0         | 109.8           | 1,937.4              | 122.51           | 54.9           | -31.5          | 0.631          | 31.1         | 0.813          | 50.6          | 1,214           |
| 7               | 122.51           | 96.2                | 0.00                      | 4.6        | 91.6           | 9.1          | 100.7<br>91.6       | 125.00           | 2,138.6 2,138.6    | -2337.8<br>-2338.0 | 0.0         | 100.7<br>91.6   | 1,936.6<br>1,936.6   | 122.49<br>122.49 | 50.4<br>91.6   | 28.9<br>52.5   | 0.605          | 28.6<br>51.7 | 0,790          | 45.1<br>47.6  | 1 082<br>1 142  |
| <u>s</u> .<br>9 | 122.50           | 96.2<br>96.2        | -0.01<br>0.00             | 4.6<br>4.6 | 91.6<br>91.6   | 0.0<br>9.1   | 100.7               | 125.00           | 2,138.6            | -2347.1            | 0.0         | 100.7           | 1,935.8              | 122.48           | 50.4           | 28.9           | 0.606          | 28,6         | 0.790          | 45.1          | 1,032           |
| 10              | 122.48           | 93.9                | 0.00                      | 4.6        | 89.3           | 18.1         | 109.7               |                  | 2,138.6            |                    | 0.0         | 109.7<br>98.4   | 1,934.0              | 122.46           | 54.9<br>49.2   | 28.2           | 0.631          | 31.1<br>27.9 | 0,813<br>0,783 | 50.6<br>43.7  | 1,214           |
| 11<br>12        | 122.46<br>122.45 | 93.9<br>93.9        | 0.00<br>0.00              | 4.6<br>4.6 | 89.3<br>89.3   | 9.1<br>9.1   | 98.4<br>98.4        | 125.00<br>125.00 | 2,138.6            | -2377.2<br>-2386.4 | 0.0         | 98.4<br>98.4    | 1,933.2<br>1,932.4   | 122.45           | 49.2           | 28.2           | 0.600          | 27.9         | 0.783          | 43.7          | 1,049           |
| 13              | 122.44           | 93.9                | 0.00                      | 4.6        | \$9.3          | 9.1          | 98.4                | 125.00           | 2,138.6            | -2395.7            | 0.0         | 98.4            | 1,931.6              | 122.43           | 49.2           | 28.2           | 0.600          | 27.9<br>30.4 | 0.783          | 43.7<br>49.0  | 1,049           |
| 14<br>15        | 122.43<br>122.41 | 93.9<br>91.7        | 0.00<br>0.00              | 4.6<br>4.6 | 89.3<br>87.1   | 18.1<br>9.1  | 107.4<br>98.4       | 125.00           | 2,138.6            | -2413.9<br>-2425.7 | 0.0<br>0.0  | 107.4<br>98.4   | 1,930.0<br>1,929.0   | 122.41<br>122.40 | 53.7<br>49.2   | 30.7<br>28.2   | 0.623          | 27.9         | 0,800          | 43.6          | 1 046           |
| 16              | 122.40           | 91.7                | 0.00                      | 4.6        | 87.1           | 9.1          | 96.2                | 125.00           | 2,138.6            | -2435.0            | 0.0         | 96.2            | 1,928.2              | 122.39           | 96.2           | 55.1           | 0.938          | 54.2         | 0.925          | 50.1          | 1,202           |
| 17              | 122.39           | 91.7<br>91.7        | 0,00<br>0.00              | 4.6<br>4.6 | . 87.1<br>87.1 | 9.1<br>18.1  | 96.2<br>105.2       | 125.00           | 2,138.6            | -2444.3            | 0.0<br>0.0  | 96.2<br>105.2   | 1,927.4<br>1,925.8   | 122.38           | 96.2<br>52.6   | 55.0<br>30.1   | 0.936          | 54,2<br>29,8 | 0.925          | 50.1<br>47.7  | 1,202           |
| 19              | 122.36           | 91. <b>7</b>        | 0.00                      | 4.6        | 87.1           | 9.0          | 96.1                | 125.00           | 2,138.6            | -2472.0            | 0.0         | 96.1            | 1,925.0              | 122.35           | 96.1           | 55.0           | 0.936          | 54.1         | 0.925          | 50.0          | 1,200           |
| 20<br>21        | 122.35           | 89.5<br>89.5        | 0.00<br>-0.01             | 4.6<br>4.6 | 84.9<br>84.9   | 9.0          | . 96.1<br>84.9      | 125.00           | 2,138.6            | -2483.4<br>-2483.8 | -0,0<br>0.0 | 96.1<br>84.9    | 1,924.0              | 122.33           | 96.1<br>84.9   | 54.9<br>48.5   | 0.934          | 54.1<br>47.8 | 0.925          | 50.0<br>43.6  | 1,200           |
| 22              | 122.33           | 89.5                | 0.00.                     | 4.6        | 84.9           | 18.1         | 103.0               | 125.00           | 2,138.6            | -2501.9            | 0.0         | 103.0           | 1 922.4              | 122.31           | 51.5           | 29.4           | 0.611          | 29.1         | 0.795          | 46.3          | 1,111           |
| 23              | 122.31<br>122.30 | 89.5<br>89.5        | 0.00 <sup>°</sup><br>0.00 | 4.6<br>4.6 | 84.9<br>84.9   | 9.0<br>9.0   | 93.9<br>93.9        | 125.00           | 2,138.6            | -2511.3<br>-2520.6 | 0.0         | 93.9<br>93.9    | 1,921,6<br>1,920.8   | 122,30<br>122.29 | 93.9<br>93.9   | 53.7<br>53.6   | 0.915<br>0.913 | 52.8<br>52.8 | 0.923          | 48.7<br>43.7  | 1,169           |
| 24<br>25        | 122.30           | 89.5                | 0.00                      | 4.6        | 84.9           | 9.0          | 93.9                | 125.00           | 2,138.6            | -2529.8            | 0.0         | 93.9            | 1,920.0              | 122.28           | 93.9           | 53.6           | 0.913          | 52.8         | 0.923          | 48.7          | 1,169           |
| 26              | 122.28           | 89.5                | 0.00                      | 4.6        | 84.9           | 18.1         | 103.0<br>93.9       | 125.00<br>125.00 | 2,138.6            | -2548.2<br>-2557.6 | 0.0<br>6.0  | 103.0<br>93.9   | 1,918.4<br>1,917.6   | 122.26           | 51.5<br>93.9   | 29.4<br>.53.6  | 0.611<br>0.913 | 29.1<br>57.8 | 0.795<br>0.923 | 46.3<br>48.7  | 1 111<br>1 169  |
| 27<br>28        | 122.26<br>122.25 | 89.5<br>89.5        | 0.00                      | 4.6        | 84.9<br>84.9   | 9.0<br>9.0   | 93.9<br>93.9        | 125.00           | 2,138.6            |                    | 0.0         | 93.9            | 1,916.8              | 122.24           | 93.9           | 53.0           | 0.913          | 52.8         | 0.923          | 43.7          | 1,169           |
| 29              | 122.24           | 89.5                | 0.00                      | 4.6        | 84.9           | 9.0          | 93.9                | 125.00           | 2,138.6            |                    | 0.0         | 93.9            | 1,916.0              | 122.23           | 93.9           | 53.6           | 0.913          | 52.7         | 0.923          | 48.7          | 1 169           |
| 30<br>31        | 122.23           | 89.5                | 0.00<br>0.00              | 4.6<br>4.5 | 84.9<br>84.9   | 18.0         | 102.9<br>93.9       | 125.00           |                    | -2594.4<br>-2603.9 | 0.0<br>0.0  | 102.9<br>93.9   | 1,914.4<br>1,913.6   | 122.21<br>122.20 | 51.5<br>93.9   | . 29.4<br>53.6 | 0.611<br>0.913 | 29.1<br>52.7 | 0.923          | 46.2          | 1,109           |
| 24              | 100.01           | 93.0                |                           | 4.6        | 0.112          |              |                     |                  |                    |                    | 0.0         | 99.6            |                      |                  |                |                |                |              |                |               | 35,484          |
| Sep. 1          | 1982 (Irrig      | .≈29.3 m3/          | s) ·                      |            | •              |              | e - 1               |                  | 6 gr - 1           | 15.2               |             |                 | - 1                  |                  |                |                | 3 <sup>2</sup> | Le rej       |                |               |                 |
| 1               | 122.20<br>122.14 | 89.5<br>89.5        |                           | 3.6<br>3.6 | 85.9<br>85.9   | 54.1<br>27.0 | 139.0<br>112.9      | 125.00<br>125.00 |                    | -2657.3<br>-2684.4 | 0.0<br>0.0  | 139.0<br>112.9  | 1,909.0<br>1,906.7   | 122.14<br>122.11 | 69.5<br>56.5   | 39.6<br>32.2   | 0.719          | 39.1<br>31.8 | 0.872<br>0.819 | 68.2<br>52.1  | 1,637<br>1,250  |
| 2               | 122.11           | 91.7                | 0.00                      | 3.6        | . 88.1         | 27.0         | 112.9               | 125.00           | 2,138.6            | -2708.8            | 0.0         | 112.9           | 1,904.6              | 122.09           | \$6.5          | 32.2           | 0.638          | 31.8         | 0.819          | 52.1          | 1,250           |
| 4               | 122.08           | 91.7                | 0.01                      |            | 88.1           | 36.0         | 124.1<br>106.1      | 125.00<br>125.00 | 2,138.6            | -2744.3            | 0.0<br>0.0  | 124.1<br>106.1  | 1,901.5<br>1,899.8   | 122.05           | 62.1<br>53.1   | 35,3<br>: 30,2 | 0.670<br>0.618 | 34.9<br>29.9 | 0.843          | 58.8<br>47.9  | 1,411<br>1,150  |
| 5<br>6          | 122.05<br>122.03 | 89.5<br>89.5        | 0.00<br>-0.01             | 3.6<br>3.6 | 85.9<br>85.9   | 18.0<br>18.0 | 103.9               | 125.00           | 2,138.6            | -2781.9            | 6.0         | 103.9           | 1,898.2              | 122.00           | 52.0           | 29.6           | 0.613          | 29.2         | 0.796          | 46.5          | 1,116           |
| 7               | 122.00           | 89.5                | 0.00                      | 3.6        | 85.9           | 26.9         |                     | 125.00           |                    | -2809.3            | 0.0         | 112.8<br>112.8  | 1,895.9              | 121.97           | - 56,4<br>56,4 | 32.0<br>32.0   | 0.636          | 31.7<br>31.7 | 0.818<br>0.818 | 51.9<br>51.8  | 1,246           |
| 8<br>9          | 121.97<br>121.94 | 87.4<br>87.4        | 0.00<br>0.00              | 3.6<br>3.6 | 83.8<br>83,8   | 26.9<br>26.9 | 112.8               | 125.00<br>125.00 | 2,138.6            |                    | 0.0         | 110.7           | 1,893.4<br>1,891.1   | 121.94           | 55.4           | 31.4           | 0.630          | 31.1         | 0.813          | 50.5          | 1 212           |
| 10              | 121.91           | 87.4                |                           | 3.6        | 83.8           | 26.9         |                     | 125.00           |                    | -2891.5            | 0.0         |                 | 1,888.8              | 121.88           | \$5.4          | 31.4           | 0.630          | 31.1         | 0.813          | 50.5          | 1 212           |
| 11<br>12        | 121.88<br>121.85 | 85.1<br>85.1        | 0.00                      | 3.6<br>3.6 | 81.5<br>81.5   | 26.8<br>26.8 | 110.6<br>108.3      | 125.00           | 2,138.6            |                    | 0.0         | 110.6           | 1,8\$6.3<br>1,8\$4.0 | 121,85<br>121,82 | 55.3<br>54.2   | 31.4           | 0.630          | 31.0<br>30.4 | 0.812<br>0.806 | 50.4<br>48.9  | 1,210<br>1,174  |
| 13              | 121.82           | 85.1                | 0.00                      | 3.6        | 81.5           | 26.8         | 108.3               | 125.00           | 2,138.6            | 2973.6             | 0.0         | 108.3           | 1 881 7              | 121.79           | 54.2           | . 30.7         | 0.623          | 39.4         | 0.806          | 48.9          | 1,174           |
| 14<br>15        | 121.79<br>121.76 | 85.1<br>85.1        | 0.00                      | 3.6<br>3.6 | 81.5<br>81.5   | 26.8<br>17.8 | 108.3<br>99.3       | 125.00           | 2,138.6            | -3009.2<br>-3017.8 | 0.0<br>0.0  | 108.3           | 1,879.4              | 121.76           | 54.2<br>99.3   | 30.7<br>56.2   | 0.623          | 30.4<br>55.3 | 0.806<br>0.926 | 48.9<br>51.2  | 1,174           |
| 15<br>16 ·      | 121.74           | 85.1                | 0,00                      | 3.6        | 81.5           | 26.8         | 108.3               | 125.00           | 2,138.6            | -3044.2            | 0.0         | 108.3           | 1,875.6              | 121.71           | 54.2           | 30.7           | 0.623          | 30.3         | 0.806          | 48.8          | 1,175           |
| 17              | 121.71           | 85.1                | 0.00                      | 3.6        | 81.5           | 26.7         |                     | 125.00           | 2,138.6            |                    | 0.0         |                 | 1,873.3              | 121.68           | 54.1<br>54.1   | 30.6           | 0.622          | 30.3         | 0.806          | 48.8<br>48.7  | 1,171           |
| 18<br>19        | 121.68<br>121.65 | 83.0<br>83.0        | 0.00 :<br>0.00            | 3.6<br>3.6 | 79.4<br>79.4   | 26.7<br>26.7 |                     | 125.00<br>125.00 |                    | -3099.4<br>-3126.2 | 0.0         | 106.1           | 1,868.5              | 121.62           | E 53.1 ·       | 30.0           | 0,616          | 29.7         | 0.800          | 47.4          | 1,138           |
| 20              | 121.62           | 83.0                | 0.00                      | 3.6        | 79.4           | 26.7         | 106.1               | 125.00           | 2,138.6            | 3152.9             | 0.0         | 106.1           | 1,866.2              | 121.59           | 53.1           | 30.0           | 0.616          | 29.7         | 0,800          | 47.4          | 1 138           |
| 21<br>22        | 121.59<br>121.56 | 83.0<br>83.0        | 0.00<br>0.00              | 3.6<br>3.6 | 79.4<br>79.4   | 26.7<br>26.6 | 106.1<br>106.0      | 125.00<br>125.00 | 2,138.6            |                    | 0.0         | 106.1<br>106.0  | 1,863.9<br>1,861.6   | 121.56           | 53.1<br>53.0   | 30.0           | 0.616          | 29.6<br>29.6 | 0.799          | 47.3          | 1,135<br>1,135  |
| 23              | 121.53           | 105.2               | 0.00                      | 3.6        | 101.6          | 26.6         | 106.0               | 125.00           | 2,138,6            | +3210.4            | 0.0         | 106.0           | 1,861.2              | 121-52           | \$3.0          | 29.9           | 0.615          | 29.6         | 0.799          | 47.2          | 1,133           |
| 24<br>25        | 121.50<br>121.47 |                     | 0.02                      | 3.6<br>3.6 | 90.3<br>79.4   | 44.4<br>8.9  |                     | 125.00           |                    | -3266.3<br>-3286.0 | U.0<br>0.0  | . 146.0<br>99.2 | 1,856.4              | 121.46<br>121.44 | 73.0<br>99.2   | 41.1<br>55.9   | 0.737<br>0.951 | 40.6         | 0.880          | 71.5          | 1 716<br>1 222  |
| 25              | 121.47           |                     | -0.01                     | 3.6        | 77.2           | 17.7         | .97.1               | 125.00           | 2,138.6            | -3305.8            | 0.0         | 97.1            | 1.853.0              | 121.42           | 97.1           | 54.6           | 0.929          | 53.8         | 0.925          | 49.7          | 1,193           |
| 27              | 121.42           |                     | 0.00                      | 3.5        | 79.5<br>81.6   | 26.6<br>26.5 | 103,8               | 125,00<br>125,00 | 2,138.6            | -3329.9<br>-3354.3 | 0.0<br>0.0  | 163.8<br>106.0  | 1,850.9<br>1,848.8   | 121.39<br>121.36 | 51.9<br>53.0   | 29.2<br>29.8   | 0.669          | 28.9<br>29.5 | 0.793<br>0.793 | 45.8          | 1,099           |
| 28<br>29        | 121.39<br>121.36 |                     | 0.00<br>0.00              | 3.5<br>3.5 | 81.6           | 26.5         |                     |                  | 2,138.6            |                    | 0.0         | 108.1           | 1,846.5              | 121.33           | 54.1           | 30.4           | 0.620          | 30.1         | 0,864          | 48.3          | 1,159           |
| 30              | 121.33           | 85.1                |                           | 3,5        | 81.6           | 26.5         |                     |                  | 2,138.6            |                    | 0.0         | 108.1           | 1.844.2              | 121.30           | 54.1           | 36.4           | 0.620          | 30.1         | 0.804          | 48.3          | 1,159<br>36,556 |
|                 |                  | 86.8                |                           | 3.6        |                |              |                     |                  |                    |                    | 0.0         | 110.1           |                      |                  |                |                |                |              |                |               | 0,000           |
|                 |                  |                     |                           |            |                |              |                     |                  | C                  | - 106              |             | · * .           |                      |                  |                |                |                |              |                |               |                 |
|                 |                  |                     |                           |            |                |              |                     |                  | $\sim$             | 100                |             |                 |                      |                  |                |                |                |              |                |               |                 |

#### Table 7.2.10 (4/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1970)

|   |   |  |  |   |  |   |   |  |   | 1000  |  |   |   |  | ,  |  |   |  |   |   |   |
|---|---|--|--|---|--|---|---|--|---|---|--|---|---|--|--|--|---|--|---|---|---|
|   | Rule<br>At bog.   | RW<br>Inflow   | L-RC   | <u>vp.</u>  | lnf.<br>Evp.   | Recv.<br>RC   | Inf.1+<br>Qt+<br>RC   | FSHL   | PSHL<br>Vol.  | Qsp<br>PSHL   | Spill  | <u>HP</u>   | Rsv.Vol   | RWL<br>At end  | Q_   | Power  | Loss  | Power<br>F   | ata   | Power   | Energy  |
| Oct.<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31                     | 1982 (Irrig,<br>121.30<br>121.21<br>121.21<br>121.13<br>121.08<br>120.99<br>120.95<br>120.91<br>120.86<br>120.82<br>120.73<br>120.64<br>120.62<br>120.64<br>120.65<br>120.51<br>120.47<br>120.43<br>120.64<br>120.51<br>120.44<br>120.38<br>120.38<br>120.34<br>120.38<br>120.34<br>120.38<br>120.34<br>120.38<br>120.34<br>120.39<br>120.45<br>120.25<br>120.21<br>120.47<br>120.43<br>120.38<br>120.38<br>120.38<br>120.39<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.45<br>120.51<br>120.55<br>120.51<br>120.55<br>120.51<br>120.55<br>120.51<br>120.55<br>120.51<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120.55<br>120 | =6.3 m3/s<br>89.8<br>89.8<br>89.8<br>87.4<br>87.4<br>92.4<br>92.4<br>92.4<br>92.4<br>92.4<br>92.4<br>92.4<br>10.3<br>10.0<br>110.3<br>100.1<br>95.1<br>92.4<br>92.4<br>92.4<br>92.4<br>92.4<br>92.4<br>92.4<br>92.4  | 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161,0<br>131,4<br>122,6<br>131,4<br>111,3<br>128,9<br>133,8<br>121,9<br>80,0<br>168,8<br>142,7<br>122,4<br>124,7<br>124,7<br>124,7<br>124,7<br>133,0<br>121,5<br>130,0<br>121,5<br>121,4<br>128,1<br>119,5<br>121,4<br>128,1<br>119,5<br>121,8<br>119,5<br>121,4<br>128,5<br>121,5<br>121,8<br>119,5<br>121,8<br>119,5<br>121,4<br>121,5<br>121,8<br>119,5<br>121,4<br>121,5<br>121,8<br>121,5<br>121,8<br>121,5<br>121,8<br>121,5<br>121,8<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>121,5<br>1 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-3258.1<br>-3149.8<br>-3062.6<br>-2956.9<br>-2956.9<br>-2864.1<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767.2<br>-2767. | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | <ul> <li>161.0</li> <li>131.4</li> <li>111.3</li> <li>122.6</li> <li>131.4</li> <li>111.3</li> <li>128.9</li> <li>133.7</li> <li>121.8</li> <li>121.8</li> <li>121.4</li> <li>122.7</li> <li>122.7</li> <li>123.7</li> <li>121.5</li> <li>121.4</li> <li>121.8</li> <li>131.1</li> </ul>  | $\begin{array}{c} 1,837.8\\ 1,831.0\\ 1,827.0\\ 1,821.0\\ 1,824.7\\ 1,821.3\\ 1,817.5\\ 1,814.5\\ 1,804.3\\ 1,814.5\\ 1,804.3\\ 1,797.2\\ 1,799.6\\ 1,797.2\\ 1,799.6\\ 1,794.3\\ 1,797.2\\ 1,794.5\\ 1,774.5\\ 1,774.5\\ 1,774.5\\ 1,774.5\\ 1,764.8\\ 1,764.7\\ 1,785.7\\ 1,761.1\\ 1,742.5\\ 1,761.1\\ 1,738.7\\ 1,761.1\\ 1,738.7\\ 1,761.1\\ 1,778.7\\ 1,778.5\\ 1,778$  | 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| Nov 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>12<br>22<br>23<br>24<br>22<br>23<br>24<br>22<br>23<br>24<br>25<br>26<br>29<br>30 | . 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0.918<br>0.852<br>0.861<br>0.852<br>0.855<br>0.855<br>0.855<br>0.922<br>0.922<br>0.922<br>0.922<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.839<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.922<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.9210<br>0.9210<br>0.9210<br>0.92100000000000000000000000000000000000                                   | 92.3<br>61.5<br>64.3<br>56.6<br>61.4<br>56.4<br>61.2<br>98.5<br>101.0<br>96.5<br>95.8<br>38.1<br>37.5<br>37.5<br>37.5<br>37.5<br>37.5<br>37.5<br>37.5<br>37.5   | 2,215<br>1,476<br>1,548<br>1,517<br>1,354<br>1,474<br>1,354<br>1,469<br>1,584<br>2,354<br>2,424<br>2,364<br>2,424<br>2,364<br>2,424<br>2,369<br>914<br>900<br>900<br>900<br>900<br>900<br>900<br>900<br>900<br>900<br>90  |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>20<br>27<br>28<br>29<br>30<br>31                 | 1982<br>118.10<br>117.91<br>117.81<br>117.71<br>117.62<br>117.52<br>117.52<br>117.53<br>117.03<br>117.03<br>117.03<br>117.03<br>116.94<br>116.64<br>116.65<br>116.65<br>116.65<br>116.65<br>116.65<br>116.66<br>116.16<br>116.07<br>115.57<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.58<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59<br>115.59  | 125.1<br>123.1<br>169.7<br>270.7<br>270.7<br>200.7<br>178.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>157.4<br>128.9<br>123.1<br>120.5<br>118.0<br>129.1<br>120.5<br>118.0<br>102.5<br>102.6  | 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|   | 133.0<br>128.1<br>124.3<br>122.3<br>168.9<br>269.9<br>199.7<br>166.6<br>196.1<br>191.1<br>128.1<br>122.3<br>119.7<br>1172.1<br>112.1<br>119.5<br>107.9<br>107.0<br>107.0<br>107.0<br>107.0<br>107.0<br>107.0<br>107.0<br>107.0<br>107.0<br>104.4<br>101.8<br>101.9<br>101.9<br>99.4<br>99.4<br>99.4<br>99.4<br>99.4<br>99.4<br>99.4<br>9                                     | 130.4<br>56.9<br>72.9<br>72.8<br>80.7<br>128.8<br>88.1<br>63.9<br>55.7<br>111.3<br>71.3<br>15.8<br>71.0<br>70.8<br>78.5<br>62.6<br>78.1<br>77.9<br>69.9<br>77.5<br>69.5<br>69.4<br>76.7<br>76.5<br>69.4<br>76.7<br>76.5<br>68.6<br>76.1<br>75.9<br>68.1<br>67.9 | 197.1<br>203.0<br>297.7<br>360.0<br>228.0<br>228.0<br>228.0<br>228.0<br>221.2<br>307.4<br>262.4<br>163.9<br>193.3<br>190.5<br>195.7<br>187.6<br>183.9<br>195.7<br>187.6<br>184.9<br>195.7<br>174.7<br>187.6<br>184.9<br>195.7<br>174.7<br>187.6<br>174.7<br>175.9<br>168.0<br>175.9<br>166.9  | 118.60   | $\begin{array}{c} 1,644.6\\ 1,644$  | -1506.6<br>-1580.5<br>-1654.3<br>-1737.5<br>-1802.5<br>-1802.5<br>-1882.7<br>-1961.0<br>-2030.5<br>-2110.2<br>-22510.2<br>-2258.1<br>-2406.7<br>-2482.8<br>-2551.2<br>-2629.6<br>-2629.6<br>-2705.5   | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 288.3<br>189.9<br>201.0<br>297.7<br>360.0<br>241.5<br>212.3<br>390.5<br>212.3<br>193.3<br>190.5<br>195.7<br>195.7<br>195.7<br>195.7<br>195.7<br>195.7<br>195.7<br>195.7<br>174.7<br>184.9<br>175.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9<br>173.9 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1,593.6<br>1,588.3<br>1,581.7<br>1,575.2<br>1,576.3<br>1,546.6<br>1,539.3<br>1,546.6<br>1,537.9<br>1,537.9<br>1,537.9<br>1,537.9<br>1,537.9<br>1,537.9<br>1,537.9<br>1,537.9<br>1,537.9<br>1,537.9<br>1,547.9<br>1,547.9<br>1,494.5<br>1,494.5<br>1,469.2<br>1,469.2<br>1,469.2<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450.1<br>1,450. | 117.88<br>117.80<br>117.71<br>117.52<br>117.58<br>117.54<br>117.21<br>117.10<br>117.08<br>116.93<br>116.74<br>116.54<br>116.74<br>116.54<br>116.74<br>116.56<br>116.26<br>116.26<br>116.26<br>116.26<br>116.26<br>116.26<br>115.96<br>115.58<br>115.58<br>115.58<br>115.58<br>115.99<br>115.19<br>115.09   | 96.1<br>95.0<br>100.5<br>98.6<br>101.5<br>99.2<br>102.5<br>87.5<br>102.5<br>87.5<br>96.7<br>95.3<br>97.9<br>87.4<br>95.3<br>97.9<br>87.4<br>93.8<br>92.5<br>88.5<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.8<br>87.0<br>87.0 | 50.8<br>50.1<br>52.9<br>51.9<br>53.3<br>52.1<br>62.8<br>55.3<br>53.2<br>53.2<br>53.2<br>53.2<br>53.2<br>53.2<br>53.2   | 0.870<br>0.860<br>0.987<br>0.887<br>0.887<br>0.969<br>0.890<br>0.747<br>0.747<br>0.791<br>0.850<br>0.864<br>0.845<br>0.864<br>0.840<br>0.845<br>0.845<br>0.845<br>0.845<br>0.705<br>0.707<br>0.791<br>0.797<br>0.777<br>0.766<br>0.7731   | 50,0<br>52,4<br>52,4<br>51,2<br>52,4<br>51,2<br>52,4<br>51,2<br>52,4<br>51,2<br>52,4<br>52,4<br>52,3<br>52,3<br>41,3<br>52,3<br>41,3<br>52,3<br>44,6<br>44,5<br>44,5<br>44,5<br>44,5<br>44,6<br>44,5<br>44,6<br>44,5<br>54,4<br>44,6<br>44,5<br>54,4<br>44,6<br>44,5<br>44,6<br>44,5<br>44,6<br>44,5<br>44,6<br>44,5<br>44,6<br>44,5<br>44,6<br>44,5<br>44,5 | 0.91x<br>0.914<br>0.920<br>0.920<br>0.920<br>0.924<br>0.925<br>0.925<br>0.922<br>0.925<br>0.925<br>0.925<br>0.931<br>0.945<br>0.913<br>0.916<br>0.935<br>0.910<br>0.936<br>0.935<br>0.940<br>0.956<br>0.956<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.950<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.952<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.955<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855<br>0.855 | 84.6<br>80.0<br>83.9<br>78.0<br>76.4<br>80.3<br>80.0<br>78.4<br>73.9<br>78.4<br>73.9<br>77.8<br>76.1<br>71.8  | 3,305<br>2,167<br>2,304<br>2,523<br>3,394<br>4,997<br>3,252<br>2,630<br>2,410<br>3,473<br>2,892<br>2,155<br>2,115<br>2,155<br>2,117<br>1,906<br>2,066<br>2,030<br>1,920<br>2,014<br>1,872<br>1,872<br>1,872<br>1,872<br>1,927<br>1,927<br>1,927<br>1,926<br>2,166<br>2,030<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927<br>1,927 |
|   |   | -1.07  |  |   |  |   |   |  | <b>C</b>  | 107   |  |   |   |  |  |  |   |  |   |   |   |

