บรรณานุกรม

การไฟฟ้านครหลวง . กองเศรษฐกิจพลังไฟฟ้า . การตั้งอัตราค่าไฟฟ้า . กรุงเทพมหานคร : กองเศรษฐกิจพลังไฟฟ้า การไฟฟ้านครหลวง , 2519 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2511 . พระนคร : การไฟฟ้านครหลวง , 2512 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2512 . พระนคร : การไฟฟ้านครหลวง , 2513 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2513 . พระนคร : การไฟฟ้านครหลวง , 2514 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2514 . พระนคร : การไฟฟ้านครหลวง , 2515 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2515 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2516 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2516 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2517 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2517 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2518 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2518 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2519 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2519 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2520 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2520 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2521

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2521 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2522 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2522 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2523 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2523 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2524 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2524 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2525 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2525 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2526 .

_____ . งบการเงินและรายงานของผู้สอบบัญชีประจำปี 2526 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2527

_____ . งบประมาณประจำปี 2528 . เล่ม 1 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2527

_____ . แผนปรับปรุงและขยายระบบจำหน่ายพลังไฟฟ้า ฉบับที่ 5 ปีงบประมาณ 2525 - 2529 .. กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2524 .

_____ . พระราชบัญญัติการไฟฟ้านครหลวง พ.ศ.2501 . พระนคร : การไฟฟ้านครหลวง , 2501 .

_____ . รายงานประจำปี 2511 . พระนคร : การไฟฟ้านครหลวง , 2512 .

_____ . รายงานประจำปี 2512 . พระนคร : การไฟฟ้านครหลวง , 2513 .

_____ . รายงานประจำปี 2513 . พระนคร : การไฟฟ้านครหลวง , 2514 .

_____ . รายงานประจำปี 2514 . พระนคร : การไฟฟ้านครหลวง , 2515 .

_____ . รายงานประจำปี 2515 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2516 .

_____ . รายงานประจำปี 2516 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2517 .

_____ . รายงานประจำปี 2517 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2518 .

_____ . รายงานประจำปี 2518 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2519 .

_____ . รายงานประจำปี 2519 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2520 .

_____ . รายงานประจำปี 2520 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2521 .

_____ . รายงานประจำปี 2521 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2522 .

_____ . รายงานประจำปี 2522 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2523 .

_____ . รายงานประจำปี 2523 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2524 .

_____ . รายงานประจำปี 2524 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2525 .

_____ . รายงานประจำปี 2525 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2526 .

_____ . รายงานประจำปี 2526 . กรุงเทพมหานคร : การไฟฟ้านครหลวง , 2527 .

_____ . สำนักแผนงานและโครงการ . งานของการไฟฟ้านครหลวง 2526 . กรุงเทพมหานคร : สำนักแผนงานและโครงการ การไฟฟ้านครหลวง , 2527 .

ฉัตร เชิงดอย . " ความเป็นธรรมถูกย่ำยี หันหน้าปรับทุกข์ ฉัตร เชิงดอย ." แนวหน้า (9 กรกฎาคม 2524) : 5 .

ชัยสิทธิ์ ภูวภิรมย์ขวัญ , บรรณาธิการ . เดลิมิเรอร์ (11 กรกฎาคม 2524) : 16 .

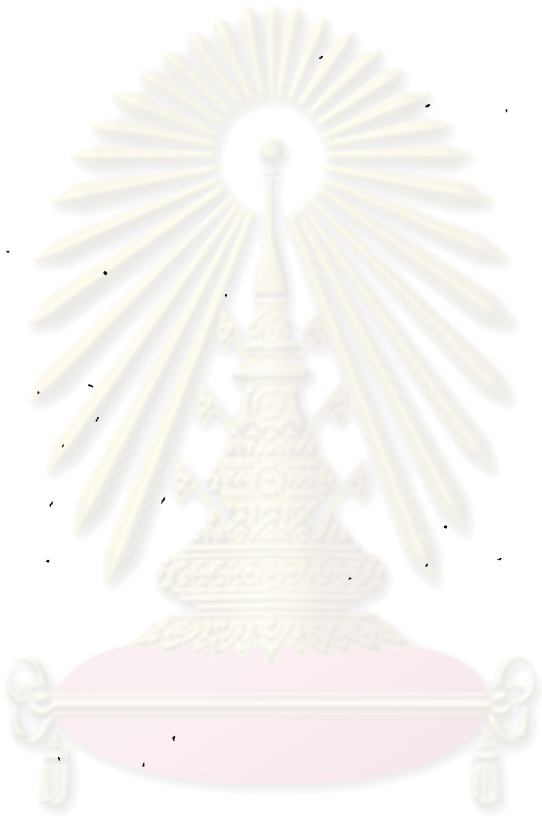
ทองทศ ไวทยานนท์ , บรรณาธิการ . ไทยรัฐ (15 กรกฎาคม 2524) : 16 .

ปัญญา ตันติยวรงค์ . การเงินธุรกิจ . กรุงเทพมหานคร , มิถุนายน 2520 .

สมจิต วัฒนาชยากูล . สถิติวิเคราะห์เบื้องต้น . พิมพ์ครั้งแรก สำนักพิมพ์ประกายพรึก กรุงเทพมหานคร , เมษายน 2524 .

สุชาติ ประสิทธิ์รัฐสินธุ์ และ ลัดดาวัลย์ รอดมณี . เทคนิคการวิเคราะห์ตัวแปรหลายตัวสำหรับการวิจัยทางสังคมศาสตร์ . กรุงเทพมหานคร , สิงหาคม 2527 .

อำนวย อุดมศิลป์ . " วิวัฒนาการของการไฟฟ้าในประเทศไทย ตั้งแต่สมัย ร.5 จนถึงปัจจุบัน . " ข่าวการไฟฟ้า ฉบับพิเศษ (ตุลาคม 2511) : 6 - 21 .



BIBLIOGRAPHY

Croxton, Frederick E., and Cowden, Dudley J. Practical Business Statistics , Third Edition . Englewood Cliffs, N. J: Prentice - Hall, Inc., 1960 .

Kerlinger, F.N., and E. Pedhazen. Multiple Regression in Behavioral Research , New York : Holt , Rinehart and Winston, 1973 .

Kim, Jae - on and Frank J. Kohout. " Multiple Regression Analysis : Subprogram Regression. " In Norman H. Nie, et al : Statistical Package for the Social Science, pp. 320 - 367. New York : Mc.Graw - Hill, 1975.

Load Forecast Working Group for Power Tariff Study Sub - Committee. Load Forecast for Thailand Electric System. Bangkok, September 1984 .

Munasinghe, Mohan, and Warford, Jeremy J. Electricity Pricing: Theory and Case Studies . Maryland : The Johns Hopkins University Press, 1982.

Metropolitan Electricity Authority . Power Economic Division. Forecast of Electric Sale and Purchase . Bangkok, 7 June 1984 .

_____ . Financial Projection . Bangkok , 2 April 1985.

Overall, J.E., and C. Kleet . Applied Multivariate Analysis, New York : Mc.Graw - Hill, 1973

ภาคผนวก

สารบัญภาคผนวก

หน้า

ภาคผนวก

ภาคผนวก ก.

รายละเอียดความสัมพันธ์ระหว่างอัตราค่าไฟฟ้ากับต้นทุนรวมและกำไรสุทธิจากการจำหน่ายกระแสไฟ

```
1SPSS BATCH SYSTEM                                                                       05/15/[illegible]      PAGE   1

 SPSS VERSION H, RELEASE [illegible].1, AUGUST 15, 19[illegible]C.  CPU IS A PERKIN-ELMER 32[illegible]0
0                                        CURRENT DOCUMENTATION FOR THE SPSS BATCH SYSTEM
 ORDER FROM MCGRAW-HILL:  SPSS, 2ND ED. (PRINCIPAL TEXT)       ORDER FROM SPSS INC.:  SPSS STATISTICAL ALGORITHMS
                          SPSS PRIMER (BRIEF INTRO TO SPSS)                           SPSS POCKET GUIDE, RELEASE 9
                          SPSS UPDATE (USE W/SPSS,2ND FOR REL. 7 [illegible])                  KEYWORDS: THE SPSS INC. NEWSLETTER
-DEFAULT SPACE ALLOCATION..      ALLOWS FOR..   315 TRANSFORMATIONS
 WORKSPACE     [illegible] BYTES                       1[illegible] RECODE VALUES + LAG VARIABLES
 TRANSPACE     [illegible] BYTES                        [illegible] IF/COMPUTE OPERATIONS

               1 RUN NAME        311
               2 VARIABLE LIST   Y X1 X2
               3 INPUT FORMAT    FREEFIELD
               4 INPUT MEDIUM    CARD
               5 SUBFILE LIST    A1(5) A2(10)
               6 PRINT FORMATS   ALL(2)
               7 LIST CASES      CASES=15/VARIABLES=Y X1 X2
               8 READ INPUT DATA
1311                                                                                      05/15/85      PAGE   2

 FILE   NONAME    (CREATION DATE = 05/15/85)
 SUBFILE   A1           A2
0     CASE-N           Y         X1         X2
```

