```
GRAPH:~KGRAPH.TMP


   WINKS 4.65                                         January 10,2002
   ---------------------------------------------------------------------
   Descriptive Statistics         D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\SAG.DBF
   ---------------------------------------------------------------------
   Variable Name is AREA


   N         = 20              Missing or Deleted = 0
   Mean      = 16.1125            St. Dev (n-1) = 29.94968
   Median    = 4.125             St. Dev (n) = 29.19134
   Minimum   = 0.25                   S.E.M. = 6.69695
   Maximum   = 118.75              Variance = 896.98339
   Sum       = 322.25             Coef. Var. = 1.85879
   ---------------------------------------------------------------------
   Percentiles:                       Tukey Five Number Summary:
   0.0%         = 0.25    Minimum      Minimum  = 0.25
   0.5%         = 0.25                 Fourth   = 1.125
   2.5%         = 0.25                 Median   = 4.125
   10.0%        = 0.50                 Fourth   = 12.875
   25.0%        = 0.9375  Quartile     Maximum  = 118.75
   50.0%        = 4.125   Median
   75.0%        = 13.8125 Quartile
   90.0%        = 66.92499
   97.5%        = 118.75
   99.5%        = 118.75             Test for normality results:
   100.0%       = 118.75  Maximum     D = .342     p <= 0.001


   Five number summary was calculated using the technique from UNDERSTANDING
   ROBUST AND EXPLORATORY DATA ANALYSIS by Hoaglin, Mosteller And Tukey. See
   complete reference in WINKS manual.


   Confidence Intervals about the mean:
   ---------------------------------------------------------------------
   80 % C.I. based on a t(19) critical value of 1.33 is (7.20555, 25.01945)
   90 % C.I. based on a t(19) critical value of 1.73 is (4.52677, 27.69823)
   95 % C.I. based on a t(19) critical value of 2.1 is (2.0489, 30.1761)
   98 % C.I. based on a t(19) critical value of 2.54 is (-0.89776, 33.12276)
   99 % C.I. based on a t(19) critical value of 2.87 is (-3.10775, 35.33275)


   The normality test suggests that the data are not normally distributed.
   The test for normality is a modified Kolmogorov-Smirnov test based on
   papers by Lilliefors and Dallal & Wilkinson. References in latenews.txt.
```
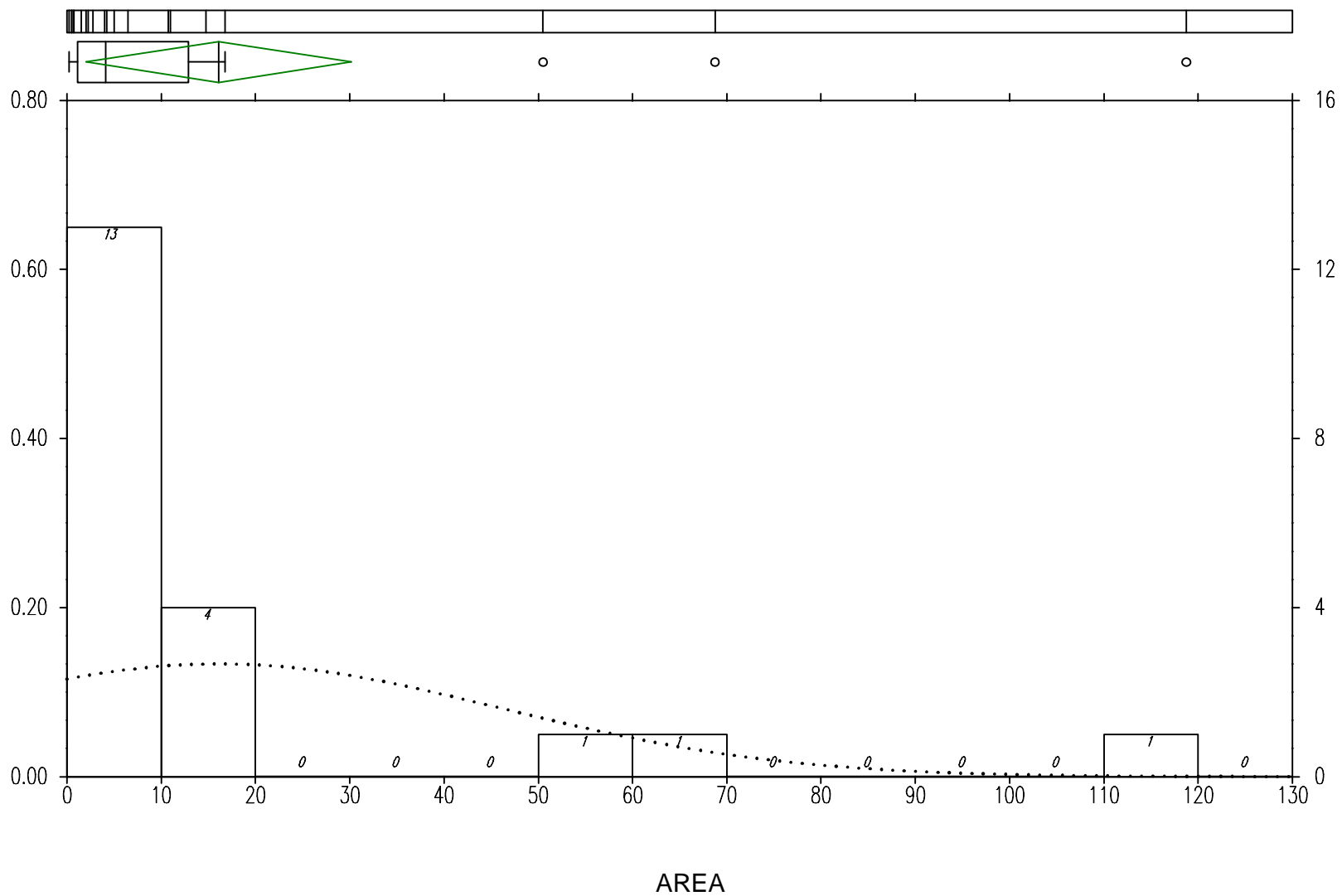
Sag River Closures — Area