#### Table 7.2.11 (1/4) Çatalan Dam Daily Reservoir Operation (Without System, Flow in 1975)

|           |                  | 5.01                  |                 |              |                | 9                | IU[]+          | FSHL             | PSHL               | Qsp                | Spil)         |                  | Rsv,Vol            | RWL              |                | Power        |                  | Power          |                  |                |                  |
|-----------|------------------|-----------------------|-----------------|--------------|----------------|------------------|----------------|------------------|--------------------|--------------------|---------------|------------------|--------------------|------------------|----------------|--------------|------------------|----------------|------------------|----------------|------------------|
|           |                  | Inflow                | L-RC            | Evp.         | Inf<br>Evp.    | Recv.<br>RC      | Qt+<br>RC      |                  | Vol.               | FSIII.             |               | HP               | 1,398.7            | At end           | Q              |              | Loss             |                | ata 1            | 10%01          | Energy           |
|           | 15.00            | 137.5                 | 0.00            | 0.7          | 136.8          | -67.9            |                | 118.60           |                    | -2974.6<br>-2920.2 | 0.0<br>0.0    | 265.3<br>80,0    | 1,387.6<br>1,392.3 | 114.83<br>114.90 | 86.4<br>80.0   | 44.1<br>39.9 | 0.775            | 43.4<br>39.3   | 0.894            | 116.5<br>34.3  | 2,796<br>823     |
|           | 15.09            | 135.0<br>137.5        | -0.26<br>-0.24  | 0.7          | 134.3<br>136.8 | -233.6<br>-218.9 | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6<br>1,644.6 |                    | 0.0           | 80.0             | 1,397.2            | 114.98           | 80.0           | 39.9         | 0.722            | 39.4           | 0.873            | 34.4           | 826              |
|           | 15.19            | 135.0<br>132.6        | -0.21<br>-0.18  | 0.7<br>0.7   | 134.3<br>131.9 | -189.D<br>-174.2 | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2809.1<br>-2757.1 | 0.0<br>0.0    | 80.0<br>80.0     | 1,401.9<br>1,406.4 | 115.05           | 0.08<br>80.0   | 49,0<br>40,1 | 0.723<br>0.725   | 39.4<br>39.5   | 0.873<br>0.874   | 34.4<br>34.5   | 824<br>828       |
| 6 1       | 15.28            | 130.1                 | -0.16           | 0.8          | 129.3          | -159.3           | 80.0           | 118.60           | 1,644.6            | -2707.6            | 0.0           | 80.0             | 1,410.7            | 115.18           | 80.0<br>.80.0  | 40.1<br>40.2 | 0.725<br>0.726   | 39.5<br>39.6   | 0.874            | 34.6<br>34.6   | 830<br>830       |
|           | 15.33            | 127.5                 | -0.15<br>-0.13  | 0.8          | 126.7<br>126.7 | -151.9<br>-129.3 | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2660.5<br>-2614.2 | 0.0           | 80.0<br>80.0     | 1,414,7            | 115.25           | 80.0           | 40.2         | 0.726            | 39.6           | 0,875            | 34.7           | 833              |
| 9 1       | 15.42            | 127.5                 | -0.11           | 0.8          | 126.7<br>159.0 | -121.9<br>-114.4 | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6            |                    | 0.0           | 80.0<br>80.0     | 1,422.7<br>1,429.5 | 115.37<br>115.47 | 80.0<br>80.0   | 40.3<br>40.3 | 0.727<br>0.727   | 39.7<br>39.7   | 0.875            | 34.7<br>34.8   | 833<br>835       |
| 11 1      | 15.47<br>15.52   | 159.8<br>769.3        | -0.05           | 0.8          | 768.5          | -65.8            | 90.2           | 118.60           | 1,644.6            | -1811.3            | 0.0           | 90.2             | 1,488.1            | 116.35           | 90.2           | 45.9         | 0.800            | 45.2           | 0.992            | 40.8<br>167.4  | 979<br>4,018     |
|           | 15.56            | 380.3<br>271.9        | 0.79<br>0.76    | 0.8<br>0.8   | 379.5<br>271.1 | 572.7<br>550.0   | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6            | -1791.8<br>-1880.6 | 0.0<br>0.0    | 360.0<br>360.0   | 1,489.8<br>1,482.1 | 116.37           | 120.0          | 61.6<br>61.5 | 1.049            | 60.3<br>60.3   | 0.925<br>0.925   | 167.3          | 4,015            |
| 14 1      | 15.66            | 229.2                 | 0.60            | 0.8          | 228.4          | 433.4            | 360.0          | 118,60           | 1,644.6<br>1,644.6 | -2012.4<br>-2172.8 | 0.0<br>0.0    | 360.0<br>360.0   | 1,470.7            | 116.09<br>115.88 | 120.0<br>120.0 | 61.4<br>61.1 | 1.045            | 60.1<br>59.9   | 0.925            | 166.9<br>166.4 | 4,006<br>3,994   |
|           | 15.70            | 200.7<br>180.3        | 0.39<br>0.13    | 0.8<br>0.8   | 199.9<br>179.5 | 262.7            | 360.0<br>261.6 | 118.60<br>118.60 | 1,644,6            | -2254.6            | 0.0           | 261.6            | 1,449.8            | 115.78           | 87.2           | 44.3         | 0.778            | 43.6           | 0.895            | 117.1          | 2,810            |
|           | 15.80            | 171.0<br>165.9        | -0.02<br>-0.02  | 0.8<br>0.8   | 170.2<br>165.1 | -46.2            | 133.3<br>116.2 | 118.60<br>118.60 | 1,644.6            | -2217.7<br>-2168.7 | 0,0<br>0.0    | - 133.3<br>116.2 | 1,453.0<br>1,457.2 | 115.82<br>115.89 | 66.7<br>58.1   | 33.9<br>29.5 | 0.655            | -33.4<br>-29.2 | 0.832            | 55.6<br>46.4   | 1,334            |
| 19 1      | 15.89            | 159.8                 | 0.00            | 0.8          | 139.0          | -38.6            | 126.5<br>120.3 | 118.60<br>118.60 | 1,644.6            | -2136.5<br>-2102.9 | 0.0<br>0.0    | \26.5<br>120.3   | 1,460.0            | 115.93<br>115.97 | 63.3<br>60.2   | 32.2<br>30.6 | 0.638<br>0.622   | 31.8           | 0.819<br>0.806   | 52.1<br>48.8   | 1,250<br>1,171   |
|           | 15.94            | 154.8<br>146.1        | -0.01<br>-0.01  | 0.8          | 154,0<br>145.3 | -38.7<br>-46.5   | 107.5          | 118.60           | 1,644,6            | -2065.2            | 0.0           | 107.5            | 1,466.2            | 116.02           | 107.5          | 54.8         | 0.933            | 53.8           | 0.925            | 49.8           | 1,195            |
| 22 1      | 16.03            | 143.7<br>137.5        | -0.01<br>0.00   | 0.8<br>0.8   | 142.9<br>136.7 | -46.5<br>38.8    | 98.8<br>104.1  | 118.60<br>118.60 | 1,644.6            | -2020.7<br>-1988.2 | 0.0           | 98.8<br>104.1    | 1,470,0<br>1,472.8 | 116.08           | 98.8<br>104.1  | 50.4<br>53.2 | 0.864<br>0.907   | 49.6<br>52.2   | 0.917<br>0.922   | 45.4<br>48.2   | 1,090            |
| 24 1      | 16.13            | 135.0                 | -0.01           | 0.8          | 134.2          | -35.9            | 97.8           | 118.60           | 1 644 6            | -1952.0            | 0.0           | 97.8             | 1,475.9            | 116.17           | 97.8<br>95.3   | 50.0<br>48.7 | 0.858<br>0.839   | 49.2<br>48.0   | 0.916            | 45.0<br>43.7   | 1,080<br>1,049   |
|           | 16.17            | 132.6<br>130.1        | 0.00            | 0.8<br>0.8   | 131.8<br>129.3 | -38.9<br>-46.8   | 95.3<br>85.0   | 118.60<br>118.60 |                    | -1916.0<br>-1871.2 | 0.0<br>0.0    | . 95.3<br>85.0   | 1,479.1<br>1,482.9 | 116.21<br>116.27 | \$5.0          | 43.5         | 0.767            | 42.9           | 0.892            | 38.2           | 917              |
| 27 1      | 16.27            | 128.1                 | 0.00            | Q.8          | 127.3          | -31.2            | 98.1<br>88.2   | 118.60<br>118.60 | 1,644.6            | -1842.3<br>-1799.0 | 0.0<br>0.0    | 98.1<br>58.2     | 1,485.4<br>1,489.2 | 116.31           | 98.1<br>88.2   | 50.3<br>45.2 | 0.863            | 49.4<br>44.6   | 0.916<br>0.900 - | 45.3<br>40.1   | 1,087            |
|           | 16.31            | 132.6<br>127.5        | 0.00<br>0.00    | 0.8<br>0.8   | 131.8<br>126.7 | -39.1<br>-39.1   | 92.7           | 118.60           | 1,644.6            | 1764.6             | 0.0           | 92.7             | 1,492.1            | 116.41           | 92.7           | 47.6         | 0.823            | 46.8           | 0.908            | .42.5          | 1,020            |
| 30 1      | 16.41<br>16.45   | 132.6<br>146.1        | 0.00<br>0.00    | 0.8<br>0.8   | 131.8<br>145.3 | -31.3<br>-39.2   | 95.4<br>92.6   | 118.60<br>118.60 | 1,644.6            |                    | 0.0<br>0.0    | 95.4<br>92.6     | 1,495.2<br>1,499.8 | 116.45<br>116.52 | 95.4<br>92.6   | 49.0<br>47.6 | 0.843<br>0.823   | 48.2<br>46.9   | 0.913<br>0.909   | 44.0<br>42.6   | 1,056            |
| 31 1      | 10.45            | 178.2                 | 0.40            | 0.8          | 1425           | - , ,            | ,              |                  |                    |                    | 0.0           | 139.6            |                    |                  |                |              |                  |                |                  |                | 46,586           |
| Feb. 1982 | 2                |                       | 14. P           |              |                |                  |                |                  | •                  |                    |               |                  |                    |                  |                |              |                  | :              | 0.000            |                |                  |
|           | 16.50            | 177.2<br>165.9        | 0.02<br>0.03    | 1.0<br>1.0   | 176.2<br>164.9 | .70.7<br>.23.6   | 80.0<br>152.6  | 118.60<br>118.60 |                    | -1579.7<br>+1567.6 | . 0.0<br>0.0  | 80.0<br>152.6    | 1,508.1<br>1,509.2 | 116.64           | - 80.0<br>76.3 | 41.2<br>39.4 | 0.738            | 40.6<br>38.8   | 0.880<br>0.870   | 35.8<br>67.6   | 859<br>1,622     |
| 3 1       | 16.67            | 159.8                 | -0.01           | 1.0          | 158.8          | -47.3            | 117.6          | 118.60<br>118.60 | 1,644.6            | -1525.9<br>-1475.2 | 0,0<br>0.0    | 117.6<br>103.5   | 1,512.8            | 116.71           | 58.8<br>103.5  | 30.4<br>53.5 | 0.620<br>0.912   | 30.0<br>52.6   | 0.803            | 43.2           | 1,157            |
|           | 16.72            | 154.8<br>148.7        | 0.01<br>0.00    | 1.0<br>· 1.0 | 153.8<br>147.7 | -55.3<br>-39.5   | 103.5<br>114.3 | 118.60           | 1,644.6            | -1442.3            | 0.0           | 114.3            | 1,520.0            | 116.82           | 57.2           | 29.6         | 0.613            | 29.3           | 0.796            | 46.5           | 1,116            |
|           | 16.83            | 143.7                 | -0.01           | 1.0<br>1.0   | 142.7<br>140.2 | -55.4            | 92.3<br>95.1   | 118.60<br>118.60 | 1,644.6            | -1391.7            | 0.0<br>0.0    | 92.3<br>95.1     | 1,524.4<br>1,528.3 | 116.88<br>116.94 | 92.3<br>95.1   | 47.8<br>49.3 | 0.826<br>0.848   | 47.1<br>48.5   | 0.909            | 42.8<br>44.3   | 1,027            |
| 8 1       | 16.94            | 136.3                 | 0.00            | 1.0          | 135.3          | 41.7             | 92.5           | 118.60           | 1.644.6            | -1303.3            | 6.0<br>0.0    | 92.5<br>87.6     | 1,532.0<br>1,536.8 | 116.99<br>117.06 | 92.5<br>87.6   | 48_0<br>45.5 | 0.829            | 47.3<br>44.8   | 0.910<br>0.901   | 43.0<br>40.4   | 1.032<br>970     |
|           | 17.00            | 143.7<br>137.5        | -0.01<br>- 0.01 | -1.0<br>1.0  | 142.7<br>136.5 | -47.7            | 87.6<br>102.9  | 118.60<br>118.60 | 1,644.6<br>1,644.6 |                    | 0.0           | 102.9            | 1,539.7            | 117.11           | 102.9          | \$3.5        | 0.912            | 52.6           | 0,923            | 48.6           | 1,166            |
| 11 1      | 17.11            | 122.1<br>122.1        | 0.00<br>-0.02   | 1.0<br>1.0   | 123.1<br>121.1 | -39.9<br>-63.9   | 96.6<br>80.0   | 118.60<br>118.60 | 1.644.6            | -1189.6            | 0.0<br>0.0    |                  | 1,541.8<br>1,545.4 | 117.14           | 96.6<br>80.0   | 50.3<br>41.7 | 0.863            | 49.5           | 0.916<br>0.883   | 45.3.<br>36.3  | 1,087<br>871     |
| 13 1      | 117.16<br>117.22 | 119.0                 | -0.03           | 1.0          | 118.0          | -64.0            | 80.0           | 118.60           | 1.644.6            | -1110.1            | 0.0           | 80.0             | 1,548.7            | 117.24           | \$0.0          | 41.7         | 0.744            | 41.1           | 0.883            | 36.3<br>36,4   | 871<br>874       |
|           | 117.27           | 121.7<br>127.5        | 0.03<br>-0.04   | 1.0<br>1.0   | 120.7<br>126.5 | -72.1            | 80.0<br>80.0   | 118.60<br>118.60 | 1 644 6            | -1069.3<br>-1022.9 | 0.0           | 80.0<br>80.0     | 1,552.2<br>1,556.2 | 117.29           | 60.0<br>80.0   | 41.8<br>41.8 | 0.746            | 41.2           | 0.884<br>0.884   | 36.4           | 874              |
| 16        | 117.38           | 127.5                 | -0.04           | 1.0          | 126.5          | -80.3            | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6            | -976.6<br>-930.4   | 0.0<br>0.0    | 80.0<br>80.0     | 1,560.2<br>1,564.2 | 117.40<br>117.46 | 80.0<br>80.0   | 41.8<br>41.9 | 0.746            | 41.3<br>41.3   | 0.884<br>0.884   | 36.5<br>36.5   | 876<br>876       |
|           | 117.44<br>117.49 | 127 <u>5</u><br>130.1 | -0.04<br>-0.03  | 1.0          | 126.5<br>129.1 | -72.4<br>72.5    | 80.0           | 118.60           | 1,644.6            | -881.5             | 0.0           | 80.0             | 1,568.4            | 117.52           | 80.0           | 41.9         | 0.747            | 41.4           | 0.885            | 36.6           | 878              |
|           | 117.55<br>117.60 | 130.1<br>137.5        | -0.03           | 1.0<br>1.0   | 129.1<br>136.5 | -64.5            | 80.0<br>80.0   | 118.60<br>118.60 | 1,644.6            | -832.8<br>-776.8   | 0.0           | 80.0<br>80.0     | 1,572.6            | 117.58           | 80.0<br>80.0   | 42.0<br>42.0 | 0.748            | 41.4<br>41.4   | 0.885<br>0.885   | 36.6<br>36.7   | 878<br>881       |
| 21 1      | 117.66           | 168,5                 | -0.01           | 1.0          | 167.5          | -48.5            | 88.0           | 118.60           | 1,644.6            | -697.1             | 0.0<br>0.0    | 88.0             | 1,584.4            | 117.75<br>117.78 | 88.0<br>75.7   | 46.3<br>39.9 | 0.805            | 45.6<br>39.4   | 0.904<br>0.873   | 41.2<br>68.7   | 989<br>1,649     |
|           | 117.71           | 174.6<br>171.0        | 0.04            | 1.0          | 173.6<br>170.0 | -16-2<br>-32.5   | 151.3<br>141.1 | 118.60<br>118.60 | 1.644.6<br>1.644.6 | -674.5<br>-645.9   | 0.0           | 151.3<br>141.1   | 1,588.8            | 117.81           | 70.6           | 37.2         | 0.691            | 36.7           | 0.856            | 62.9           | 1,510            |
|           | 117.82           | 162.3<br>165.9        | -0.01<br>-0.01  | 1.0<br>1.0   | 161.3<br>164.9 | -56.9<br>-45.8   | 113.1          | 118.60<br>118.60 | 1.644.6<br>1.644.6 | -597.6<br>-544.8   | 0.0<br>0.0    | 113.1            | 1,593.0<br>1,597.5 | 117.87<br>117.94 | 56.6<br>56.3   | 29.9<br>29.7 | 0.615<br>0.614   | 29.5<br>29.4   | 0.798<br>0.797   | 47.1           | 1,130<br>1,123 - |
| 25 1      | 117.93           | 179.6                 | 0.01            | 1.0          | 178.6          | -40.7            | 124.2          | 118.60           | 1,644.6            | -490.7             | 0.0           | 124.2            | 1,602.2            | 118.00           | 62.1           | 32.8<br>38.6 | 0.644            | 32.5           | 0.824            | 53.5<br>66.0   | 1,284            |
|           | 117.99           | 182.1<br>180.3        | 0.01<br>0.00    | 1.0<br>1.0   | 181.1<br>179.3 | -32.6<br>-49.0   | 146.0<br>132.1 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -455.6<br>-408.8   | 0.0<br>0.0    | 146.0<br>132.1   | 1,605.2<br>1,609.3 | 118.04<br>118.10 | 73.0<br>66,1   | 35.0         | 0.707<br>0.666 . | 38.1<br>34.6   | 0.865            | 58.1           | 1,394            |
|           |                  | 148.5                 |                 | 1.0          |                |                  |                |                  |                    |                    | 0.0           | 102.3            |                    |                  |                |              |                  |                |                  |                | 30,805           |
| Mar. 198  |                  | 100.0                 | 0.00            |              | 1977           | 100.8            | 80.0           | 118.60           | 1,644.6            | -301.9             | 0.0           | ዩቡስ              | 1,618.5            | 118.23           | 80.0           | 42.5         | 0.755            | 41.9           | 0.887            | 37.1           | 890              |
|           | 118.10           | 188.3<br>179.6        | 0.00            | 1.6<br>1.6   | 186.7<br>178.0 | -122.8<br>-82.1  | 104.6          | 118.60           | 1 644.6            | -228.7             | 0.0           | 104,6            | 1,624.8            | 118.32           | 104.6          | 55.6         | 0.946            | 54.7           | 0.926            | 50.6           | 1,214            |
|           | 18.33<br>118.40  | 174.6                 | -0.01<br>0.60   | 1.6<br>1.6   | 173.0<br>173.0 | -65.8<br>-66.0   | 112.2<br>107.0 | 118.60<br>118.60 | 1,644.6            | -168.4<br>-101.8   | 0.0<br>• 0.0  | 112.2            | 1,630.1<br>1,635.8 | 118.40<br>118.48 | 56.1<br>53.5   | 29.9<br>28.5 | 0.615<br>0.603   | 29.5<br>28.2   | 0.798<br>0.786   | 47.2<br>44.4   | 1,133<br>1,066   |
| 5 1       | 18.48            | 174.6                 | 0.00            | 1.6          | 173.0          | 57.8             | 115.2          | 118.60           | 1,644.6            | -44.1<br>-2.6      | 0.0           | 115.2            | 1,640.8            | 118.55<br>118.60 | \$7.6<br>65.8  | 30.8<br>35.2 | 0.624<br>0.669   | 30.4<br>34.8   | 0.896<br>0.843   | 49.0<br>58.6   | 1,176            |
|           | 18.55            | 174.6<br>177.2        | 0.00            | 1.6<br>1.6   | 173.0<br>175.6 | 41.4             | 131.6<br>173.0 | 118.60<br>118.60 | 1 644 6<br>1 644 6 | 0.3                | 0.0           | 173.0            | 1,644.6            | 118.60           | 86.5           | 46.3         | 0.805            | 45.6           | 0.904            | 82.4           | 1,978            |
|           | 18.60<br>18.60   | 179.6<br>188.3        | 0.00            | 1.6<br>1.6   | 178.0<br>186.7 | 0.0<br>0.0       | 175.6          | 118.60<br>118.60 | 1,644.6            | 2.4<br>11.0        | 0.0<br>0.0    | 175.6<br>178.0   | 1,644.8<br>1,645.6 | 118,60<br>118,61 | 87.8<br>89.0   | 47.0<br>47.6 | 0.815            | 46.3<br>46.9   | 0,906            | 83.9<br>85.3   | 2,014 2,047      |
| 10 1      | 18.60            | 188.3                 | 0.01            | 1.6          | 186.7          | 8.3              | 195.0          | 118.60           | 1,644.6            | 3.3                | 0.0           | 195.0            | 1,644.9            | 118.60           | 97.5<br>93.4   | 52.2<br>50,0 | 0.892<br>0.858   | 51.3<br>49.2   | 0.921            | 94.5<br>90.0   | 2,268            |
|           | 18.60            | 146.2<br>270.0        | -0.00<br>-0.05  | 1.6          | 144.6<br>268.4 | 0.0<br>41.4      | 186.7<br>103.2 | 118.60           | 1,644.6            | -38.6<br>127.0     | 0,0<br>0.0    | 103.2            | 1,641.3<br>1,655.6 | 118.55<br>118.75 | 103.2          | 55.3         | 0.941            | 54.3           | 0.925            | 50.2           | 1,205            |
| 13 1      | 18.60            | 276.2<br>291.8        | 0.15            | 1.6<br>1.6   | 274.6<br>290.2 | 124.4            | 360.0          | 118.60<br>118.60 | 1 644 6            | 41.9               | 41.9          | 360.0            | 1,644.6<br>1,645.9 | 118.60           | 120.0          | 64.3<br>49.0 | 1.099<br>0.843   | 63.0<br>48.2   | 0.921            | 174.1<br>132.1 | 4,178<br>3,170   |
|           | 18.60<br>18.60   | 333.2                 | 0.02            | 1.6          | 331.6          | -99.5            | 190.7          | 118.60           | 1,644.6            | 39.0               | 0.0           | 190.7            | 1,658.1            | 118.79           | 95.4           | 51.1         | 0.875            | 50,3           | 0.918            | 92.4           | 2,218            |
|           | 18.74            | 356,7<br>345.6        | 0.05<br>0.03    | 1.6<br>1.6   | 355,1<br>344.0 | -74.9<br>-91.9   | 256.7<br>263.2 | 118.74<br>118.58 | 1,654.7            | 22.0<br>-14.1      | 0.0<br>0.0    |                  | 1,666.6<br>1,673.6 | 118.91<br>119.00 | 85.6<br>87.7   | 46.0<br>47.2 | 0.801<br>0.818   | 45.3<br>46.5   | 0.903            | 122.8<br>126.7 | 2,947<br>3,041   |
| 16 1      | 19.02            | 312.2                 | -0.02           | 1.6          | 310.6          | -445.9           | 80.0           | 119.02           | 1,674.8            | 99.8               | 0.0<br>0.0    | 80.0             | 1,693.5            | 119.28<br>119.53 | \$0.0<br>\$0.0 | 43.2<br>43.4 | 0.764            | 42.6<br>42.8   | 0.891            | 38.0<br>38.2   | 912<br>917       |
|           | 19.53            | 296.1<br>299.4        | -0.25           | 1.6          | 294.5<br>297.8 | -270.4<br>-127.2 | 80.0<br>167.3  | 119.16<br>119.30 | 1,684.9<br>1,695,1 | 196.0<br>216.1     | 23.4          | 360.0            | 1,704.6            | 119.43           | 120.0          | 65.2         | 1.116            | 63.9           | 0.920            | 176.5          | 4,236            |
| 21 )      | 19.68<br>19.75   | 315.9<br>349.4        | -0.25           | 1.7          | 314.2<br>347.7 | -271.4           | 80.0<br>212.0  | 119.43<br>119,57 | 1.704.6            | 116.1<br>132.2     | 0.0<br>0.0    |                  | 1,724.8<br>1,736.5 | 119.71<br>119.86 | \$0.0<br>70.7  | 43.6<br>38.7 | 0.769            | 43.0<br>38.2   | 0.893<br>0.866   | 38.4<br>99.1   | 922<br>2,378     |
| 23 1      | 19.83            | 339.5                 | 0.03            | 1.7          | 337.8          | -34.2            | 313.5          | 119.71           | 1 725 1            | 37.0               | 0.0           | 313.5            | 1,738.6            | 119.89           | 104.5          | 57.2<br>65.8 | 0.972            | 56.2<br>64.5   | 0.926<br>0.918   | 156.2<br>177.5 | 3,749<br>4,260   |
|           | 19.90<br>19.98   | 525.2<br>611.9        | -0.01<br>0.01   | 1.7          | 523.5<br>610.2 | .77.0<br>.51.4   | 360.0          | 119.85<br>119.99 | 1,735.4<br>1,745.7 | 180.5<br>129.8     | 81.3<br>129.8 | 360.0            | 1,745.7            | 119.99<br>120.13 | 120.0<br>120.0 | 65.9         | 1.129            | 64.6           | 0.918            | . 177.9        | 4,270            |
| 26 1      | 20.05            | 552.5                 | 0.08            | 1.7          | 550.8<br>511.2 | 0.0<br>60.3      | 360.0<br>360.0 | 120.13<br>120.27 | 1,756.1            | 70.4<br>29.7       | 70.4<br>29.7  | 360,0<br>360.0   | 1,766.5<br>1,777.0 | 120.27<br>120.41 | 120.0<br>120.0 | 66.1<br>66.3 | 1.133<br>1.137   | 64.8<br>64.9   | 0.917<br>0.917   | 178.2<br>178.6 | 4,277<br>4,286   |
| 28 1      | 20.13<br>20.20   | 512.9<br>396.5        | 0.14<br>0.21    | 1.7<br>1.7   | 394.8          | 112.3            | 360.0          | 120.41           | 1,777.0            | -85.6              | 0.0           | 360.0            | 1,780.0            | 120.45           | 120.0          | 66.4         | 1.139            | 65.0           | 0.917            | 178.9          | 4,294            |
|           | 20.28<br>20.35   | 345.6<br>876.8        | 0.17<br>0.08    | 1.7          | 343.9<br>875.1 | : 86.5<br>0.0    | 360.0<br>343.9 | 120.55<br>120.69 | 1,787.4<br>1,798.0 | -224.4<br>185.1    | 0.0<br>169.0  |                  | 1,778.6<br>1,808.5 | 120.43<br>120.83 | 120.0<br>120.0 | 66.4<br>66.6 | 1.139            | 65,0<br>65.3   | 0.917<br>0.916   | 179,3          | 4,303            |
|           | 20.43            | 309.7                 |                 | 1.7          | 308.0          | 287.1            |                | 120.83           | 1 808 5            | -174.7             | 0.0<br>17,6   | 360.0<br>226.2   | 1,804.0            | 120.77           | 120.0          | 66.8         | 1.147            | 65.4           | 0.914            | 179.9          | 4,318<br>81,527  |
|           |                  | 318.2                 |                 | 1.6          |                |                  |                |                  |                    |                    | 17,0          | 220.2            |                    | · · ·            |                |              |                  |                |                  |                |                  |