CASE-N	Y	X1	X2
1	46.95	[illegible]	17.27
2	[illegible].47	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]
4	41.[illegible]	[illegible]	[illegible]
5	41.71	[illegible]	7.44
6	40.[illegible]	[illegible]	6.49
7	[illegible].42	[illegible]	[illegible]
8	[illegible]	[illegible].11	[illegible]
[illegible]	61.[illegible]	[illegible].12	[illegible].11
10	[illegible].99	[illegible]	[illegible]
11	[illegible]	[illegible]	1[illegible].17
12	[illegible]	[illegible]	[illegible].37
13	101.[illegible]	[illegible]	[illegible].1[illegible]
14	1[illegible]	1[illegible]	11.[illegible]
15	1[illegible]	17[illegible]	1[illegible]
16	1[illegible]4.7[illegible]	1[illegible]1.4[illegible]	1[illegible]

```
1311                                                                                      05/15/[illegible]      PAGE   3

               9 REGRESSION      VARIABLES=Y X1 X2/REGRESSION=Y WITH X1 X2(1)/
              10                 REGRESSION=Y WITH X1 X2(2)
              11 STATISTICS      ALL

 ***** REGRESSION PROBLEM REQUIRES    [illegible] BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****
```

```
1911                                                                                        05/15/85        PAGE    4

 FILE     NONAME     (CREATION DATE = 05/15/85)
 SUBFILE    A1              A2

 VARIABLE              MEAN       STANDARD DEV       CASES

 Y                  80.7677         51.2026            16
 X1                 75.1244         47.2435            16
 X2                  5.9500          3.7079            16
1911                                                                                        05/15/85        PAGE    5

 FILE     NONAME     (CREATION DATE = 05/15/85)
 SUBFILE    A1              A2

0CORRELATION COEFFICIENTS
0A VALUE OF 99.00000 IS PRINTED
 IF A COEFFICIENT CANNOT BE COMPUTED.



                   Y          X1          X2

 Y              1.00000    0.99590    0.71594
 X1             0.99590    1.00000    0.63531
 X2             0.71594    0.63531    1.00000
1911                                                                                        05/15/85        PAGE    6

 FILE     NONAME     (CREATION DATE = 05/15/85)
 SUBFILE    A1              A2
0* * * * * * * * * * * * * * * * * * * * * * * *   M U L T I P L E   R E G R E S S I O N   * * * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                             REGRESSION LIST  1
 DEPENDENT VARIABLE..     Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..     X1

0MULTIPLE R           0.99590                      ANALYSIS OF VARIANCE       DF       SUM OF SQUARES        MEAN SQUARE            F
 R SQUARE             0.99180                      REGRESSION                  1.        39335.67477         39335.67477        6044.5916
 ADJUSTED R SQUARE    0.99124                      RESIDUAL                   14.           [illegible].79825          6.19987
 STANDARD ERROR       2.46795

 ----------------- VARIABLES IN THE EQUATION ------------------            ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE            B            BETA       STD ERROR B        F            VARIABLE       BETA IN      PARTIAL    TOLERANCE         F

 X1              1.037912      0.99590       0.01303       6044.592          X2            0.05937     0.92149     0.53049        73.17
 (CONSTANT)      2.915047


 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0VARIABLE(S) ENTERED ON STEP NUMBER  2..     X2

0MULTIPLE R           [illegible]                  ANALYSIS OF VARIANCE       DF       SUM OF SQUARES        MEAN SQUARE            F
 R SQUARE             [illegible]                  REGRESSION                  2.        39409.37942         19704.68971       19563.8299
 ADJUSTED R SQUARE    [illegible]                  RESIDUAL                   13.           13.09360             1.00720
 STANDARD ERROR       1.00[illegible]

 ----------------- VARIABLES IN THE EQUATION ------------------            ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE            B            BETA       STD ERROR B        F            VARIABLE       BETA IN      PARTIAL    TOLERANCE         F

 X1              [illegible]   [illegible]   0.00731       [illegible]
 X2              [illegible]   0.05937       0.09395       [illegible]
 (CONSTANT)      1.810250
```

MAXIMUM STEP REACHED
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1011 05/15/85 PAGE 7

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.99890	0.99780	0.99720	0.99890	0.9955504	0.95822
X2	0.99983	0.99967	0.00187	0.71594	0.2203027	0.05937
(CONSTANT)					1.613250	

1011 05/15/85 PAGE 8

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X2
X1

0MULTIPLE R	0.99983	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99967	REGRESSION	2.	39409.37942	19704.68971	19563.8299
ADJUSTED R SQUARE	0.99962	RESIDUAL	13.	13.09360	1.00720	
STANDARD ERROR	1.00359					

------------------ VARIABLES IN THE EQUATION ------------------ ------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	B	BETA	STD ERROR B	F	VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.2203027	0.05937	0.02523	76.176					
X1	0.9955504	0.95822	0.00721	19065.072					
(CONSTANT)	1.613250								

ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1011 05/15/85 PAGE 9

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X2	0.71594	0.51258	0.51258	0.71594	0.2203027	0.05937
X1	0.99983	0.99967	0.48709	0.99890	0.9955504	0.95822
(CONSTANT)					1.613250	

1011 05/15/85 PAGE 10

0CPU TIME REQUIRED.. 0.07 SECONDS

12 RUN SUBFILES EACH
13 REGRESSION VARIABLES=Y X1 X2/REGRESSION=Y WITH X1 X2(1)/
14 REGRESSION=Y WITH X1 X2(2)
15 STATISTICS ALL

***** REGRESSION PROBLEM REQUIRES 336 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****

1Q11 05/15/85 PAGE 11

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1

VARIABLE	MEAN	STANDARD DEV	CASES
Y	45.9000	3.1551	6
X1	35.1500	1.5075	6
X2	3.5000	2.4457	6

1Q11 05/15/85 PAGE 12

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1

0CORRELATION COEFFICIENTS
0A VALUE OF 99.00000 IS PRINTED
IF A COEFFICIENT CANNOT BE COMPUTED.

	Y	X1	X2
Y	1.00000	0.65567	0.92170
X1	0.65567	1.00000	0.35368
X2	0.92170	0.35368	1.00000

1Q11 05/15/85 PAGE 13

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X2

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.92170		REGRESSION	1.	42.29021	42.29021	22.6093
R SQUARE	0.84[illegible]		RESIDUAL	4.	7.48189	1.87047	
ADJUSTED R SQUARE	0.81213						
STANDARD ERROR	1.[illegible]						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X2	1.189117	0.92170	0.25008	22.609
(CONSTANT)	35.45377			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X1	0.41451	1.00000	0.87491	99999.99

* *
0VARIABLE(S) ENTERED ON STEP NUMBER 2.. X1

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	1.00000		REGRESSION	2.	49.77210	24.88605	61577161 20142.7425
R SQUARE	1.00000		RESIDUAL	3.	0.00000	0.00000	
ADJUSTED R SQUARE	1.00000						
STANDARD ERROR	0.00000						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X2	0.9999998	0.77510	0.00000	************
X1	1.000001	0.41471	0.00000	************
(CONSTANT)	-0.32622[illegible]E-04			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1011 05/15/85 PAGE 14

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X2	0.92178	0.84968	0.84968	0.92178	0.9999996	0.77518
X1	1.00000	1.00000	0.15032	0.63607	1.000001	0.41451
(CONSTANT)					-0.3262226E-04	

1011 05/15/85 PAGE 15

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X2
X1

0MULTIPLE R	1.00000	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	1.00000	REGRESSION	2.	49.77210	24.88605	6157716120142.7425
ADJUSTED R SQUARE	1.00000	RESIDUAL	7.	0.00000	0.00000	
STANDARD ERROR	0.00000					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X2	0.9999996	0.77518	0.00000	************
X1	1.000001	0.41451	0.00000	************
(CONSTANT)	-0.3262226E-04			

------------- VARIABLES NOT IN THE EQUATION ------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1011 05/15/85 PAGE 16

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X2	0.92178	0.84968	0.84968	0.92178	0.9999996	0.77518
X1	1.00000	1.00000	0.15032	0.63607	1.000001	0.41451
(CONSTANT)					-0.3262226E-04	

1011 05/15/85 PAGE 17

FILE NONAME (CREATION DATE = 05/15/85)
SUBFILE A1

VARIABLE	MEAN	STANDARD DEV	CASES
Y	102.0000	[illegible]	10
X1	[illegible]	[illegible]	10
X2	[illegible]	[illegible]	10

```
1011                                                                    05/15/85        PAGE   18

 FILE    NONAME    (CREATION DATE = 05/15/85)
 SUBFILE    X2

0CORRELATION COEFFICIENTS
0A VALUE OF 99.00000 IS PRINTED
 IF A COEFFICIENT CANNOT BE COMPUTED.


                    Y          X1          X2

 Y             1.00000    0.99980    0.90572
 X1            0.99980    1.00000    0.89897
 X2            0.90572    0.89897    1.00000
1011                                                                    05/15/85        PAGE   19

 FILE    NONAME    (CREATION DATE = 05/15/85)
 SUBFILE    X2
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                       REGRESSION LIST  1
 DEPENDENT VARIABLE..    Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..    X1

0MULTIPLE R           0.99960                  ANALYSIS OF VARIANCE     DF      SUM OF SQUARES      MEAN SQUARE            F
 R SQUARE             0.99919                  REGRESSION               1.        26324.22853       26324.22853       9905.0981
 ADJUSTED R SQUARE    0.99909                  RESIDUAL                 8.           21.26115           2.65764
 STANDARD ERROR       1.63023

 ------------------ VARIABLES IN THE EQUATION ------------------        ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE            B           BETA     STD ERROR B         F           VARIABLE      BETA IN     PARTIAL    TOLERANCE        F

 X1              1.061232      0.99960     0.01066      9905.098          X2            0.04707     0.73232     0.19562        8.12
 (CONSTANT)      2.774497


 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0VARIABLE(S) ENTERED ON STEP NUMBER  2..    X2

0MULTIPLE R           0.99981                  ANALYSIS OF VARIANCE     DF      SUM OF SQUARES      MEAN SQUARE            F
 R SQUARE             0.99963                  REGRESSION               2.        26335.64625       13167.82312       9364.2555
 ADJUSTED R SQUARE    0.99953                  RESIDUAL                 7.            9.84326           1.40618
 STANDARD ERROR       1.18583

 ------------------ VARIABLES IN THE EQUATION ------------------        ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE            B           BETA     STD ERROR B         F           VARIABLE      BETA IN     PARTIAL    TOLERANCE        F

 X1              1.010403      0.95773     0.01774      [illegible]
 X2              0.5737432     0.04737     0.20209      [illegible]
 (CONSTANT)      1.791771
```