AREA

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GRAPH:~KGRAPH.TMP


   WINKS 4.65                                             January 10,2002
   ------------------------------------------------------------------------
   Descriptive Statistics          D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\SAG.DBF
   ------------------------------------------------------------------------
   Variable Name is HEIGHT


   N        = 20              Missing or Deleted = 0
   Mean     = 53.305               St. Dev (n-1) = 61.23319
   Median   = 36.15                St. Dev (n) = 59.68273
   Minimum  = 5.60                    S.E.M. = 13.69216
   Maximum  = 284.20                Variance  = 3749.50397
   Sum      = 1066.10001           Coef. Var. = 1.14873
   ------------------------------------------------------------------------
   Percentiles:                          Tukey Five Number Summary:
   0.0%         = 5.60     Minimum        Minimum = 5.60
   0.5%         = 5.60                    Fourth  = 16.80
   2.5%         = 5.60                    Median  = 36.15
   10.0%        = 7.57                    Fourth  = 67.35
   25.0%        = 16.30    Quartile       Maximum = 284.20
   50.0%        = 36.15    Median
   75.0%        = 70.27499Quartile
   90.0%        = 96.40
   97.5%        = 284.20
   99.5%        = 284.20              Test for normality results:
   100.0%       = 284.20   Maximum     D = .218     p = 0.014


   Five number summary was calculated using the technique from UNDERSTANDING
   ROBUST AND EXPLORATORY DATA ANALYSIS by Hoaglin, Mosteller And Tukey. See
   complete reference in WINKS manual.