#### Table 7.2.11 (2/4)Catalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1975)

|            |                                 |                |                | :           | 1-1              |                  | Inf.1+         |                  | -                  | · ·                     | e-31           |                | Dave Verb          | RWL              |                | Power        |                | Power        |                  |                        |                  |
|------------|---------------------------------|----------------|----------------|-------------|------------------|------------------|----------------|------------------|--------------------|-------------------------|----------------|----------------|--------------------|------------------|----------------|--------------|----------------|--------------|------------------|------------------------|------------------|
| 4.00       | Rule<br>At beg.<br>. 1982 (Ing. | ӏлЛо₩          |                | Evp.        | Inf.<br>Evp.     | Recv.<br>RC      | Qi+<br>RC      | FSIIL            | FSHL.<br>Vol.      | Qsp<br>FSHL             | Spill          | HP             | Ray.Vol            | Atend            | Q              | rower        | not            |              | liata P          | 'ower                  | Energy           |
| 1          | 120.50                          | 322.1          | 0.27           | 2.3<br>2.3  | 319.8<br>376.8   | 78.4<br>-43.6    | 360.0<br>276.2 | 120.97           | 1,819,1            | -328.4<br>-351.9        | 0.0<br>0.0     | 360.0<br>276.2 | 1,800.5<br>1,809.2 | 120,72<br>120,84 | 120.0<br>92.1  | 66.7<br>51.2 | 1.145<br>0.876 | 65.4<br>50.5 | 0.916<br>0.919   | 179. <b>7</b><br>139.1 | 4,313<br>3,338   |
| 3          | 120.58<br>120.77                | 379.1<br>433.6 | 0.07           | 2.3         | 431.3            | 17.5             | 359.3          | 121.10<br>121.24 | 1.828.9<br>1.839.6 | -403.7                  | 0.0            | 359.3          | 1,815.4            | 120.92           | 119.8          | 66.8         | 1.147          | 65.4         | 0.916            | 179.8                  | 4,315            |
| 4          | 120.86<br>120.95                | 437.3<br>353.1 | 0.06           | 2.3<br>2.3  | 435.0<br>360.8   | 26.3<br>•26.3    | 360.0<br>360.0 | 121.38<br>121.52 | 1,850.3<br>1,861.0 | -452.8<br>-575.6        | 0.0<br>0.0     | 360.0<br>360.0 | 1,821.9<br>1,822.0 | 121.01<br>121.01 | 120,0<br>120,0 | 67.0<br>67.0 | 1.151<br>1.151 | 65.6<br>65.7 | 0.915<br>0.915   | 180.2<br>180.3         | 4,325<br>4,327   |
| - 6<br>7   | 121.04<br>121.13                | 407.6<br>392.7 | -0.03          | 2.3<br>2.3  | 405.3<br>390.4   | -105.4           | 255.4<br>360.0 | 121.66<br>121.80 | 1,871.7<br>1,882.5 | -550.3<br>-645.5        | 0.0<br>0.0     | 255.4<br>360.0 | 1,835.0<br>1,837.6 | 121.18<br>121.21 | 85.1<br>120.0  | 47.6<br>67.3 | 0.823<br>1.156 | 46.9<br>65.9 | 0.909<br>0,914   | 128.0<br>180.7         | 3,072<br>4,337   |
| 8<br>9     | 121.22<br>121.31                | 385.2<br>371.6 | -0.01<br>0.00  | 2.3<br>2.3  | 382.9<br>369.3   | -85.2<br>-79.6   | 302.2<br>303.3 | 121.94<br>122.08 |                    | -690.1<br>-750.0        | 0.0<br>0.0     | 302.2<br>303.3 | 1,844.6<br>1,850.3 | 121.31<br>121.38 | 100.7<br>101.1 | 56.5<br>56.8 | 0.961<br>0.966 | 55.6<br>55.9 | 0.926 ·<br>0.926 | 154.4<br>155.2         | 3,706            |
| 10         | 121.40                          | 360.5          | -0.02          | 2.4         | 356.1            | -97.4            | 271.9          | 122.22           | 1,915.1            | -790.0                  | 0.0            | 271.9          | 1,857.7            | 121.48<br>121.57 | 90.6<br>89.8   | 51.0<br>50.6 | 0.873<br>0.867 | 50.2<br>49.9 | 0.918<br>0.918   | 138.3<br>137.3         | 3,319<br>3,295   |
| 11<br>12   | 121.49<br>121.58                | 353.0<br>329.6 | -0.01<br>-0.01 | 2.4<br>2.4  | 350.6<br>327.2   | -88.8<br>-89.0   | 269.3<br>261.6 | 122.36<br>122.50 | 1,926.0<br>1,937.0 | -836.5<br>-889.3        | 0.0<br>0.0     | 269,3<br>261,6 | 1,864.7<br>1,870.4 | 121.64           | 87.2           | 49.2         | 0.846          | 48.5         | 0.914            | 133.0                  | 3,192            |
| 13<br>14   | 121.67                          | 329.6<br>322.1 | -0.03<br>0.00  | 2.4<br>2.4  | 327.2<br>319.7   | -107.0<br>-80.4  | 220.2<br>246.8 | 122.63<br>122.77 | 1,947.2<br>1,958.2 | -909.2<br>-965.3        | 0.0<br>0.0     | 220.2<br>246.8 | 1,879.6<br>1,885.9 | 121.76<br>121.84 | 73.4<br>82.3   | 41.5<br>46.6 | 0.742<br>0.809 | 41.0<br>46.0 | 0.882<br>0.905   | 108.4<br>124.7         | 2,602<br>2,993   |
| 15<br>16   | 121.85<br>121.95                | 306.0<br>282.5 | -0.01<br>-0.01 | 2.4<br>2.4  | 303.6<br>280.1   | - 58.5<br>- 89.7 | 221.2<br>213.9 | 122.91<br>123.05 | 1,969.3<br>1,980.4 | -1011.4<br>-1073.8      | 0.0<br>0.0     | 221.2<br>213.9 | 1,893.0<br>1,898.7 | 121.94<br>122.01 | 73.7           | 41.8<br>40.5 | 0.746<br>0.730 | 41.3<br>40.0 | 0.884<br>0.877   | 109.5<br>105.2         | 2,628            |
| 17         | 122.04                          | 848.9          | -0.03          | 2.4<br>2.4  | 846.5<br>838.7   | -107.9<br>480.9  | 172.2<br>360.0 | 123.19<br>123.33 | 1,991.5            | -529.4<br>-179.9        | 0.0<br>0.0     | 172.2<br>360.0 | 1,957.0            | 122.75<br>123.28 | 86.1<br>120.0  | 49.3<br>69.4 | 0.848<br>1.198 | 48.5<br>68.0 | 0.914<br>0.908   | 88.7<br>185.2          | 2,129<br>4,445   |
| 18<br>19   | 122.13<br>122.22                |                | 0.62           | 2           | 1085.2           | 886.3            | 360.0          | 123.47           | 2,013.9            | 416.2                   | 416.2          | 360.0          | 2,025.1            | 123,61           | 120.0          | 69.9         | 1.208          | 68.5         | 0.906            | 186.1                  | 4,466            |
| 20<br>21   | 122.31                          | 695.1<br>754.4 | 1.30           | 2.4<br>2.4  | 692.7<br>752.0   | 1110.8<br>1159.7 | 360.0<br>360.0 | 123.61<br>123.75 | 2,025.1<br>2,036.4 | 201.9<br>261.2          | 201.9<br>261.2 | 360.0<br>360.0 | 2,036.4<br>2,047.7 | 123.75<br>123.89 | 120.0<br>120.0 | 70.2<br>70.3 | 1.215<br>1.217 | 68.8<br>68.9 | 0,905<br>0.904   | 186.7<br>186.9         | 4,481<br>4,486   |
| 22<br>23   | 122.49<br>122.58                | 725.9<br>645.3 | 1.40<br>1.45   | 2.4<br>2.4  | 723.5<br>642.9   | 1208.8           | 360.0<br>360.0 | 123.89<br>124.03 | 2,047.7<br>2,059.1 | 231.6<br>152.1          | 231.6<br>152.1 | 360.0<br>360.0 | 2,059.1<br>2,070.4 | 124.03<br>124.17 | 120.0<br>120.0 | 70.5<br>70.7 | 1.221<br>1.225 | 69.1<br>69.2 | 0.904<br>0.903   | 187.3<br>187.6         | 4,495<br>4,502   |
| 24<br>25   | 122.67                          | 473.4<br>478.1 | 1.50<br>1.53   | 2.4<br>2.4  | 471.0<br>475.7   | 1307.7<br>1338.6 | 360.0<br>360.0 | 124.17<br>124.30 | 2,070.4 2,081.0    | -11.7<br>-29.0          | 0.0<br>0.0     | 360.0<br>360.0 | 2,080.0            | 124.29<br>124.41 | 120.0<br>120.0 | 70.8<br>71.0 | 1.227<br>1.231 | 69.4<br>69.5 | 0.903            | 188.0<br>188.1         | 4,512<br>4,514   |
| 25         | 122.85                          | 681.4          | 1.56           | 2.4         | 679.0            | 1369.7           | 360.0          | 124.44           | 2,092.5            | 158.1                   | 158.1          | 360.0          | 2,103.9            | 124.58           | 120.0          | 71.1         | 1.233          | 69.7         | 0.901            | 188.4                  | 4,522            |
| 27<br>28   | 122.94<br>123.03                | 844.9<br>883.3 | 1.64<br>1.69   | 2.4<br>2.5  | 842.5<br>880.8   | 1448.4<br>1498.9 | 360.0<br>360.0 | 124.58<br>124.72 | 2,103.9<br>2,115.5 | 348.2<br>387.7          | 348.2<br>387.7 | 360.0<br>360.0 | 2,115.5<br>2,127.0 | 124.72<br>124.86 | 120.0<br>120.0 | 71.3<br>71.5 | 1.237<br>1.241 | 69.9<br>70.0 | 0.900<br>0.900   | 188.6<br>189.1         | 4,526<br>4,538   |
| 29<br>30   | 123.12<br>123.21                |                | 1.74<br>1.79   |             | 1725.0<br>1669.9 | 1549.6<br>1600.6 | 360.0<br>360.0 | 124.86<br>125.00 | 2,127.0            | 1230.7<br>1309.9        |                | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.2<br>70.3 | 0.899            | 189.3<br>189.5         | 4,543<br>4,548   |
|            |                                 | 604.5          |                | 2.4         |                  |                  |                |                  |                    | •                       | 156.6          | 316.5          |                    |                  |                |              |                |              |                  |                        | 116,719          |
| May<br>1   | 1982 (Irrig<br>123.30           |                | 3/s)<br>1.70   | 3.6         | 1108.8           | 1498.8           | 360.0          | 125,00           | 2,138.6            | 748.8                   | 748.8          | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7         | 1.245          | 70.3         | 0.899            | 189.5                  | 4,548            |
| 2          | 123.41                          | 314.3          | 1.59           | 3.6         | 310.7            | 1452.4           | 360.0<br>360.0 | 125.00           | 2,138.6            | .49.3                   | 0.0            | 360.0<br>360.0 | 2,134.3<br>2,138.6 | 124.95<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245          | 70.2<br>70.2 | 0.899<br>0.899   | 189.4<br>189.4         | 4,546<br>4,546   |
| 4          | 123.46<br>123.51                | 796.6<br>837.4 | 1.49<br>1.49   | 3.6<br>3.6  | 793.0<br>833.8   | 1358.1<br>1350.3 | 360.0          | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 383.2<br>473.8          | 383.2<br>473.8 | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7         | 1.245          | 70.3         | .0.899           | 189.5                  | 4,548            |
| 5<br>6     | 123.57<br>123.62                | 699.9<br>656.6 | 1.43           | 3.6<br>3.6  | 696.3<br>653.0   | 1303.8<br>1257.2 | 360.0<br>360.0 | 125,00<br>125,00 | 2,138.6<br>2,138.6 | 336.3<br>293.0          | 336.3<br>293.0 | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71,7<br>71,7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 7<br>8     | 123.67<br>123.73                | 603.2<br>542.6 | 1.33<br>1.27   | 3.7<br>3.7  | 599.5<br>538.9   | 1201.3<br>1154.6 | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 239.5                   | 239.5<br>178.9 | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4 548<br>4 548   |
| 9          | 123.78                          | 490.5<br>460.8 | 1.22           | 3.7         | 486.8<br>457.1   | 1107.9           | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 126.8<br>97.1           | 126.8<br>97.1  | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245          | 70.3<br>70.3 | 0.899<br>0.899   | 189.5                  | 4,548<br>4,548   |
| 10<br>11   | 123.83<br>123.68                | 447.7          | 1.12           | 3.7         | 446.9            | 1004.9           | 360.0          | 125.00           | 2,138.6            | \$6.0                   | 86.0           | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7         | 1.245          | 70.3         | 0.899            | 189.5                  | 4,548            |
| 12<br>13   | 123.94<br>123.99                | 436.1<br>365.5 | 1.06           | 3.7<br>3.7  | 432.4<br>361.8   | 958.1<br>911.1   | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 72.4<br>1.8             | 72.4<br>1.8    | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 14<br>15   | 124.04<br>124.10                | 395.5<br>447.9 | 0.96<br>0.90   | 3.7<br>3.7  | 392.8<br>444.2   | 854.7<br>807.7   | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 32.8<br>84.2            | 32.8<br>84.2   | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00           | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548            |
| 16<br>17   | 124.15<br>124.20                | 614.4<br>520.3 | 0.85<br>0.80   | 3.7<br>3.7  | 610.7<br>516.6   | 760.6            | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 250.7<br>156.6          | 250.7<br>156.6 | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00<br>125.00 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899<br>0.899   | 189.5<br>189.5         | 4,548<br>4,548   |
| 18         | 124.26                          | 479.4          | 0.74           | 3.7         | 475.7            | 656.8            | 360.0<br>360.0 | 125.00           | 2,138.6            | 115.7                   | 115.7          | 360.0<br>360.0 | 2,138.6<br>2,138.6 | 125.00           | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.3<br>70.3 | 0.899            | 189.5                  | 4,548<br>4,548   |
| - 19<br>20 | 124.31<br>124.36                | 445.4<br>365.5 | 0.69           | 3.7<br>3.7  | 441.7<br>361.8   | 609.S<br>552.7   | 360,0          | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 81.7<br>1.8             | \$1.7<br>1.8   | 360.0          | 2,138.6            | 125.00           | 120.0          | 71.7         | 1.245          | 70.3         | 0.899            | 189.5                  | 4,548            |
| 21<br>22   | 124.42<br>124.47                | 285.2<br>385.2 | 0.58<br>0.45   | 3.7<br>3.7  | 281.5<br>381.5   | 505.4<br>381.3   | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -78.5<br>-57.2          | 0.0<br>0.0     | 360.0<br>360.0 | 2,131.8<br>2,133.7 | 124.92<br>124.94 | 120.0<br>120.0 | 71,7<br>71 7 | 1.245<br>1.245 | 70.2<br>70.2 | 0.899<br>0.899   | 189,4<br>189,3         | 4,546<br>4,543   |
| 23<br>24   | 124.52<br>124.58                | 371.6<br>374.1 | 0.42<br>0.37   | 3.7<br>3.7  | 367.9<br>370.4   | 343.4<br>305.5   | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -48.8<br>-38.2          | 0.0<br>0.0     | 360.0<br>360.0 | 2,134.4<br>2,135.3 | 124.95<br>124.96 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245<br>1.245 | 70.2<br>70.2 | 0.899<br>0.899   | 189.3<br>189.4         | 4,543<br>4,546   |
| 25<br>26   | 124.63<br>124.68                | 356.7<br>341.9 | 0.33<br>0.27   | 3.7<br>3.7  | 353.0<br>338.2   | 267.5<br>210.2   | 360.0<br>360.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -45.2<br>-66.9          | 0.0<br>0.0     | 360.0<br>360.0 | 2,134.7            | 124.95<br>124.93 | 120.0<br>120.0 | 71.7<br>71.7 | 1.245          | 70.2<br>70.2 | 0.899<br>0.899   | 189.4<br>189.3         | 4,546<br>4,543   |
| 27         | 124.73                          | 332.0          | 0.20           | 3.8         | 328.2            | 133.8            | 360.0          | 125.00           | 2,138.6            | -98.9                   | 0.0            | 360.0          | 2,130.1            | 124.90           | 120.0<br>120.0 | 71.6<br>71.6 | 1.243<br>1.243 | 70.2         | 0.899            | 189.3<br>189.4         | 4,543<br>4,546   |
| 28<br>29   | 124.79<br>124.84                | 324.6<br>317.1 | 0.11           | 3.8<br>3.8  | 320.8<br>313.3   | 57,4<br>-28,7    | 360.0<br>292.1 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -137.6<br>-116.5        | 0.0<br>0.0     | 360.0<br>292.1 | 2,126.7<br>2,128.5 | 124.86<br>124.88 | 97.4           | 58.1         | 0.988          | 70.1<br>57.2 | 0.900<br>0.927   | 158.9                  | 3,814            |
| 30<br>31   | 124.89<br>124.95                | 307.2<br>296.1 | -0.01<br>-0.01 | 3.8<br>3.8  | 303.4<br>292.3   | -67.0<br>-57.5   | 246.3<br>245.9 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -59.8<br>-13.8          | 0.0<br>0.0     | 246.3<br>245.9 | 2,133.4<br>2,137.4 | 124.94<br>124.99 | 82.1<br>82.0   | 49.0<br>49.0 | 0.843<br>0.843 | 48.3<br>48.3 | 0.913<br>0.913   | 132.4<br>132.3         | 3,178<br>3,175   |
|            |                                 | 475.1          |                | 3.7         |                  |                  |                |                  | · ·                |                         | 121.3          | 350.5          |                    |                  |                |              |                |              |                  |                        | 137,479          |
| Jun.<br>1  | 1982 (irrg.=<br>125.00          |                | s)<br>-0.01    | 4.7         | 285.1            | 105.3            | 360.0          | 125.00           | 2,138.6            | -88.8                   | 0.0            | 360.0          | 2,130.9            | 124.91           | 120.0          | 71.7         | 1.245          | 70.2         | 0.899            | 189,4                  | 4,546            |
| 2          | 124.88                          | 275.0          | 0.03           | 4.7         | 270.3<br>264.1   | 86.1<br>47.7     | 360.0<br>318.0 | 125.00           | 2.138.6            | -178.8<br>-233.3        | 0.0<br>0.0     | 360.0<br>318.0 | 2,123.1<br>2,118.4 | 124.81<br>124.76 | 120.0<br>106.0 | 71.6<br>63.1 | 1.243<br>1.076 | 70.1<br>62.0 | 0.900<br>0.923   | 189.3<br>171.7         | 4,543<br>4,121   |
| 3<br>4     | 124.82<br>124.76                | 268.8<br>261.3 | -0.01<br>0.00  | 4.7<br>4.7  | 256.6            | 57.2             | 321.3          | 125.00           | 2,138.6<br>2,138.6 | -298.5                  | 0.0            | 321.3          | 2,112.8            | 124.69           | 107.1          | 63.7         | 1.098          | 62.6         | 0.922            | 173.1                  | 4,154            |
| 5.<br>6    | 124.70<br>124.64                | 261.3<br>247.8 | -0.01<br>0.00  | 4.7<br>4.7  | 256.6<br>243.1   | 47.6<br>57.1     | 304.2<br>313.7 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -346.2<br>-416.7        | 0.0<br>0.0     | 304.2<br>313.7 | 2,103.7<br>2,102.6 | 124.64<br>124.56 | 101.4<br>104.6 | 60.3<br>62.1 | 1.026<br>1.058 | 59.3<br>61.0 | 0.926<br>0.924   | 164.6<br>169.1         | 3,950<br>4,058   |
| 7<br>8     | 124.58<br>124.53                | 244.1<br>234.2 | -0.02          | 4.7<br>4.7  | 239.4<br>229.5   | 28.5<br>56.9     | 271.6<br>296.3 | 125.00           | 2,138.6<br>2,138.6 | -448.9<br>-515.9        | 0.0<br>0.0     | 271.6<br>296.3 | 2,099.8<br>2,094.0 | 124.53<br>124.46 | 90.5<br>98.8   | 53.7<br>58.6 | 0.915<br>0.976 | 52.9<br>57.6 | 0.923<br>0.927   | 146.5<br>160.2         | 3,516<br>3,845   |
| 9          | 124.47                          | 230.4          | -0.01<br>-0.01 | 4.7<br>4.7  | 225.7<br>218.2   | 47.4<br>47.3     | 276.9<br>273.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -567.4<br>-621.9        | 0.0<br>0.0     | 276.9<br>273.0 | 2,089.6<br>2,084.9 | 124.40<br>124.35 | 92.3<br>91.0   | 54.7<br>53.8 | 0.931<br>0.917 | 53.8<br>53.0 | 0.925            | 149.3<br>147.0         | 3,583<br>3,528   |
| 10<br>11   | 124.41<br>124.35                | 222.9<br>150.0 | 0.00           | 4.6         | 145.4            | 56.7             | 274.9          | 125.00           | 2,138.6            | .751.0                  | 0.0            | 274.9          | 2,073.7            | 124.21           | 91.6           | 54.i         | 0.921          | 53.3         | 0.924            | 147.8                  | 3,547            |
| 12<br>13   | 124.29<br>124.23                | 220.5<br>216.8 | -0.08<br>0.07  | 4.6<br>4.6  | 215.9<br>212.2   | -18.9<br>122.6   | 126.5<br>338.5 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -661.8<br>-788.3        | 0.0<br>0.0     | 126.5<br>338.5 | 2,081.4<br>2,070.5 | 124.30<br>124.17 | 63.3<br>112.8  | 37.4<br>66.6 | 0.693<br>1.143 | 36.9<br>65.3 | 0.857<br>0.916   | 63.3<br>179.6          | 1,519<br>4,310   |
| 14<br>15   | 124.17<br>124.11                | 213.0<br>220.5 | 0.00           | 4.6.<br>4.6 | 208.4<br>215.9   | 56.5<br>56.4     | 268.7<br>264.8 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -848.5<br>-897.3        | 0.0<br>0,0     | 268.7<br>264.8 | 2,065.3<br>2,061.1 | 124.11<br>124.06 | 89.6<br>88,3   | 52.8<br>52.0 | 0.901<br>0.888 | 52.0<br>51.2 | 0.922<br>0.920   | 143.8<br>141.3         | 3,451<br>3,391   |
| 16         | 124.05<br>123.99                | 213.0<br>209.4 | 0.01           | 4.6<br>4.6  | 208.4<br>204.8   | 65.7<br>46.9     | 281.6<br>255.3 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -970.2                  | 0.0<br>0.0     | 281.6<br>255.3 | 2,054.8<br>2,050.4 | 123.98<br>123.92 | 93.9<br>85.1   | 55.2<br>50.0 | 0.939<br>0.858 | 54.4<br>49.3 | 0.925<br>0.916   | 150.8<br>135.4         | 3,619<br>3,250   |
| 17         | 123.93                          | 216.8          | -0.01          | 4.6         | 212.2            | 46.8             | 251.6          | 125.00           | 2,138.6            | -1060.2                 | 0.0            | 251.6          | 2,047.0            | 123.88<br>123.80 | 83.9<br>92.6   | 49.3<br>54.3 | 0.848          | 48.6<br>53.5 | 0.914            | 133.1                  | 3,194<br>3,554   |
| 19<br>20   | 123.87<br>123.81                | 203.1<br>137.6 | 0.01<br>-0.01  | 4.6<br>4.6  | 198.5<br>133.0   | 65.5<br>46.7     | 277.7<br>245.2 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 1251.1                  | 0.0<br>6,0     | 277.7<br>245.2 | 2,040.2<br>2,030.5 | 123.68           | 81.7           | 47.8         | 0.826          | 47.2         | 0.910            | 128.8                  | 3,091            |
| 21<br>22   | 123.75                          | 182.8<br>179.6 | -0.07<br>0.05  | 4.6<br>4.6  | 178.2            | -9.3<br>102.5    | 123.7<br>280.7 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                         | 0.0<br>0.0     | 123.7<br>280.7 | 2,035.2<br>2,026.1 | 123.74<br>123.62 | 61.9<br>93.6   | 36.2<br>54.7 | 0.679<br>0.931 | 35.8<br>53.9 | 0.850<br>0.925   | 60.8<br>149.5          | 1,459<br>3,588   |
| 23<br>24   | 123.63<br>123.58                | 175.9<br>183.4 | -0.01<br>0.00  | 4.6<br>4.6  | 171.3            | 37.2<br>55.8     | 212.2<br>227.1 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -1343.0                 | 0,0<br>0.0     | 212.2<br>227.1 | 2,022.6<br>2,018.4 | 123.58<br>123.53 | 70.7<br>75.7   | 41.3<br>44.2 | 0.739<br>0.777 | 40,8<br>43,6 | 0.881<br>0.895   | 107.8<br>117.1         | 2,587<br>2,810   |
| 25         | 123.52                          | 209.4          | 0.01           | 4.6         | 204.8            | 65.0             | 243.8<br>279.0 | 125.00           | 2,138.6            | -1430.2                 | 0.0            | 243.8<br>279.0 | 2,015.0            | 123.48<br>123.40 | 81.3<br>93.0   | 47.4<br>54.2 | 0.820<br>0.923 | 46.8         | 0.958            | 127.3<br>147.8         | 3,055<br>3,547   |
| 26<br>27   | 123.46<br>123.40                | 203.1<br>197.0 | 0.02<br>0.00   | 4.5<br>4.5  | 198.6<br>192.5   | 74.2<br>55.5     | 254.1          | 125.00<br>125.00 |                    | -1572.0                 | 0.0<br>0.0     | 254.1          | 2,002.8            | 123.33           | 84.7           | 49.3         | 0,848          | 53.3<br>48.6 | 0.924<br>0.914   | 133.2                  | 3,197            |
| 28<br>29   | 123,34<br>123,28                | 197.0<br>182.8 | 0.01           | 4.5<br>4.5  | 192.5<br>178.3   | 46.2<br>\$5.4    | 238.7<br>247.9 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -1687.7                 | 0.0<br>0.0     | 238.7<br>247.9 | 1,998.8<br>1,992.8 | 123.28<br>123.21 | 79.6<br>82.6   | 46,3<br>48,0 | 0.805<br>0.829 | 45.6<br>47.3 | 0.904<br>0.910   | 123.7<br>129.1         | 2,969<br>3,098   |
| 30         | 123.22                          | 173.4<br>214.0 | -0.01          | 4.5<br>4.6  | 168.9            | 101.3            | 279.6          | 125.00           | 2,138.6            | -1798.2                 | 0.0<br>0.0     | 279.6<br>268.9 | 1,983.2            | 123.09           | .93.2          | 54.0         | 0.920          | 53.2         | 0.924            | 147.4                  | 3,538<br>102,618 |
|            |                                 |                |                |             |                  |                  |                |                  |                    | $(a,b) \in \mathcal{A}$ |                |                |                    |                  |                |              |                |              |                  |                        |                  |

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#### Table 7.2.11 (3/4)Catalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1975)

|            | Rule                            |                    | ·L-RC          | • •        | laf              | Recv.        | ឆៅ.1+<br>Qi+   | FSHI.            | PSHL               | Qsp                | Spill       |                | Rsv.Vol            | RWI              | 0              | Power            |                | Power                  | Power                                     | 1. martin       |
|------------|---------------------------------|--------------------|----------------|------------|------------------|--------------|----------------|------------------|--------------------|--------------------|-------------|----------------|--------------------|------------------|----------------|------------------|----------------|------------------------|---|-----------------|
|            | Aibog,                          |                    |                | Evp.       | Ечр              | RC           | RC             |                  | Vol.               | PSIII.             |             | <u>411</u>     | ·····              | At end           | Q              |                  | Lou            | Eata                   | Fliwer                                    | Ebergy          |
| 1          | 982 (Lnig.)<br>123,10<br>123,07 | 169.7<br>167.3     | -0.01<br>-0.01 | 5.1<br>5.1 | 164.6            | 18.4<br>9.2  | 187.3<br>173.8 | 125.00<br>125.00 | 2,138.6            |                    | 0.0<br>0.0  | 187.3<br>173.8 | 1,981.2            | 123.06<br>123.05 | 93.7<br>86.9   | 54.2<br>50.3     | 0.923<br>0.863 | 53.4 0.92<br>49.6 0.91 |   | 2,366<br>2,182  |
| 2          | 123.05                          | 163.5              | 0,00<br>-0.01  | 5.1<br>5.1 | 158.4            | 9.2<br>9.2   | 171.4<br>167.6 | 125.00           | 2,138.6<br>2,138.6 | -1846.3            | 0.0<br>0.0  | 171.4<br>167.6 | 1,979.1<br>1,977.8 | 123.03<br>123.02 | 85.7<br>83.8   | 49.6<br>48.5     | 0.852<br>0.836 | 48.9 0.91              |   | 2,146 2,093     |
| 4<br>5     | 123.04<br>123.02                | 157,4<br>153.6     | 0.00           | 5.1        | 148.5            | 9.2          | . 161.5        | 125.00           | 2,138.6            | -1874.1            | 0.0         | 161.5          | 1,976.7<br>1,975.4 | 123.00<br>122.99 | 80.8<br>78.9   | 46.7             | 0.811          | 45.1 0.90<br>45.0 0.90 | 6 83.5                                    | 2,004           |
| 6<br>7     | 123.01<br>122.99                | 147.4<br>144.8     | -0.01<br>-0.00 | 5.1<br>5.1 | 142.3<br>139.7   | 9.2<br>9.2   | 157.7<br>151.5 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -1900.7            | 0.0         | : 151.5        | 1,974.4            | 122.97           | 75.8           | 43.8             | 0.771          | 43.2 0.89              | 4 77.3                                    | 1,855           |
| 8<br>9     | 122.98                          | 141.2              | -0.01<br>0.00  | 5.1<br>5.1 | 136.1<br>.133.7  | 9.2<br>18.3  | 148.9<br>154.4 | 125.00           | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0  | 148.9<br>154.4 | 1,973.3<br>1,971.5 | 122.96<br>122.94 | 74.5<br>77.2   | 43.1<br>44,6     | 0.762<br>0.782 | 42.5 0.89<br>44.0 0.89 | 7 . 78.9                                  | 1,814<br>1,894  |
| 10<br>11   | 122.94<br>122.93                | 136.6<br>136.6     | 0.00           | 5.1<br>5.1 | 131.5<br>131.5   | 9.2<br>18.3  | 142.9<br>149.8 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0<br>0.0  | 142.9<br>149.8 | 1,970.5<br>1,968.9 | 122.93<br>122.91 | 71.5<br>74.9   | 41.3<br>43.2     | 0.739<br>0.764 | 40.8 0.58 42.7 0.89    |   | 1,723<br>1,826  |
| 12         | 122.91                          | 133.8<br>130.1     | 0.00           | 5.1<br>5.1 | 128.7<br>125.0   | 9.2<br>9.2   | 140.7<br>137.9 | 125.00<br>125.00 | 2,138.6<br>2,138.6 |                    | 0.0         | 140.7<br>137.9 | 1,967.9<br>1,966.8 | 122.89<br>122.88 | 70.4<br>69.0   | 40.6             | 0.731<br>0.721 | 40.1 0.87<br>39.3 0.87 |   | 1,687<br>1,646  |
| 13<br>14   | 122.88                          | 127.5              | 0.00           | 5.0        | 122.5            | 9.2          | 134.2<br>140.8 | 125.00           | 2,138.6            | -2000.1<br>-2020.7 | 0.0<br>0.0  | 134.2<br>140.8 | 1,965.8<br>1,964.0 | 122.87<br>122.84 | 67.1<br>70.4   | 38.7<br>40.6     | 0.708          | 38.2 0.86<br>40.1 0.87 | 6 66,2                                    | 1,589<br>1,687  |
| 15<br>16   | 122.87                          | 125.1<br>121.8     | 0.01           | 5.0<br>5.0 | 120,1<br>116.8   | 18.3<br>9.1  | 129.2          | 125.00           | 2,138.6            | -2033.2            | 0.0         | 129.2          | 1 962 9            | 122.83           | 64.6           | 37.2             | 0.691          | 36.8 0.85              | 7 63.1                                    | 1 514           |
| 17<br>18   | 122.83<br>122.82                | 118.9<br>118.9     | 0.00<br>0.00   | 5.0        | 113.9<br>113.9   | 9.1<br>18.3  | 125.9<br>132.2 | 125.00           | 2,138.6            | -2045.6<br>-2063.4 | 0.0<br>0.0  | 125.9<br>132.2 | 1,961.9<br>1,960.3 | 122.82<br>122.80 | 63.0<br>66.1   | 36.3<br>38.1     | 0.681<br>0.701 | 37.6 0.86              | 2 64.9                                    | 1,558           |
| 19<br>20   | 122.90                          | 118.9              | 0.00<br>0.00   | 5,0<br>5,0 | 113,9<br>116.8   | 9.1<br>18.3  |                | 125.00<br>125.00 | 2,138.6<br>2,138.6 | 2072.8<br>2088.3   | 0.0<br>0.0  | 123.0<br>132.2 | 1,959.5<br>1,958.2 | 122.79<br>122.77 | 61.5<br>66.1   | 35.4<br>38.1     | 0.671          | 35.0 0.84<br>37.6 0.86 | 2 64.9                                    | 1,418<br>1,558  |
| 21<br>22   | 122.77                          | 130.1<br>127.5     | 0.00.<br>0.01  | 5.0<br>5.0 | 125.1            | 9.1<br>27.4  | 125.9<br>152.5 | 125.00           | 2,138.6<br>2,138.6 | -2088.8<br>-2119.1 | 0.0<br>0.0  | 125.9<br>152.5 | 1,958.1<br>1,955.5 | 122.77<br>122.74 | 63.0<br>76.3   | 36.3<br>(43.9    | 0.681          | 35.9 0.85<br>43.4 0.89 |   | 1,464           |
| 23<br>24   | 122.74                          | 125.1<br>121.8     | 0.00           | 5.0<br>5.0 | 120.1<br>116.8   | 9.1<br>9.1   | 131.6<br>129.2 | 125.00<br>125.00 | 2,138.6            |                    | 0.0<br>0.0  | 131.6<br>129.2 | 1,954.5<br>1,953.4 | 122.72           | 65.8<br>64.6   | 37.9<br>37.2     | 0.699<br>0.691 | 37.4 0.86<br>36.7 0.85 |   | 1,546           |
| 25         | 122.71                          | 118.9              | 0.00           | 5.0        | 113.9            | 18.2         | 135.0<br>123.0 | 125.00<br>125.00 |                    | -2164.6<br>-2173.5 | 0.0         | 135.0<br>123.0 | 1,951.6<br>1,950.8 | 122.69<br>122.68 | 67.5<br>61.5   | 38.8<br>35.4     | 0.709<br>0.671 | 38.4 0.86<br>35.0 0.84 |   | 1,596           |
| 26<br>27   | 122.69<br>122.68                | 118.9<br>118.9     | 0.00           | 5.0<br>5.0 | 113.9<br>113.9   | 9.1<br>18.2  | 132.1          | 125.00           | 2,138.6            | -2191.8            | 0.0         | 132.1          | 1 949 2            | 122.66<br>122.64 | 66.1<br>61.5   | 38.0<br>35.3     | 0.700          | 37.6 0.86<br>34.9 0.84 | 2 64.7                                    | 1,553<br>1,414  |
| 28<br>29   | 122.66                          |                    | 0.01           | 5.0<br>5.0 | 111.9 -<br>111.9 | 9.1<br>9.1   | 123.0<br>121.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -2203.2<br>-2212.8 | 0.0<br>0.0  | 123.0<br>121.0 | 1,948.2<br>1,947.4 | 122.63           | 60.5           | 34.\$            | 0.664          | 34.4 0.54              | 0 . 57.7                                  | 1,385           |
| 30<br>31   | 122.63<br>122.62                | 114.8<br>118.9     | 0.00           | 5.0<br>5.0 | 109.8<br>113.9   | 9.1<br>18.2  | 121.0<br>128.0 | 125.00<br>125.00 | 2,138.6<br>2,138.6 | -2224.2<br>-2238.6 | 0.0<br>0.0  | 121.0<br>128.0 | 1,946.4<br>1,945.2 | 122.62           | 60.5<br>64.0   | 34.8<br>36.8     | 0,664<br>0.686 | 34.4 0.84<br>36.3 0.85 |   | 1,385           |
|            |                                 | 132.3              |                | 5.0        |                  |              |                |                  |                    |                    | 0.0         | 141.5          |                    |                  |                |                  | •              |                        |   | 52,587          |
| Aug.<br>1  | 1982 (Irrig<br>122.60           | .=57.6 m2<br>133.8 | 3/s)<br>0.00   | 4.6        | 129.2            | 18.2         | 132.1          | 125.00           | 2.138.6            | -2241.3            | 0.0         | 132.1          | 1 944 9            | 122.60           | 66.1           | 38.0             | 0,700          | 37.5 0.86              | 1 64.5                                    | 1,548           |
| 2          | 122.58                          | 125.1<br>130.1     | 0.02           | 4.6<br>4.6 | 120.5<br>125.5   | 36.4<br>0.0  | 165.6<br>120.5 | 125.00<br>125.00 |                    | -2287.0            | 0.0<br>0.0  | 165.6<br>120.5 |                    | 122,55           | 82.8<br>69.3   | 47.5             | 0.822          | 46.9 0.90 34.2 0.83    |   | 2,045           |
| 3<br>4     | 122.55                          | . 118.9            | 0.01           | 4,6        | 114.3            | 18.2         | 143.7          | 125.00           | 2,138.6            | -2311.8            | U.U<br>0.0  | 143.7<br>105.2 | 1,938.9<br>1,939.7 | 122.52<br>122.53 | 21.9<br>52.6   | 41.2<br>30.2     | 0.738          | 40.7 0.88<br>29.8 0.89 | 1 71.7                                    | 1,721           |
| 5 ·<br>6   | 122.54<br>122.53                | 118.9              | -0.02          | 4.6<br>4.6 | 114.3<br>110.2   | -9.1<br>18.2 | 105.2<br>132.5 | 125.00<br>125.00 | 2,138.6            | -2302.2            | 0,0         | 132.5          | 1,937.8            | 122.51           | 66.3           | 38.0             | 0,700          | 37.6 0.86              | 2 64.7                                    | 1,553<br>1,356  |
| 7 · ·<br>8 | 122.51<br>122.50                | 112.6<br>110.5     | 0.00<br>0.00   | 4.6<br>4.6 | 108.0<br>105.9   | 9.1<br>9.1   | 119.3<br>117.1 | 125.00<br>125.00 | 2,138.6            |                    | 0.0<br>0.0  | 119.3          | 1,936.8<br>1,935.8 | 122.50<br>122.48 | 59.7<br>58.6   | 34.2<br>33.6     | 0.658          | 33.2 0.83              | 0 55.1                                    | 1,322           |
| 9<br>10    | 122.49                          | 110.5<br>108.4     | -0.01<br>0.00  | 4.6<br>4.6 | 105.9<br>103.6   | 0.0          | 105.9<br>124.0 | 125.00           |                    | -2347.2<br>-2367.4 | 0.0<br>0.0  | 105.9<br>124.0 | 1,935.8<br>1,934.1 | 122.48<br>122.46 | 53.0<br>62.0   | 30,4<br>35,5     | 0.620<br>0.672 | 30.1 0.80<br>35.1 0.84 | 5 59.3                                    | 1,159           |
| 11<br>12   | 122.46                          | 108.4              | 0.00           | 4.6<br>4.6 | 103.8<br>101.7   | 9.1<br>9.1   | 112.9<br>112.9 | 125.00           |                    | -2376.0<br>-2387.4 | 0.0<br>0.0  | 112.9<br>112.9 | 1 933 3<br>1 932 3 | 122.45<br>122.44 | 56.5<br>56.5   | 32.4<br>32.4     | 0.639<br>0.639 | 32.0 0.82<br>32.0 0.82 |   | 1 260           |
| 13<br>14   | 122.44                          | 106.3<br>106.3     | 0.00           | 4.6<br>4.6 | 101.7            | 9.1<br>18.1  | 110.8          | 125.00           | 2,138.6            | -2396.8            | 0.0<br>0.0  | 110.8<br>119.8 | 1 931 5<br>1 929 9 | 122.43<br>122.41 | 55.4<br>59.9   | 31.7<br>34.3     | 0.633          | 31.4 0.81<br>33.9 0.83 |   | 1,229<br>1,361  |
| 15         | 122.41                          | 104.2              | 0.00           | 4.6        | 99.6             | 9.1          | 110.8<br>108.7 | 125.00           | 2,138.6            | -2426.7<br>-2438.9 | 0.0<br>0.0  | 110.8<br>103.7 | 1 928 9<br>1 927.9 | 122.40           | 55.4<br>54.4   | 31.7             | 0.633          | 31.4 0.81<br>30.8 0.81 |   | 1,226           |
| 16<br>17   | 122.40<br>122.39                | 101.5<br>101.5     | 0.00<br>-0.01  | 4.6<br>4.6 | 96.9<br>96.9     | 9.1<br>0.0   | 96.9           | 125.00           | 2,138.6            | -2438.7            | 0.0         | 96.9           | 1,927.9            | 122.38           | 96.9           | 55.4<br>32.9     | 0.942<br>0.645 | 54.5 0.92<br>32.5 0.82 | 5 50.5                                    | 1,212           |
| 18<br>19   | 122.38<br>122.36                | 101.5              | 0.00<br>0.00   | 4.6<br>4.6 | 96.9<br>96.9     | 18.1<br>9.0  | 115.0<br>105.9 | 125.00<br>125.00 |                    | -2466.2            | 0.0<br>0.0  | 115.0<br>105.9 | 1,925.5            | 122.36<br>122.35 | 57.5<br>53.0   | 30.3             | 0.619          | 30.0 0.80              | 3 48.1                                    | 1,154           |
| 20<br>21   | 122.35                          | 101.5              | 0.00<br>0.00   | 4.6<br>4.6 | 96.9<br>96.9     | 9.0<br>9.0   | 105.9          | 125.00<br>125.00 | 2,138.6            | -2475.4<br>2484.7  | 0.0<br>0.0  | 105.9<br>105.9 | 1,924.7<br>1,923.9 | 122.34<br>122.33 | 53.0<br>53.0   | 30.3<br>30.3     | 0.619<br>0.619 | 30.0 0.80<br>30.0 0.80 | 3 48.1                                    | 1,154<br>1,154  |
| 22<br>23   | 122.33                          | 101.5              | 0.00           | 4.6<br>4.6 | 96.9<br>95.5     | 18.1<br>9.0  | 115.0          | 125.00           | 2,138.6            |                    | 0.0         | 115.0          | 1,922,3<br>1,921,4 | 122.31<br>122.30 | 57.5<br>53.0   | 32.9<br>30.3     | 0.645<br>0.619 | 32.5 0.82<br>30.0 0.80 |   | 1,286           |
| 24         | 122.30                          | 99.9<br>97.8       | 0.00           | 4.6<br>4.6 | 95.3<br>93.2     | 9.0<br>9.0   | 104.5<br>104.3 | 125.00           | 2,138.6<br>2,138.6 | -2523.1            | 0.0<br>0.0  | 104.5<br>104.3 | 1.920.6<br>1.919.6 | 122.29           | 52.3<br>52.2   | 29.9<br>29.8     | 0.615<br>0.614 | 29.6 0.79<br>29.5 0.79 |   | 1,133           |
| 25<br>26   | 122.28                          | 97.8               | 0.00           | 4.6        | 93.2             | 18.1         | 111.3          | 125.00           | 2,138.6            | -2552.8            | 0.0         | 111.3          | 1,918.0            | 122.26           | - 55.7<br>51.1 | 31.8<br>29.2     | 0.634          | 31.5 0.81<br>28.9 0.79 | 6 51.3                                    | 1,231<br>1,099  |
| 27<br>28   | 122.26<br>122.25                | 97.8<br>97.8       | 0.00           | 4.6<br>4.6 | 93.2<br>93.2     | 9.0<br>9.0   | 102.2<br>102.2 | 125.00<br>125.00 | 2,138.6            | -2571.5            | 0.0         | 102.2          | 1.916.4            | .122.24          | 51.1           | 29.2             | 0.609          | 28.9 0.79              | 3. 45.8                                   | 1,099           |
| 29<br>30   | 122.24<br>122.23                | 97.8 ·<br>97.7     | 0.00<br>0.00   | 4.6<br>4.6 | 93.2<br>93.1     | 9.0.<br>18.0 |                | 125.00           | 2,138.6<br>2,138.6 | 2599.1             | 0.0<br>0.0  | 102.2<br>111.2 | 1,914.0            | 122.23<br>122.21 | 51.1<br>55.6   | 29.2<br>31.7     | 0.609<br>0.633 | 28.9 0.79<br>31.4 0.81 | 5 51.1                                    | 1,099           |
| 31         | 122.21                          | 95.7<br>106.7      | 0.00           | 4.6<br>4.6 | 91.1             | 9.0          | 102.1          | 125.00           | 2,138.6            | -2610.5            | 0.0<br>0.0  | 102.1<br>113.9 | 1,913.0            | 122.19           | 51.1           | 29.1             | 0.608          | 28.8 0.79              | 2 45.6                                    | 1,094<br>39,687 |
| Sep. 1     | 982 (Irrig                      | .=29.3 m3          | (5)            |            |                  |              |                |                  |                    | · .                |             | :              |                    |                  | ÷ .            |                  |                |                        | la da | - 14 - C        |
| 1<br>2     | 122.20<br>122.14                | 73.5<br>73.5       | -0.01<br>-0.02 |            | 69.9<br>69.9     | 45.0<br>9.0  | 136.1          | 125.00<br>125.00 |                    | -2677.3<br>-2687.2 | 0.0<br>0.0  | 136.1<br>80.0  |                    | 122.12<br>122.11 | 65.1<br>80.0   | 38.8<br>45.6     | 0.709<br>0.795 | 38.3 0.86<br>44.9 0,90 |   | 1,594<br>972    |
| 3<br>4     | 122.11                          | 93.6<br>93.6       | 0.00           | 3.6        | 90.0<br>90.0     | 27.0<br>44.9 | 96.9<br>134.9  | 125.00<br>125.00 | 2,138.6            | -2694.4<br>-2739.3 | 0.0<br>0,0  | 96.9<br>134.9  | 1,905.8            | 122.10<br>122.05 | 96.9<br>67.5   | 55.2<br>38.4     | 0.939<br>0.704 | 54.3 0.92<br>38.0 0.86 |   | 1,205<br>1,574  |
| 5          | 122,05                          | 93.6               | 0.00           | 3.6        | 90.0             | 18.0         | 108.0          | 125.00<br>125.00 | 2,138.6            | -2757.6<br>-2785.0 | 0.0         | 103.0<br>116.9 | 1,960.3<br>1,898.0 | 122.03<br>122.00 | 54.0<br>58.5   | 30.7<br>33.3     | 0.623          | 30.4 0.80<br>32.9 0.82 | 6 49.0                                    | 1,176<br>1,306  |
| 6<br>7.    | 122.03<br>122.00                | 93.6<br>95.7       |                | 3.6        | 99.0<br>92.1     | 26.9<br>26.9 | 116.9          | 125.00           | 2 138.6            | -2809.5            | 0.0         | 116.9          | 1,895.9            | 121.97           | 58.5           | 33.2             | 0.648          | 32.9 0.82              | 8 54.4                                    | 1,306           |
| 8          | 121.97<br>121.94                | 93.6<br>93.6       | 0.00<br>0.00   | 3.6        | 90.0<br>90.0     | 26.9<br>26.9 | 119.0<br>116.9 | 125.00<br>125.00 | 2 138.6            | -2838.0<br>-2864.9 | 0.0<br>0.0  | 119.0<br>116.9 | 1 891 1            | 121.94<br>121.91 | 59.5<br>58.5   | 33.8<br>33.2     | 0.654<br>0.648 | 33.4 0.83<br>32.8 0.82 | 7 54.3                                    | 1 303           |
| 10<br>11   | 121.91<br>121.88                | 93.6<br>93.6       | 0.60<br>0.00   |            | 90,0<br>90.0     | 26.9<br>26.8 | 116.9<br>116.8 | 125.00<br>125.00 |                    | -2891.5<br>-2918.0 | 0.0         | 116.9<br>116.8 | 1,886.5            | 121.68<br>121.85 | 58.5<br>58.4   | 33.2<br>33.1     | 0.648<br>0.647 | 32.8 0.82<br>32.7 0.82 | 6 54.1                                    | 1,301<br>1,298  |
| 12<br>13   | 121.85<br>121.82                | 93.6<br>93.6       | 0.00           |            | 99.0<br>90.0     | 26.8<br>26.8 | 116.8          | 125.00<br>125.00 |                    | -2944.6<br>-2971.2 | 0,0<br>0.0  | 116.8<br>116.8 | 1,884.2<br>1,881.9 | 121.82<br>121.79 | 58.4<br>58.4   | 33.1<br>33.1     | 0.647          | 32.7 0.82<br>32.7 0.82 |   | 1,298<br>1,296  |
| 14<br>15   | 121.79                          | 71.3<br>91.6       | 0.00<br>•0.02  | 3.6<br>3.6 | 67.7<br>83.0     | 26.8<br>0.0  | 116.8<br>80.0  | 125.00<br>125.00 | 2.138.6            | -3020.2<br>-3011.7 | 0.0<br>0.0  | 116.8<br>80.9  | 1 877.7            | 121.74           | 58.4<br>80.0   | . 33.1<br>. 45.3 | 0.647          | 32.7 0.82<br>44.7 0.90 |   | 1,296           |
| 16         | 121.74                          | 89.5               | 0.01           | 3.6        | 85.9             | 35.7         | 123.7          | 125.00           | 2,138.6            | 3019.4             | 0.0         | 123.7<br>103.7 | 1,875.1            | 121.70           | 61.9<br>51.9   | 35.0<br>29.3     | 0.666<br>0.610 | 34.6 0.84<br>29.0 0.79 | 1 58.2                                    | 1,397           |
| 17<br>18   | 121.71<br>121.68                | 89.5<br>89.5       | -0.01<br>0.00  | 3.6<br>3.6 | 85.9<br>85.9     | 17.8<br>26.7 |                | 125.00<br>125.00 | 2,138.6            | 3067.6<br>-3693.8  | 0.0         | 112.6          | 1,871.3            | 121.68<br>121.65 | 56.3           | 31.8             | 0.634          | 31.5 0.81              | 6 51,4                                    | 1,234           |
| 19<br>20   | 121.65<br>121.62                | 89.5<br>89.5       | 0.00<br>0.00   | 3.6<br>3.6 | 85.9<br>85.9     | 26.7<br>26.7 | 112.6          | 125.00<br>125.00 | 2,138.6            |                    | 0.0<br>0.0  |                | 1 866.7            | 121.62<br>121.59 | 56.3<br>56.3   | 31,8<br>31.8     | 0.634<br>0.634 | 31.4 0.81<br>31.4 0.81 | 5 51.2                                    | 1,231<br>1 229  |
| 21<br>22   | 121.59<br>121.56                | 89.5<br>89.5       | 0.00           | 3.6<br>3.6 | 85.9<br>85.9     | 26,7<br>26.6 | 112.6<br>112.5 | 125.00           |                    | -3173.7<br>-3200.2 | 12.0<br>0.0 | 112.6<br>112.5 | 1,862.1            | 121.56           | 56.3<br>56.3   | 31.8<br>31.7     | 0.634<br>0.633 | 31.4 0.81<br>31.4 0.81 | 5 51.1                                    | 1,229           |
| 23<br>24   | 121.53<br>121:50                | 93.6<br>91.6       | 0.00<br>0.01   | 3.6<br>3.6 | 90,0<br>88.0     | 26.6         | 112.5<br>125.5 | 125.00<br>125.00 | 2,138.6            | -3222.7<br>-3259.7 | 0.0<br>0.0  | 112.5<br>125.5 |                    | 121.51           | 56.3<br>62.8   | 31.7<br>35.4     | 0.633<br>0.671 | 31.4 0.81<br>35.0 0.84 |   | 1,226           |
| 25         | 121,47                          | 91.6               | 0.00           | 3.6<br>3.6 | 88,0<br>88.0     | 17.7<br>26.6 | : 105.7        | 125.00           | 2,138.6            | -3277.0<br>-3303.2 | 0.0<br>0.0  | 105.7<br>114.6 | 1,855.5            | 121.45<br>121.42 | 52.9<br>57.3   | 29.8<br>32.3     | 0.614          | 29.5 0.79<br>31.9 0.81 | 8 47.0                                    | 1,128           |
| 26<br>27   | 121.45<br>121.42                | 91.6<br>91.6       | 0.00           | 3.5        | 88,1             | 26,6         | 114.6          | 125.00           | 2,138.6            | -3329.7            | 0.0<br>0.0  | 114.6          | 1,850.9            | 121.39           | 57.3<br>57.3   | 32.2<br>32.2     | 0.638          | 31.9 0.81<br>31.9 0.81 | 9 52.2                                    | 1,253           |
| 28<br>29   | 121.39<br>121.36                | 91.6<br>87.4       | 0.00           |            | 88.1<br>83.9     | 26.5         | 114.6          | 125.00           | 2,138.6            |                    | 0,0         | 114.6<br>114.6 | 1.845.9            | 121.32           | 57.3           | . 32.2           | 0.638          | 31.8 0.81              | 9 52.2                                    | 1,253           |
| 30         | 121.33                          | 87.4<br>89.8       | -0.01          | 3.5<br>3.6 | 83.9             | 17.7         | 101.6          | 125.00           | 2,138.6            | -3405.4            | 0,0<br>0,0  | 101.6<br>112.8 | 1,544,4            | 121.30           | 50,8           | 28.5             | 0,603          | 28.2 0.78              | 6 44.4                                    | 1,066<br>37,724 |
|            |                                 |                    |                |            |                  |              |                |                  | C                  | 110                |             |                |                    | ÷.,              | j.             |                  |                |                        |   |                 |