145

```
 MAXIMUM STEP REACHED
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1011                                                                          05/15/85          PAGE   20

 FILE    NONAME    (CREATION DATE = 05/15/85)
 SUBFILE   AL
0* * * * * * * * * * * * * * * * * * * * * * * * *   M U L T I P L E    R E G R E S S I O N   * * * * * * * * * * * * * *     VARIABLE LIST  1
                                                                                                                           REGRESSION LIST  1
 DEPENDENT VARIABLE..     Y
0                                                         SUMMARY TABLE

 VARIABLE                                          MULTIPLE R   R SQUARE   RSQ CHANGE   SIMPLE R           B                  BETA

 X1                                                 0.99960     0.99919    0.99919     0.99960       1.016405             0.95738
 X2                                                 0.99981     0.99962    0.00043     0.90572       0.5757432            0.04707
 (CONSTANT)                                                                                          1.791778
1011                                                                          05/15/85          PAGE   21

 FILE    NONAME    (CREATION DATE = 05/15/85)
 SUBFILE   AL
0* * * * * * * * * * * * * * * * * * * * * * * * *   M U L T I P L E    R E G R E S S I O N   * * * * * * * * * * * * * *     VARIABLE LIST  1
                                                                                                                           REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..     X2
                                             X1

0MULTIPLE R           0.99981          ANALYSIS OF VARIANCE       DF       SUM OF SQUARES        MEAN SQUARE            F
 R SQUARE             0.99962          REGRESSION                  2.       26335.64623        13167.82312       9364.2555
 ADJUSTED R SQUARE    0.99952          RESIDUAL                    7.           9.84326            1.40618
 STANDARD ERROR       1.18582

 ------------------ VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE              B           BETA       STD ERROR B        F        VARIABLE        BETA IN      PARTIAL    TOLERANCE        F

 X2               0.5757432      0.04707      0.27233        [illegible]
 X1               1.016405       0.95738      0.01724        [illegible]
 (CONSTANT)       1.791778

 ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1011                                                                          05/15/85          PAGE   22

 FILE    NONAME    (CREATION DATE = 05/15/85)
 SUBFILE   AL
0* * * * * * * * * * * * * * * * * * * * * * * * *   M U L T I P L E    R E G R E S S I O N   * * * * * * * * * * * * * *     VARIABLE LIST  1
                                                                                                                           REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0                                                         SUMMARY TABLE

 VARIABLE                                          MULTIPLE R   R SQUARE   RSQ CHANGE   SIMPLE R           B                  BETA

 X2                                                 0.90572     0.82033    0.82033     0.90572       0.5757432            0.04707
 X1                                                 0.99981     0.99962    0.17930     0.99960       1.016405             0.95738
 (CONSTANT)                                                                                          1.791778
1011                                                                          05/15/85          PAGE   23

0CPU TIME REQUIRED..     1.29 SECONDS


0            10 FINISH             (SPSS GENERATED)
         NORMAL END OF JOB.
            10 CONTROL CARDS WERE PROCESSED.
             0 ERRORS WERE DETECTED.
```

ภาคผนวก ข.

รายละเอียดความสัมพันธ์ระหว่างอัตราค่าไฟฟ้ากับต้นทุนในการจำหน่ายกระแสไฟแต่ละประเภทและกำไรสุทธิจากการจำหน่ายกระแสไฟ

```
1SPSS BATCH SYSTEM                                                              03/11/85        PAGE    1

 SPSS VERSION H, RELEASE 8.1, AUGUST 15, 1980.  CPU IS A PERKIN-ELMER 3230
0                    CURRENT DOCUMENTATION FOR THE SPSS BATCH SYSTEM
 ORDER FROM MCGRAW-HILL:  SPSS, 2ND ED. (PRINCIPAL TEXT)        ORDER FROM SPSS INC.:  SPSS STATISTICAL ALGORITHMS
                          SPSS PRIMER (BRIEF INTRO TO SPSS)                            SPSS POCKET GUIDE, RELEASE &
                          SPSS UPDATE (USE W/SPSS,2ND FOR REL. 7 & 8)                  KEYWORDS: THE SPSS INC. NEWSLETTER
-DEFAULT SPACE ALLOCATION..      ALLOWS FOR..    315 TRANSFORMATIONS
 WORKSPACE     230893 BYTES                    1262 RECODE VALUES + LAG VARIABLES
 TRANSPACE      31552 BYTES                    5049 IF/COMPUTE OPERATIONS

                  1 RUN NAME        XX2
                  2 VARIABLE LIST   Y X1 TO X6
                  3 INPUT FORMAT    FREEFIELD
                  4 INPUT MEDIUM    DISK
                  5 SUBFILE LIST    G1(6) G2(10)
                  6 LIST CASES      CASES=16/VARIABLES=Y TO X6
                  7 REGRESSION      VARIABLES=Y TO X6/
                  8                 REGRESSION=Y WITH X1 TO X6(2)/
                  9                 REGRESSION=Y WITH X1 TO X6(1)
                 10 STATISTICS      ALL

  ***** REGRESSION PROBLEM REQUIRES   1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****

1XX2                                                                            03/11/85        PAGE    2

 FILE   NONAME    (CREATION DATE = 03/11/85)
 SUBFILE   G1        G2
0    CASE-N          Y          X1          X2          X3          X4          X5          X6

           1        49.         29.         [illegible]  1.          1.          2.         13.
           2        45.         29.         [illegible]  1.          1.          2.          8.
           3        45.         29.         [illegible]  1.          1.          2.         10.
           4        42.         28.         [illegible]  1.          1.          2.          8.
           5        [illegible] [illegible] [illegible]  1.          1.          2.          7.
           6        [illegible] [illegible] [illegible]  1.          2.          1.          6.
           7        [illegible] [illegible] [illegible]  1.          2.          2.          5.
           8        59.         46.         [illegible]  1.          3.          2.          5.
           9        61.         46.         [illegible]  1.          3.          2.          4.
          10        64.         50.         [illegible]  1.          3.          2.          5.
          11        72.         60.         [illegible]  1.          3.          2.         10.
          12        79.         60.         [illegible]  2.          3.          2.          9.
          13        [illegible] 61.         [illegible]  [illegible] 4.          2.          9.
          14        [illegible] [illegible] [illegible]  [illegible] 4.          2.         11.
          15        [illegible] [illegible] [illegible]  3.          5.          2.         13.
          16        [illegible] [illegible] [illegible]  3.          6.          2.         13.
```

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1 G2

VARIABLE	MEAN	STANDARD DEV	CASES
Y	80.7675	51.2656	16
X1	62.7144	45.9363	16
X2	2.9031	1.2205	16
X3	1.3719	0.6525	16
X4	2.8231	1.4156	16
X5	2.1950	0.5725	16
X6	8.6431	3.0443	16

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1 G2

0CORRELATION COEFFICIENTS
0A VALUE OF 99.00000 IS PRINTED
IF A COEFFICIENT CANNOT BE COMPUTED.

	Y	X1	X2	X3	X4	X5	X6
Y	1.00000	0.99883	0.96941	0.96178	0.92823	0.88605	0.64929
X1	0.99883	1.00000	0.97006	0.96410	0.93160	0.87119	0.61509
X2	0.96941	0.97006	1.00000	0.99733	0.98011	0.81260	0.54375
X3	0.96178	0.96410	0.99733	1.00000	0.98155	0.77916	0.51461
X4	0.92823	0.93160	0.98011	0.98155	1.00000	0.73728	0.45615
X5	0.88605	0.87119	0.81260	0.77916	0.73728	1.00000	0.79180
X6	0.64929	0.61509	0.54375	0.51461	0.45615	0.79180	1.00000

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1 G2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

		ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.99994					
R SQUARE	0.99988	REGRESSION	6.	39417.59474	6569.59912	12120.3465
ADJUSTED R SQUARE	0.99979	RESIDUAL	9.	4.87828	0.54203	
STANDARD ERROR	0.73623					

