APPENDIX B
4Q3 CALCULATIONS

```
              Log-Pearson Type III Statistics
                          SWSTAT 4.1
                (based on USGS Program A193)

Notice -- Use of Log-Pearson Type III or Pearson-Type III
          distributions are for preliminary computations.
          User is responsible for assessment and
          interpretation.

             09364500 Animas River at Farmington, NM
                 April  1 - start of season
                 March 31 - end of season
              1967 - 2002 - time period
                4-day low - parameter
                       35 - non-zero values
                        1 - zero values
                        0 - negative values (ignored)

        111.500     111.250      95.000     156.500     190.250
         92.750       6.000     201.250       7.850     189.000
         94.000      10.900      20.750     132.750     162.500
        147.000     303.250     272.750     258.500     231.500
        379.250     226.000     261.250      99.250      82.500
        169.750     187.250     241.250     122.000     142.250
        211.250     225.500     202.250      14.375      84.750

The following 7 statistics are based on non-zero values:

Mean (logs)                                   2.050
Variance (logs)                               0.209
Standard Deviation (logs)                     0.457
Skewness (logs)                              -1.675
Standard Error of Skewness (logs)             0.398
Serial Correlation Coefficient (logs)         0.153
Coefficient of Variation (logs)               0.223


    Non-                                Adjusted Non- Adjusted
 Exceedance   Recurrence  Parameter   Exceedance  Parameter
Probability    Interval     Value    Probability    Value
-----------  -----------  ---------  -----------  ---------
     0.0100       100.00      3.030       0.0375      0.000
     0.0200        50.00      5.846       0.0472      0.000
     0.0500        20.00     14.101       0.0764      6.603
     0.1000        10.00     27.798       0.1250     19.607
     0.2000         5.00     55.783       0.2222     47.573
     0.3333         3.00     94.163       0.3518     88.790
     0.5000         2.00    148.212       0.5139    143.054
     0.8000         1.25    263.334       0.8056    260.709
     0.9000         1.11    313.387       0.9028    311.832
     0.9600         1.04    351.634       0.9611    350.803
     0.9800         1.02    368.074       0.9806    367.562
     0.9900         1.01    378.225       0.9903    377.931


Note -- Adjusted parameter values include zero values
        and correspond with non-exceedance probabilities
        in column 1 and recurrence interval in column 2.
        Parameter values in column 3 are based on
        non-zero values.
```

Calculated 4Q3 **(cfs)**