#### Table 7.2.11 (4/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1975)

|           | Rule                   |                | LRC            |            | Inf,-          | Recv.         | Inf.1+<br>Qt+  | FSHL             | FSHL               | Qsp                | Spill        |                  | Rsv.Vol            | 8WL              |                | Power        |                 | Power        |                 |                      |                 |
|-----------|------------------------|----------------|----------------|------------|----------------|---------------|----------------|------------------|--------------------|--------------------|--------------|------------------|--------------------|------------------|----------------|--------------|-----------------|--------------|-----------------|----------------------|-----------------|
| Oct. 1    | At beg.<br>982 (Irrig. | Inflow         |                | Eyp.       | Еур.           | RC            | RC             |                  | Vol.               | <u>FSID.</u>       |              | 98               |                    | At end           | . Q            |              | 1.053           | 1            | lata            | Power                | Euergy          |
| 1 2       | 121.30<br>121.21       | 88.5<br>90.2   |                | 2.4<br>2.4 | 86.1<br>87.8   | 79.4<br>44.0  | 163.3<br>130.1 | 125.00<br>124.86 | 2,138.6<br>2,127.0 |                    | 0.0<br>0.0   | 163.3<br>130.1   | 1,637.7<br>1,834,0 | 121.22<br>121.17 | 81.7<br>65.1   | 45.8<br>36.5 | 0.798<br>0.683  | 45.2<br>36.1 | 0.902<br>0.852  | 81.5<br>61.4         | 1,956<br>1,474  |
| 3         | 121.17                 | 91.9<br>91.9   | 0.00           | 2.4<br>2.4 | 89.5<br>89.5   | 35.2<br>44.0  | 123.0<br>133.5 | 124.72<br>124.57 |                    | -3148.1            | 0,0<br>0,0   | 123.0<br>133.5   | 1,831.1<br>1,827,3 | 121.13           | 61.5<br>66.8   | 34,4<br>37,4 | 0.660<br>0.693  | 34.0<br>36.9 | 0.836           | 56.9<br>63.2         | 1,366           |
| 5         | 121.08                 | 91.9           | 0.00           | 2.4        | 89.5           | 35.1          | 124.6          | 124.43           | 2,091.6            | -2962.2            | 0,0          | 124.6            | 1 824 3            | 121.04           | 62.3           | 34.8         | 0.664           | 34.4         | 0.840           | 57.8                 | 1,387           |
| 6<br>7    | 121.04<br>120.99       | 91.9<br>91.9   | 0.00           | 2.4<br>2.4 | 89.5<br>89.5   | 43.9<br>35.1  | 133.4          | 124.29<br>124.15 | 2,080.2            | -2767.7            | 0.0<br>0.0   | 133.4<br>124.6   | 1,820.5<br>1,817.5 | 120.99<br>120.95 | 66.7<br>62.3   | 37.3<br>34.8 | 0.692<br>0.664  | 36,8<br>34,4 | 0.857<br>.0.840 | 63.1<br>57.8         | 1,514<br>1,387  |
| 5<br>9    | 120.95<br>120.91       | 91.9<br>91.9   | 0.00           | 2.4<br>2.4 | 89.5<br>89.5   | 35.0<br>43.7  | 124.5<br>133.2 | 124.00<br>123.86 | 2,056.6<br>2,045.3 | -2671.6<br>-2584.2 | 0.0<br>0.0   | 124_5<br>133.2   | 1,814,5<br>1,810,7 | 120.91<br>120.86 | 62.3<br>66.6   | 34.8<br>37.1 | 0.664<br>0.690  | 34.4<br>36.7 | 0.840<br>0.856  | 57,7<br>62.8         | 1,385<br>1,507  |
| 10        | 120.86                 | 91.9           | 0.00           | 2,4        | 89.5           | 34.9          | 124.4          | 123.72           | 2,034.0            | -2488.6<br>-2393.7 | 0.0          | 124.4<br>124.4   | 1,807.7            | 120.82           | 62.2<br>62.2   | 34.6<br>34.6 | 0.662           | 34.2<br>34.2 | 0.838           | 57.4<br>57.4         | 1,378<br>1,378  |
| 11<br>12  | 120.82<br>120.78       | 91.9<br>50.2   | 0.00<br>0.00   | 2.4<br>2.4 | 89.5<br>87.8   | 34.9<br>43.6  | 133.1          | 123.58<br>123.44 | 2,011.5            | -2299.9            | 0.0<br>0.0   | 133.1            | 1,800.8            | 120.78<br>120.73 | 66.6           | 37.0         | 0.688           | 36.6         | 0.855           | 62.5                 | 1,500           |
| 13<br>14  | 120,73<br>120.69       | 88.5<br>86.7   | 0.00<br>0.00   | 2.4<br>2.4 | 86.1<br>84,3   | 34.8<br>43.5  | 122.6<br>129.6 | 123.29<br>123.15 | 1,999.5<br>1,988,3 | -2206.6<br>-2124.0 | 0.0<br>0.0   | 122.6<br>129.6   | 1,797.6            | 120.69<br>120.63 | 61.3<br>64.8   | 34.1<br>36.0 | 0,657<br>0.677  | 33.7<br>35.6 | 0.834<br>0.848  | 56.2<br>60.3         | 1,349<br>1,447  |
| 15<br>16  | 120.64<br>120.60       | 88.5<br>88.5   | -0.01<br>0.01  | 2.4<br>2.4 | 86.1<br>86.1   | 26.1<br>43.4  | 110.4          | 123,01<br>122.87 | 1,977.2            | -2019.7<br>-1926.5 | 0.0<br>0.0   | 110.4<br>129.5   | 1,791.6<br>1,787.9 | 120.61<br>120.56 | 55.2<br>64.8   | 30.6<br>35.9 | 0.622<br>0.676  | 30.3<br>35.5 | 0.806<br>0.848  | 48.8<br>60.2         | 1,171<br>1,445  |
| 17        | 120.56                 | 88.5           | 0.00<br>0.00   | 2.4<br>2.4 | 86.1<br>84.3   | 43.4<br>34.7  | 129.5<br>120.8 | 122.72           | 1,954,3            | -1842.0<br>-1750.6 | 0.0<br>0.0   | 129.5<br>120.8   | 1,784.2            | 120.51           | 64.8<br>60.4   | 35.9<br>33.4 | 0.676<br>0.650  | 35.5<br>33.0 | 0.848           | 60.1<br>54.8         | 1,442<br>1,315  |
| 18<br>19  | 120.51<br>120.47       | 86.7<br>86.7   | -0.01          | 2.4        | 84.3           | 26.0          | 110.3          | 122.44           | 1,932.3            | 1649.8             | 0.0          | 110.3            | 1,778.8            | 120.43           | 55.2           | 30.5         | 0.621           | 30.2         | 0.805           | 48.6                 | 1,166           |
| 20<br>21  | 120.43<br>120.38       | 85.0<br>85.0   | 0.00<br>0.00   | 2.4<br>2.4 | 82.6<br>82.6   | 43.2<br>34.6  | 127.5<br>117.2 | 122.30<br>122.16 | 1,921.3<br>1,910,4 | -1568.0<br>-1468.6 | 0.0          | 127.5<br>117.2   | 1,774.9<br>1,771.9 | 120.38<br>120.34 | 63.8<br>58.6   | 35.3<br>32.4 | 0.670<br>0.639  | 34.8<br>32.0 | 0.843<br>0.820  | 58.7<br>52 <b>.5</b> | 1,409<br>1,260  |
| 22<br>23  | 120.34<br>120.29       | 85.0<br>85.0   | 0.00           | 2.3<br>2.3 | 82.7<br>82.7   | 43.1<br>34.5  | 125.7          | 122.01<br>121.87 | 1,898,8<br>1,887.9 | -1385.6            | 0.0<br>0.0   | 125.7            | 1,765.2<br>1 765.2 | 120.29<br>120.25 | 62.9<br>58.6   | 34.7<br>32.3 | 0.663           | 34,3<br>31.9 | 0.839<br>0.819  | 57.5<br>52.3         | 1,380<br>1,255  |
| 24        | 120.25                 | 65.0           | 0.00           | 2.3        | 82.7           | 34.4          | 117.1          | 121.73           | 1,877.1            | -1205.7            | 0.0<br>0.0   | 117.1<br>125.7   | 1,762.2            | 120.21           | 58.6<br>62.9   | 32.3<br>34.6 | 0.638<br>0.662  | 31.9         | 0.819           | 52.2<br>57.3         | 1,253           |
| 25<br>26  | 120.21<br>120.16       | 85,0<br>85,0   | 0.00<br>0.00   | 2.3<br>2.3 | 82.7<br>82.7   | 43.0<br>34.4  | 125,7          | 121.59<br>121.44 | 1,854.9            | -1115.9<br>-1026.3 | 0.0          | 117.1            | 1,758.5<br>1,755.5 | 120.16<br>120.12 | 58.6           | 32.2         | 0.638           | 34.2<br>31.9 | 0.819           | 52.2                 | 1,253           |
| 27<br>28  | 120.12<br>120.08       | 85.0<br>85.0   | 0.00<br>0.00   | 2.3<br>2.3 | 82,7<br>82.7   | 34.3<br>42.9  | 117.0<br>125.6 | 121.30<br>121.16 | 1,844.2<br>1,833.5 | -937.1<br>-857.7   | 0.0<br>0.0   | 117.0<br>125.6   | 1,752.5<br>1,748.8 | 120.08<br>120.03 | 58.5<br>62.8   | 32.2<br>34.5 | 0.638<br>0.661  | 31.8<br>34.1 | 0.819<br>0.837  | 52.1<br>57.1         | 1,250           |
| 29<br>30  | 120.03<br>119.99       | 85.0<br>85.0   | 0.00<br>0.00   | 2.3<br>2.3 | 82.7<br>82.7   | 34.3<br>42.8  | 117.0          | 121.02<br>120.88 | 1,822.9<br>1,812.3 | -769.3<br>-681.7   | 0,0<br>0.0   | 117.0<br>125.5   | 1,745.8<br>1,742.1 | 119.99<br>119.94 | 58.5<br>62.8   | 32.1<br>34.4 | 0.637<br>0.660  | 31.7<br>34.0 | 0,818<br>0,836  | 51.9<br>56.9         | 1,246           |
| 31        | 119.94                 | 85.0           | 0.00           | 2.3        | 82.7           | 34.2          | 116.9          | 120.73           | 1,801,0            | -593.2             | 0.0          | 116.9            | 1,739.1            | 119.90           | 58.5           | 32.1         | 0.637           | 31.7         | 0.818           | 51.8                 | 1,243           |
|           |                        | 88.1           |                | 2.4        |                |               |                |                  | •                  |                    | 0.0          | 125.0            |                    |                  |                |              |                 |              |                 |                      | 42,744          |
| Νον.<br>1 | 119,90                 | 106.1          | 0.00           | 13         | 104.8          | 102.4         |                | 120.59           | 1,790.4            | -553.7             | 0.0          | 185.1            | 1,732.2            | 119.81           | 92.6           | 50.7         | 0.869           | 49.9         | 84Q.0           | 91.6                 | 2,198           |
| 2.3       | 119,78<br>119,73       | 106.1<br>83.3  | 0.03           | 1.3<br>1.3 | 104.8          | 68.1<br>51.0  | 172.9          | 120.45           | 1,789,0            | -499,8<br>-444,2   | 0.0<br>0.0   | 172.9<br>155.8   | 1,726.3<br>1,719.9 | 119.73<br>119.64 | 86.5<br>77.9   | 47.3<br>42.5 | 0.819<br>0.755  | 46.6<br>41.9 | 0.908<br>0.887  | 84_5<br>74,4         | 2,028<br>1,786  |
| 4 5       | 119.67<br>119.61       | 83.3<br>83.3   | -0.03          | 1.3<br>1.3 | 82.0<br>82.0   | 25.5<br>50.9  | 107.5<br>132.9 | 120.16<br>120.02 | 1,758.3            | -350.7<br>-281,2   | 0.0<br>0.0   | 107.5<br>132.9   | 1717.7             | 119.61<br>119.55 | 53.8<br>66.5   | 29.3<br>36.2 | 0.610<br>0.679  | 29.0<br>35.8 | 0.794<br>0.850  | 45.0<br>60.8         | 1,104           |
| 6         | 119.55                 | 83.3           | 0.00           | 1.3        | . 82.0         | 50.8          | 132.8          | 119.88           | 1,737.6            | -212.8             | 0.0          | 132.8            | 1,708.9            | 119.49           | 66.4           | 36.1         | 0.678           | 35.7         | 0.849           | 60.6                 | 1,454           |
| 7.<br>8.  | 119.49<br>119.44       | 83.3<br>83.3   | 0.00<br>0.00   | 1.3<br>1.3 | 82.0<br>82.0   | 42.3          | 124.3<br>132.7 | 119.74<br>119.60 | 1,727.3            | -136.0<br>-60.0    | 0.0          | 124.3<br>132.7   | 1,705.2<br>1,700.8 | 119.44<br>119.38 | 62.2<br>66.4   | 33.8<br>36.1 | 0.654<br>0.678  | 33.4<br>35.6 | 0.832           | 55.6<br>60,4         | 1,334<br>1,450  |
| 9<br>10   | 119.38<br>119.31       | 83.3<br>83.3   | 0.00<br>0.00   | 1.3<br>1.3 | 82.0<br>82.0   | 59.0<br>117.7 | 141.0<br>199.7 | 119.45<br>119.31 | 1,706.0            | -1.1<br>-2.0       | 0.0<br>0.0   | 141.0<br>199.7   | 1,695.7<br>1,685.5 | 119.31           | 70,5<br>99,9   | 38.2<br>54.1 | 0.702<br>0.921  | 37.8<br>53.2 | 0.863<br>0.924  | 65.2<br>98.2         | 1,565<br>2,357  |
| 11<br>12  | 119.17<br>119.03       | 81.5<br>81.5   | 0.00<br>0.00   | 1.3<br>1.3 | 80.2<br>80.2   | 117.3         | 199.3<br>205.4 | 119.17<br>119.03 | 1,685.7            | -3.4<br>-3.7       | 17.0<br>10.0 | 199.3 ·<br>205.4 | 1.675.2<br>1.664.4 | 119.03<br>118.88 | 99.7<br>102.7  | 53.8<br>55.3 | 0.917<br>0,941  | 52.9<br>54.4 | 0.923<br>0.925  | 97.7<br>100.6        | 2,345<br>2,414  |
| 13        | 118,88                 | 81.5           | 0.00           | 1.3        | 80.2           | 116.5         | 196.7          | 118.88           | 1,664.7            | -4.2               | 0.0          | 196.7            | 1 654 3            | 118.74           | 98.4           | 52.9         | 0.902           | 52.0         | 0.922           | 95.8                 | 2,299           |
| 14<br>15  | 118.74<br>118.60       | 83.3<br>88.5   | 0.00<br>0.00   | 1.3<br>1.3 | 32.0<br>87.2   | 116.1<br>0.0  | 196.3<br>82.0  | 118.74<br>118.60 | 1,654,7<br>1,644.6 | -2.0<br>2.9        | 0.0<br>0.0   | 196.3<br>82.0    | 1,644,4<br>1,644,8 | 118.60<br>118.60 | 98.2<br>82.0   | 52.6<br>43.9 | 0.898           | 51.7<br>43.3 | 0.921<br>0.894  | 95.3<br>38.7         | 2,287<br>929    |
| 16<br>17  | 118.60<br>118.60       | 85.0<br>86.7   | 0.00<br>0.00   | 1.3        | 83.7<br>85.4   | 0.0<br>0.0    | 87.2<br>83.7   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -1.2<br>0.5        | 0.0<br>0.0   | 87.2<br>83.7     | 1,644.5<br>1,644.6 | 118.60<br>118.60 | 87.2<br>83.7   | 46.7<br>44.8 | 0.811<br>0.785  | 46.0<br>44.1 | 0.905<br>0.898  | 41.6<br>39.6         | 998<br>950      |
| 18        | 118.60                 | 85.0           | 0.00           | 1.3        | 83.7<br>83.7   | 0.0<br>0.0    | 85.4<br>83.7   | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -1.7               | 0.0<br>0.0   | 85.4<br>83.7     | 1 644.5<br>1 644.5 | 118.60<br>118.60 | 85.4<br>83.7   | 45.7<br>44.8 | 0.797<br>0.785  | 45.0<br>44.1 | 0.901<br>0.898  | 40.6<br>39.6         | 974<br>950      |
| 19<br>20  | 118.60<br>118.60       | 85.0<br>85.0   | 0.00           | 1.3        | 83.7           | 0.0           | 83.7           | 118.60           | 1,644.6            | -1.2               | 0.0          | 83.7             | 1,644.5            | 118.60           | 83.7           | 44.8         | 0.785           | 44.1         | 0.898           | 39.6                 | 950             |
| 21<br>22  | 118.60<br>118.60       | 83.3<br>83.3   | 0.00           | 1.3<br>1.3 | 82.0<br>82.0   | 0.0<br>33.1   | 83.7<br>115.1  | 118.60<br>118.60 | 1,644.6            | -2.9<br>-35.4      | 0.0          | 83.7             | 1,644.4<br>1,641.5 | 118.60<br>118.56 | . 83.7<br>57.6 | 44.8<br>30.8 | 0.785<br>0.624  | 44.1<br>30.5 | 0.898<br>0.807  | 39.6<br>49.1         | 950<br>1,178    |
| 23<br>24  | 118.56<br>118.51       | 84.5<br>88.5   | 0.00           | 1.3<br>1.3 | 83.2<br>87.2   | 41.3          | 123.3<br>132.7 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -76.0<br>-121.9    | 0.0<br>0.9   | 123.3<br>132.7   | 1,638.0<br>1,634.1 | 118.51<br>118.45 | 61.7<br>65.4   | 33.0<br>35.5 | 0.646<br>.0.672 | 32.6<br>35.0 | 0.825<br>0.844  | 53.7<br>59.1         | 1,289<br>1,418  |
| 25<br>26  | 118.45<br>118.39       | 125.1<br>111.6 | 0.00<br>0.05   | 1.3<br>1.3 | 123.8<br>110.3 | 49.4<br>50.6  | 136.6<br>214.4 | 118.60<br>118.60 | 1.644.6<br>1.644.6 | -134.3             | 0.0<br>0.0   | 136.6<br>214.4   | 1,633.0            | 118.44<br>118.31 | 68.3<br>71.5   | 36.4<br>38.1 | 0,682<br>0.701  | 36.0<br>37.6 | 0.851<br>0.862  | 61.2<br>97.2         | 1,469 2,333     |
| 27        | 118.33                 | 98.8           | -0.02          | 13         | 97.5           | 32.9          | 143.2          | 118.60           | 1,644.6            | -284.1             | 0.0          | 143.2            | 1,620.1            | 118.26           | 71.6           | 38.1<br>34.7 | 0.701           | 37.6         | 0.862<br>0.838  | 64.8<br>57.3         | 1,555           |
| 28<br>29  | 118.27<br>118.22       | 90.2<br>88.5   | -0.01<br>-0.02 | 1.3<br>1.3 | 88.9<br>87,2   | 32.8<br>32.8  | 130.3<br>121.7 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -325.0<br>-359.7   | 0.0<br>0.0   | 130.3<br>121.7   | 1,616.5<br>1,613.5 | 118.20<br>118.16 | 65.2<br>60.9   | 32.3         | 0.663<br>0.638  | 34.2<br>32.0 | 0.820           | 52.4                 | 1,375           |
| 30        | 118.16                 | 86.7<br>88.7   | 0.00           | 1.3<br>1.3 | 85.4           | 49.1          | 136.3          | 118.60           | 1,644.6            | -410.9             | 0.0<br>0.0   | 136.3<br>137.5   | 1,609.1            | 118.10           | 65.2           | 36.2         | 0.679           | 35.7         | 0.849           | 60.6                 | 1,454<br>46,110 |
| Dec. 1    | 982                    |                |                | :          |                |               |                |                  | -                  |                    |              |                  |                    |                  |                |              |                 |              |                 |                      |                 |
| 1         | 118.10<br>117.91       | 85.0<br>83.3   | 0.00           | 0.8<br>0.8 | 84.2<br>82.5   | 154.9<br>81.2 |                | 118.60<br>118.60 | 1,644.6            | -567.0<br>-650.0   | 0.0<br>0.0   | 240.3<br>165.4   | 1,595.6<br>1,588.4 | 117.91<br>117.81 | 80.1<br>82.7   | 42.4<br>43.7 | 0.753<br>0.770  | 41.8<br>43.0 | 0.887<br>0.893  | 111.2<br>76.8        | 2,669<br>1,843  |
| 3         | 117.81                 | 83.3           | 0.00           | 0.8        | 82.5           | 81.0          | 163.5          | 118.60           | 1,644.6            | -731.5             | 0.0          | 163.5            | 1,581.4            | 117.71           | \$1.8          | 43.1         | 0.762           | 42.5         | 0.890           | 75.6                 | 1,814           |
| 4<br>5    | 117,71<br>117,62       | 81.5<br>81.5   | 0.00<br>-0.01  | 0.8        | 80.7<br>80.7   | 72.8<br>72.6  | 155.3<br>153.3 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -806,1<br>-878,2   | 0.0<br>0.0   | 155.3<br>153.3   | 1,575.0<br>1,568.7 | 117.61<br>117.52 | 77.7<br>76.7   | 40.9<br>40.3 | 0.734<br>0.727  | 40.3<br>39.7 | 0.879<br>0.875  | 70.8<br>69.5         | 1,699<br>1,668  |
| 6         | 117.52<br>117.42       | 81.5<br>81.5   | 0.60<br>0.00   | 0.8<br>0.8 | 80.7<br>80.7   | 80.5<br>72.2  | 161.2<br>152.9 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -959.0<br>-1031.7  | 0.0<br>0.0   | 161.2<br>152.9   | 1,561.7<br>1,555.5 | 117.42<br>117.33 | 80.6<br>76.5   | 42.2<br>40.0 | 0.751<br>0.723  | 41.6<br>39.5 | 0.856<br>0.874  | 73.8<br>69.0         | 1,771<br>1,656  |
| 8.        | 117.33                 | 79.8           | 0.00           | 0.8        | 79.0<br>82.5   | 80.1<br>79.9  | 160.8<br>158.9 | 118.60<br>118.60 | 1,644.6            |                    | 0.0<br>0.0   | 160.8<br>158.9   | 1,548.4<br>1,541.8 | 117.23<br>117.14 | 80.4<br>79.5   | 42.0<br>41.4 | 0.748<br>0,741  | 41.4<br>40.9 | 0.885<br>0.882  | . 73.3<br>72.0       | 1,759           |
| 9<br>10   | 117.23<br>117.13       | 83.3<br>83.3   | 0.00<br>0.01   | 0.8<br>0.8 | 82.5           | . 87.6        | 170.1          | 118.60           | 1,644.6            | 1277.4             | 0.0          | 170.1            | 1,534.2            | 117.03           | 85.1           | 44.3         | 0.778           | 43.6         | 0.895           | 78.0                 | 1,872           |
| 11<br>12  | 117.03<br>116.94       | 81.5.<br>79.2  | 0.00<br>-0.01  | 0.8<br>0.8 | 80.7<br>78.4   | 71.5<br>71.3  | 154.0<br>152.0 | 118.60<br>118.60 | 1,644.6            | -1351.1<br>-1424.3 | 0.0<br>0.0   | 154.0<br>152.0   | 1,527.9<br>1,521.5 | 116.93<br>116.84 | 77.0<br>76.0   | 40.0<br>39.4 | 0.723<br>0.716  | 39.4<br>38.9 | 0.873<br>0.870  | 68.9<br>67.6         | 1,654<br>1,622  |
| 13<br>14  | 116.84<br>116.74       | 78.0<br>76.4   | 0.00<br>0.00   | 0.8<br>0.8 | 77.2<br>75.6   | 79.1<br>71.0  | 157.5<br>148.2 | 118.60           | 1,644.6            | -1505.1<br>-1577.2 | 0.0<br>0.0   | 157.5<br>148.2   | 1,514.6            | 116.74<br>116,65 | 78.8<br>74.1   | 40.8<br>38.3 | 0.733<br>0.703  | 40.2<br>37.8 | 0.878<br>0.863  | 70.5<br>65.2         | 1,692<br>1,565  |
| 15        | 116.65                 | 78.0           | 0.00           | 0.8<br>0.8 | 77.2<br>77.2   | 78.7          | 154.3<br>155.7 | 118.60<br>118.60 | 1,644.6            | -1654.6<br>-1733.6 | 0.0          | 154.3<br>155.7   | 1,501.6<br>1,494.8 | 116.55<br>116.45 | 77.2<br>77.9   | 39.8<br>40.1 | 0.721<br>0.725  | 39.2<br>39.5 | 0.872<br>0.874  | 68.4<br>69.0         | 1,642<br>1,656  |
| 16<br>17  | 116.55<br>116,45       | 78.0<br>79.2   | 0.00           | 0.8        | 78.4           | 78.5          | 147.6          | 118.60           | 1,644.6            | -1803.0            | 0.0          | 147.6            | 1,488.8            | 116.36           | 73.8           | 37.9         | 0.699           | 37.4         | 0.861           | 64.4                 | 1,546           |
| 18<br>19  | 116.36<br>116.26       | 79.2<br>79.2   |                | 0.8        | 78.4<br>78.4   | 78.1<br>77.9  | 156.5<br>156.3 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -1958.7            | 0.0          | 156.5<br>156.3   | 1 482.1<br>1 475.4 | 116.26<br>116.16 | 78.3<br>78.2   | 40.1<br>40.0 | 0.725<br>0.723  | 39.6<br>39.5 | 0.875<br>0.874  | 69.2<br>68.9         | 1,661<br>1,654  |
| 20<br>21  | 116.16<br>116.07       | 81.1<br>119.4  | 0.00           | 0.8<br>0.8 | 80,3<br>118,6  | 69.9<br>77.5  | 148.3<br>157.8 | 118.60<br>118.60 |                    | -2026.3<br>-2065.8 | 0.0<br>0.0   | 148.3<br>157.8   | 1,469.5<br>1,466.1 | 116.07<br>116.02 | 74.2<br>78.9   | 37.9<br>40.2 | 0.699<br>0.726  | 37.4<br>39.7 | 0.861<br>0.875  | 64.3<br>69.4         | 1,543<br>1,666  |
| 22        | 115.97                 | 148.7          | 0.05           | 0.8<br>0.7 | 147.9<br>112.9 | 116.0         | 234.6<br>248.2 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2152.7            | 0.0<br>0.0   | 234.6<br>248.2   | 1,458.6<br>1,446.9 | 115.91<br>115,73 | 78.2<br>82.7   | 39.8<br>42.0 | 0.721           | 39.3<br>41.4 | 0.873<br>0.885  | 102.9<br>109.9       | 2,470<br>2,638  |
| 23<br>24  | 115.87<br>115.78       | 113,6<br>104.2 | 0.05           | 0.7        | 103.5          | 38.4          | 151.3          | 118.60           | 1,644.6            | -2336.0            | 0,0          | 151.3            | 1,442.8            | 115.67           | 75.7           | 38.4         | 0.704           | 37.8         | 0.863           | 65.3                 | 1,567           |
| 25<br>26  | 115.68<br>115.58       | 97.2<br>93.6   | 0.01           | 0.7        | 96.5<br>92.9   | 69.0<br>68.8  | 172.5          | 118.60<br>118.60 |                    | -2411.6<br>-2484.4 | 0.0<br>0.0   | 172.5<br>165.3   | 1,436.2<br>1,429.9 | 115,57<br>115,48 | 86.3<br>82.7   | 43.7<br>41.8 | 0.770<br>0.746  | 43.0<br>41.2 | 0,823<br>0.884  | 76.8<br>72.7         | 1,843<br>1,745  |
| 27<br>28  | 115.48                 | 102.4          | 0.00           | 0.7<br>0.7 | 101.7<br>99.9  | 68.6<br>\$3.7 | 161.5<br>185.4 | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -2544.8<br>-2630.6 | 0.0<br>0.0   | 161.5<br>185.4   | 1,424.7<br>1,417.3 | 115,40<br>115,29 | 80.8<br>92.7   | 40.7<br>46.6 | 0.732<br>0.809  | 40.2<br>45.9 | 0.878<br>0.905  | 70,5<br>83,1         | 1,692<br>1,994  |
| 29        | 115.29                 | 102.4          | 0.00           | 0.7        | 101.7          | 75.9          | 175.8          | 118.60           | 1,644,6            | -2704.9<br>-2776.6 | 0,0<br>0,0   | 175.8<br>169.8   | 1,410.9<br>1,404.7 | 115.19<br>115.09 | 87.9<br>84.9   | 44.1<br>42.5 | 0.775           | 43.5<br>41.9 | 0.895<br>0.887  | 77.8<br>74,4         | 1,867<br>1,786  |
| 30<br>31  | 115.19<br>115.10       |                | 0,00<br>-0.01  | 0.7<br>0.7 | 98.1<br>94.7   | 68.1<br>67.9  |                | 118,60           | 1,644.6            | -2776.6            | 0.0          | 166.0            | 1,398.5            | 115.00           | 83.0           | 41.5         | 0.733           | 41.9         | 0.882           | 72.2                 | 1,733           |
|           |                        | 90.0           |                | 0.8        |                |               |                |                  |                    |                    | 0.0          | 167,8            |                    |                  |                |              |                 |              |                 |                      | 55,715          |
| Grand     | Total                  | 2,534          |                | 32         |                |               |                |                  | С.                 | 111                | 296          | 2,203            |                    |                  |                |              |                 |              |                 |                      | 790,301         |