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X6	0.9369543	0.05564	0.10906	73.806
X1	0.9900079	0.93731	0.02350	1775.139
X2	-2.6221981	-0.06242	3.85505	0.463
X3	-0.5706586	-0.00726	6.65118	0.007
X4	0.5492425	0.00964	0.80856	0.187
X5	1.466274	0.01637	1.37669	1.134
(CONSTANT)	-0.5030720			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

```
 ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1XX2                                                          03/11/85        PAGE     6

 FILE   NONAME   (CREATION DATE = 03/11/85)
 SUBFILE   G1          G2
0* * * * * * * * * * * * * * * * * * * * M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                            REGRESSION LIST  1
 DEPENDENT VARIABLE..     Y
0
                                        SUMMARY TABLE
 VARIABLE                          MULTIPLE R  R SQUARE  RSQ CHANGE   SIMPLE R          B                  BETA

 X6                                  0.64929    0.42158    0.42158    0.64929     0.9369548              0.05564
 X1                                  0.99981    0.99962    0.57804    0.99883     0.9908073              0.88781
 X2                                  0.99992    0.99984    0.00022    0.96941     2.6211981              0.06242
 X3                                  0.99993    0.99986    0.00002    0.96178    -0.5706588             -0.00726
 X4                                  0.99995    0.99986    0.00000    0.92823     0.3482253              0.00964
 X5                                  0.99994    0.99988    0.00002    0.38605     1.4662274              0.01637
 (CONSTANT)                                                                        -0.5020720
1XX2                                                          03/11/85        PAGE     7

 FILE   NONAME   (CREATION DATE = 03/11/85)
 SUBFILE   G1          G2
0* * * * * * * * * * * * * * * * * * * * M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                            REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..     X1

0MULTIPLE R            0.99883                ANALYSIS OF VARIANCE    DF      SUM OF SQUARES        MEAN SQUARE          F
 R SQUARE              0.99766                REGRESSION               1.       39330.07984        39330.07984     5959.5428
 ADJUSTED R SQUARE     0.99742                RESIDUAL                14.          92.39318            6.59951
 STANDARD ERROR        2.56895

 ---------------- VARIABLES IN THE EQUATION ----------------      ------------ VARIABLES NOT IN THE EQUATION ------------

 VARIABLE           B          BETA     STD ERROR B        F      VARIABLE      BETA IN     PARTIAL    TOLERANCE        F

 X1           1.114706       0.99883       0.01444    5959.543   X2             0.00832     0.04176      0.05899     0.02
 (CONSTANT)   10.85940                                           X3            -0.01685    -0.09244      0.07051     0.11
                                                                 X4            -0.01726    -0.12963      0.13212     0.22
                                                                 X5             0.06589     0.66817      0.24103    10.48
                                                                 X6             0.05617     0.91475      0.62166    66.64

 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0VARIABLE(S) ENTERED ON STEP NUMBER  2..     X6

0MULTIPLE R            0.99981                ANALYSIS OF VARIANCE    DF      SUM OF SQUARES        MEAN SQUARE          F
 R SQUARE              0.99962                REGRESSION               2.       39407.39138        19703.69569    16984.1055
 ADJUSTED R SQUARE     0.99956                RESIDUAL                13.          15.08163            1.16013
 STANDARD ERROR        1.07709

 ---------------- VARIABLES IN THE EQUATION ----------------      ------------ VARIABLES NOT IN THE EQUATION ------------

 VARIABLE           B          BETA     STD ERROR B        F      VARIABLE      BETA IN     PARTIAL    TOLERANCE        F

 X1           1.076131       0.96429       0.00768   19642.564   X2             0.06358     0.75873      0.05448    16.28
 X6           0.9458266      0.05617       0.11586      66.641   X3             0.05304     0.56768      0.06062     9.65
 (CONSTANT)   5.102482                                           X4             0.03883     0.65976      0.11015     9.25
                                                                 X5             0.01110     0.20900      0.13566     0.54
```

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1 G2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X2

0MULTIPLE R	0.99992	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99984	REGRESSION	3.	39416.07339	13138.69113	24636.4736
ADJUSTED R SQUARE	0.99980	RESIDUAL	12.	6.39963	0.53330	
STANDARD ERROR	0.73028					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.003604	0.89928	0.01872	2874.582
X6	1.036984	0.06158	0.03174	160.945
X2	2.670525	0.06353	0.66189	16.280
(CONSTANT)	1.111234			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	-0.07257	-0.37115	0.00425	1.75
X4	0.00199	0.02667	0.02910	0.00
X5	0.01637	0.46967	0.13355	3.11

* *
0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X5

0MULTIPLE R	0.99994	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99987	REGRESSION	4.	39417.48507	9854.37127	21732.0049
ADJUSTED R SQUARE	0.99983	RESIDUAL	11.	4.98795	0.45345	
STANDARD ERROR	0.67339					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.9886372	0.88536	0.01923	2642.492
X6	0.9280765	0.05511	0.09742	90.753
X2	2.305357	0.06680	0.61512	20.307
X5	1.466381	0.01637	0.83136	3.113
(CONSTANT)	-0.6213006			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	-0.01058	-0.04140	0.00194	0.01
X4	0.00982	0.14556	0.02781	0.21

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1 G2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 5.. X4

0MULTIPLE R	0.99994	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99988	REGRESSION	5.	39417.59075	7883.51815	16147.2531
ADJUSTED R SQUARE	0.99981	RESIDUAL	10.	4.38227	0.43823	
STANDARD ERROR	0.69873					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.9899442	0.88704	0.02015	2412.941
X6	0.9355662	0.05556	0.10236	83.536
X2	2.310323	0.05501	1.24077	3.469
X5	1.555330	0.01734	0.83246	3.099
X4	0.3555432	0.00932	0.76421	0.216
(CONSTANT)	-0.5244397			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	-0.00726	-0.02859	0.00192	0.00

```
 F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1XX2                                                                                    03/11/85        PAGE   10

 FILE   NONAME   (CREATION DATE = 03/11/85)
 SUBFILE  G1        G2
0* * * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                   REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0                                                                  SUMMARY TABLE
```

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.99883	0.99766	0.99766	0.99883	0.9899442	0.88704
X6	0.99981	0.99962	0.00196	0.64929	0.9355662	0.05556
X2	0.99992	0.99984	0.00022	0.96941	2.310825	0.05501
X5	0.99994	0.99987	0.00004	0.88605	1.553380	0.01734
X4	0.99994	0.99988	0.00000	0.92823	0.3555482	0.00982
(CONSTANT)					-0.5244897	

```
1XX2                                                                                    03/11/85        PAGE   11

0CPU TIME REQUIRED..     2.13 SECONDS

                    11 RUN SUBFILES     EACH
                    12 REGRESSION       VARIABLES=Y TO X6/
                    13                  REGRESSION=Y WITH X1 TO X6(2)/
                    14                  REGRESSION=Y WITH X1 TO X6(1)
                    15 STATISTICS       ALL

 ***** REGRESSION PROBLEM REQUIRES    1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****

1XX2                                                                                    03/11/85        PAGE   12

 FILE   NONAME   (CREATION DATE = 03/11/85)
 SUBFILE   G1
```

VARIABLE	MEAN	STANDARD DEV	CASES
Y	43.9300	3.1551	6
X1	26.5767	0.4355	6
X2	1.3500	0.0400	6
X3	0.7883	0.0496	6
X4	1.4733	0.1091	6
X5	2.0050	0.3233	6
X6	3.8000	2.4437	6

1XX2 03/11/85 PAGE 13

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1

0CORRELATION COEFFICIENTS
0A VALUE OF 99.00000 IS PRINTED
IF A COEFFICIENT CANNOT BE COMPUTED.

	Y	X1	X2	X3	X4	X5	X6
Y	1.00000	0.93929	0.53786	-0.31935	-0.47898	0.90762	0.92178
X1	0.93929	1.00000	0.44316	-0.52009	-0.59103	0.93188	0.89709
X2	0.53786	0.44316	1.00000	0.28246	-0.36199	0.38357	0.29725
X3	-0.31935	-0.52009	0.28246	1.00000	0.72973	-0.62472	-0.29829
X4	-0.47893	-0.59103	-0.36199	0.72973	1.00000	-0.75293	-0.28186
X5	0.90762	0.93188	0.38357	-0.62472	-0.75293	1.00000	0.83667
X6	0.92178	0.89709	0.29725	-0.29829	-0.28186	0.83667	1.00000

1XX2 03/11/85 PAGE 14

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y

0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

****** WARNING ***** X5 HAS TOLERANCE 0.00000. IT HAS BEEN DROPPED. THE SOLUTION IS NOT UNIQUE.

0MULTIPLE R 1.00000
R SQUARE 1.00000
ADJUSTED R SQUARE 0.00000
STANDARD ERROR 0.00000

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	5.	49.77210	9.95442	99999.9999
RESIDUAL	0.	0.00000	0.00000	

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X6	3.805719	2.95012	0.00000	99999.999
X1	-29.74171	-4.10537	0.00000	99999.999
X2	274.9279	5.48554	0.00000	99999.999
X3	-267.7537	-4.20630	0.00000	99999.999
X4	65.26962	2.25735	0.00000	99999.999
(CONSTANT)	466.6573			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X5	999999.99999	99999.99999	0.00000	99999.99

```
 F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1XX2                                                                    03/11/85        PAGE   15

 FILE    NONAME    (CREATION DATE = 03/11/85)
 SUBFILE   G1
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                    REGRESSION LIST  1
 DEPENDENT VARIABLE..     Y
0                                                SUMMARY TABLE

 VARIABLE                                    MULTIPLE R  R SQUARE  RSQ CHANGE   SIMPLE R         B                    BETA

 X6                                           0.92178    0.84968   0.84968     0.92178      3.805719               2.95012
 X1                                           0.95622    0.91436   0.06469     0.93929    -29.74171               -4.10537
 X2                                           0.97436    0.94937   0.03501     0.53786    274.9279                 3.48554
 X3                                           0.97822    0.95692   0.00754    -0.31935   -267.7537                -4.20630
 X4                                           1.00000    1.00000   0.04308    -0.47898     65.26962                2.25735
 (CONSTANT)                                                                               466.6573
1XX2                                                                    03/11/85        PAGE   16

 FILE    NONAME    (CREATION DATE = 03/11/85)
 SUBFILE   G1
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                    REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..     X1

0MULTIPLE R           0.93929                ANALYSIS OF VARIANCE     DF       SUM OF SQUARES       MEAN SQUARE          F
 R SQUARE             0.88227                REGRESSION               1.            43.91264          43.91264        29.9772
 ADJUSTED R SQUARE    0.85284                RESIDUAL                 4.             5.85946           1.46486
 STANDARD ERROR       1.21032

 ----------------- VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION ------------

 VARIABLE              B            BETA      STD ERROR B       F        VARIABLE      BETA IN     PARTIAL   TOLERANCE         F

 X1               6.804798        0.93929       1.24285     29.977       X2            0.15132     0.39535    0.80361        0.55
 (CONSTANT)    -150.5284                                                 X3            0.23189     0.57725    0.72951        1.49
                                                                         X4            0.11706     0.27521    0.65069        0.24
                                                                         X5            0.24549     0.25955    0.13160        0.21
                                                                         X6            0.40541     0.52208    0.19523        1.12

 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0VARIABLE(S) ENTERED ON STEP NUMBER  2..     X3

0MULTIPLE R           0.95995                ANALYSIS OF VARIANCE     DF       SUM OF SQUARES       MEAN SQUARE          F
 R SQUARE             0.92150                REGRESSION               2.            45.86514          22.93257        17.6090
 ADJUSTED R SQUARE    0.86917                RESIDUAL                 3.             3.90696           1.30232
 STANDARD ERROR       1.14119

 ----------------- VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION ------------

 VARIABLE              B            BETA      STD ERROR B       F        VARIABLE      BETA IN     PARTIAL   TOLERANCE         F

 X1               7.678534        1.05990       1.37203     31.320       X2            0.00599     0.01424    0.44294        0.00
 X3              14.76125         0.23189      12.05553      1.499       X4           -0.05359    -0.12191    0.40617        0.03
 (CONSTANT)    -187.1357                                                 X5            0.61868     0.71456    0.10471        2.08
                                                                         X6            0.25655     0.36215    0.15642        0.30
```