   Confidence Intervals about the mean:
   ------------------------------------------------------------------------
   80 % C.I. based on a t(19) critical value of 1.33 is (35.09443, 71.51557)
   90 % C.I. based on a t(19) critical value of 1.73 is (29.61757, 76.99243)
   95 % C.I. based on a t(19) critical value of 2.1 is (24.55147, 82.05853)
   98 % C.I. based on a t(19) critical value of 2.54 is (18.52692, 88.08308)
   99 % C.I. based on a t(19) critical value of 2.87 is (14.00851, 92.60149)


   The normality test suggests that the data are not normally distributed.
   The test for normality is a modified Kolmogorov-Smirnov test based on
   papers by Lilliefors and Dallal & Wilkinson. References in latenews.txt.
```
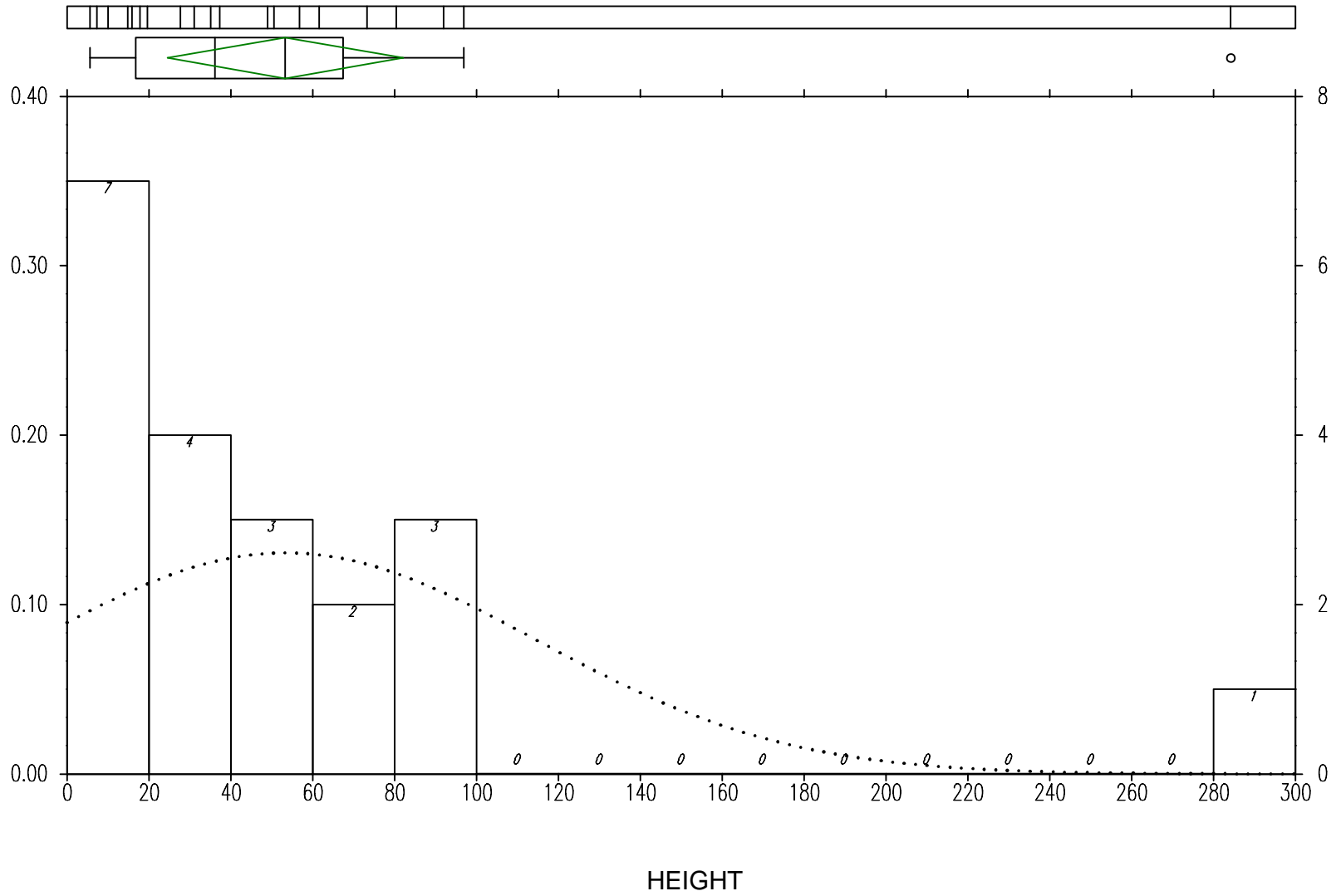
Sag River Closures — Height

HEIGHT

