

Dr. Purdum

ECO\$OFT

P.O. BOX 68602
INDIANAPOLIS, IN 46268



DAVID SCHAEFFER
1716 E. WALNUT ST.
CHATHAM, IL
62629

TEST OF STEPWISE MULTIPLE REGRESSION

INDEX	NAME	MEAN	STD.DEV.
1	--X1-	7.462	5.882
2	--X2-	48.154	15.561
3	--X3-	11.769	6.405
4	--X4	30.000	16.738
DEP. VAR.: --Y--		95.423	15.044

F TO ENTER = 3 , F TO REMOVE = 3 , TOLERANCE = .0010

STEP 1 . VARIABLE 4 : --X4 ENTERED.

DEPENDENT VARIABLE: --Y--

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 11)
--X4	-0.7382	0.1546	22.799
CONSTANT:	117.5679		

STD. ERROR OF EST. = 8.9639
 r SQUARED = .6745
 r = .8213

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	1831.8961	1	1831.8961	22.7985
RESIDUAL	883.8670	11	80.3515	
TOTAL	2715.7630	12		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r^2	TOLERANCE	F TO ENTER
--X1-	0.9154	0.9398	108.2230
--X2-	0.0170	0.0534	0.1725
--X3-	0.8012	0.9991	40.2947

STEP 2 . VARIABLE 1 : --X1- ENTERED.

DEPENDENT VARIABLE: --Y--

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 10)	PARTIAL r^2
--X1-	1.4400	0.1384	108.224	0.9154
--X4	-0.6140	0.0486	159.295	0.9409
CONSTANT:	103.0974			

STD. ERROR OF EST. = 2.7343
 R SQUARED = .9725
 MULTIPLE R = .9861

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	2641.0009	2	1320.5005	176.6270
RESIDUAL	74.7621	10	7.4762	
TOTAL	2715.7630	12		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r^2	TOLERANCE	F TO ENTER
--X2-	0.3583	0.0532	5.0259
--X3-	0.3200	0.2891	4.2358

STEP 3 . VARIABLE 2 : --X2- ENTERED.

DEPENDENT VARIABLE: --Y--

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 9)	PARTIAL r^2
--X1-	1.4519	0.1170	154.008	0.9448
--X2-	0.4161	0.1856	5.026	0.3583
--X4	-0.2365	0.1733	1.863	0.1715
CONSTANT:	71.6483			

STD. ERROR OF EST. = 2.3087
 R SQUARED = .9823
 MULTIPLE R = .9911

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	2667.7903	3	889.2634	166.8317
RESIDUAL	47.9727	9	5.3303	
TOTAL	2715.7630	12		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r^2	TOLERANCE	F TO ENTER
--X3-	0.0023	0.0213	0.0182

STEP 4 . VARIABLE 4 : --X4 REMOVED.

DEPENDENT VARIABLE: --Y--

VAR.	REGRESSION COEFFICIENT	STD. ERROR	F(1, 10)	PARTIAL r^2
--X1-	1.4683	0.1213	146.523	0.9361
--X2-	0.6623	0.0459	208.582	0.9543
CONSTANT:	52.5774			

STD. ERROR OF EST. = 2.4063
 R SQUARED = .9787
 MULTIPLE R = .9893

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO
REGRESSION	2657.8586	2	1328.9293	229.5037
RESIDUAL	57.9045	10	5.7904	
TOTAL	2715.7630	12		

VARIABLES NOT IN EQUATION:

NAME	PARTIAL r^2	TOLERANCE	F TO ENTER
--X3-	0.1691	0.3183	1.8321
--X4	0.1715	0.0528	1.8633

	OBSERVED	CALCULATED	RESIDUAL	-2.0	STANDARDIZED RESIDUALS	0	2.0
1	78.500	80.074	-1.574		*		
2	74.300	73.251	1.049			*	
3	104.300	105.815	-1.515		*		
4	87.600	89.258	-1.658		*		
5	95.900	97.293	-1.393		*		
6	109.200	105.152	4.048				*
7	102.700	104.002	-1.302		*		
8	72.500	74.575	-2.075		*		
9	93.100	91.275	1.825			*	
10	115.900	114.538	1.362			*	
11	83.800	80.536	3.264				*
12	113.300	112.437	0.863			*	
13	109.400	112.293	-2.893		*		

DURBIN-WATSON TEST = 1.9216

Dear David,
 Just wanted you to know we're not sitting on our hands.
 I read your license agreement's comments and thought you'd
 like to see the above. We will be releasing MICROSTAT 2.0 in
 about 3 weeks and it includes stepwise plus several other
 improvements, including: moments about the mean, skewness,
 kurtosis, each file can be declared single or double precision,
 files can be spread over all data drives, smaller code size, no
 more sort for scatterplot plus a few other changes.
 The update will cost \$45.00 plus return of original
 disk. Let us know if you're interested.

Bob Fudman