1XX2 03/11/85 PAGE 17

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1

0* M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X5

0MULTIPLE R	0.98060	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.96158	REGRESSION	3.	47.86004	15.95335	16.6871
ADJUSTED R SQUARE	0.90396	RESIDUAL	2.	1.91205	0.95603	
STANDARD ERROR	0.97777					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	3.949314	0.54514	2.83667	1.933
X3	22.32203	0.35067	11.57955	3.716
X5	6.058023	0.61868	4.17993	2.087
(CONSTANT)	-98.63165			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	-0.10086	-0.32438	0.39738	0.11
X4	0.19965	0.52552	0.26617	0.38
X6	0.13500	0.26320	0.14602	0.07

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X4

0MULTIPLE R	0.98600	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.97219	REGRESSION	4.	48.38809	12.09702	8.7405
ADJUSTED R SQUARE	0.86097	RESIDUAL	1.	1.38401	1.38401	
STANDARD ERROR	1.17644					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	2.977171	0.41095	3.75845	0.627
X3	17.78561	0.27940	15.74960	1.275
X5	8.290978	0.34955	6.21266	1.781
X4	5.772636	0.19965	9.34562	0.382
(CONSTANT)	-30.29704			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	1.19632	1.00000	0.01943	99999.99
X6	-1.54169	-1.00000	0.01170	99999.99

F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1XX2 03/11/85 PAGE 18

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.93929	0.88227	0.88227	0.93929	2.977171	0.41095
X3	0.95995	0.92150	0.03923	-0.31935	17.78561	0.27940
X5	0.98060	0.96158	0.04008	0.90762	8.290978	0.84953
X4	0.98600	0.97219	0.01061	-0.47898	5.772636	0.19965
(CONSTANT)					-80.29704	

1XX2 03/11/85 PAGE 19

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G2

VARIABLE	MEAN	STANDARD DEV	CASES
Y	102.8700	54.1043	10
X1	83.1970	47.6837	10
X2	3.5550	1.1596	10
X3	1.7220	0.5871	10
X4	3.0330	1.1790	10
X5	2.3090	0.6703	10
X6	3.5490	3.4781	10

1XX2 03/11/85 PAGE 20

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G2

0CORRELATION COEFFICIENTS
0A VALUE OF 99.00000 IS PRINTED
IF A COEFFICIENT CANNOT BE COMPUTED.

	Y	X1	X2	X3	X4	X5	X6
Y	1.00000	0.99935	0.96780	0.96671	0.93007	0.97464	0.90925
X1	0.99935	1.00000	0.96227	0.96121	0.92199	0.97552	0.89567
X2	0.96730	0.96227	1.00000	0.99782	0.97270	0.95535	0.88989
X3	0.96671	0.96121	0.99782	1.00000	0.96563	0.94560	0.89184
X4	0.93007	0.92199	0.97270	0.96563	1.00000	0.93223	0.86428
X5	0.97464	0.97552	0.95535	0.94560	0.93223	1.00000	0.84220
X6	0.90925	0.89567	0.88989	0.89184	0.86428	0.84220	1.00000

1XX2 03/11/85 PAGE 21

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

0MULTIPLE R	1.00000	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	1.00000	REGRESSION	6.	26345.48563	4390.91427	3417873.6053
ADJUSTED R SQUARE	1.00000	RESIDUAL	3.	0.00385	0.00128	
STANDARD ERROR	0.03584					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X6	1.019221	0.06552	0.00902	12769.666
X1	0.9936406	0.87572	0.00182	298150.292
X2	0.6672593	0.01405	0.23246	8.239
X3	1.641477	0.01781	0.40039	16.807
X4	0.9200757	0.02005	0.04836	361.946
X5	1.308659	0.01621	0.11998	118.970
(CONSTANT)	-0.6095000E-01			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.

1XX2 03/11/85 PAGE 22

FILE NONAME (CREATION DATE = 03/11/85)
SUBFILE G2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.90925	0.82674	0.82674	0.90925	1.019221	0.06552
X1	0.99986	0.99972	0.17298	0.99935	0.9936406	0.87572
X2	0.99998	0.99997	0.00025	0.96780	0.6672593	0.01405
X3	0.99999	0.99997	0.00001	0.96671	1.641477	0.01781
X4	1.00000	0.99999	0.00002	0.93007	0.9200757	0.02005
X5	1.00000	1.00000	0.00001	0.97464	1.308659	0.01621
(CONSTANT)					-0.6095000E-01	

```
1XX2                                                                              03/11/85        PAGE   23

 FILE     NONAME    (CREATION DATE = 03/11/85)
 SUBFILE   G2
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                      REGRESSION LIST  2
 DEPENDENT VARIABLE..    Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..    X1

0MULTIPLE R           0.99935                    ANALYSIS OF VARIANCE    DF      SUM OF SQUARES       MEAN SQUARE            F
 R SQUARE             0.99871                    REGRESSION               1.       26311.40751       26311.40751      6176.0287
 ADJUSTED R SQUARE    0.99854                    RESIDUAL                 8.          34.08198           4.26025
 STANDARD ERROR       2.06404

 ----------------- VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE          B            BETA       STD ERROR B        F         VARIABLE       BETA IN      PARTIAL    TOLERANCE          F

 X1            1.133917        0.99935      0.01443      6176.029       X2             0.08317      0.62925    0.07404          4.58
 (CONSTANT)    8.531524                                                 X3             0.08051      0.61743    0.07608          4.31
                                                                        X4             0.05786      0.62288    0.14993          4.43
                                                                        X5            -0.00516     -0.03154    0.04836          0.00
                                                                        X6             0.07161      0.88545    0.19778         25.41

 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0VARIABLE(S) ENTERED ON STEP NUMBER  2..    X6

0MULTIPLE R           0.99986                    ANALYSIS OF VARIANCE    DF      SUM OF SQUARES       MEAN SQUARE            F
 R SQUARE             0.99972                    REGRESSION               2.       26338.12826       13169.06413      12522.8360
 ADJUSTED R SQUARE    0.99964                    RESIDUAL                 7.           7.36123           1.05160
 STANDARD ERROR       1.02548

 ----------------- VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE          B            BETA       STD ERROR B        F         VARIABLE       BETA IN      PARTIAL    TOLERANCE          F

 X1            1.061141        0.93521      0.01612      4333.694       X2             0.05925      0.93832    0.07007         44.18
 X6            1.113270        0.07161      0.22099        25.410       X3             0.05490      0.87665    0.07124         19.91
 (CONSTANT)    5.062949                                                 X4             0.04156      0.93827    0.14244         44.14
1XX2                                                                    X5             0.04636      0.57731    0.04334          2.99
                                                                               03/11/85        PAGE   24
 FILE     NONAME    (CREATION DATE = 03/11/85)
 SUBFILE   G2
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                      REGRESSION LIST  2
 DEPENDENT VARIABLE..    Y
0VARIABLE(S) ENTERED ON STEP NUMBER  3..    X2

0MULTIPLE R           0.99998                    ANALYSIS OF VARIANCE    DF      SUM OF SQUARES       MEAN SQUARE            F
 R SQUARE             0.99997                    REGRESSION               3.       26344.60940        8781.53647      59868.1352
 ADJUSTED R SQUARE    0.99995                    RESIDUAL                 6.           0.88009           0.14668
 STANDARD ERROR       0.38299

 ----------------- VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE          B            BETA       STD ERROR B        F         VARIABLE       BETA IN      PARTIAL    TOLERANCE          F

 X1            1.004979        0.88572      0.01037      9384.290       X3            -0.03435     -0.38909    0.00429          0.89
 X6            0.9333848       0.06332      0.08484       134.351       X4             0.02307      0.90129    0.05100         21.64
 X2            2.812977        0.05925      0.42318        44.185       X5             0.02051      0.68233    0.03698          4.35
 (CONSTANT)    0.9078830
```

```
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0VARIABLE(S) ENTERED ON STEP NUMBER  4..     X4

0MULTIPLE R           1.00000                 ANALYSIS OF VARIANCE    DF      SUM OF SQUARES       MEAN SQUARE            F
 R SQUARE             0.99999                 REGRESSION              4.         26345.32431        6586.33108      199379.3373
 ADJUSTED R SQUARE    0.99999                 RESIDUAL                5.             0.16517           0.03303
 STANDARD ERROR       0.18175

 ----------------- VARIABLES IN THE EQUATION ------------------           ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE              B           BETA       STD ERROR B        F        VARIABLE      BETA IN     PARTIAL   TOLERANCE          F

 X1               1.010385       0.89048       0.00506    39896.370      X3          -0.00917    -0.22655    0.00382         0.21
 X6               0.9716496      0.06246       0.04034      580.127      X5           0.01274     0.91975    0.03266        21.96
 X2               1.562030       0.03290       0.33562       21.661
 X4               1.058520       0.02307       0.22754       21.642
 (CONSTANT)       1.135017
1XX2                                                                                  03/11/85         PAGE   25

 FILE   NONAME   (CREATION DATE = 03/11/85)
 SUBFILE   G2
0* * * * * * * * * * * * * * * * * * * * * * *   M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                                      REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0VARIABLE(S) ENTERED ON STEP NUMBER  5..     X5

0MULTIPLE R           1.00000                 ANALYSIS OF VARIANCE    DF      SUM OF SQUARES       MEAN SQUARE            F
 R SQUARE             1.00000                 REGRESSION              5.         26345.46404        5269.09281      828266.0337
 ADJUSTED R SQUARE    1.00000                 RESIDUAL                4.             0.02545           0.00636
 STANDARD ERROR       0.07976

 ----------------- VARIABLES IN THE EQUATION ------------------           ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE              B           BETA       STD ERROR B        F        VARIABLE      BETA IN     PARTIAL   TOLERANCE          F

 X1               0.9969851      0.87867       0.00362    75862.503      X3           0.01781 99999.99999    0.00258     99999.99
 X6               1.013599       0.06516       0.01984     2610.747
 X2               1.580809       0.03330       0.14734      115.118
 X4               0.8884570      0.01936       0.10624       69.934
 X5               1.023555       0.01274       0.21947       21.964
 (CONSTANT)       0.6771101E-01


 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0VARIABLE(S) ENTERED ON STEP NUMBER  6..     X3

0MULTIPLE R           1.00000                 ANALYSIS OF VARIANCE    DF      SUM OF SQUARES       MEAN SQUARE            F
 R SQUARE             1.00000                 REGRESSION              6.         26345.48563        4390.91427     3417873.6051
 ADJUSTED R SQUARE    1.00000                 RESIDUAL                3.             0.00385           0.00128
 STANDARD ERROR       0.03584

 ----------------- VARIABLES IN THE EQUATION ------------------           ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE              B           BETA       STD ERROR B        F        VARIABLE      BETA IN     PARTIAL   TOLERANCE          F

 X1               0.9936406      0.87572       0.00182   298150.292
 X6               1.019221       0.06552       0.00902    12769.666
 X2               0.6672593      0.01405       0.23246        3.239
 X4               0.9200757      0.02005       0.04836      361.946
 X5               1.308652       0.01621       0.11998      118.970
 X3               1.641477       0.01781       0.40039       16.807
 (CONSTANT)      -0.6095000E-01
```

```
 MAXIMUM STEP REACHED
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1XX2                                                          03/11/85        PAGE   26

 FILE   NONAME   (CREATION DATE = 03/11/85)
 SUBFILE   G2
0* * * * * * * * * * * * * * * * * * * * M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                            REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0                                          SUMMARY TABLE

 VARIABLE                          MULTIPLE R   R SQUARE   RSQ CHANGE   SIMPLE R          B                  BETA

 X1                                  0.99935     0.99871     0.99871     0.99935      0.9936406             0.87572
 X6                                  0.99986     0.99972     0.00101     0.90925       1.019221             0.06552
 X2                                  0.99998     0.99997     0.00025     0.96780      0.6672593             0.01405
 X4                                  1.00000     0.99999     0.00003     0.93007      0.9200757             0.02005
 X5                                  1.00000     1.00000     0.00001     0.97464       1.308659             0.01621
 X3                                  1.00000     1.00000     0.00000     0.96671       1.641477             0.01781
 (CONSTANT)                                                                          -0.6095000E-01
1XX2                                                          03/11/85        PAGE   27

0CPU TIME REQUIRED..     3.32 SECONDS


                16 FINISH
0          NORMAL END OF JOB.
              16 CONTROL CARDS WERE PROCESSED.
               0 ERRORS WERE DETECTED.
```