```
GRAPH:~KGRAPH.TMP

  WINKS 4.65                                              January 10,2002
  --------------------------------------------------------------------------
  Linear Regression and Correlation
                              D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\SAG.DBF
  --------------------------------------------------------------------------

  Dependent variable is HEIGHT,   1  independent variables, 20  cases.
  --------------------------------------------------------------------------
  Variable     Coefficient         St. Error       t-value       p(2 tail)
  --------------------------------------------------------------------------
  Intercept    24.638755           7.9170101       3.1121288     0.006
  AREA         1.7791308            .2374424        7.4928949     <.001
  --------------------------------------------------------------------------
  R-Square = 0.7572          Adjusted R-Square = 0.7437

  Analysis of Variance to Test Regression Relation

  Source       Sum of Sqs       df  Mean Sq           F           p-value
  --------------------------------------------------------------------------
  Regression   53945.319         1  53945.319     56.143474       <.001
  Error        17295.256        18  960.84755
  --------------------------------------------------------------------------
  Total        71240.575        19

  A low p-value suggests that the dependent variable HEIGHT
  may be linearly related to independent variable(s).


  --------------------------------------------------------------------------
  MEAN X =      16.112   S.D. X =        29.95   CORR XSS =     17042.68
  MEAN Y =      53.305   S.D. Y =        61.233  CORR YSS =     71240.57
  REGRESSION MS=   53945.319             RESIDUAL MS=     960.848
  --------------------------------------------------------------------------

  Pearson's r (Correlation Coefficient)= 0.8702

  The linear regression equation is:
       HEIGHT =  24.63876  +  1.779131 * AREA

  Test of hypothesis to determine significance of relationship:
       H(null): Slope = 0   or  H(null): r = 0    (two-tailed test)
       t = 7.49   with   18 degrees of freedom   p <= .001

       Note: A low p-value implies that the slope does not = 0.
```
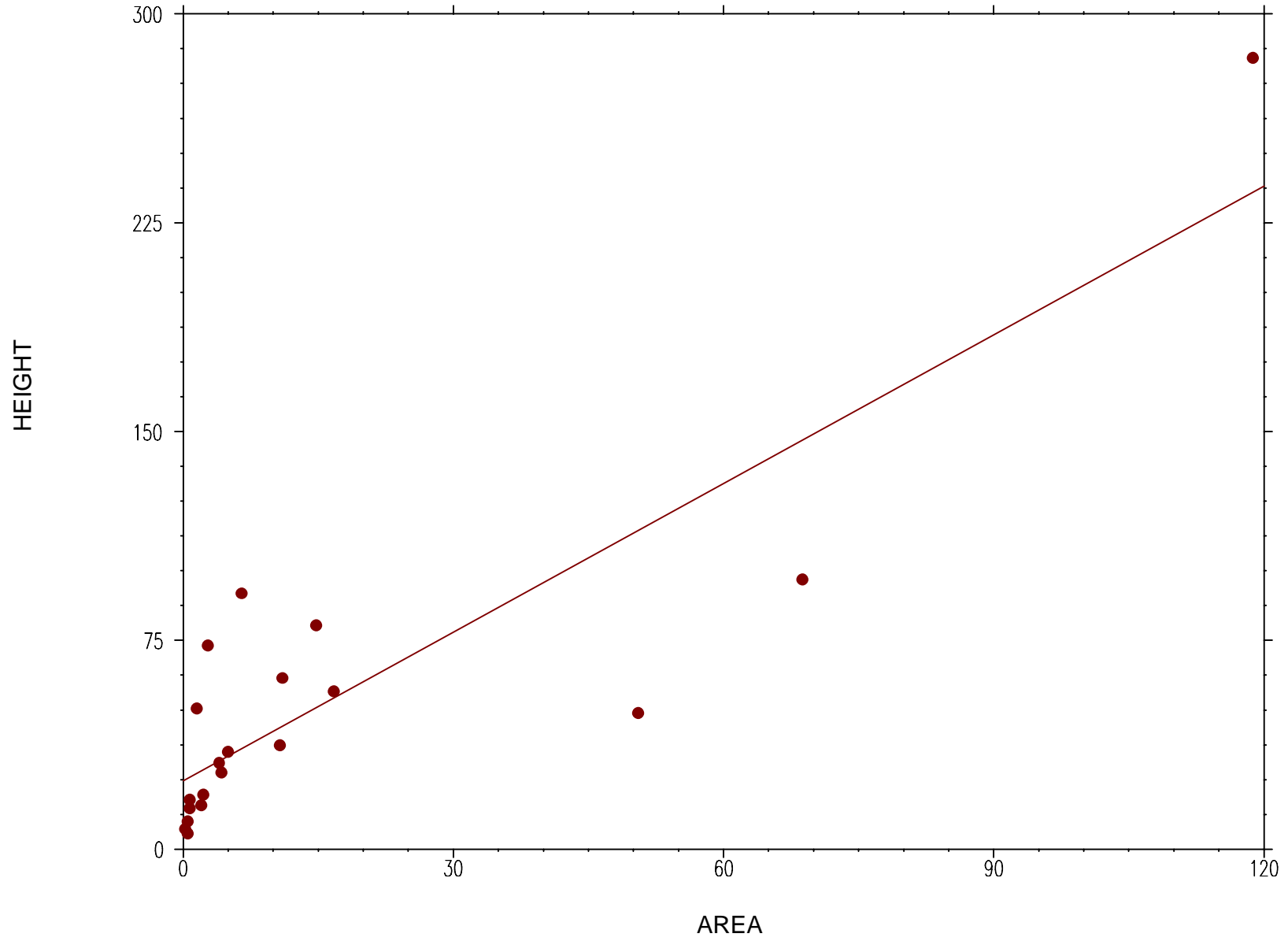
Sag River Closures