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#### Table 7.2.12 (1/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1988)

|           |                  |                  |                |              |                  |                  |                |                  | <b>X</b>             |                    |                |                 |                    |                  |                |              |                |              |                |                |                            |
|-----------|------------------|------------------|----------------|--------------|------------------|------------------|----------------|------------------|----------------------|--------------------|----------------|-----------------|--------------------|------------------|----------------|--------------|----------------|--------------|----------------|----------------|----------------------------|
|           |                  |                  |                |              |                  |                  | Inf.1+         |                  |                      |                    |                |                 |                    | <b>5</b> 344     |                |              |                | 19           |                |                |                            |
|           | Rule<br>At beg.  | RW<br>Inflow     | /L-RC          | Evp.         | Inf<br>Evp.      | Recv.<br>RC      | Qi+<br>RC      | FSHL.            | FSHL<br>Vol.         | Qsp<br>FSHL        | Spill          | 913             | Rav.Vol            | RWL<br>At end    | <u> </u>       | Power        | 1.055          | Power        | iata P         | 15%0           | Energy                     |
| 740.<br>1 | 1982<br>115.00   | 182.1            | 0.60           | 0.7          | 181.4            | -67.9            | 265.3          | 118.60           | 1,644.6              | -2930.0            | 0.0            | 265.3           | 1,398.7            | 115.00           | 88.4           | 44,1         | 0.775          | 43.5         | 0.895          | 116.7          | 2,801<br>826               |
| 2<br>3    | 115.09<br>115.14 | 173.6<br>169.7   | 0.20           | 0.7<br>0.7   | 172.9<br>169.0   | -188.5<br>-136.1 | \$0.0<br>\$0.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -2836.5<br>-2747.8 | 0.0<br>0.0     | 80.0<br>80.0    | 1,399.5<br>1,407.2 | 115.01           | 80.0<br>80.0   | 39.9<br>40.0 | 0.722<br>0.723 | 39.4<br>39.5 | 0.873<br>0.874 | 34.4<br>34.5   | 828                        |
| 4         | 115.19<br>115.23 | 164.7<br>161.1   | -0.06<br>-0.01 | 0,7<br>0,7   | 164.0<br>160.4   | -75.8            | 93.2<br>118.5  | 118.60<br>118.60 | 1,644.6              | -2676.9<br>-2635.2 | 0.0            | 93.2 .<br>118.5 | 1,413.3<br>1,416.9 | 115.22           | 93.2<br>59.3   | 46.7<br>29.8 | 0.811<br>0.614 | 46.0<br>29.4 | 0.905<br>0,797 | 41.6<br>46.9   | 998<br>1,126               |
| 6         | 115.28           | 164.2            | 0.00           | 0.8          | 163.4            | 38.0             | 122.4<br>125.3 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -2594.4<br>-2565.2 | 0.0<br>0.0     | 122.4<br>125.3  | 1,420.4            | 115.33<br>115.37 | 61.2<br>62.7   | 30.8<br>31.6 | 0.624          | 30.4<br>31.2 | 0.805<br>0.814 | 49.0<br>50.7   | 1,176                      |
| 7<br>8    | 115.33<br>115,38 | 154.8<br>153.6   | 0.00<br>•0.01  | 0.8<br>0.8   | 154.0<br>152.8   | -38.1<br>-38.1   | 115.9          | 118.60           | 1,644.6              | -2529.1            | 0.0            | 115.9           | 1,426.1            | 115.42           | 58.0           | 29.2         | 0.609          | 28.9         | 0.793          | 45.7<br>45.1   | 1,097<br>1,082             |
| 9<br>10   | 115.42<br>115.47 | 151.1<br>151.1   | 0.00           | 0.8<br>0.8   | 150.3<br>150.3   | -38.1<br>-38.2   | 114.7<br>112.1 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -2493.3<br>-2454.9 | 0.0<br>0.0     | 114.7           | 1,429.2<br>1,432.5 | 115.47<br>115.52 | 57.4<br>56.1   | 28.9<br>28.3 | 0,606          | 28.6<br>28.0 | 0,784          | 43.8           | 1.051                      |
| 11<br>12  | 115.52<br>115.56 | 151.1<br>149.9   | 0.00<br>0.00   | 0.8<br>0.8   | 150.3<br>149.1   | -30.6<br>-38.3   | 119.7          | 118.60<br>118.60 | 1,644.6              | -2424.3<br>-2387.7 | 0.0            | 119.7<br>112.0  | 1,435.1<br>1,438.3 | 115.56<br>115.60 | 59.9<br>56.0   | 30.3<br>28.3 | 0.619<br>0.601 | 29.9<br>28.0 | 0.802<br>0.784 | 47.9<br>43.9   | 1,150<br>1,054             |
| 13        | 115.61           | 147,4            | +0.01          | 0.8          | 146.6            | -46.0<br>-30.7   | 103.1<br>115.9 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -2344.2<br>-2314.4 | 0.0<br>0.0     | 103.1<br>115.9  | 1 442.1<br>1 444.6 | 115.66<br>115.70 | 103.1<br>58.0  | 52.2<br>29.4 | 0,892          | 51.3<br>29.0 | 0.921<br>0.794 | 47.2<br>46.1   | 1.13 <sup>3</sup><br>1.106 |
| 14<br>15  | 115.66<br>115.70 | 145.1<br>143.7   | 0.00           | 0.8<br>0.8   | 145.3<br>142.9   | -38.4            | 106.9          | 118.60           | 1,644.6              | -2278.8            | 0.0            | 106.9           | 1,447.7            | 115.75           | 106.9<br>104.4 | 54.2<br>53.0 | 0.923          | 53.2<br>52.0 | 0.924          | 49.2<br>48.0   | 1,181                      |
| 16<br>17  | 115.75<br>115.80 | 142.5<br>140.0   | 0.00           | 0.8<br>0.8   | 141.7<br>139.2   | -38.5<br>-38.5   | 104.4<br>103.2 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -2241.6<br>-2205.9 | 0.0            | 104.4<br>103.2  | 1,450.9<br>1,454.0 | 115.79<br>115.84 | 103.2          | 52.4         | 0.895          | 51.5         | 0.921          | 47.4           | 1,138                      |
| 18<br>19  | 115.84<br>115.89 | 147.4            | 0.00           | 0.8          | 146.6<br>136.7   | -38.6<br>-30.9   | 100.6<br>115.7 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -2160.0<br>-2138.7 | 0.0<br>0.0     | 100.6           | 1,458.0<br>1,459.8 | 115.90<br>115.93 | 100.6<br>57.9  | 51.1<br>29.5 | 0.875          | 50.3<br>29.1 | 0.918<br>0.795 | 46.2<br>46.2   | 1,109                      |
| 20        | 115,94           | 135.0<br>133.8   | -0.01<br>-0.01 | 0.8          | 134.2<br>133.0   | -38.7<br>-46.5   | 98.0<br>87.7   | 118.60<br>118.60 | 1,644.6              | -2102.7            | 0.0<br>0.0     | 98,0<br>87.7    | 1,452.9            | 115.97<br>116.03 | 98.0<br>87.7   | 49.9<br>44.7 | 0.857<br>0.783 | 49.1<br>44.0 | 0.915<br>0.897 | 44.9<br>39.5   | 1,078<br>948               |
| 21<br>22  | 115.98<br>116.03 | 133.8            | 0.00           | 0.8          | 133.0            | -38.8            | 94.2           | 118.60           | 1,644.6              | -2019.1            | 0.0            | 94.2<br>94.2    | 1,470.2            | 116.08           | 94.2<br>94.2   | 48.1<br>48.1 | 0.830          | 47.3<br>47.3 | 0.910          | 43.0<br>43.1   | 1,032<br>1,034             |
| 23<br>24  | 116.08<br>116.13 | 137.5            | 0.00<br>0.01   | 0.8<br>0.8   | 136.7<br>141.7   | -38.8<br>-23.3   | 94.2<br>113.4  | 118.60<br>118.60 |                      | -1976.0<br>-1947.4 | 0.0<br>0.0     | 113.4           | 1,476.3            | 116.17           | 56.7           | 29.0         | 0.607          | 23.6         | 0.790          | 45.3           | 1.087                      |
| 25<br>26  | 116.17<br>116.22 | 143.7<br>142.5   | 0.00<br>0.01   | 0.8<br>0.8   | 142.9<br>141.7   | -38.9            | 102.8          | 118.60<br>118.60 | 1,644.6              | -1907.8<br>-1877.4 | 0.0<br>0.0     | 102.8<br>111.7  | 1,479.8<br>1,482.4 | 116.23<br>116.26 | 102.8<br>55.9  | 52.6<br>28.6 | 0,898<br>0.604 | 51.7<br>28.3 | 0.921<br>0.787 | 47.6<br>44.5   | 1,142<br>1,068             |
| 27        | 116.27           | 140.0<br>140.0   | -0.01<br>0.00  | 0.8<br>0.8   | 139.2<br>139.2   | -39.0<br>39.1    | 102.7<br>100.1 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -1840.8<br>-1801.2 | 0.0<br>0.0     | 102.7<br>100.1  | 1,495.6<br>1,459.0 | 116.31<br>116.36 | 102.7          | 52.6<br>51.3 | 0.895<br>0.878 | 51.7<br>50.5 | 0.921<br>0.919 | 47.6<br>46.4   | 1 142<br>1 114             |
| 28<br>29  | 116.31           | 140.0            | 0.00           | 0.8          | 139.2            | -39.1            | 100.1          | 118.60           | 1,644.6              | -1761.8            | 0.0            | 100.1           | 1,492.4            | 116.41           | 100.1          | 51.4<br>55.4 | 0.879<br>0.942 | 50.5<br>54.4 | 0.919<br>0.925 | 46.4<br>50.4   | 1 114<br>1 210             |
| 30<br>31  | 116.41<br>116.45 | 140.0<br>204.3   | 0.00<br>0.00   | 0.8<br>0.8   | 139.2<br>203.5   | -31.3<br>-39.2   | 107.9<br>100.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -1730.3<br>-1626.8 | 0.0<br>0.0     | 107.9<br>100.0  | 1,495.1<br>1,504.0 | 116.45<br>116.58 | 107.9<br>109.0 | 51.5         | 0.942          | 50.6         | 0.919          | 46.5           | 1,116                      |
|           |                  | 150.5            |                | 8.0          |                  | · ·              |                |                  |                      |                    | 0.0            | 110.4           |                    |                  | 1.             |              |                |              |                |                | 35,419                     |
|           | 1982             | 607.0            | 0.00           | 1.6          | 606.0            | -23.6            | 179.9          | 118.60           | 1,644.6              | -1201.2            | 0.0            | 179.9           | 1,540.8            | 117.12           | 90.0           | 46.6         | 0.809          | 45.9         | 0.905          | 83.0           | 1,992                      |
| 1.<br>2   | 116.50<br>116.61 | 607.0<br>355.5   | 0.08<br>0.51   | 1.0<br>1.0   | 354.5            | 356.7            | 360.0          | 118.60           | 1,644.6              | -1206.9            | 0.0            | 360.0           | 1,540.3<br>1,532.0 | 117.11           | 120.0          | 62.5<br>62.4 | 1.065          | 61.2<br>61.1 | 0.924          | 169.7<br>169.5 | 4,073 4,068                |
| 3         | 116.67           | 265.1<br>230.4   | 0,44<br>0.27   | 1.0          | 264.1<br>229.4   | 309.3<br>166.4   | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -1303.1<br>-1433.8 | 0.0<br>0,0     | 360.0<br>360.0  | 1,520.7            | 116.99<br>116.83 | 120.0<br>120,0 | 62.2         | 1.060          | 61.0         | 0.924          | 169.0          | 4,055                      |
| 5         | 116.78<br>116.83 | 206.9<br>194.4   | 0.05           | 1.0<br>1.0   | . 205.9<br>193.4 | 0.0              | 229.4<br>134.6 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -1457.5<br>-1398.4 | 0.0            | 229.4           | 1,518.7<br>1,523.8 | 116.80           | 76.5<br>67.3   | 39.6<br>34.8 | 0.719<br>0.664 | 39.1<br>34.4 | 0.872<br>0.840 | 102.1          | 2,450                      |
| 7         | 116.89           | 185.9            | -0.02          | 1.0          | 184.9            | -\$5.5           | 137.9          | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -1351.1<br>-1301.4 | 0.0<br>0.0     | 137.9<br>129.3  | 1,527.9            | 116.93           | 69.0<br>64.7   | 35.8<br>33.6 | 0.675<br>0.652 | 35.3<br>33.2 | 0,846<br>0,830 | 59.7<br>55.0   | 1,433<br>1,320             |
| .8<br>9   | 116.94           | 179.6<br>173.4   | -0.01<br>0.00  | 1.0          | 178.6<br>172.4   | -55.6<br>-39.8   | 129.3<br>138.8 | 118.60           | 1,644.6              | -1267.3            | 0.0            | 138.8           | 1,535.1            | 117.04           | 69.4           | 36.1         | 0.678          | 35.6         | 0.848          | 60.4           | 1 450                      |
| 10<br>11  | 117.05<br>117.11 | 168.5            | -0.01<br>-0.01 | 1.0          | 167.5            | -55.7<br>-47.9   | 116.7<br>119.6 | 118.60<br>118.60 | . 1,644.6<br>1,644.6 | -1216.6<br>-1172.3 | 0.0<br>0.0     | 116.7<br>119.6  | 1,539.5<br>1,543.3 | 117.10<br>117.16 | 58.4<br>59.8   | 30.4<br>31.1 | 0.620          | 30.0<br>30.8 | 0.803          | 48.2<br>49.8   | 1,157                      |
| 12<br>13  | 117.16           | 162.3            | 0.00<br>-0.01  | 1.0<br>1.0   | 161.3<br>159.5   | -47.9<br>-48.0   | 115.8<br>113.3 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -1127.0<br>-1081.1 | 0.0<br>0.0     | 115.8<br>113.3  | 1,547.2            | 117.21           | 57.9<br>56.7   | 30.2<br>29.6 | 0.618<br>0.613 | 29.8<br>29.2 | 0.801          | 47.8<br>46.5   | 1,147                      |
| 14        | 117.27           | 158.6            | 0.00           | 1.0          | 157.6            | -48.1            | 111.4          | 118.60           | 1,644.6              | -1034.8            | 0.0<br>0.0     | 111.4<br>117.5  | 1,555.2<br>1,559.6 | 117.33           | 55.7<br>58.8   | 29.1<br>30.7 | 0.608          | 28.8<br>30.4 | 0.792<br>0.806 | 45.6<br>48.9   | 1 094                      |
| 15<br>16  | 117.33<br>117.38 | 169.7<br>175.9   | 0.00<br>0.01   | 1.0<br>1,0   | 168.7<br>174.9   | -40.1            | 117.5<br>128.5 | 118.60<br>118.60 | 1,644.6              | -983.5<br>-937.4   | 0.0            | 128.5           | 1,563.6            | 117.45           | 64.3           | 33.7         | 0.653          | 33.3         | 0.831          | 55.2           | 1 325                      |
| 17<br>18  | 117.44           | . 175.3          | 0.01           | 1.0<br>1.0   | 174.3            | -32.2            | 142.7<br>126.0 | 118.60           | 1,644.6<br>1,644.6   | -905.9<br>-868.5   | 0.0<br>0.0     | 142.7<br>126.0  | 1,566.3            | 117.49<br>117.54 | 71.4<br>63.0   | 37.4<br>33.0 | 0.693<br>0.646 | 36.9<br>32.6 | 0.857<br>0.825 | 63.3<br>53.9   | 1,519                      |
| 19        | 117.55<br>117.60 | 162.3<br>241.5   | -0.01          | 1.0<br>1.0   | 161.3<br>240.5   | -48.4<br>-56.5   | 115.3<br>104.8 | 118.60<br>118.60 | 1,644.6              | -822.1<br>-686.1   | 0,0<br>0.0     | 115.3<br>104.8  | 1,573.6            | 117.59           | 57.7<br>104.8  | 30.3         | 0.619          | 29.9<br>54.2 | 0.802<br>0.925 | 48.0<br>50.1   | 1,152                      |
| 20<br>21  | 117.66           | 328.2            | 0.10           | 1.0          | 327.2            | 40.5             | 281.0          | 118.60           | 1,644.6              | -640.1             | 0.0            | 281.0<br>359.0  | 1,589.3<br>1,597.8 | 117.82<br>117.94 | 93.7<br>120.0  | 49.4<br>63.4 | 0.849<br>1.082 | 48.6<br>62.1 | 0.914<br>0.923 | 133.3<br>171.9 | 3 199<br>4 126             |
| 22<br>23  | 117.71<br>117.77 | 459.6<br>442.2   | 0.11           | 1.0<br>1.0   | 458.6<br>441.2   | 40.6<br>97.5     | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6              | -541.4<br>-460.5   | 0.0<br>0.0     | 360.0           | 1,604.8            | 118.04           | 120.0          | 63.5         | 1.084          | 62.2         | 0.923          | 172.3          | 4,135                      |
| 24<br>25  | 117.82<br>117.88 | 344.4<br>278.7   | 0.22           | 1.0          | 343.4<br>277.7   | 130.3            | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -477.2             | 0.0            | 360.0<br>360.0  | 1,603.4<br>1,596.3 | 118.02           | 120.0<br>120.0 | 63.5         | 1,084<br>1.084 | 62.3<br>62.2 | 0.923          | 172.4<br>172.2 | 4,138<br>4,133             |
| 26        | 117.93           | 241.5<br>225.5   | -0.01          | 1.0          | 240.5            | -57.0<br>-81.5   | 220.7<br>159.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -539.2<br>-473.9   | 0.0<br>- 0.0   | 220.7<br>159.0  | 1,598.0<br>1,603.7 | 117.94           | 73.6<br>79.5   | 38.9<br>42.1 | 0,710<br>0.749 | 38.4<br>41.5 | 0.867<br>0.885 | 99.8<br>73.4   | 2,395<br>1,762             |
| 27<br>28  | 117.99<br>118.04 | 225.5            | -0.03          | 1.0          | 224.5            | -65.3            | 159.2          | 118.60           | 1,644.6              | -408.1             | 0.0            | 159.2           | 1,609.3            | 118.10           | 79.6           | 42.2         | 0,751          | 41.6         | 0.886          | 73.7           | 1,769                      |
|           |                  | 244.6            |                | 1.0          |                  |                  |                |                  |                      |                    | 0.0            | 200.1           |                    | . :              |                |              |                |              |                |                | 61 261                     |
| Mar.<br>1 | 1982<br>118.10   | 455.9            | 0.00           | 1.6          | 454,3            | -122.8           | 101.7          | 118.60           | 1,644.6              | -56.0              | 0.0            | 101.7           | 1,639.8            | 118.53           | 101.7          | 54.1         | 0.921          | 53.2         | 0.924          | 49.2           | 1,181                      |
| 2         | 118.25<br>118.33 | 405.1<br>426.2   | 0.28<br>0.26   | 1.6<br>1.6   | 403.5<br>424.6   | 164.8<br>156.8   | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | -12.1<br>53.0      | 0.0<br>53.0    | 360.0<br>360.0  | 1,643.6            | 118.59<br>118.60 | 120.0<br>120.0 | 64.2<br>64.2 | 1.097          | 62.9<br>62.9 | 0.922<br>0.922 | 173.9<br>174.0 | 4,174<br>4,176             |
| 3<br>4    | 118.40           | 429.8            | 0.20           | 1.6          | 428.Z            | <b>99.2</b>      | 360.0          | 118.60           | 1,644,6              | 68.2               | 68.2           | 360.0<br>360.0  | 1,644.6            | 118.60<br>118.60 | 120.0<br>120.0 | 64.2<br>64.2 | 1.097          | 62.9<br>62.9 | 0.922<br>0.922 | 174.0<br>174.0 | 4,176<br>4,176             |
| 5.        | 118,48<br>118,55 | 368.0<br>257.8   | 0.12           | 1.6          | 366.4<br>256.2   | 41.4             | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | 6.4<br>-103.8      | 6.4<br>0.0     | 369,0           | 1,635,6            | 118.47           | 120.0          | 64.1         | 1.095          | 62.8         | 0.922          | 173.8          | 4 17                       |
| 7<br>8    | 118.60<br>158.69 | 292.4<br>282.5   | 0.13           | 1.6          | 299.8<br>280.9   | -107.4<br>41.4   | 145.8<br>332.2 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | 37.8               | 0.0            | 148.8<br>332.2  | 1,647.9            | 118.65           | 74.4<br>110.7  | 39.8<br>59.2 | 0,721<br>1.006 | 39.3<br>58.2 | 0.873<br>0.927 | 68.5<br>161.8  | 1,644                      |
| 9         | 118.60           | 299.7<br>368.0   | -0.02<br>0.02  | 1.6<br>1.6   | 298.1<br>366.4   | -16.5<br>16.6    | 264.4<br>314.7 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | 21.0<br>72.5       | 0.0<br>27.2    | 264.4<br>360.0  | 1,646.4            | 118.62<br>118.60 | 88.1<br>120.0  | 47.1<br>64.2 | 0.816          | 46.4<br>62.9 | 0.907<br>0.922 | 126.4<br>174.1 | 3 034<br>4 178             |
| 10<br>11  | 118.60<br>118.60 | 647.9            | 0.00           | 1.6          | 646.3            | 0.0              | 360.0          | 118.60           | 1,644.6              | 286.3              | 286.3<br>149.5 | 360.0<br>360.0  | 1,644.6            | 118.60           | 120.0<br>120.9 | 64.2<br>64.2 | 1.097          | 62.9<br>62.9 | 0.922<br>0.922 | 174.0<br>174.0 | 4,176<br>4,176             |
| 12        | 118.60<br>118.60 | 511.1<br>429.8   | 0.00<br>0.00   | 1.6<br>1.6   | 509.5<br>428.2   | 0.0              | 360.0<br>360.0 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | 149.5<br>68.2      | 68.2           | 360.0           | 1,644.6            | 118.60           | 120.0          | 64.2         | 1.097          | 62.9         | 0.922          | 174.0          | 4,176                      |
| 14<br>15  | 118.60<br>118.60 | 371.6<br>335.7   | 0.00           | 1.6<br>1.6   | 370.0<br>334.1   | 0.0<br>-116.1    | 360.0<br>253.9 | 118.60<br>118.60 | 1,644.6<br>1,644.6   | 10.0<br>-36.7      | 10.0<br>0.0    | 360.0<br>253.9  | 1,644.6<br>1,651.5 | 118.60<br>118.70 | 120.0<br>84.6  | 64.2<br>45.3 | 1.097          | 62.9<br>44.7 | 0.922<br>0.900 | 174.0<br>120.6 | 4,176<br>2,894             |
| 16        | 118.74           | 324.6            | -0.04          | 1.6<br>1.6   | 323.0<br>334.1   | -149.7<br>-133.5 | 184.4<br>189.5 | 118.74<br>118.88 | 1,654.7              | -14.2<br>13.8      | 0.0            | 184.4<br>189.5  | 1,663.5            | 118.86<br>119.04 | 92.2<br>94.8   | 49.5<br>51.1 | 0.851          | 48.7<br>50.2 | 0.914<br>0.918 | 89.1<br>92.2   | 2 138                      |
| 17<br>18  | 118.88<br>119.02 | 335.7<br>353.0   | 0.02           | 1.6          | 351.4            | -412.4           | 80.0           | 119.02           | 1,674.8              | 168.4              | 0.0            | 80.0            | 1,699.4            | 119.36           | 80.08          | 43.3         | 0.765          | 42.7         | 0.891          | 38.0           | 912                        |
| 19<br>20  | 119.53<br>119.60 | 559.8<br>586.0   | -0.17<br>-0.30 | 1.6<br>1.6   | 558.2<br>584.4   | -203.0<br>-321.5 | 148.4<br>236.7 | 119.16<br>119.30 | 1,684.9<br>1,695.1   | 459.6<br>237.7     | 248.0<br>114.4 | 360.0<br>360.0  | 1,695.1<br>1,704.6 | 119.30<br>119.43 | 120.0<br>120.0 | 65.1<br>65.1 | 1.114          | 63.8<br>63.8 | 0.920<br>0.920 | 176.0<br>176.1 | 4,224<br>4,226             |
| 21        | 119.68           | 525.2<br>447.2   | -0.25<br>-0.18 | 1.7          | 523.5<br>445.5   | -271.4<br>-221.1 |                | 119.43<br>119.57 | 1,704.6              | 92.4<br>23.9       | 45.4<br>0.0    | 360.0<br>302.4  | 1,714.8            | 119.57<br>119.74 | 120.0<br>100.8 | 65.3<br>55.0 | 1.118          | 64.0<br>54.1 | 0.919<br>0.925 | 176.3<br>150,0 | 4 231<br>3 600             |
| 22<br>23  | 119.75<br>119.83 | 400.1            | 0.09           | 1.7          | 398.4            | -136.4           | 309.1          | 119.71           | 1,725.1              | -5.6               | 0.0            | 309.1<br>278.8  | 1,734,9            | 119.84<br>119.96 | 103.0<br>92.9  | 56.3         | 0.957          | 55.3<br>50.1 | 0.926<br>0.918 | 153.8<br>138.0 | 3,691<br>3,312             |
| 24<br>25  | 119.90<br>119.98 | 376.6<br>376.6   | -0.06<br>-0.02 | $1.7 \\ 1.7$ | 374.9<br>374.9   | 119.6<br>•77.1   | 278.8<br>297.8 | 119.85<br>119.99 | 1,735,4<br>1,745,7   | 28.9<br>72.2       | 0.0<br>0.0     | 297.8           | 1,749.9            | 120,05           | 99.3           | 50.9<br>54.5 | 0.928          | 53,6         | 0.924          | 148.5          | 3,564                      |
| 26        | 120.05<br>120.13 | 356.8<br>459.6   | 0.00           | 1.7          | 355.1<br>457.9   | -68.7<br>-85.9   | 306.2<br>269.2 | 120.13<br>120.27 | 1,756.1              | -143.2             | 0.0            | 306.2<br>269.2  | 1,754.1            | 120.10<br>120.32 | 102.1<br>89.7  | 56.1<br>49.4 | 0.954<br>0.849 | 55.2<br>48.7 | 0.926<br>0.914 | 153.2<br>133.5 | 3,677<br>3,204             |
| 27<br>28  | 120.20           | 455.9            | 0.12           | : 1.7        | 454.2            | 34.5             | 360.0          | 120.41<br>120.55 | 1,777.0              | -102.6<br>463.0    | 0.0<br>463.0   | 360,0<br>360.0  | 1,776.5            | 120.43<br>120.69 | 120,0<br>120.0 | 66.3<br>66.5 | 1.137<br>1.141 | 65.0<br>65.2 | 0,917<br>0.916 | 178.7<br>179.1 | 4,289<br>4,298             |
| 29<br>30  | 120.28<br>120.35 | 1050.4<br>1129.8 | 0.15<br>0.34   | 1.7          | 1048,7<br>1128.1 | 69.2<br>225.6    | 360.0          | 120.69           | 1,798.0              | 646.6              | 646.6          | 360.0           | 1,808.5            | 120.83           | 120.0          | 66.7         | 1.145          | 65.4         | 0.916          | 179.7          | 4,313                      |
| 31        | 120.43           | 795.2<br>465.0   | 0.40           | 1.7<br>1.6   | 793.5            | 287.1            | 360.0          | 120.83           | 1,808.5              | 310.8              | 310.8<br>80,5  | 369.0<br>304.5  | 1,819.1            | 120.97           | 120.0          | 66.9         | 1.149          | 65.6         | 0.915          | 180.0          | 4,320<br>110,603           |
|           |                  | ,                |                |              |                  |                  |                |                  |                      |                    |                |                 |                    |                  |                |              | -              |              | 1.1            |                |                            |