ภาคผนวก ค.

รายละเอียดความสัมพันธ์ระหว่างการเปลี่ยนแปลงของอัตราค่าไฟฟ้ากับการเปลี่ยนแปลงของต้นทุนในการจำหน่ายกระแสไฟแต่ละประเภท และการเปลี่ยนแปลงของกำไรสุทธิจากการจำหน่ายกระแสไฟในแต่ละปี

```
1SPSS BATCH SYSTEM                                                                                  04/19/85        PAGE    1

 SPSS VERSION H, RELEASE 8.1, AUGUST 15, 1980.  CPU IS A PERKIN-ELMER 3230
0                                         CURRENT DOCUMENTATION FOR THE SPSS BATCH SYSTEM
 ORDER FROM MCGRAW-HILL:   SPSS, 2ND ED. (PRINCIPAL TEXT)         ORDER FROM SPSS INC.:   SPSS STATISTICAL ALGORITHMS
                           SPSS PRIMER (BRIEF INTRO TO SPSS)                              SPSS POCKET GUIDE, RELEASE 8
                           SPSS UPDATE (USE W/SPSS,2ND FOR REL. 7 & 8)                    KEYWORDS: THE SPSS INC. NEWSLETTER
-DEFAULT SPACE ALLOCATION..      ALLOWS FOR..    315 TRANSFORMATIONS
 WORKSPACE     220888 BYTES                     1262 RECODE VALUES + LAG VARIABLES
 TRANSPACE      31552 BYTES                     5049 IF/COMPUTE OPERATIONS

                  1 RUN NAME         Q8
                  2 VARIABLE LIST    Y X1 TO X6
                  3 INPUT FORMAT     FREEFIELD
                  4 SUBFILE LIST     A1(6),A2(10)
                  5 PRINT FORMAT     ALL(2)
                  6 LIST CASES       CASES=16/VARIABLES=Y TO X6
                  7 READ INPUT DATA
1Q8                                                                                                 04/19/85        PAGE    2

 FILE    NONAME    (CREATION DATE = 04/19/35)
 SUBFILE    A1          A2
```

0 CASE-N	Y	X1	X2	X3	X4	X5	X6
1	-1.19	-0.75	-0.13	-0.05	-0.18	-0.39	0.31
2	-3.48	-0.47	0.04	0.01	-0.09	-0.31	-5.23
3	-0.53	0.28	-0.03	0.65	0.06	-0.02	1.78
4	-2.70	-0.56	-0.02	-0.66	-0.05	-0.07	-2.08
5	-0.53	-0.02	-0.07	-0.05	0.09	-0.13	-0.30
6	-1.44	-0.43	0.06	0.15	0.20	-0.45	-0.95
7	9.15	8.76	0.39	0.09	0.68	0.46	-1.34
8	9.84	9.25	0.36	0.26	0.34	-0.15	-0.10
9	1.97	2.35	0.17	0.10	0.17	0.11	-0.94
10	2.76	1.80	-0.05	0.00	-0.02	-0.09	1.12
11	15.41	10.25	0.06	0.02	0.12	0.02	4.94
12	0.00	-0.26	0.67	0.33	0.51	0.05	-1.30
13	22.45	20.52	0.45	0.26	0.39	0.60	0.23
14	62.48	58.85	0.39	0.21	0.30	0.52	2.36
15	20.71	16.89	0.96	0.43	0.72	0.29	1.56
16	-0.26	-2.29	0.20	0.08	1.28	0.18	0.31

```
1Q8                                                                                                 04/19/85        PAGE    3


                  8 REGRESSION       VARIABLES=ALL/REGRESSION=Y WITH X1 TO X6/
                  9                  REGRESSION=Y WITH X1 TO X6(2)

  ***** REGRESSION PROBLEM REQUIRES    1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****
```

108 04/19/85 PAGE 4

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X1

0MULTIPLE R	0.99428	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.98859	REGRESSION	1.	4109.27740	4109.27740	1213.2554
ADJUSTED R SQUARE	0.98778	RESIDUAL	14.	47.41778	3.38698	
STANDARD ERROR	1.84038					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.035283	0.99428	0.03116	1213.255
(CONSTANT)	-0.7475977E-02			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.03795	0.32313	0.82693	1.51
X3	0.02589	0.23599	0.94769	0.76
X4	0.05034	0.46780	0.98492	3.64
X5	0.04542	0.32366	0.57918	1.52
X6	0.09379	0.80069	0.83141	23.22

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 2.. X6

0MULTIPLE R	0.99795	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99591	REGRESSION	2.	4139.67731	2069.83866	1581.1561
ADJUSTED R SQUARE	0.99528	RESIDUAL	13.	17.01787	1.30907	
STANDARD ERROR	1.14414					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.043249	0.95577	0.02124	2411.618
X6	0.7023754	0.09379	0.14575	23.223
(CONSTANT)	0.3024949			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.04818	0.68101	0.81811	10.37
X3	0.00391	0.05748	0.88697	0.04
X4	0.04449	0.68837	0.98003	10.80
X5	0.03930	0.46673	0.57739	3.34

163

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X4

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.99892		REGRESSION	3.	4147.74121	1382.58040	1852.9183
R SQUARE	0.99785		RESIDUAL	12.	8.95396	0.74616	
ADJUSTED R SQUARE	0.99731						
STANDARD ERROR	0.86381						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.038815	0.95171	0.01610	4165.602
X6	0.6768125	0.09038	0.11031	37.642
X4	1.980153	0.04449	0.60234	10.807
(CONSTANT)	-0.2219021			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.02867	0.42612	0.47574	2.44
X3	-0.01081	-0.20962	0.81000	0.50
X5	0.00519	0.06643	0.35308	0.04

$\Delta Y = -0.2219021 + 1.038815(\Delta X_1) + 0.6768125(\Delta X_6) + 1.980153(\Delta X_4)$