```
------------------------------------------------------------------------
Correlation Coefficients         D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\SAG.DBF
------------------------------------------------------------------------
```

Variables used : AREA and HEIGHT

Number of cases used: 20

Pearson's r (Correlations Coefficient) = 0.8702   R-Square = 0.7572

  Test of hypothesis to determine significance of relationship:
     H(null): Slope = 0   or   H(null): r = 0

  (Pearson's) t = 7.492895 with 18 d.f.   p < 0.001
     (A low p-value implies that the slope does not = 0.)

Spearman's Rank Correlation Coefficient = 0.8473

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GRAPH:~KGRAPH.TMP

 WINKS 4.65                                             January 10,2002
 --------------------------------------------------------------------------
 Linear Regression and Correlation
                          D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\SAG.DBF
 --------------------------------------------------------------------------

 Dependent variable is LOGHEIGHT,   1  independent variables, 20  cases.
 --------------------------------------------------------------------------
 Variable     Coefficient        St. Error      t-value      p(2 tail)
 --------------------------------------------------------------------------
 Intercept    2.8202966          .1502618       18.769224     <.001
 LOGAREA       .4893187          .0678063        7.216422     <.001
 --------------------------------------------------------------------------
 R-Square = 0.7431         Adjusted R-Square = 0.7289

 Analysis of Variance to Test Regression Relation

 Source       Sum of Sqs       df  Mean Sq          F          p-value
 --------------------------------------------------------------------------
 Regression   13.371723         1  13.371723     52.076747      <.001
 Error         4.621852        18   .2567696
 --------------------------------------------------------------------------
 Total        17.993575        19

 A low p-value suggests that the dependent variable LOGHEIGHT
 may be linearly related to independent variable(s).


 --------------------------------------------------------------------------
 MEAN X =      1.456   S.D. X =         1.714   CORR XSS =       55.847
 MEAN Y =      3.533   S.D. Y =          .973   CORR YSS =       17.994
 REGRESSION MS=     13.372              RESIDUAL MS=        .257
 --------------------------------------------------------------------------

 Pearson's r (Correlation Coefficient)= 0.8621

 The linear regression equation is:
      LOGHEIGHT =  2.820297  +  .4893187 * LOGAREA

 Test of hypothesis to determine significance of relationship:
      H(null): Slope = 0   or  H(null): r = 0    (two-tailed test)
      t = 7.22   with   18 degrees of freedom   p <= .001

      Note: A low p-value implies that the slope does not = 0.
```

Sag River Closures