#### Table 7.2.12 (2/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1988)

|   |   |   | ÷  |  |   |  | Tuf 1 .   |  |  |   |   |   |   |  |   |   |   |  |   |  |   |
|---|---|---|--|--|---|--|---|--|--|---|---|---|---|--|---|---|---|--|---|--|---|
|   |   | Inflow  |  | Evp.   | Inf.<br>Evp.  | Recv.<br>RC  | Inf.1+<br>Qt+<br>RC   | FSHI.  | PSHL.<br>Vol.  | Qsp<br>PSHL   | Spill   | ПР  | Rav.Vol   | RWL<br>At end  | Q   | Power   | 1.055   | Power  | Fata  | Power  | Energy  |
| A         1           1         2         3           4         5         6           7         8         9           10         12         13           11         12         13           14         19         16           15         20         21           22         22         22           26         25         26           27         28         30  | pr. 1992 (Urg.<br>120.50<br>120.68<br>120.77<br>120.86<br>120.95<br>120.95<br>120.95<br>120.95<br>120.95<br>120.95<br>120.95<br>121.04<br>121.13<br>121.22<br>121.31<br>121.20<br>121.49<br>121.58<br>121.55<br>121.85<br>121.55<br>121.85<br>121.55<br>122.24<br>122.15<br>122.24<br>122.24<br>122.25<br>122.24<br>122.25<br>122.24<br>122.25<br>122.24<br>122.25<br>122.26<br>122.25<br>122.26<br>122.25<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>122.26<br>1 | =3.3 m3/s)<br>632.9<br>592.1<br>564.8<br>560.0<br>514.8<br>503.0<br>560.0<br>675.1<br>664.0<br>647.9<br>686.3<br>686.3<br>686.3<br>728.3<br>716.0<br>728.3<br>716.0<br>728.3<br>715.7<br>641.6<br>597.1   | 0.47<br>0.42<br>0.47<br>0.52<br>0.67<br>0.62<br>0.67<br>0.62<br>0.87<br>0.82<br>0.87<br>0.92<br>0.87<br>0.92<br>0.87<br>1.06<br>1.25<br>1.30<br>1.25<br>1.30<br>1.45<br>1.54<br>1.54<br>1.54<br>1.54<br>1.54<br>1.74                         | 23<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>2                | Exp.<br>650.6<br>589.8<br>562.5<br>557.7<br>512.5<br>512.5<br>512.7<br>512.5<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>512.7<br>513.7<br>513.6<br>513.7<br>513.7<br>513.7<br>513.6<br>513.7<br>514.7<br>514.5<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>514.7<br>534.2<br>532.2<br>544.3<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548.8<br>548  | RC<br>253.3<br>258.9<br>333.6<br>378.5<br>423.7<br>469.0<br>540.5<br>560.5<br>605.6<br>659.5<br>746.3<br>784.2<br>831.5<br>870.0<br>917.7<br>965.6<br>1013.8<br>1159.7<br>1208.8<br>1159.7<br>1208.8<br>1258.1<br>1307.7<br>1208.8<br>1258.1<br>1308.1<br>1448.4<br>1498.4<br>1448.4<br>1498.6<br>1600.6             | 360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0<br>360.0  | 120.97<br>121.10<br>121.24<br>121.38<br>121.52<br>121.66<br>121.80<br>122.93<br>122.93<br>122.93<br>122.93<br>122.93<br>122.93<br>122.93<br>123.61<br>123.61<br>123.75<br>123.69<br>124.17<br>124.99<br>124.03<br>124.72<br>124.50<br>124.48<br>124.72<br>124.86<br>125.50   | Yol.<br>1,819,1<br>1,828,9<br>1,838,6<br>1,850,3<br>1,850,3<br>1,851,7<br>1,882,5<br>1,893,4<br>1,904,2<br>1,915,1<br>1,926,0<br>1,937,0<br>1,947,2<br>2,036,4<br>2,001,7<br>2,035,1<br>2,037,0<br>2,035,1<br>2,044,4<br>2,041,0<br>2,045,1<br>2,070,4<br>2,081,0<br>2,025,1<br>2,070,4<br>2,081,0<br>2,025,1<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,135,6<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127,0<br>2,127, | 177.2<br>105.0<br>78.7<br>73.9<br>28.7<br>71.5<br>175.3<br>175.5<br>159.3<br>196.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>238.6<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.7<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.8<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205.7<br>205. 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 | 1,828.9<br>1,839.6<br>1,850.3<br>1,861.0<br>1,871.7<br>1,882.5<br>1,893.4<br>1,915.1<br>1,926.0<br>1,947.2<br>1,958.2<br>2,002.7<br>2,013.9<br>2,025.1<br>2,036.4<br>2,037.4<br>2,037.4<br>2,039.1<br>2,070.4<br>2,039.1<br>2,070.4<br>2,039.5<br>2,103.9<br>2,135.6<br>2,133.6   | At cna<br>121.10<br>121.38<br>121.52<br>121.66<br>121.80<br>121.88<br>122.52<br>122.63<br>122.63<br>122.63<br>122.63<br>122.75<br>122.91<br>123.05<br>123.69<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>123.67<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>124.65<br>125.00<br>125.00<br>125.00 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| M<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>26<br>20<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31  | 123.88<br>123.94<br>123.99<br>124.04<br>124.10<br>124.15<br>124.20<br>124.26<br>124.26<br>124.21<br>124.36<br>124.42<br>124.47<br>124.52<br>124.53<br>124.63<br>124.63<br>124.79<br>124.84<br>124.79  | 602.0<br>554.9<br>520.3<br>494.3<br>468.2<br>447.2<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>433.6<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>364.0<br>371.6<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>374.0<br>377.0<br>377.0<br>377.0<br>377.0<br>377.0<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1<br>377.1 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| 124,35<br>124,29<br>124,23<br>124,17<br>124,11<br>124,05<br>123,99<br>123,99<br>123,99<br>123,81<br>123,55<br>123,69<br>123,69<br>123,63<br>123,58<br>123,55<br>123,69<br>123,52<br>123,46<br>123,40<br>123,40  | 344.4<br>320.9<br>296.1<br>282.5<br>265.1<br>250.2<br>236.0<br>225.5<br>213.7<br>216.8<br>213.7<br>222.9<br>236.0<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8<br>232.8 | 0.00<br>0.09<br>0.09<br>0.11<br>0.11<br>0.11<br>0.07<br>0.03<br>0.07<br>0.02<br>0.01<br>0.02<br>0.01<br>0.00<br>0.01<br>0.00<br>0.01<br>0.01   | 4.7<br>4.7<br>4.7<br>4.7<br>4.6<br>4.6<br>4.6<br>4.6<br>4.6                                    | 339.7<br>3162<br>302.5<br>291.4<br>260.4<br>245.5<br>220.8<br>220.9<br>212.2<br>209.1<br>218.2<br>231.4<br>218.2<br>231.4<br>228.2<br>231.4<br>228.2<br>231.4<br>228.2<br>231.4<br>228.2<br>231.5<br>255.5<br>272.9<br>260.5<br>272.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>260.5<br>275.9<br>275.9<br>260.5<br>275.9<br>275.9<br>275.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>207.9<br>2 | 114.9<br>143.5<br>162.5<br>162.3<br>152.5<br>123.7<br>76.0<br>47.4<br>37.9<br>47.4<br>37.9<br>47.4<br>37.9<br>47.4<br>56.6<br>56.6<br>56.6<br>55.8<br>65.9<br>65.8<br>65.9<br>46.9<br>46.8<br>46.8<br>46.8<br>46.8<br>46.9<br>46.3<br>37.2<br>46.5<br>37.2<br>46.3<br>37.2<br>46.2<br>46.1<br>110.5                  | 360.0<br>360.0<br>360.0<br>350.0<br>336.4<br>283.4<br>283.4<br>283.4<br>285.4<br>294.0<br>297.1<br>251.6<br>281.3<br>360.0<br>297.1<br>251.6<br>281.3<br>360.0<br>338.1<br>312.6<br>2903.2<br>2903.2<br>293.2<br>255.7<br>255.8<br>255.4<br>315.4   | 125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00<br>125.00 | 2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6<br>2,138.6   | -1083.7<br>-1119.0<br>-1140.0<br>-1227.1<br>-1298.9<br>-1358.1<br>-1401.1<br>-1456.7<br>-1531.1<br>-1572.8<br>-1627.1<br>-1675.8  | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0  | 360.0<br>360.0<br>360.0<br>360.0<br>3364.0<br>3364.0<br>238.4<br>278.7<br>258.6<br>2283.4<br>298.0<br>297.1<br>267.7<br>251.6<br>281.3<br>360.0<br>297.1<br>251.6<br>281.3<br>338.1<br>312.6<br>293.2<br>293.2<br>293.2<br>293.2<br>293.2<br>255.8<br>255.4<br>255.8<br>255.4<br>315.4<br>315.4<br>301.1  | 2,136.5<br>2,132.7<br>2,121.7<br>2,121.8<br>2,093.7<br>2,088.7<br>2,088.7<br>2,088.4<br>2,071.3<br>2,066.5<br>2,061.1<br>2,055.4<br>2,055.4<br>2,055.4<br>2,055.4<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,032.6<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,035.4<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040.1<br>2,040. | 124.97<br>124.93<br>124.87<br>124.87<br>124.87<br>124.61<br>124.51<br>124.46<br>124.39<br>124.39<br>124.39<br>124.42<br>124.23<br>124.12<br>124.06<br>123.92<br>123.86<br>123.92<br>123.86<br>123.50<br>123.50<br>123.51<br>123.56<br>123.51<br>123.51<br>123.51<br>123.22<br>123.22<br>123.22<br>123.09   | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>122.1<br>94.5<br>92.9<br>86.2<br>85.4<br>88.6<br>94.7<br>98.0<br>91.7<br>88.2<br>85.4<br>89.6<br>91.7<br>104.2<br>96.8<br>120.0<br>91.7<br>104.2<br>96.8<br>120.0<br>91.7<br>104.2<br>96.8<br>120.0<br>91.7<br>104.2<br>97.7<br>97.9<br>85.6<br>87.2<br>84.5<br>105.1   | 71.7<br>71.6<br>71.5<br>71.5<br>71.4<br>71.3<br>665<br>55.0<br>55.0<br>55.0<br>55.0<br>55.0<br>55.0<br>55.0   | 1.245<br>1.243<br>1.243<br>1.243<br>1.239<br>1.239<br>1.237<br>1.141<br>0.952<br>0.952<br>0.954<br>0.949<br>0.949<br>0.948<br>0.949<br>0.948<br>0.949<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.948<br>0.846<br>0.948<br>0.846<br>0.948<br>0.846<br>0.948<br>0.846<br>0.948<br>0.846<br>0.848<br>0.848<br>0.848<br>0.948<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.849<br>0.848<br>0.848<br>0.849<br>0.848<br>0.849<br>0.848<br>0.849<br>0.848<br>0.849<br>0.848<br>0.849<br>0.848<br>0.849<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.848<br>0.849<br>0.848<br>0.849<br>0.848<br>0.849<br>0.846<br>0.849<br>0.846<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.849<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845<br>0.845 | 70.3<br>70.2<br>70.2<br>70.1<br>70.1<br>70.1<br>70.2<br>70.1<br>70.2<br>70.2<br>70.2<br>70.2<br>70.2<br>70.2<br>70.2<br>70.2   | 0.899<br>0.899<br>0.900<br>0.910<br>0.926<br>0.926<br>0.925<br>0.928<br>0.925<br>0.928<br>0.926<br>0.927<br>0.922<br>0.921<br>0.922<br>0.921<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.927<br>0.921<br>0.921<br>0.921<br>0.921<br>0.926<br>0.926<br>0.926<br>0.927<br>0.921<br>0.921<br>0.926<br>0.926<br>0.926<br>0.926<br>0.927<br>0.921<br>0.926<br>0.926<br>0.927<br>0.926<br>0.927<br>0.926<br>0.927<br>0.926<br>0.927<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.927<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926<br>0.926 | 189.5<br>189.4<br>189.2<br>189.2<br>189.2<br>189.0<br>188.7<br>179.4<br>150.1<br>150.3<br>188.4<br>150.3<br>188.4<br>150.7<br>157.9<br>159.3<br>147.1<br>142.5<br>133.0<br>150.1<br>150.1<br>150.1<br>155.7<br>155.8<br>134.7<br>157.5<br>132.4<br>166.3 | 4,548<br>4,546<br>4,541<br>4,536<br>4,529<br>4,306<br>3,677<br>3,222<br>3,286<br>3,461<br>3,461<br>3,463<br>3,665<br>3,790<br>3,823<br>3,530<br>3,420<br>3,192<br>3,602<br>4,486<br>4,272<br>3,696<br>3,703<br>3,737<br>3,739<br>3,233<br>3,300<br>3,178<br>3,300<br>3,178<br>3,391<br>114,957  |
|   |   |   |  |  |   |  |   |  | С-   | 113   |   |   |   |  |   |   |   |  |   |  |   |

#### Table 7.2.12 (3/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1988)

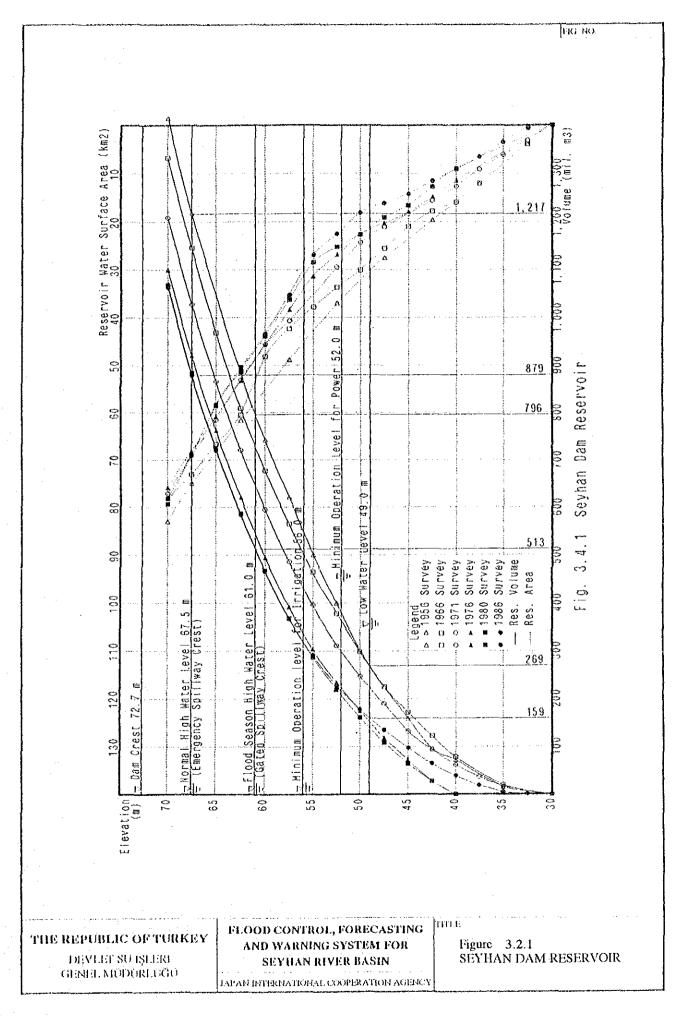
|  | Rule<br>At beg.   | RWL-RC<br>Inflow Evp.   | lnf<br>Evp.   | Recv.  | Inf.1+<br>Qt+<br>RC   | FS111.   | FSUL<br>Vol.  | Qsp<br>PSHL  | Spill  | 911  | Rsv.Vol   | RWL<br>At end  | Q   | Power  | 1.055   | Power  | ina P  | ower  | Energy  |
|--|---|---|---|--|---|--|---|--|--|--|---|--|---|--|---|--|--|---|---|
| Jul. 1:<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>14<br>15<br>16<br>16<br>16<br>16<br>17<br>18<br>19<br>20<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21 | 982 (frris.<br>123.10<br>123.07<br>123.05<br>123.04<br>123.01<br>122.99<br>122.98<br>122.96<br>122.94<br>122.93<br>122.91<br>122.53<br>122.93<br>122.91<br>122.53<br>122.82<br>122.83<br>122.83<br>122.83<br>122.82<br>122.83<br>122.83<br>122.83<br>122.83<br>122.83<br>122.83<br>122.83<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.76<br>122.74<br>122.76<br>122.74<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.77<br>122.76<br>122.76<br>122.77<br>122.76<br>122.77<br>122.76<br>122.77<br>122.76<br>122.76<br>122.77<br>122.76<br>122.77<br>122.76<br>122.77<br>122.76<br>122.77<br>122.76<br>122.77<br>122.76<br>122.77<br>122.76<br>122.77<br>122.76<br>122.76<br>122.77<br>122.76<br>122.76<br>122.77<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.76<br>122.65<br>122.65<br>122.65   | $\begin{array}{cccc} 70.9 \ m 3/8 \\ \hline 197.0 & -0.01 & 5.1 \\ 197.0 & -0.01 & 5.1 \\ 197.0 & -0.01 & 5.1 \\ 197.0 & -0.00 & 5.1 \\ 192.0 & -0.00 & 5.1 \\ 184.5 & -0.00 & 5.1 \\ 184.5 & -0.00 & 5.1 \\ 158.6 & -0.01 & 5.1 \\ 158.6 & -0.01 & 5.1 \\ 158.6 & -0.01 & 5.1 \\ 158.6 & -0.01 & 5.1 \\ 158.6 & -0.00 & 5.1 \\ 158.6 & -0.00 & 5.1 \\ 158.6 & -0.00 & 5.1 \\ 158.6 & -0.00 & 5.1 \\ 158.6 & -0.00 & 5.1 \\ 158.6 & -0.00 & 5.1 \\ 158.6 & -0.00 & 5.1 \\ 158.6 & -0.00 & 5.1 \\ 158.6 & -0.00 & 5.0 \\ 156.0 & -0.00 & 5.0 \\ 147.4 & -0.01 & 5.0 \\ 143.7 & -0.00 & 5.0 \\ 147.4 & -0.01 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 142.5 & -0.00 & 5.0 \\ 138.2 & -0.06 & 5$ | 191.9<br>191.9<br>186.9<br>175.4<br>175.4<br>163.4<br>157.2<br>154.7<br>153.5<br>153.6<br>151.0<br>144.3<br>144.3<br>153.5<br>153.6<br>151.6<br>148.6<br>144.9<br>142.4<br>138.7<br>137.5<br>137.5<br>137.5<br>137.5<br>137.5<br>137.5<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>135.0<br>137.5<br>135.0<br>137.5<br>135.0<br>135.0<br>137.5<br>135.0<br>135.0<br>137.5<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0<br>135.0  | 18.4<br>9.2<br>18.4<br>0.0<br>18.4<br>9.2<br>9.2<br>9.2<br>9.2<br>9.2<br>9.2<br>9.2<br>9.2<br>9.2<br>9.2   | 201.1<br>201.1<br>205.3<br>179.4<br>194.2<br>154.2<br>175.5<br>163.9<br>162.7<br>169.2<br>144.3<br>162.6<br>171.8<br>171.9<br>169.3<br>157.7<br>154.0<br>151.5<br>157.0<br>151.5<br>157.0<br>151.5<br>157.0   | 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| -1827.5<br>-1841.7<br>-1867.3<br>-1870.5<br>-1901.2<br>-1898.6<br>-1918.9<br>-1929.4<br>-1929.4<br>-1929.4<br>-1929.4<br>-1929.4<br>-1929.4<br>-1929.4<br>-1929.4<br>-1929.4<br>-1929.4<br>-1935.5<br>-2015.1<br>-2035.7<br>-2048.7<br>-2060.2<br>-2073.0<br>-2092.4<br>-2096.3<br>-2113.2<br>-2123.6<br>-2132.6<br>-2132.6<br>-2132.6<br>-2132.6<br>-2132.7<br>-2167.2<br>-2167.2 | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 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| Aug.<br>1 2<br>3 4<br>5 6<br>7 8<br>9 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31   | 1992 (Inig<br>122.60<br>122.57<br>122.57<br>122.55<br>122.55<br>122.51<br>122.50<br>122.49<br>122.48<br>122.46<br>122.45<br>122.45<br>122.44<br>122.43<br>122.41<br>122.40<br>122.39<br>122.38<br>122.31<br>122.31<br>122.31<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.33<br>122.33<br>122.33<br>122.34<br>122.33<br>122.34<br>122.35<br>122.34<br>122.35<br>122.34<br>122.35<br>122.35<br>122.34<br>122.35<br>122.35<br>122.34<br>122.35<br>122.35<br>122.34<br>122.35<br>122.35<br>122.34<br>122.35<br>122.35<br>122.34<br>122.35<br>122.35<br>122.34<br>122.35<br>122.34<br>122.35<br>122.34<br>122.35<br>122.34<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.32<br>122.33<br>122.33<br>122.33<br>122.33<br>122.34<br>122.35<br>122.34<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.35<br>122.3 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|   | 2285.6<br>-2282.3<br>-2282.3<br>-2360.6<br>-2311.2<br>-2320.4<br>-2329.7<br>-2320.4<br>-2350.5<br>-2370.1<br>-2381.9<br>-2430.5<br>-2410.7<br>-2420.0<br>-2429.2<br>-2440.2<br>-2459.2<br>-2459.2<br>-2459.2<br>-2459.2<br>-2459.2<br>-2459.2<br>-2557.1<br>-2555.6<br>-2555.6   | 6.0<br>5.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0          | 151.4<br>1488.6<br>128.0<br>14028<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>139.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>128.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>120.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5<br>129.5 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  | 75.7<br>74.3<br>74.9<br>70.4<br>60.8<br>60.8<br>60.8<br>60.7<br>66.7<br>66.7<br>66.7<br>66.0<br>70.5<br>64.8<br>64.2<br>68.7<br>63.3<br>63.3<br>63.3<br>63.4<br>64.2<br>65.2<br>65.3<br>63.4<br>64.2<br>65.2<br>65.3<br>63.4<br>64.2<br>64.2<br>65.2<br>65.3<br>65.4<br>64.2<br>65.2<br>65.2<br>65.2<br>65.2<br>65.2<br>65.2<br>65.2<br>65  | 43.5<br>42.6<br>36.7<br>43.0<br>40.0<br>40.0<br>40.0<br>39.3<br>38.2<br>37.8<br>37.8<br>37.8<br>37.8<br>37.8<br>37.8<br>37.8<br>37.8                       | 0,767<br>(0,756<br>0,685<br>0,761<br>0,723<br>0,723<br>0,723<br>0,723<br>0,723<br>0,726<br>0,716<br>0,716<br>0,716<br>0,697<br>0,697<br>0,697<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,699<br>0,659<br>0,659<br>0,659<br>0,659<br>0,659<br>0,659<br>0,659<br>0,659<br>0,659<br>0,659<br>0,657<br>0,659<br>0,657<br>0,659<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657<br>0,657  | 42.9<br>42.1<br>36.3<br>39.5<br>39.5<br>39.5<br>39.5<br>39.5<br>39.5<br>39.5<br>37.3<br>37.3<br>37.3<br>37.3<br>37.3<br>37.3<br>37.3<br>37   | 0.892<br>0.858<br>0.853<br>0.876<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.863<br>0.863<br>0.863<br>0.866<br>0.855<br>0.855<br>0.855<br>0.849<br>0.849<br>0.849<br>0.849<br>0.849<br>0.849<br>0.849<br>0.849<br>0.849<br>0.849  | 76.5<br>74.8<br>69.1<br>69.1<br>69.0<br>69.0<br>67.5<br>73.1<br>66.6<br>65.1<br>65.1<br>64.2<br>64.2<br>64.2<br>64.2<br>64.2<br>64.2<br>64.2<br>64.2  | 1,836<br>1,795<br>1,486<br>1,812<br>1,675<br>1,656<br>1,656<br>1,656<br>1,562<br>1,562<br>1,562<br>1,541<br>1,541<br>1,541<br>1,541<br>1,541<br>1,541<br>1,541<br>1,542<br>1,502<br>1,435<br>1,572<br>1,435<br>1,435<br>1,387<br>1,435<br>1,387<br>1,435  |
| Sep. 1<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>24<br>25<br>26<br>20<br>20<br>21<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20               |   | =29.3 m3/t)           116.0         0.00         3.6           116.0         0.00         3.6           116.0         0.00         3.6           116.0         0.00         3.6           116.0         0.00         3.6           117.5         0.00         3.6           117.5         0.00         3.6           117.5         0.00         3.6           117.5         0.00         3.6           117.5         0.00         3.6           131.3         -0.06         3.6           122.4         0.00         3.6           131.3         -0.06         3.6           127.5         0.00         3.6           127.5         0.00         3.6           137.7         -0.01         3.6           137.7         0.00         3.6           137.7         0.00         3.6           137.7         0.00         3.6           137.7         0.00         3.6           137.7         0.01         3.6           137.7         0.02         3.6           137.7         0.03         3.5           117.5   | 112.4<br>112.4<br>112.4<br>112.4<br>113.9<br>113.9<br>113.9<br>113.9<br>113.9<br>125.3<br>129.0<br>127.7<br>125.3<br>129.0<br>127.7<br>125.3<br>129.0<br>127.7<br>125.3<br>129.0<br>127.7<br>125.3<br>117.2<br>110.4<br>109.1<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.7<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>107.6<br>100.6<br>100.6<br>100.6<br>100.6<br>100.6 | 27.0<br>27.0<br>27.0<br>27.0<br>26.9<br>26.9<br>26.9<br>26.9<br>26.9<br>35.8<br>89.6<br>26.8<br>26.8<br>26.8<br>26.8<br>26.8<br>26.8<br>26.8<br>26 | 139.4<br>139.4<br>139.4<br>130.4<br>140.8<br>140.8<br>140.8<br>140.8<br>154.6<br>273.1<br>102.2<br>154.5<br>152.1<br>141.8<br>139.3<br>147.1<br>143.9   | 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122,14<br>122,11<br>122,08<br>122,03<br>122,03<br>121,95<br>121,95<br>121,98<br>121,82<br>121,83<br>121,83<br>121,83<br>121,83<br>121,76<br>121,76<br>121,76<br>121,76<br>121,76<br>121,76<br>121,76<br>121,63<br>121,63<br>121,63<br>121,53<br>121,53<br>121,53<br>121,54<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>121,55<br>12 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82.8<br>(9,7<br>(9,7)<br>(67,7)<br>(67,7)<br>(70,4)<br>(70,4)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7)<br>(71,7) | 47.2<br>39.7<br>39.7<br>39.7<br>37.1<br>40.0<br>40.0<br>40.0<br>51.6<br>52.0<br>39.4<br>40.0<br>40.8<br>40.0<br>40.8<br>40.0<br>40.0<br>40.0<br>40         | 0.818<br>0.720<br>0.720<br>0.720<br>0.723<br>0.723<br>0.723<br>0.723<br>0.723<br>0.723<br>0.723<br>0.723<br>0.723<br>0.723<br>0.723<br>0.723<br>0.724<br>0.743<br>0.743<br>0.743<br>0.760<br>0.659<br>0.659<br>0.659<br>0.652<br>0.655<br>0.727<br>0.655<br>0.727<br>0.655<br>0.727<br>0.765<br>0.727<br>0.765<br>0.727<br>0.765<br>0.727<br>0.765<br>0.727<br>0.765<br>0.727<br>0.765<br>0.727<br>0.745<br>0.745<br>0.745<br>0.745<br>0.745<br>0.745<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.725<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727<br>0.727 | 46.5<br>39.2<br>39.2<br>39.5<br>39.5<br>39.5<br>39.5<br>39.5<br>39.5<br>39.5<br>39.5   | 0.907<br>6.872<br>0.872<br>0.855<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.874<br>0.875<br>0.875<br>0.864<br>0.864<br>0.8664<br>0.8664<br>0.8664<br>0.8664<br>0.8664<br>0.8664<br>0.8664<br>0.876<br>0.876<br>0.875<br>0.876<br>0.875<br>0.876<br>0.875<br>0.876<br>0.875<br>0.876<br>0.876<br>0.875<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.866<br>0.876<br>0.876<br>0.876<br>0.876<br>0.866<br>0.876<br>0.876<br>0.876<br>0.866<br>0.866<br>0.866<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.866<br>0.866<br>0.876<br>0.876<br>0.876<br>0.876<br>0.866<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0.876<br>0. | 84.4<br>48.4<br>63.3<br>62.7<br>69.1<br>69.0<br>77.5<br>140.4<br>453.3<br>77.2<br>75.7<br>69.4<br>67.8<br>70.5<br>63.0<br>66.1<br>65.4<br>64.5<br>64.4<br>57.9<br>9.9<br>70.0<br>66.7<br>81.8<br>65.7<br>70.0<br>62.5<br>67.9<br>67.9<br>67.0 | 2,026<br>1,642<br>1,639<br>1,639<br>1,505<br>1,558<br>1,658<br>1,656<br>1,860<br>3,370<br>1,987<br>1,853<br>1,817<br>1,665<br>1,667<br>1,740<br>1,692<br>1,512<br>1,548<br>1,546<br>1,548<br>1,546<br>1,548<br>1,546<br>1,549<br>1,653<br>1,663<br>1,663<br>1,603<br>1,608                            |

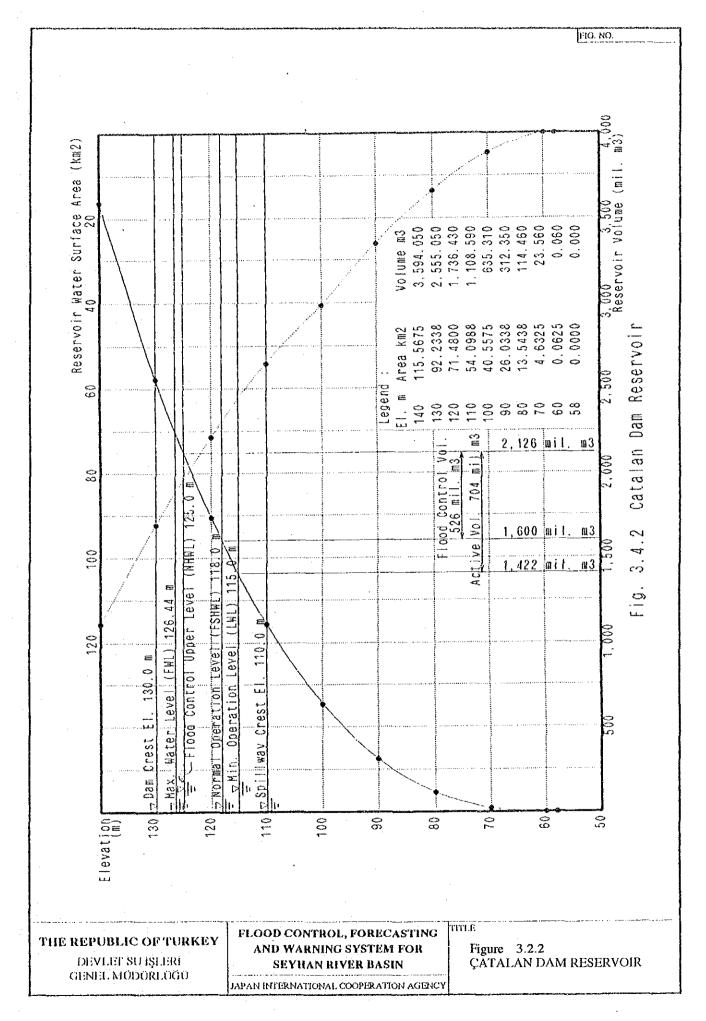
#### Table 7.2.12 (4/4)Çatalan Dam Daily Reservoir Operation<br/>(Without System, Flow in 1988)