* *
0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X2

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.99912		REGRESSION	4.	4149.36706	1037.34176	1557.1198
R SQUARE	0.99824		RESIDUAL	11.	7.32812	0.66619	
ADJUSTED R SQUARE	0.99760						
STANDARD ERROR	0.81621						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.026160	0.94011	0.01723	3546.480
X6	0.7086604	0.09463	0.10621	44.519
X4	1.225871	0.02754	0.74636	2.698
X2	1.581610	0.02867	1.01242	2.441
(CONSTANT)	-0.2523781			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	-0.02351	-0.46104	0.67805	2.69
X5	-0.00024	-0.00340	0.34370	0.00

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 5.. X3

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.99931		REGRESSION	5.	4150.92474	830.18495	1438.6853
R SQUARE	0.99861		RESIDUAL	10.	5.77044	0.57704	
ADJUSTED R SQUARE	0.99792						
STANDARD ERROR	0.75963						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.023061	0.93728	0.01615	4014.146
X6	0.7662051	0.10231	0.10467	53.381
X4	1.193410	0.02681	0.69491	2.949
X2	2.264535	0.04105	1.02985	4.835
X3	-1.398628	-0.02351	0.85127	2.699
(CONSTANT)	-0.2077736			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X5	-0.00411	-0.06416	0.33913	0.03

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 6.. X5

0MULTIPLE R	0.99931	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99862	REGRESSION	6.	4150.94851	691.82475	1083.4838
ADJUSTED R SQUARE	0.99770	RESIDUAL	9.	5.74667	0.63852	
STANDARD ERROR	0.79907					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.025389	0.93941	0.02083	2422.355
X6	0.7679684	0.10255	0.11069	48.134
X4	1.265212	0.02843	0.82026	2.379
X2	2.306144	0.04181	1.10458	4.359
X3	-1.418692	-0.02385	0.90149	2.477
X5	-0.2196474	-0.00411	1.13835	0.037
(CONSTANT)	-0.2443284			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED

0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.

1Q8 04/19/85 PAGE 7

FILE NONAME (CREATION DATE = 04/19/85)

SUBFILE A1 A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1

PEGRESSION LIST 1

DEPENDENT VARIABLE.. Y

0

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.99428	0.98859	0.98859	0.99428	1.025389	0.93941
X6	0.99795	0.99591	0.00731	0.48623	0.7679684	0.10255
X4	0.99892	0.99785	0.00194	0.17167	1.265212	0.02843
X2	0.99912	0.99824	0.00039	0.44502	2.306144	0.04181
X3	0.99931	0.99861	0.00037	0.25194	-1.418692	-0.02385
X5	0.99931	0.99862	0.00001	0.67131	-0.2196474	-0.00411
(CONSTANT)					-0.2443284	

1Q8 04/19/85 PAGE 8

FILE NONAME (CREATION DATE = 04/19/85)

SUBFILE A1 A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1

REGRESSION LIST 2

DEPENDENT VARIABLE.. Y

0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

0MULTIPLE R	0.99931	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99862	REGRESSION	6.	4150.94851	691.82475	1083.4838
ADJUSTED R SQUARE	0.99770	RESIDUAL	9.	5.74667	0.63852	
STANDARD ERROR	0.79907					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X6	0.7679684	0.10255	0.11069	48.134
X1	1.025389	0.93941	0.02083	2422.355
X2	2.306144	0.04181	1.10458	4.359
X3	-1.418692	-0.02385	0.90149	2.477
X4	1.265212	0.02843	0.82026	2.379
X5	-0.2196474	-0.00411	1.13835	0.037
(CONSTANT)	-0.2443284			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

```
 ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q8                                                                                04/19/85        PAGE    9

 FILE    NONAME    (CREATION DATE = 04/19/85)
 SUBFILE   A1        A2
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                     REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0                                                           SUMMARY TABLE
```

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.48623	0.23642	0.23642	0.48623	0.7679684	0.10255
X1	0.99795	0.99591	0.75949	0.99428	1.025389	0.93941
X2	0.99890	0.99780	0.00190	0.44502	2.306144	0.04181
X3	0.99910	0.99820	0.00040	0.25194	-1.418692	-0.02385
X4	0.99931	0.99861	0.00041	0.17167	1.265212	0.02843
X5	0.99931	0.99862	0.00001	0.67131	-0.2196474	-0.00411
(CONSTANT)					-0.2443284	

```
1Q8                                                                                04/19/85        PAGE   10
0CPU TIME REQUIRED..     1.33 SECONDS

                10 RUN SUBFILES     EACH
                11 REGRESSION       VARIABLES=ALL/REGRESSION=Y WITH X1 TO X6/
                12                  REGRESSION=Y WITH X1 TO X6(2)

 ***** REGRESSION PROBLEM REQUIRES    1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****

1Q8                                                                                04/19/85        PAGE   11

 FILE    NONAME    (CREATION DATE = 04/19/85)
 SUBFILE   A1
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                     REGRESSION LIST  1
 DEPENDENT VARIABLE..     Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..     X6

0MULTIPLE R           0.92614                 ANALYSIS OF VARIANCE    DF      SUM OF SQUARES        MEAN SQUARE          F
 R SQUARE             0.85774                 REGRESSION              1.          6.18924             6.18924       24.1176
 ADJUSTED R SQUARE    0.82218                 RESIDUAL                4.          1.02651             0.25663
 STANDARD ERROR       0.50658

 ----------------- VARIABLES IN THE EQUATION ------------------        ------------- VARIABLES NOT IN THE EQUATION ------------
```

VARIABLE	B	BETA	STD ERROR B	F
X6	0.4622993	0.92614	0.09414	24.118
(CONSTANT)	-1.146487			

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X1	0.16810	0.39107	0.76998	0.54
X2	0.00530	0.01178	0.70360	0.00
X3	0.12762	0.29836	0.77749	0.29
X4	0.18292	0.46742	0.92896	0.83
X5	-0.07206	-0.18348	0.92245	0.10

```
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
OVARIABLE(S) ENTERED ON STEP NUMBER  2..     X4

OMULTIPLE R           0.94277                  ANALYSIS OF VARIANCE    DF      SUM OF SQUARES      MEAN SQUARE            F
 R SQUARE             0.88882                  REGRESSION               2.            6.41352          3.20676       11.9918
 ADJUSTED R SQUARE    0.81470                  RESIDUAL                 3.            0.80223          0.26741
 STANDARD ERROR       0.51712

 ----------------- VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE             B            BETA     STD ERROR B        F        VARIABLE      BETA IN     PARTIAL   TOLERANCE          F

 X6           0.4379627         0.87739       0.09970     19.297        X1            0.09040     0.20624     0.57862        0.08
 X4            1.597954         0.18292       1.74486      0.839        X2           -0.55419    -0.77161     0.21552        2.94
 (CONSTANT)   -1.180720                                                 X3            0.07764     0.19708     0.71631        0.06
                                                                        X5           -0.06635    -0.19102     0.92154        0.07
108                                                                           04/19/85         PAGE   12

 FILE   NONAME   (CREATION DATE = 04/19/85)
 SUBFILE   A1
0* * * * * * * * * * * * * * * * * * * * * *   M U L T I P L E   R E G R E S S I O N   * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                                 REGRESSION LIST  1
 DEPENDENT VARIABLE..     Y
OVARIABLE(S) ENTERED ON STEP NUMBER  3..     X2

OMULTIPLE R           0.97725                  ANALYSIS OF VARIANCE    DF      SUM OF SQUARES      MEAN SQUARE            F
 R SQUARE             0.95501                  REGRESSION               3.            6.89115          2.29705       14.1529
 ADJUSTED R SQUARE    0.88754                  RESIDUAL                 2.            0.32460          0.16230
 STANDARD ERROR       0.40287

 ----------------- VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE             B            BETA     STD ERROR B        F        VARIABLE      BETA IN     PARTIAL   TOLERANCE          F

 X6           0.2339119         0.46861       0.14206      2.711        X1            0.10793     0.38658     0.57712        0.17
 X4            5.107191         0.58462       2.45611      4.324        X3            0.27693     0.98033     0.56373       24.66
 X2           -9.501050        -0.55419       5.53844      2.943        X5           -0.07626    -0.34494     0.92031        0.13
 (CONSTANT)   -1.655827

 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
OVARIABLE(S) ENTERED ON STEP NUMBER  4..     X3

OMULTIPLE R           0.99912                  ANALYSIS OF VARIANCE    DF      SUM OF SQUARES      MEAN SQUARE            F
 R SQUARE             0.99825                  REGRESSION               4.            7.20310          1.80078      142.3829
 ADJUSTED R SQUARE    0.99124                  RESIDUAL                 1.            0.01265          0.01265
 STANDARD ERROR       0.11246

 ----------------- VARIABLES IN THE EQUATION ------------------          ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE             B            BETA     STD ERROR B        F        VARIABLE      BETA IN     PARTIAL   TOLERANCE          F

 X6           0.9236819E-01     0.18504       0.04884      3.577        X1           -0.06657    -1.00000     0.39548    99999.99
 X4            5.961775         0.68244       0.70689     71.129        X5           -0.04416    -1.00000     0.89880    99999.99
 X2          -13.49577         -0.78720       1.74278     59.967
 X3           0.7906253         0.27693       0.15919     24.665
 (CONSTANT)   -1.919186
```

F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q8 04/19/85 PAGE 13

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y

0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.92614	0.85774	0.85774	0.92614	0.9236819E-01	0.18504
X4	0.94277	0.88882	0.03108	0.41678	5.961775	0.68244
X2	0.97725	0.95501	0.06619	-0.50049	-13.49577	-0.78720
X3	0.99912	0.99825	0.04323	0.53609	0.7906253	0.27693
(CONSTANT)					-1.919188	