| c        | Rule<br>At beg.  | R<br>Inflow    | VL-RC         | Evp.       | Inf<br>Evp.      | Recv.<br>RC    | Inf.1+<br>Qt+<br>RC | FS111.           | FSHL<br>Vol        | Qsp<br>FSHL        | Spill       | 411            | Rav,Vol            | RWI.<br>At end   | Q              | Power        | الما ا         | Power         | Eata           | Power          | livergy        |
|----------|------------------|----------------|---------------|------------|------------------|----------------|---------------------|------------------|--------------------|--------------------|-------------|----------------|--------------------|------------------|----------------|--------------|----------------|---------------|----------------|----------------|----------------|
| Oct. 1   | 982 (Irrig       | .≈6.3 m3,      | 5)            |            |                  | -              |                     |                  |                    |                    |             |                |                    |                  |                |              |                |               |                |                |                |
| 1        | 121.30           | 116.0          | 0.00          |            | 113.6            | 79.4           | 191.9               | 125.00           | 2,138.6            |                    | 0.0         | 191.9          | 1,837.5            | 121.21           | 96.0           | 53.9         | 0.918          | 53.0          | 0.924          | 97.9           | 2,350          |
| 2        | 121.21<br>121.17 | 116.0          | 0.00<br>0.00  | 2.4<br>2.4 | 113.6<br>113.6   | 35.2<br>35.2   | 148.8<br>148.8      | 124.86<br>124.72 | 2,127.0<br>2,115.5 | -3252.8<br>-3144.0 | 0.0<br>0.0  | 148.8<br>148.6 | 1,834.5<br>1,831.5 | 121.17<br>121.13 | 74.4<br>74,4   | 41.7<br>41.7 | 0.744<br>0.744 | 41.2<br>41.1  | 0.884<br>0.883 | 72.8<br>72.6   | 1,747          |
| 4        | 121.13           | 116.0          | 0.00          |            | 113.6            | 44.0           | 157.6               | 124.57           | 2,103.1            | -3054,4            | 0.0         | 157.6          | 1,827.7            | 121.08           | 78,8           | 44.1         | 0.775          | 43.5          | 0.895          | 77.9           | 1,870          |
| 5        | 121.08           | 116.0          | 0.00          | 2.4        | 113.6            | 35.1           | 48.7                | [24.43           | 2,091.6            |                    | 0.0         | 148.7          | 1,824.7            | 121.04           | 74,4           | 41.6         | 0.743          | 41.1          | 0.883          | 72.5           | 1,748          |
| 6        | 121.04<br>120.99 | 116.0<br>116.0 | 0.00<br>0.00  | 2.4<br>2.4 | 113.6<br>113.6   | 43.9<br>35.1   | 157.5<br>148.7      | 124.29<br>124.15 | 2,080.2<br>2,068.8 | -2869.1<br>-2763.1 | 0.0<br>0.0  | 157.5<br>148.7 | 1,820.9<br>1,817.9 | 120.99<br>120.95 | 78,8<br>74,4   | 44.0<br>41.5 | 0.774<br>0.742 | 43.4<br>41.0  | 0.894<br>0.882 | 77.6<br>72.3   | 1,862<br>1,735 |
| 8        | 120.95           | 116.0          | 0.00          | 2.4        | 113.6            | 35.0           | 148.6               | 124.00           | 2,056.6            | -2666.9            | 0.0         | 148.6          | 1,814.9            | 120.91           | 74.3           | 41.5         | 0.742          | 40.9          | 0.882          | 72.2           | 1,733          |
| 9        | 120.91           | 116.0          | 0.00          | 2.4        | 113.6            | 43.7           | 157.3               | 123.86           | 2,045.3            | -2579.6            | 0.0         | 157,3          | 1,811.1            | 120.86           | 78.7           | 43.9         | 0.773          | 43.3          | 0.894          | 77.3           | 1,855          |
| 10<br>11 | 120.86<br>120.82 | 128.9<br>131.3 | 0.00<br>0.02  | 2.4<br>2.4 | 126.5<br>128.9   | 34.9<br>52.4   | 148.5<br>178.9      | 123.72<br>123.58 | 2,034.0<br>2,022.7 | -2471.1<br>-2391.4 | 0.0<br>0.0  | 148.5<br>178.9 | 1,809.2<br>1,804.9 | 120.84<br>120.78 | 74.3<br>89.5   | 41.4<br>49.8 | 0.741<br>0.855 | 40,9<br>49,1  | 0.882<br>0.915 | 72.0<br>89.8   | 1,728<br>2,155 |
| 12       | 120.78           | 132.6          | 0.00          | 2.4        | 130.2            | 43.6           | 172.5               | 123.44           | 2,011.5            | -2294.6            | 0.0         | 172.5          | 1,801.2            | 120.73           | 86.3           | 48.0         | 0.829          | 47.3          | 0.910          | 86.0           | 2,064          |
| 13       | 120.73           | 125.1          | 0.00          | 2.4        | 122.7            | 34.8           | 165.0               | 123.29           | 1,999.5            | -2207.8            | 0.0         | 165.0          | 1,797.5            | 120.68           | 82.5           | 45.8         | 0.798          | 45.2          | 0.902          | 81.5<br>77.1   | 1,956          |
| 14<br>15 | 120.69<br>120.64 | 129.0<br>120.8 | -0,01<br>0,01 | 2.4<br>2.4 | 126.6<br>118.4   | 34.8<br>43.5   | 357.5<br>170.1      | 123.15<br>123.01 | 1,988.3            | -2110.8<br>-2034.3 | 0.0<br>0,0  | 157.5<br>170.1 | 1,794.8<br>1,790.3 | 120.65<br>120.59 | 78,8<br>85.1   | 43.8<br>47.2 | 0.771<br>0.818 | 43.2<br>46.5  | 0,894<br>0,907 | 84.4           | 1,850<br>2,026 |
| 16       | 120.60           | 122.4          | -0.01         | 2.4        | 120.0            | 26.0           | 144.4               | 122.87           | 1,966.1            | -1922.5            | 0.0         | 144.4          | 1,788.2            | 120.56           | 72.2           | 40.0         | 0.723          | 39.5          | 0.874          | 69.1           | 1,658          |
| 17<br>18 | 120.56<br>120.51 | 123.9<br>142.5 | 0.00          | 2.4<br>2.4 | 121.5<br>140.1   | 43.4<br>34.7   | 163.4<br>156.2      | 122.72<br>122.58 | 1,954.3<br>1,943.3 | -1837.0<br>-1725.6 | 0.0<br>0.0  | 163.4<br>156.2 | 1,784.6            | 120.51<br>120.49 | 81.7<br>78.1   | 45.3<br>43.2 | 0.791<br>0.764 | 44.6<br>42.7  | 0,900<br>0.891 | 80.3<br>76.0   | 1,927<br>1,824 |
| 19       | 120.47           | 156.0          | 0.02          | 2.4        | 153.6            | 51.9           | 192.0               | 122.44           | 1,932.3            | -1636.8            | 0.0         | 192.0          | 1,779.9            | 120.45           | 96,0           | 53.1         | 0.906          | 52.3          | 0.922          | 96.4           | 2,314          |
| 20       | 120.43           | 138.8          | 0.02          | 2.4        | 136.4            | 60.5           | 214.1               | 122.30           | 1,921.3            | -1588.1            | 0.0         | 214.1          | 1,773.2            | 120.36           | 71.4           | 39.5         | 0.717          | 39.0          | 0.871          | 101.8          | 2,443          |
| 21<br>22 | 120.38<br>120.34 | 135.0<br>128.9 | -0.02<br>0.00 | 2.4<br>2.3 | 132.6<br>126.6   | .17.3<br>.43.1 | 153.7<br>175.7      | 122.16           | 1,910.4<br>1,898.8 | -1474.8            | 0.0         | 153.7<br>175.7 | 1,771.4            | 120.34<br>120.28 | 76.9<br>87.9   | 42.5<br>48.5 | 0.755<br>0.835 | 41.9<br>47.8  | 0.887          | 74.3<br>87.1   | 1,783<br>2,090 |
| 23       | 120.29           | 125.1          | -0.01         | 2.3        | 123.0            | 25.9           | 152.5               | 121.87           | 1,887.9            | -1301.7            | 0.0         | 152.5          | 1,764.6            | 120.24           | 76.3           | 42.1         | 0,749          | 41.5          | 0,885          | 73.4           | 1,762          |
| 24       | 120.25           | 120.8          | -0.01         |            | 118.5            | 25.8           | 148.6               | 121.73           | 1,877.1            | -1203.3            | 0.0         | 148.6          | 1,762.0            | 120.21           | 74.3           | 40.9         | 0.734          | 40.4          | 0.879          | 71.0           | 1,704          |
| 25<br>26 | 120.21<br>120.16 | 119.2<br>122.4 | 0.00<br>0.00  | 2.3<br>2.3 | 116.9<br>120.1   | 43.0<br>34.4   | 161.5<br>151.3      | 121.59<br>121.44 | 1,866.4            | -1119.8<br>-1027.7 | 0.0<br>0.0  | 161.5<br>151.3 | 1,758.1<br>1,755.4 | 120.16<br>120.12 | 80.8<br>75.7   | 44.5<br>41.6 | 0.781<br>0.743 | 43.9<br>41.1  | 0,897<br>0,883 | 78.7<br>72.5   | 1,889<br>1,740 |
| 27       | 120.10           | 123.9          | 0.00          | 2.3        | 121.6            | 34.3           | 154.4               | 121.30           | 1,844.2            | -936.7             | 0.0         | 154.4          | 1,752.6            | 120.08           | 77.2           | 42.4         | 0.753          | 41.9          | 0,887          | 74.3           | 1,783          |
| 28       | 120.08           | 127.5          | 0.00          |            | 125.2            | 42.9           | 164.5<br>168.0      | 121.16           | 1,833.5            | -853,0             | 0.0<br>0.0  | 164.5<br>178 B | 1,749.2<br>1,759.3 | 120.04<br>120.17 | 82.3           | 45.2<br>46.2 | 0,790<br>0,804 | 44.6<br>45.5  | 0.900<br>0.903 | 80.2           | 1,925<br>1,973 |
| 29<br>30 | 120.03<br>119.99 | 287,4<br>133.9 | 0.01<br>0.18  | 2.3<br>2.3 | 285.1<br>131.6   | 42.8           | 168.0               | 121.02<br>120.88 | 1,822.9<br>1,812.3 | 613.2<br>711.0     | 0.0         | 168.0<br>360.0 | 1,739.6            | 119.91           | 84.0<br>120.0  | 46.2         | 1.129          | 45.5<br>64.6  | 0.918          | 82.2<br>177.8  | 4,267          |
| 31       | 119.94           | 153.6          | -0.03         | 2.3        | 151.3            | 8.5            | 140.1               | 120.73           | 1 801.0            | 576.8              | 0.6         | 140.1          | 1,740.6            | 119.92           | 70.1           | 38.4         | 0.704          | 37.9          | Ú 864          | 65.5           | 1,572          |
|          |                  | 131.4          |               | 2.4        |                  |                |                     |                  |                    |                    | 0,0         | 167.8          |                    |                  |                |              |                |               |                |                | 61,067         |
| Nov.     | 1982             |                | . '           | -          |                  |                |                     |                  |                    |                    |             |                |                    |                  |                |              |                |               |                |                |                |
| 1        | 119.90           | 143.7          | 0.02          |            | 142.4            | 119.5          | 270.8               | 120.59           | 1,790.4            | -584.4             | 0.0         | 270.8          | 1,729.5            | 119.77<br>119.74 | 90.3           | 49,4         | 0.849          | 48.7<br>47.5  | 0.914          | 133.4          | 3,202          |
| 23       | 119.78<br>119.73 | 153.6<br>184.5 | -0.01<br>0.01 | 1.3<br>1.3 | 152.3<br>183.2   | 34.1<br>59.5   | 176.5<br>211.8      | 120.45<br>120.31 | 1,780.0<br>1,769.5 | -487.2<br>-386.2   | 0.0<br>0,0  | 176.5          | 1,727.4<br>1,724.9 | 119.74           | 88.3<br>70.6   | 48.2<br>38.6 | 0.832<br>0.707 | 38.1          | 0.911<br>0.865 | 86.5<br>98.8   | 2,076<br>2,371 |
| 4        | 119.67           | 173.4          | 0.04          | 1.3        | 172.1            | 84.9           | 268.1               | 120.16           | 1,758.3            | 363.4              | 0.0         | 268.1          | 1,716.6            | 119.59           | 89.4           | 48.8         | 0.841          | 48.0          | 0.912          | 131.3          | 3,151          |
| 5        | 119.61           | 158.6          | -0.02         |            | 157.3            | 33.9           | 206.0               | 120.02           | 1,748.0            | -291.8             | 0.0         | 206.0          | 1,712.4            | 119.54           | 103.0          | 56.1         | 0.954          | 55.1          | 0.926          | 102.1          | 2,450          |
| 6<br>7   | 119.55<br>119.49 | 162.3<br>359.3 | -0.01<br>0.00 | 1.3<br>1.3 | 161.0            | 42.3<br>42.3   | 199.6<br>203.3      | 119.88<br>119.74 | 1,737.6            | 211.1<br>63.3      | 0.0<br>0.0  | 199.6<br>203.3 | 1,709.1<br>1,722.5 | 119.49<br>119.67 | 99.8<br>101.7  | 54.3<br>55.4 | 0.925<br>0.942 | 53.4<br>54.5  | 0.924<br>0.925 | 98.7<br>100.7  | 2,369<br>2,417 |
| 8        | 119.44           | 381.0          | 0.23          | 1.3        | 379.7            | 245.5          | 360.0               | 119.60           | 1,717.0            | 210.7              | 210.7       | 360.0          | 1,706.0            | 119,45           | 120.0          | 65.3         | 1.118          | 64.0          | 0.919          | 176.5          | 4,236          |
| 9        | 119.38           | 265.1          | 0.07          | 1.3        | 263.8            | 118.1          | 360.0               | 119.45           | 1,705.0            | 21.9<br>-27.6      | 21.9<br>0,0 | 360.0          | 1,695.8<br>1,683.3 | 119.31<br>119.14 | 120.0<br>120.0 | 65.1<br>64.9 | 1.114<br>1.110 | 63.8<br>63.6  | 0.920<br>0.920 | 176.1<br>175.6 | 4,226 4,214    |
| 10<br>11 | 119.31<br>119.17 | 216.8<br>180.9 | 0.00          | 1.3<br>1,3 | 215.5<br>179.6   | 117.7<br>92.1  | 360.0<br>307.6      | 119.31<br>119.17 | 1,695.8<br>1,685.7 | -37.7              | 0.0         | 360.0<br>307.6 | 1,672.2            | 118.98           | 102.5          | 55.3         | 0.941          | 54.4          | 0.925          | 150.9          | 3,622          |
| 12       | 119.03           | 171.0          | -0.05         | 1.3        | 169.7            | 83.4           | 263.0               | 119.03           | 1,675.5            | -6.5               | 0.0         | 263.0          | 1,664.1            | 118.87           | \$7.7          | 47.2         | 0.818          | 46.5          | 0.907          | 126.5          | 3,036          |
| 13       | 118.85           | 154.7<br>147.4 | -0.01         | 1.3<br>1.3 | 153.4<br>146.1   | 108.1          | 277.8<br>252.9      | 118.88<br>118.74 | 1,664.7<br>1,654.7 | -15.6<br>-4,9      | 0.0<br>0,0  | 277.8<br>252.9 | 1,653.4<br>1,644.2 | 118.72<br>118.59 | 92.6<br>84.3   | 49.7<br>45.2 | 0.854<br>0.790 | 49.6<br>44.5  | 0.915<br>D.899 | 134.4<br>120.0 | 3,226<br>2,880 |
| 14<br>15 | 118.74<br>118.60 | 143.7          | 0.01          | 1.3        | 140.1            | -8.3           | 137.8               | 118.60           | 1,644.6            | 0.0                | 0.0         | 137.8          | 1,644.6            | 118.60           | 68.9           | 36.9         | 0.687          | 36.4          | 0.854          | 62.2           | 1,493          |
| 16       | 118.60           | 147.4          | 0.00          | 1.3        | 146.1            | 0.0            | 142.4               | 118.60           | 1,644.6            | 3.7                | 0.0         | 142.4          | 1,644.9            | 118.60           | 71.2           | 38.1         | 0.701          | 37.6          | 0.862          | 64.8           | 1,555          |
| 17       | 118.60<br>118.60 | 178.4<br>206.9 | 0.00          | 1.3<br>1.3 | 177.1<br>205.6   | 0,0<br>33,1    | 146.1<br>210.2      | 118.60           | 1,644.6<br>1,644.6 | 34.5               | 0.0<br>0.0  | 146.1<br>210.2 | 1,647.6            | 118.64<br>118.64 | 73.1<br>105.1  | 39.1<br>56.3 | 0.713<br>0.957 | 38.6<br>55.3  | 0,869<br>0.926 | 67.1<br>102.4  | 1,610<br>2,458 |
| 19       | 118.60           | 178.4          | 0.04          | 1.3        | 177.1            | 33.1           | 238.7               | 118.60           | 1,644.6            | -31.5              | 0.0         | 238.7          | 1,641.9            | 118.56           | 79.6           | 42.6         | 0.756          | 42.0          | 0.888          | 111.8          | 2,683          |
| 20       | 118.60           | 162.3          | -0.04         | 1.3        | 161.0            | -33.1          | 144.0               | 118.60           | 1,644.6            | -14.2              | 0.0         | 144.0          | 1,643.4            | 118.58           | 72.0           | 38.5         | 0.706          | 38.0          | 0,865          | 65.8           | 1,579          |
| 21<br>22 | 118.60<br>118.60 | 158.6          | -0.02<br>0.00 | 1.3<br>1.3 | 157.3<br>: 152.3 | -16.5          | 144.5<br>190.4      | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -1.1<br>-39.3      | 0.0<br>0.0  | 144.5<br>190.4 | 1,644.5<br>1,641.2 | 118.60<br>118.55 | 72.3<br>95.2   | 38.7<br>50.9 | 0.708<br>0.872 | 38.2          | 0.866<br>0.918 | 66.1<br>92.0   | 1,586<br>2,208 |
| 23       | 118.56           | 153.6          | -0.01         | 1.3        | 152.3            | 33.0           | 185.3               | 118.60           | 1,644.6            | -72.4              | 0.0         | 185.3          | 1,638.3            | 118.51           | 92.7           | 49.5         | 0.851          | 48.8          | 0.915          | \$9.2          | 2,141          |
| 24       | 118.51           | 153.6          | 0.00          | 1.3        | 152.3            | 49.5           | 201.8<br>201.7      | 118.60           | 1,644,6            | -122.4             | 0.0         | 201.8          | 1,634.0            | 118.45<br>118.39 | 100.9<br>100.9 | 53.9<br>53.8 | 0.918<br>0.917 | 53.0<br>52.9  | 0.924<br>0.923 | 97.9<br>97.6   | 2,350<br>2,342 |
| 25<br>26 | 118.45<br>118.39 | 151.1<br>149.9 | 0.00          | 1.3<br>1.3 | 149.8<br>148.6   | 49.4<br>49.4   | 199.2               | 118.60<br>118.60 | 1,644.6<br>1,644.6 | -174.6<br>-225.4   | 0.0<br>0.0  | 201.7<br>199.2 | 1,629.5            | 118.33           | 99.6           | 53.1         | 0.906          | 52.2          | 0.922          | 96.2           | 2,309          |
| 27       | 118.33           | 149.9          | 0.00          | 1.3        | 148.6            | 49.3           | 197.9               | 118.60           | 1,644.6            | 275.0              | 0.0         | 197.9          | 1,620.8            | 118.27           | 99.0           | 52.7         | 0.899          | 51.8          | 0.922          | 95.5           | 2,292          |
| 28       | 118.27           | 151.1          | 0.00          | 13         | 149.8            | 41.0           | 189.6               | 118.60           | 1,644.6            | 315.3              | 0.0<br>0.0  | 189.6<br>199.0 | 1,617.4<br>1,612.8 | 118.22           | 94.8           | 50.4<br>52.8 | 0.864<br>0.901 | 49.6<br>52.0  | 0.917<br>0.922 | 91.0<br>95.8   | 2,184<br>2,299 |
| 29<br>30 | 118.22<br>118.16 | 147.4<br>146.1 | 0.00<br>-0.01 | 1.3<br>1.3 | 146.1<br>144.8   | 49.2<br>40.9   | 199.0<br>187.0      | 118.60<br>118.60 | 1,644.6            | -367.7<br>-410.3   | 0.0         | 187.0          | 1,609.2            | 118.15           | 199.5<br>93.5  | 49.6         | 0.852          | 48.8          | 0.922          | 89.3           | 2,143          |
|          |                  | 179.5          |               | 1.3        |                  |                |                     |                  |                    |                    | 7,8         | 221.1          |                    |                  |                |              |                |               |                |                | 76,708         |
| Dec. 1   | 1982             |                |               |            |                  |                |                     |                  |                    |                    |             |                |                    |                  |                |              |                |               |                |                |                |
| 1        | 118.10           | 143.7          | 0.00          | 0.8        | 142.9            | 154.9          | 299.7               | 118.60           | 1,644.6            | -566.5             | 0.U         | 299.7          | 1,595.7            | 117.91           | 99.9           | 52.9         | 0.902          | 52.0<br>28.0  | 0.922          | 143.8          | 3,451          |
| 2        | 117.91           | 43.7           | 0.00          | 0.8<br>0.8 | 142.9<br>142.9   | 81.2<br>81.0   | 224.1<br>223.9      | 118.60           | 1,644.6<br>1,644.6 | 647.2<br>-728.0    | 0.0<br>0.0  | 224.1<br>223.9 | 1,588.7<br>1,581.7 | 117.81<br>117.71 | 74,7<br>74.6   | 39.4<br>39.3 | 0.716<br>0.715 | 38.9<br>38.8  | 0.870<br>0.870 | 101.5<br>101.3 | 2,436<br>2,431 |
| 3<br>4   | 117.81<br>117.71 | 143.7<br>146.1 | 0.00<br>0.00  |            | 142.9            | 72.8           | 215.7               | 118.60           | 1,644.6            | -798,4             | 0.0         | 215.7          | 1,575.6            | 117.62           | 71.9           | 37.8         | 0.697          | 37.3          | 0.860          | 96.3           | 2,311          |
| 5        | 117.62           | 147.4          | 0.00          | 0.8        | 146.6            | 80.7           | 226.0               | 118.60           | 1,644.6            | -878.0             | 0.0         | 226.0          | 1,568.7            | 117.52           | 75.3           | 39.5         | 0.717          | 39.0          | 0.871          | 102.0          | 2,443          |
| 6<br>7   | 117.52<br>117.42 | 149.9<br>149.4 | 0.00          | 0.8<br>0.8 | 149.1<br>148.6   | 80.5<br>80.3   | 227.1<br>229.4      | 118.60<br>118.60 | 1,644.6<br>1.644.6 | -956.5<br>-1036.8  | 0.0<br>0.0  | 227.1<br>229.4 | 1,562.0<br>1,555.0 | 117.43<br>117.33 | 75.7<br>76.5   | 39.7<br>40.0 | 0.720<br>0.723 | 39.1<br>39.5  | 0.872<br>0.874 | 102.4          | 2,458          |
| 8        | 117.33           | 151.1          | 0.00          | 0.8        | 150.3            | 80.1           | 228.7               | 118.60           | 1,644.6            | -1115.4            | 0.0         | 228.7          | 1,548.2            | 117.23           | 76.2           | 39.8         | 0.721          | 39.2          | 0.872          | 102.7          | 2,465          |
| 9        | 117.23           | 149.4          | 0.00          | 0.8        | 148.6            | 79.9           | 230.2               | 118.60           |                    | -1197.3            | 0.9         | 230.2          | 1,541.3            | 117.13           | 76.7           | 40.0         | 0.723          | 39.4          | 0.873          | 103.3          | 2,479          |
| 10<br>11 | 117.13<br>117.03 | 147.4<br>147.4 | 0.00<br>-0.01 | 0.8        | 146.6<br>146.6   | 79.7<br>63.6   | 228.3<br>210.2      | 118.60<br>118.60 |                    | -1279.6<br>-1343.7 | 0.0<br>0.0  | 228.3<br>210.2 | 1,534.0<br>1,528.5 | 117.02           | 76.1<br>105.1  | 39.6<br>54.6 | 0.719<br>0.929 | 39.0<br>53.6  | 0.871<br>0.924 | 102.0<br>99.1  | 2,448<br>2,378 |
| 12       | 117.05           | 147.4          | 0.00          | 0.8        | 146.6            | 79.3           | 225.9               | 118.60           | 1,644.6            | -1424.4            | 0.0         | 225.9          | 1,521.5            | 116.84           | 75.3           | 39.0         | 0.711          | 38.5          | 0.868          | 100.3          | 2,407          |
| 13       | 116.84           | 146.1          | 0.00          | 0.8        | 145.3            | 79.1           | 224.4               | 118.60           | 1,644.6            | -1503.9            | 0.0         | 224.4          | 1,514.7            | 116.74           | 74.8           | 38.7         | 0.708          | 38.2          | 0,866          | 59.2           | 2,381          |
| 14<br>15 | 116.74<br>116.65 | 146.1<br>156.0 | 0.00<br>0.00  | 0.8<br>0,8 | 145.3            | 71.0<br>78.7   | 216.3<br>224.0      | 118.60<br>118.60 |                    | -1574.5<br>-1642.9 | 0.0<br>0.0  | 216.3<br>224.0 | 1,508.6<br>1,502.7 | 116.65<br>116.56 | 108.2<br>74.7  | 55.9<br>38.5 | 0.951<br>0.706 | 54.9<br>38.0  | 0.926<br>0.865 | 101.6<br>98.5  | 2,438<br>2,364 |
| 16       | 116.55           | 136.0          | 0.00          | 0.8        | 133.1            | 86.3           | 224.0               | 118,60           |                    | -1750.8            | 0.0         | 241.5          | 1,493.3            | 116.43           | 80.5           | 41.4         | 0.741          | 40,8          | 0.881          | 107.9          | 2,590          |
| 17       | 116.45           | 259.6          | .0.02         | 0.8        | 258.8            | . 54.8         | 187.9               | 118,60           | 1,644.6            | -1680.3            | 0.0         | 187.9          | 1,499.4            | 116.52           | 94.0           | 48.3         | 0.833          | 47.6          | 0.911          | 86.6           | 2,078          |
| 18<br>19 | 116.36<br>116.26 | 645.4<br>441.0 | 0.16          | 0.8<br>0.8 | 644.6<br>440.2   | 203.4          | -360.0<br>360.0     | 118.60<br>118.60 |                    | -1396.0<br>-1315.6 | 0.0<br>0,0  | 360.0<br>360.0 | 1,524.0<br>1,530.9 | 116.88<br>116.98 | 120.0<br>120.0 | 62.0<br>62.2 | 1.056<br>1.060 | 60.7<br>61.0  | 0.925<br>0.924 | 168.5<br>169.1 | 4,044<br>4,058 |
| 20       | 116.16           | 325.8          | 0.82          | 0.8        | 325.0            | 714,5          | 360.0               | 118.60           | 1,644.6            | -1351.0            | 0.0         | 360.0          | 1,527.9            | 116.93           | 120.0          | 62.3         | 1.062          | 61.0          | 0,924          | 169.2          | 4,061          |
| 21       | 116.07           | 270.7          | 0.86          | 0.8        | 269.9            | 752.2          | 360.0               | 118,60           | 1,644.6            |                    | 0.0<br>0.0  | 360.0<br>360.0 | 1,520.1            | 116.82<br>116.66 | 120.0<br>120.0 | 62.2<br>62.0 | 1.060          | 60.9<br>60.8  | 0.925          | 169.1          | 4,058<br>4,049 |
| 22<br>23 | 115.97<br>115.87 | 237.8<br>219.3 | 0.85          | 0.8<br>0.7 | 237.0<br>218.6   | 742.4<br>685.4 | 360.0<br>360.0      | 118,60<br>118,60 | 1,644.6            | -1564.0<br>-1705.1 | 0,0<br>0,0  | 360.0<br>360.0 | 1,509.5<br>1,497.3 | 116.48           | 120.0          | 62.0<br>61.8 | 1.056<br>1.053 | 60.8<br>60.6  | 0.925<br>0.925 | 168.7<br>168.1 | 4,049<br>4,034 |
| 24       | 115,78           | 206.9          | 0.70          | 0.7        | 206.2            | 620.8          | 360.0               | 118.60           | 1.644.6            | -1858.7            | 0.0         | 360.0          | 1,484.0            | 116.29           | 120.0          | 61.6         | 1.049          | 60,4          | 0,925          | 167.5          | 4,020          |
| 25       | 115.68           | 199.4          | 0.61          | 0.7        | 198.7            | \$48.8         | 360.0               | 118,60           | 1,644.6            |                    | 0.0         | 360.0          | 1,470,1            | 116.08           | 120.0          | 61.4         | 1.045          | 60.1<br>50.0  | 0.925          | 166.9          | 4,006          |
| 26<br>27 | 115.58<br>115.48 | 201.9<br>192.0 | 0.50<br>0.40  | 0.7<br>0.7 | 201.2<br>191.3   | 461.9<br>375.8 | 360.0<br>360.0      | 118.60<br>118.60 | 1.644.6<br>1.644.6 |                    | 0.0<br>0.0  | 360.0<br>360.0 | 1,456.4<br>1,441.8 | 115.88<br>115.66 | 120.0<br>120.0 | 61.1<br>60.9 | 1.040<br>1.036 | 59.9<br>59.7  | 0.926<br>0.926 | 166.4          | 3,994<br>3,977 |
| 28       | 115.39           | 184.5          | 0.27          | 0.7        | 183.8            | 282.5          | 360.0               | 118.60           | 1,644.6            | -2523.4            | 0.0         | 360.0          | 1,426.6            | 115.43           | 120.0          | 60.6         | 1.031          | 59.4          | 0.926          | 165.0          | 3,960          |
| 29       | 115.29           | 178.4          | 0.14          | 0.7        | 177.7            | 182.4          | 360.0               | 118,60           | 1,644.6            |                    | 0.0         | 360.0          | 1,410.8            | 115.19           | 120.0          | 60.3         | 1.026          | \$9.1<br>an 5 | 0.926          | 164.3<br>106 B | 3,943          |
| 30<br>31 | 215.19<br>115.10 | 171.0<br>136.2 | 0.00<br>-0.01 | 0.7<br>0.7 | 170.3<br>135.5   | 68.1<br>67.9   | 245.8<br>238.2      | 118,69<br>118,60 | 1,644.6            | -2781.5<br>-37.9   | 0.0<br>0.0  | 245.8<br>238.2 | 1,404.3<br>1,395.4 | 115.09<br>114.95 | 81.9<br>79.4   | 41.0<br>39.7 | 0.736<br>0.720 | 40.5<br>39.1  | 0.880          | 106.8<br>102,4 | 2,563<br>2,458 |
|          | 12.10            | 200,6          | 5.01          | 0.8        |                  |                |                     |                  |                    |                    | 0.0         | 279.6          |                    |                  |                |              |                |               |                |                | 95,272         |
| G        | Tertal           | 3 040          |               | 32         | • •              |                |                     |                  |                    |                    | 284         | 2,749          |                    |                  |                |              |                |               |                |                | 992,199        |
| Grand    | 10131            | 3,068          |               | 32         |                  |                |                     |                  | C                  | 115                | - 17        | 2,749          |                    |                  |                |              |                |               |                |                |                |
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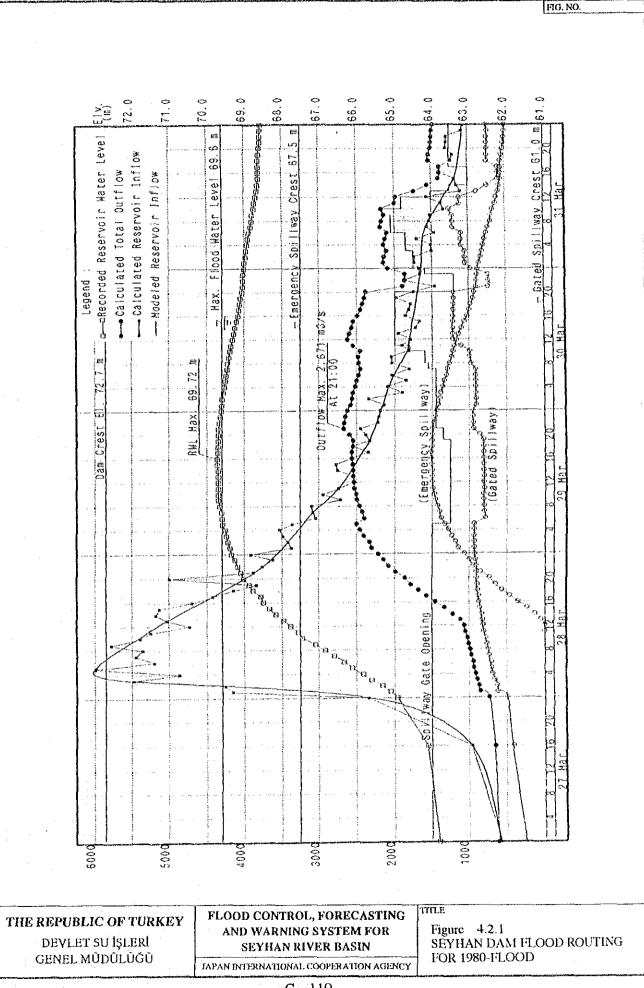
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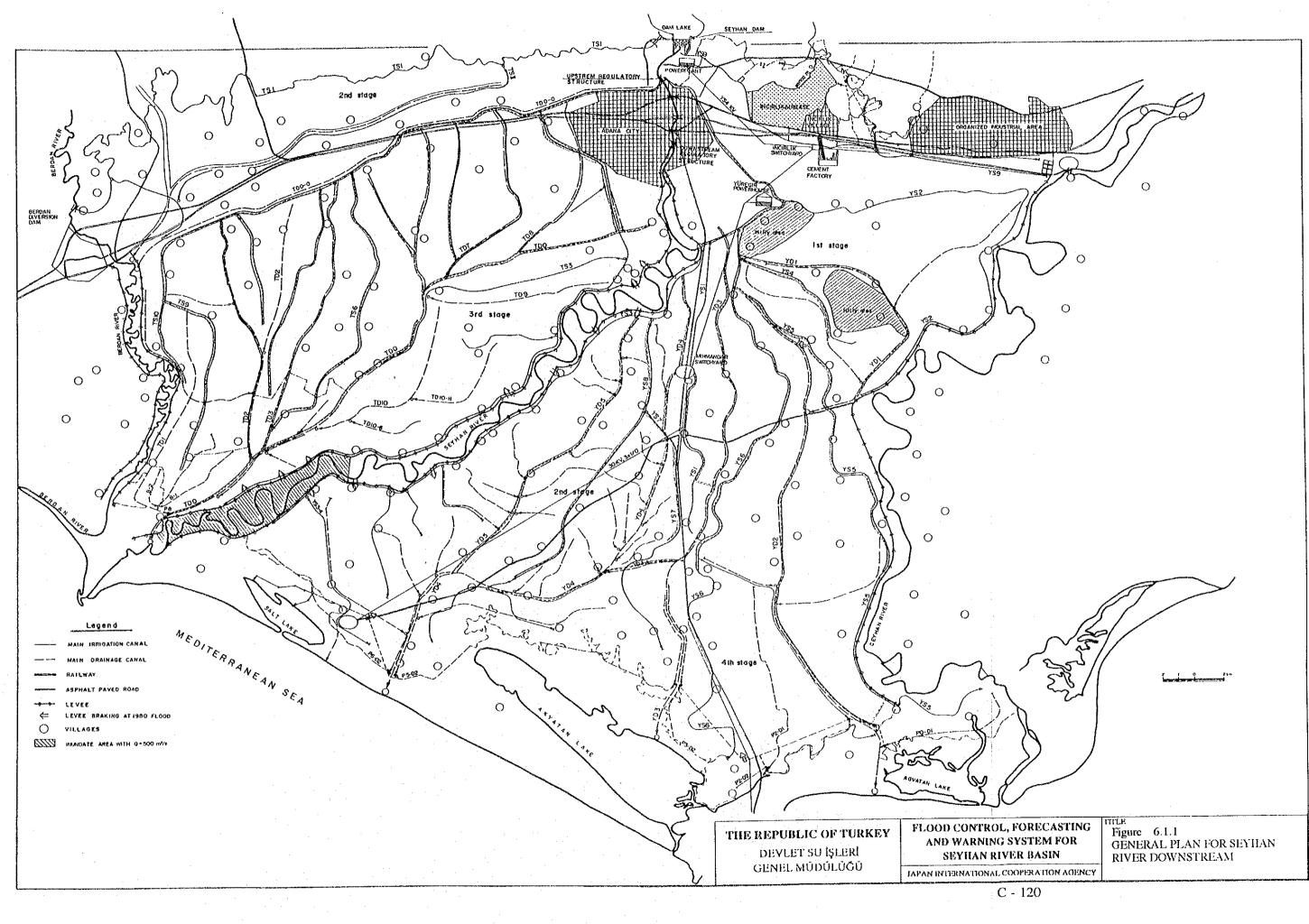
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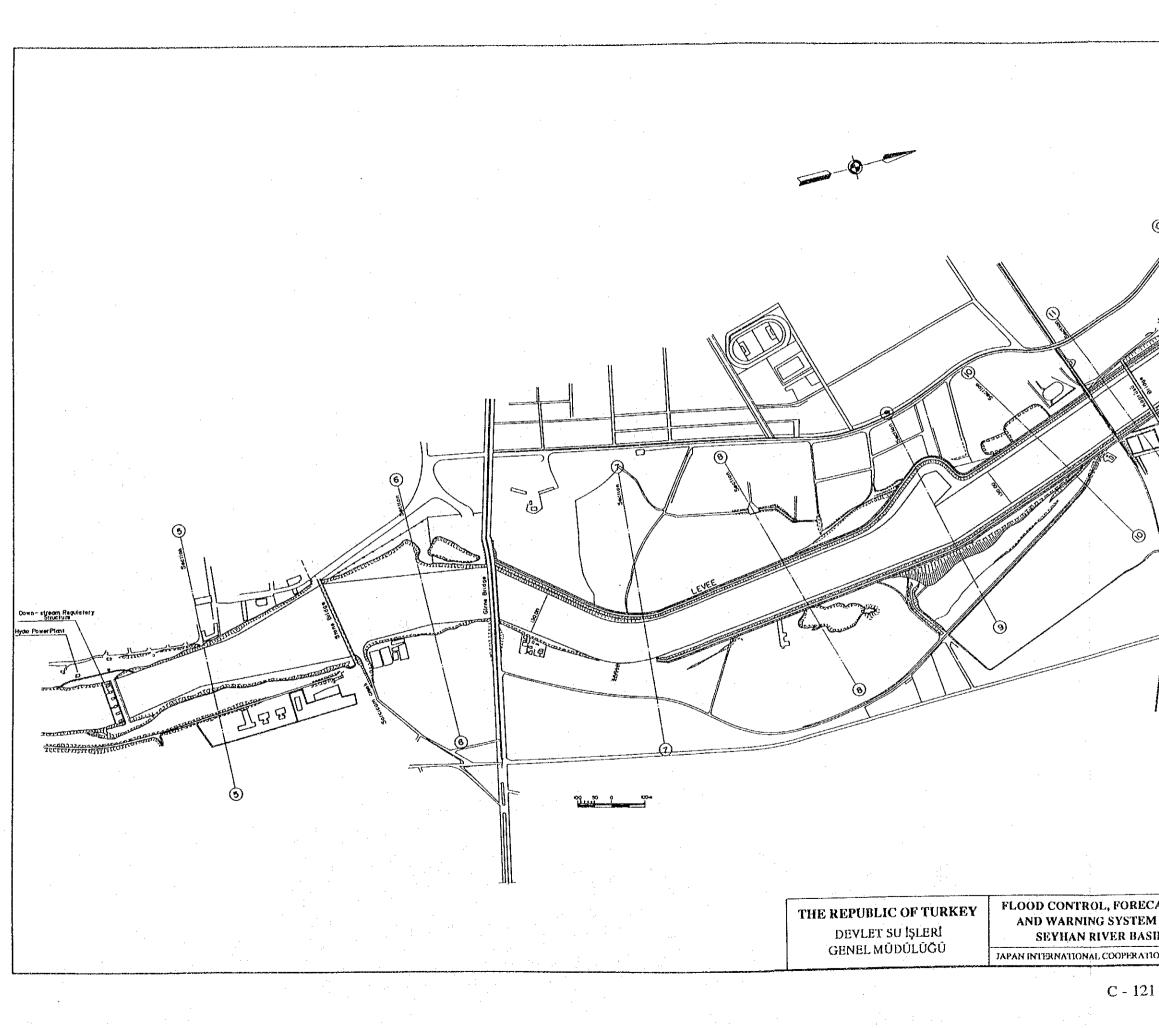


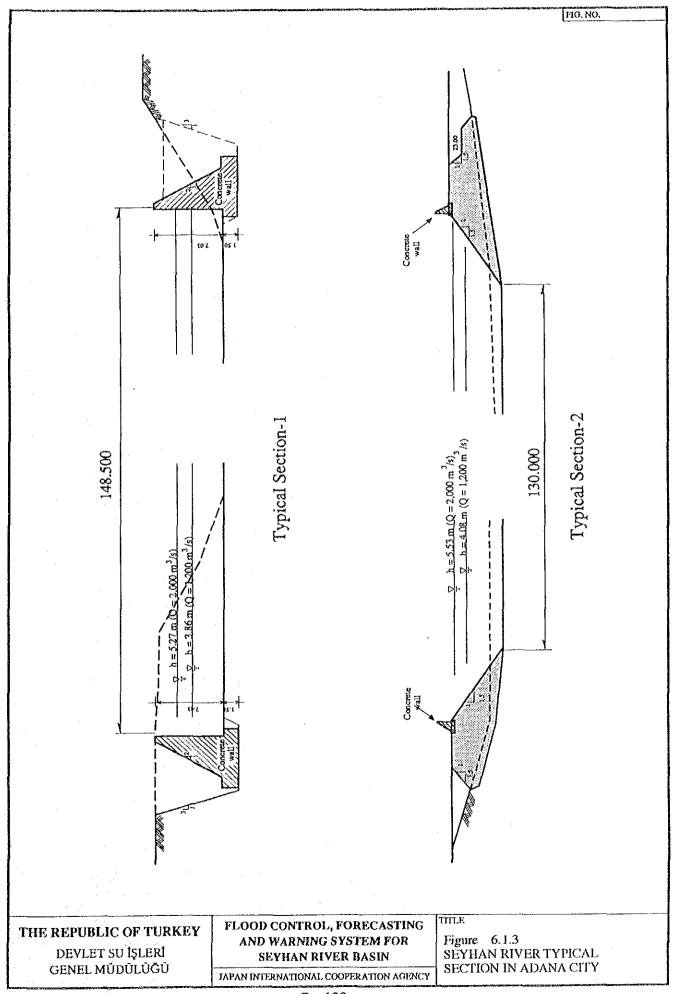


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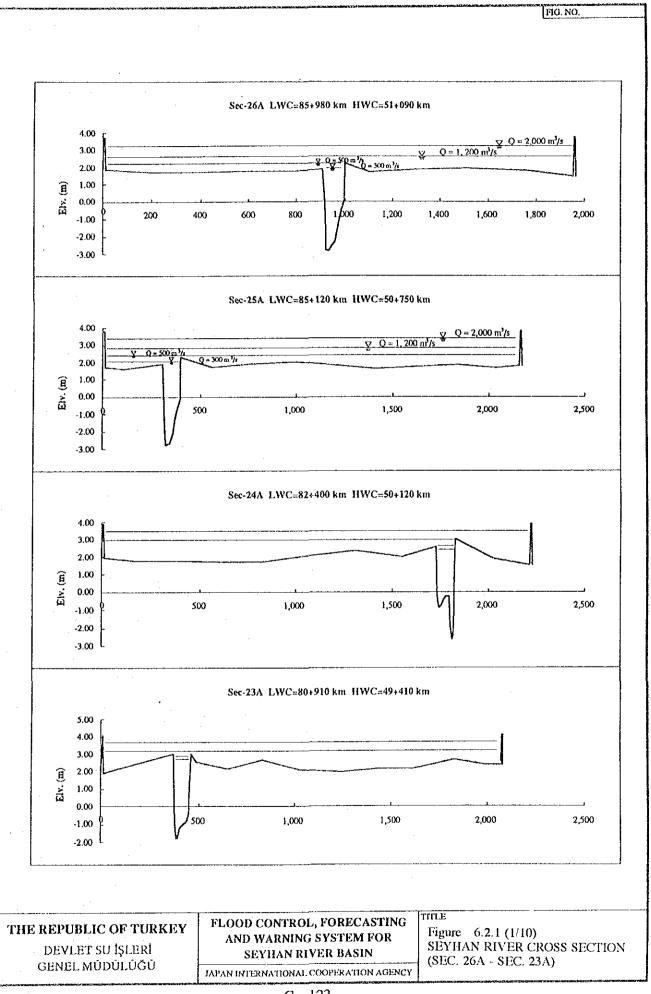


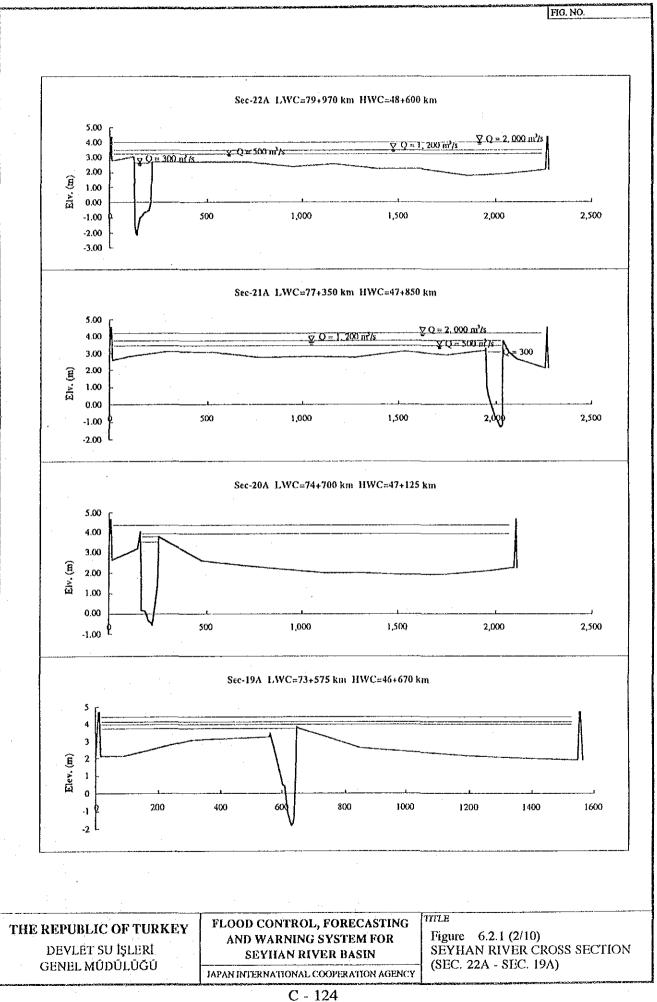


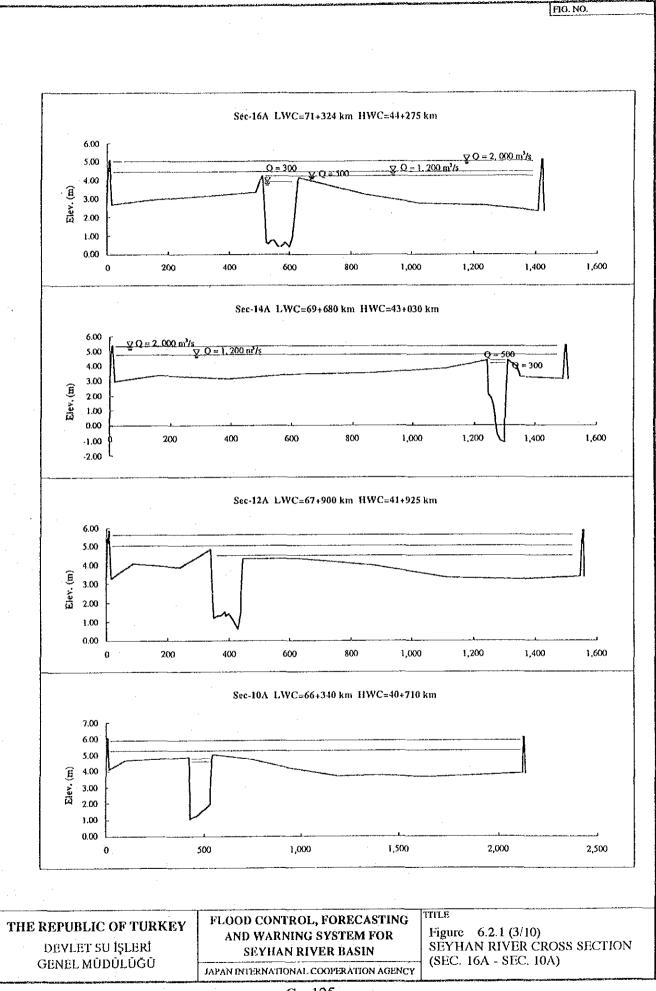


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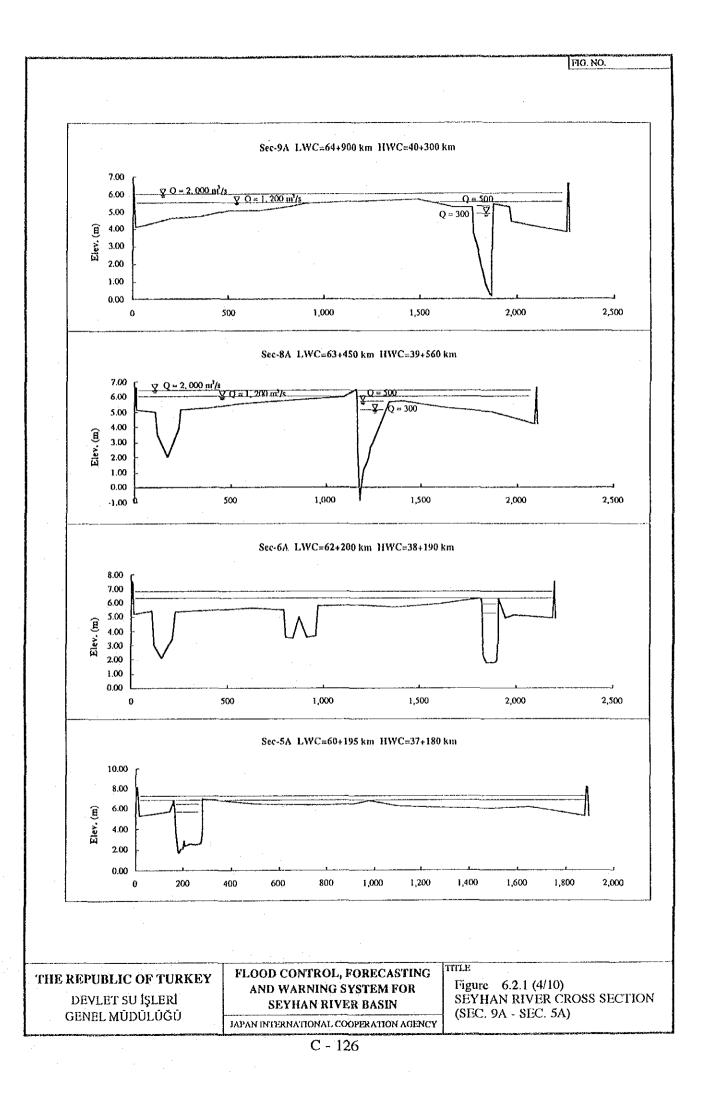
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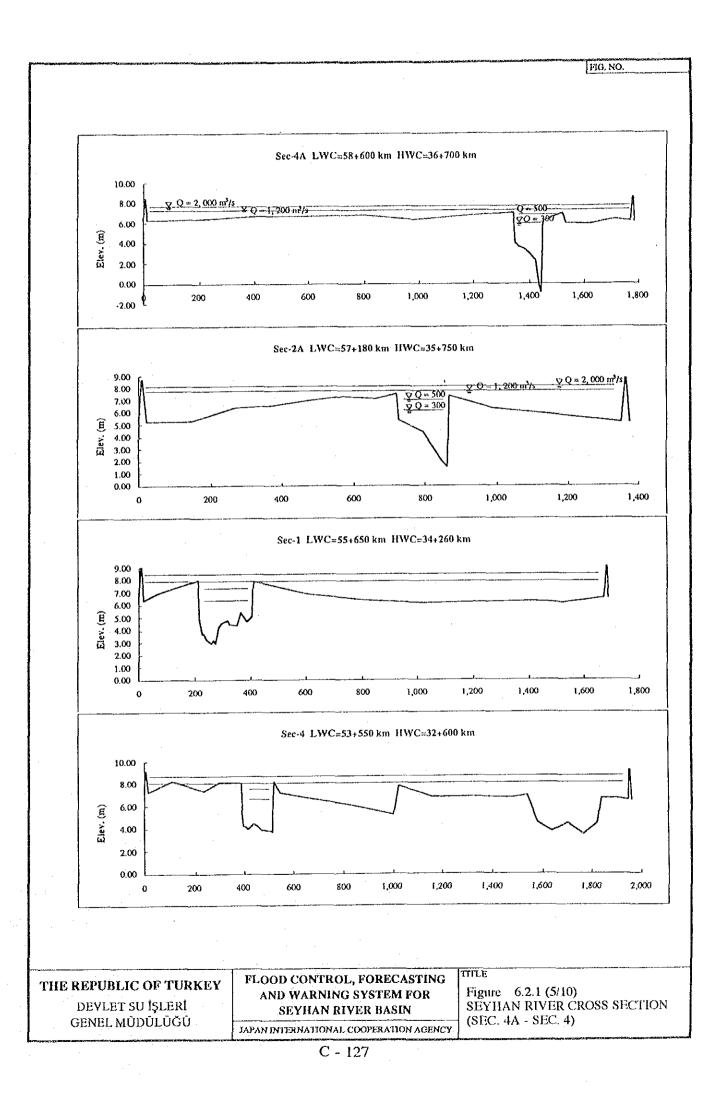


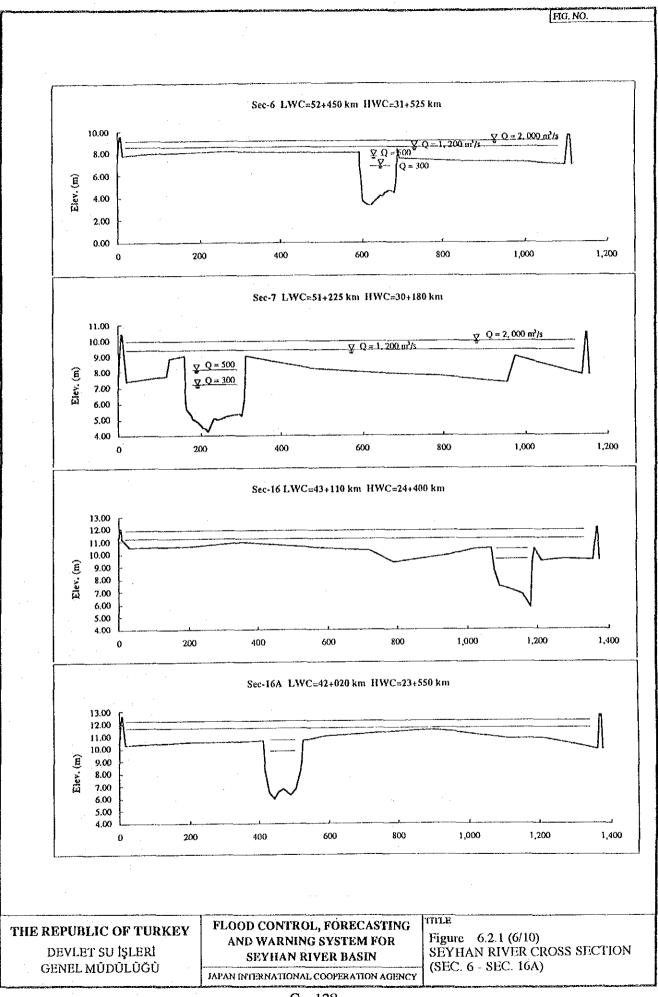


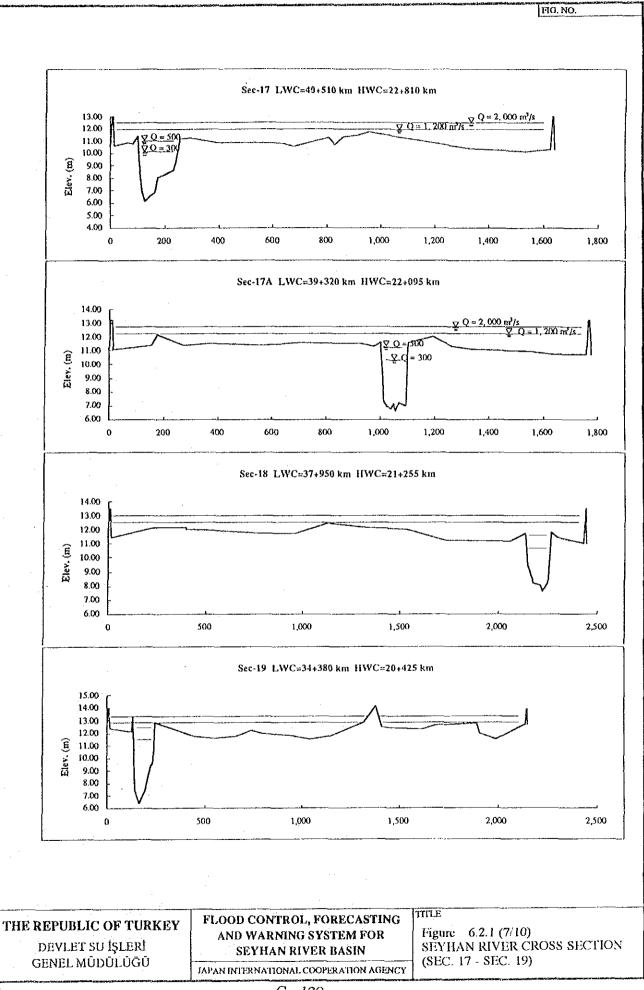


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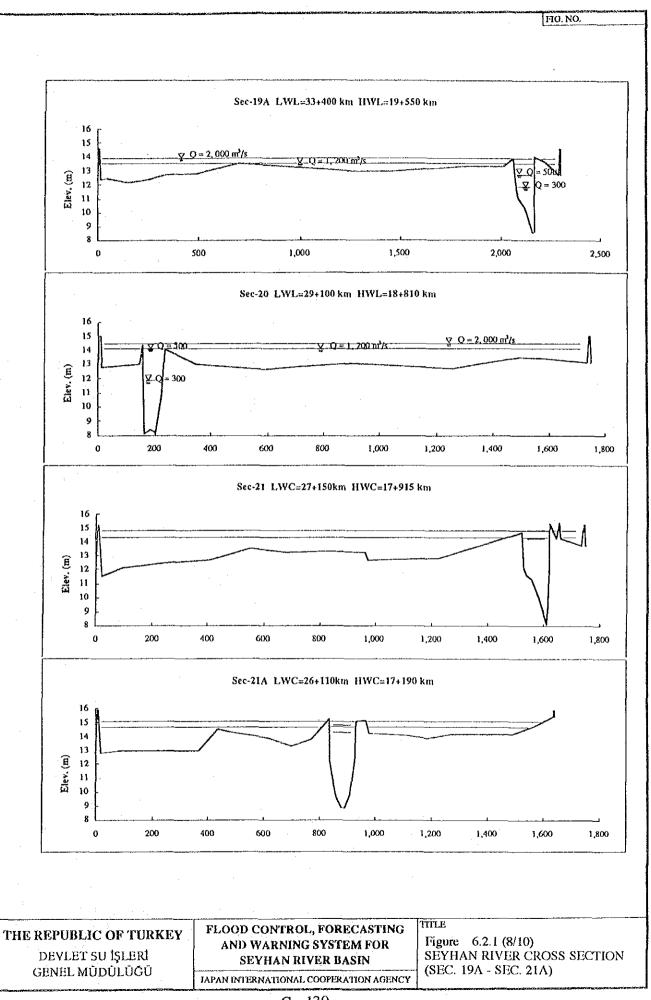


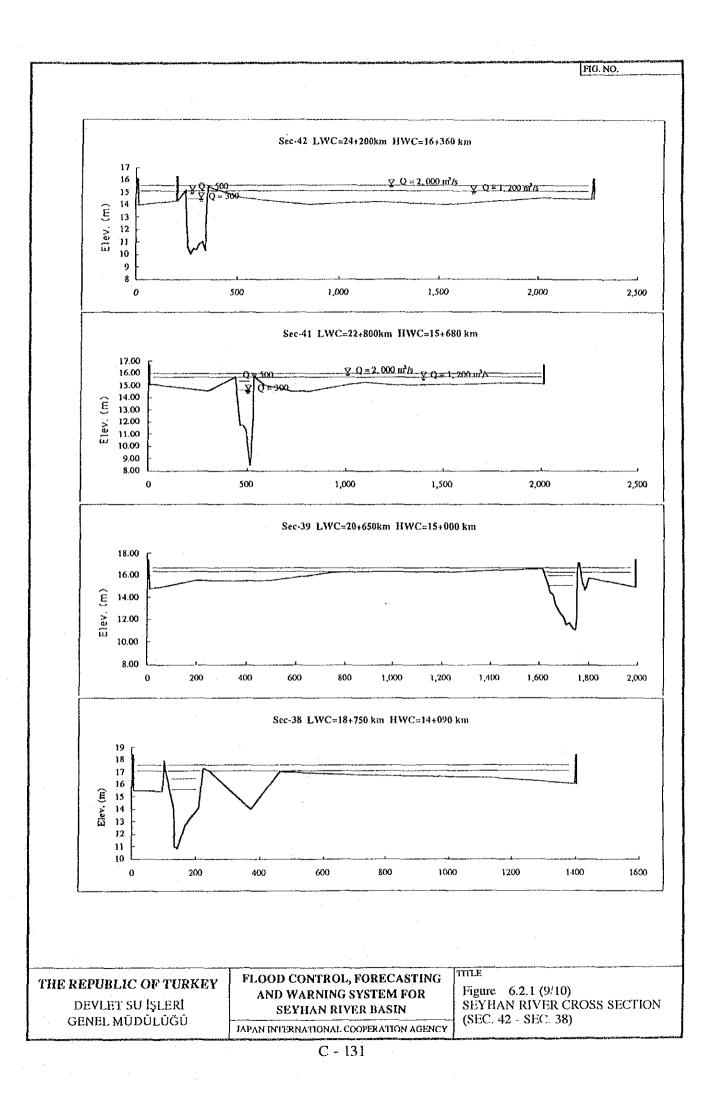


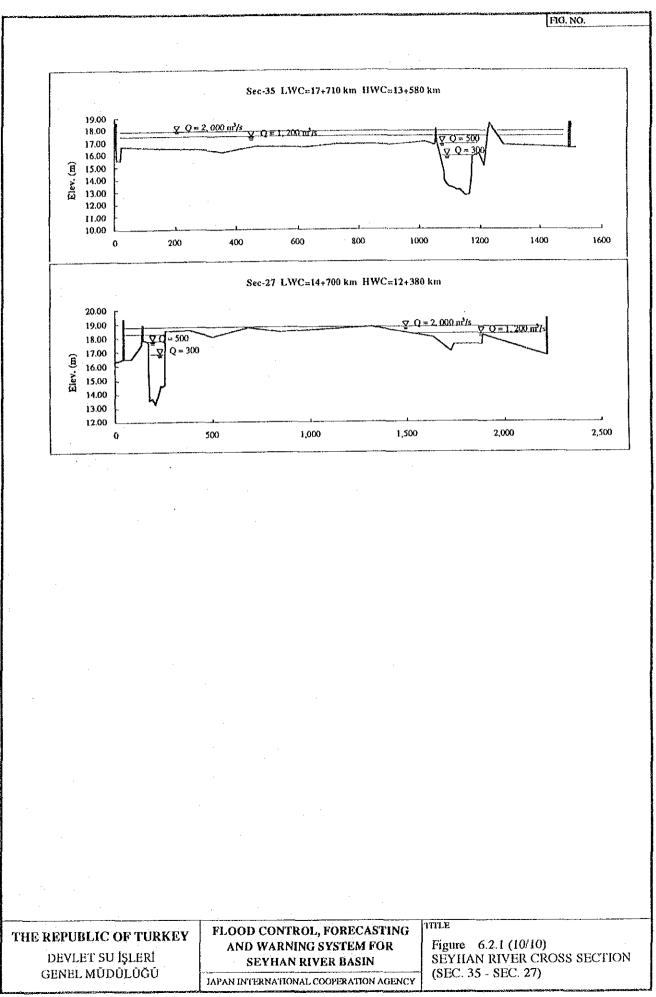




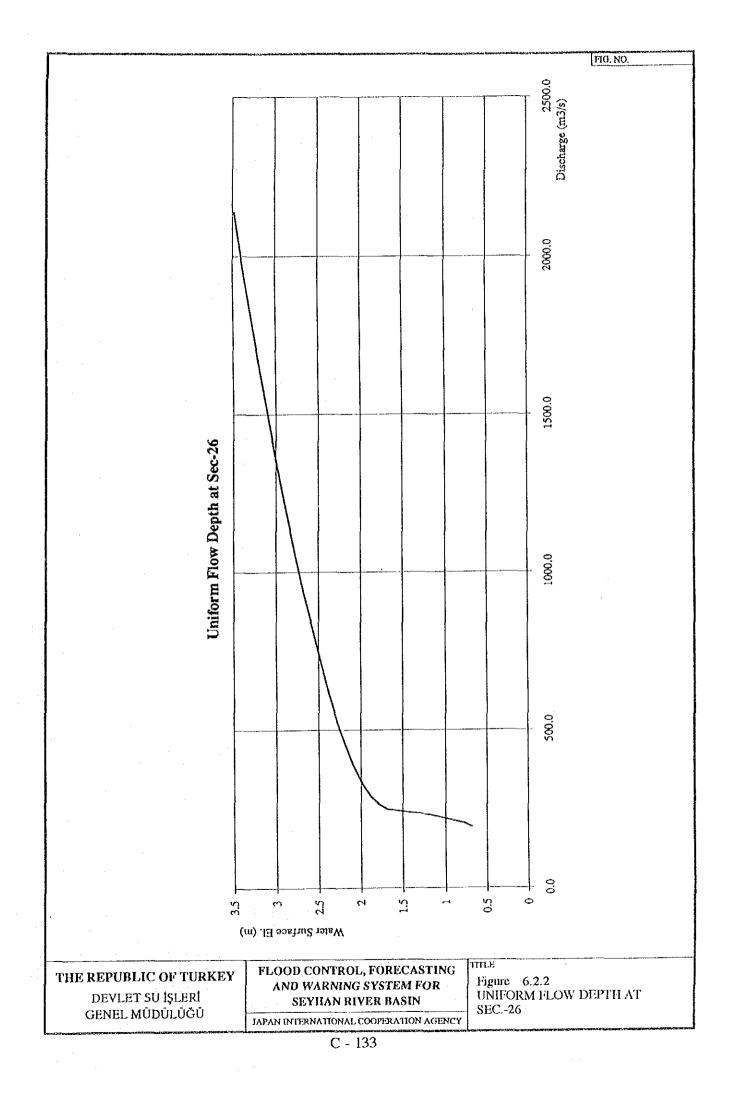
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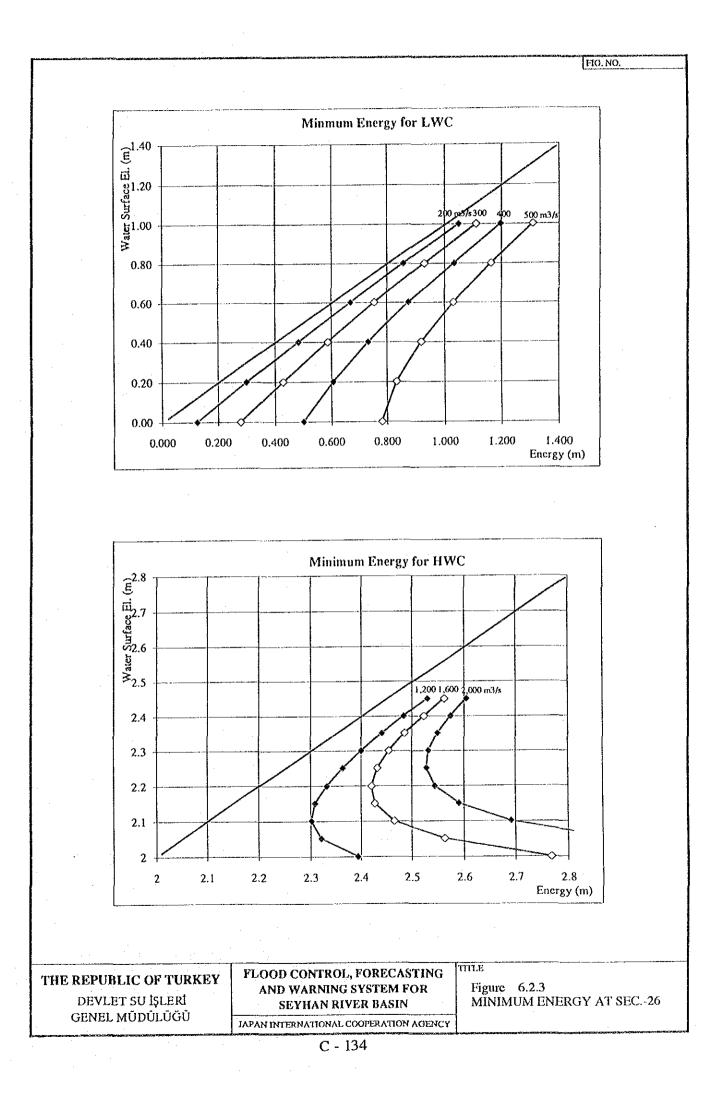


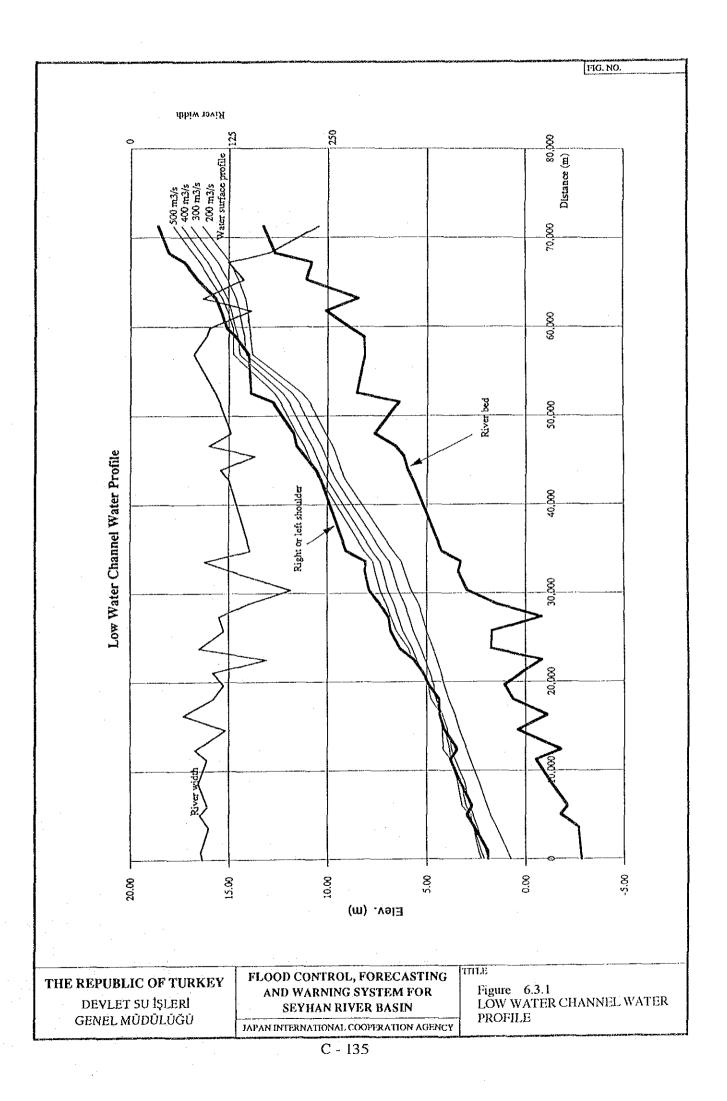
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