1Q8 04/19/85 PAGE 14

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

****** WARNING ***** X5 HAS TOLERANCE 0.00000. IT HAS BEEN DROPPED. THE SOLUTION IS NOT UNIQUE.

RESIDUAL SUM OF SQUARES IS NEGATIV
TO CONTINUE ABSOLUTE VALUE IS TAKEN
ANALYSIS OF VARIANCE,F,B AND BETA RESULTS ARE MEANINGLESS

		ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
OMULTIPLE R	1.00000	REGRESSION	5.	7.21575	1.44315	99999.9999
R SQUARE	1.00000	RESIDUAL	0.	0.00000	0.00000	
ADJUSTED R SQUARE	0.00000					
STANDARD ERROR	0.00000					

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X6	0.8701882E-01	0.17433	0.00000	99999.999
X1	-0.2097431	-0.06657	0.00000	99999.999
X2	-13.94553	-0.81343	0.00000	99999.999
X3	0.8985126	0.31472	0.00000	99999.999
X4	6.307132	0.72197	0.00000	99999.999
(CONSTANT)	-2.006992			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X5	999999.99999	99999.99999	0.00000	99999.99

F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q8 04/19/85 PAGE 15

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y

0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.92614	0.85774	0.85774	0.92614	0.8701882E-01	0.17433
X1	0.93782	0.87950	0.02176	0.57361	-0.2097431	-0.06657
X2	0.94025	0.88402	0.00452	-0.50049	-13.94553	-0.81343
X3	0.94199	0.88735	0.00333	0.53609	0.8985126	0.31472
X4	1.00000	1.00000	0.11265	0.41678	6.307132	0.72197
(CONSTANT)					-2.006992	

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X1

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.99640		REGRESSION	1.	3155.03822	3155.08822	1105.2702
R SQUARE	0.99281		RESIDUAL	8.	22.83668	2.85459	
ADJUSTED R SQUARE	0.99192						
STANDARD ERROR	1.68955						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.050235	0.99640	0.03159	1105.270
(CONSTANT)	1.205434			

-------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	-0.00066	-0.00759	0.95520	0.00
X3	-0.00713	-0.08130	0.93347	0.04
X4	0.01027	0.11906	0.96546	0.10
X5	-0.01182	-0.11104	0.63397	0.06
X6	0.08299	0.90104	0.84702	30.20

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 2.. X6

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.99932		REGRESSION	2.	3173.62878	1586.81439	2585.5138
R SQUARE	0.99865		RESIDUAL	7.	4.29613	0.61373	
ADJUSTED R SQUARE	0.99826						
STANDARD ERROR	0.78341						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.016021	0.96394	0.01592	4075.300
X6	0.8082042	0.08299	0.14704	30.209
(CONSTANT)	1.084133			

-------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.03134	0.77793	0.83273	9.19
X3	0.02436	0.59749	0.81337	3.33
X4	0.03179	0.82234	0.90462	12.53
X5	0.03181	0.63087	0.53183	3.96

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X4

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.99978		REGRESSION	3.	3176.53402	1058.84467	4567.6449
R SQUARE	0.99956		RESIDUAL	6.	1.39088	0.23181	
ADJUSTED R SQUARE	0.99934						
STANDARD ERROR	0.48147						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.018735	0.96652	0.00981	10780.917
X6	0.8911739	0.09151	0.09336	91.116
X4	1.593551	0.03179	0.45014	12.533
(CONSTANT)	0.2776399			

-------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.02161	0.86533	0.70197	14.90
X3	0.01744	0.73085	0.76843	5.73
X5	0.01640	0.50970	0.42284	1.75

OVARIABLE(S) ENTERED ON STEP NUMBER 4.. X2

OMULTIPLE R	0.99995	
R SQUARE	0.99989	
ADJUSTED R SQUARE	0.99980	
STANDARD ERROR	0.26435	

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	4.	3177.57550	794.39388	11367.9291
RESIDUAL	5.	0.34940	0.06988	

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.009826	0.95806	0.00586	29691.590
X6	0.9497415	0.09753	0.05346	315.647
X4	1.181755	0.02357	0.26918	19.274
X2	1.374078	0.02161	0.35593	14.904
(CONSTANT)	0.4017123E-01			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	-0.01559	-0.45581	0.09393	1.04
X5	0.01598	0.99074	0.42274	212.91

108 04/19/85 PAGE 18

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 5.. X5

OMULTIPLE R	1.00000	
R SQUARE	1.00000	
ADJUSTED R SQUARE	1.00000	
STANDARD ERROR	0.04013	

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	5.	3177.91846	635.58369	394585.5203
RESIDUAL	4.	0.00644	0.00161	

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.9969546	0.94585	0.00125	633149.239
X6	0.9887844	0.10154	0.00855	13387.717
X4	0.9073568	0.01810	0.04499	406.801
X2	1.362052	0.02142	0.05404	635.161
X5	1.155043	0.01598	0.07916	212.917
(CONSTANT)	0.7348419E-01			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	0.00257	0.47339	0.06895	0.86

* *

OVARIABLE(S) ENTERED ON STEP NUMBER 6.. X3

OMULTIPLE R	1.00000	
R SQUARE	1.00000	
ADJUSTED R SQUARE	1.00000	
STANDARD ERROR	0.04082	

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	6.	3177.91991	529.65332	317845.2093
RESIDUAL	3.	0.00500	0.00167	

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.9963442	0.94527	0.00143	483314.831
X6	0.9914066	0.10181	0.00914	11771.320
X4	0.9159180	0.01827	0.04667	325.118
X2	1.201561	0.01889	0.18096	44.087
X5	1.200150	0.01660	0.09397	163.112
X3	0.3399918	0.00257	0.36525	0.866
(CONSTANT)	0.6382485E-01			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

170

MAXIMUM STEP REACHED
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q8 04/19/85 PAGE 19

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0
SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.99640	0.99281	0.99281	0.99640	0.9963442	0.94527
X6	0.99932	0.99865	0.00583	0.46001	0.9914086	0.10181
X4	0.99978	0.99956	0.00091	-0.17526	0.9159180	0.01827
X2	0.99995	0.99989	0.00033	0.21028	1.201561	0.01889
X5	1.00000	1.00000	0.00011	0.59533	1.200150	0.01660
X3	1.00000	1.00000	0.00000	0.25034	0.3399918	0.00257
(CONSTANT)					0.6382488E-01	

1Q8 04/19/85 PAGE 20

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

OMULTIPLE R 1.00000
R SQUARE 1.00000
ADJUSTED R SQUARE 1.00000
STANDARD ERROR 0.04082

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	6.	3177.91991	529.65332	317945.2093
RESIDUAL	3.	0.00500	0.00167	

VARIABLES IN THE EQUATION

VARIABLE	B	BETA	STD ERROR B	F
X6	0.9914086	0.10181	0.00914	11771.320
X1	0.9963442	0.94527	0.00143	483314.831
X2	1.201561	0.01889	0.18096	44.087
X3	0.3399918	0.00257	0.36525	0.866
X4	0.9159180	0.01827	0.04667	385.118
X5	1.200150	0.01660	0.09397	163.112
(CONSTANT)	0.6382488E-01			

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q8 04/19/85 PAGE 21

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.46001	0.21161	0.21161	0.46001	0.9914086	0.10181
X1	0.99932	0.99865	0.78704	0.99640	0.9963442	0.94527
X2	0.99973	0.99947	0.00082	0.21028	1.201561	0.01889
X3	0.99961	0.99962	0.00016	0.25034	0.3399918	0.00257
X4	0.99996	0.99991	0.00029	-0.17526	0.9159180	0.01827
X5	1.00000	1.00000	0.00009	0.59533	1.200150	0.01660
(CONSTANT)					0.6382488E-01	

1Q8 04/19/85 PAGE 22

0CPU TIME REQUIRED.. 2.25 SECONDS

13 FINISH
0 NORMAL END OF JOB.
13 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

ภาคผนวก ง.

รายละเอียดความสัมพันธ์ระหว่างการเปลี่ยนแปลงของอัตราค่าไฟฟ้าในแต่ละปี กับต้นทุนในการจำหน่ายกระแสไฟแต่ละประเภทและกำไรสุทธิจากการจำหน่ายกระแสไฟ

```
1SPSS BATCH SYSTEM                                                                  04/19/85        PAGE    1

 SPSS VERSION H, RELEASE 8.1, AUGUST 15, 1980.  CPU IS A PERKIN-ELMER 3230
0                          CURRENT DOCUMENTATION FOR THE SPSS BATCH SYSTEM
 ORDER FROM MCGRAW-HILL:  SPSS, 2ND ED. (PRINCIPAL TEXT)       ORDER FROM SPSS INC.:  SPSS STATISTICAL ALGORITHMS
                          SPSS PRIMER (BRIEF INTRO TO SPSS)                           SPSS POCKET GUIDE, RELEASE 8
                          SPSS UPDATE (USE W/SPSS,2ND FOR REL. 7 & 8)                 KEYWORDS: THE SPSS INC. NEWSLETTER
-DEFAULT SPACE ALLOCATION..      ALLOWS FOR..     315 TRANSFORMATIONS
 WORKSPACE     220888 BYTES                     1262 RECODE VALUES + LAG VARIABLES
 TRANSPACE      31552 BYTES                     5049 IF/COMPUTE OPERATIONS

                    1 RUN NAME        Q10
                    2 VARIABLE LIST   Y X1 TO X6
                    3 INPUT FORMAT    FREEFIELD
                    4 SUBFILE LIST    A1(6),A2(10)
                    5 PRINT FORMAT    ALL(2)
                    6 LIST CASES      CASES=16/VARIABLES=Y TO X6
                    7 READ INPUT DATA
1Q10                                                                                04/19/85        PAGE    2

 FILE   NONAME    (CREATION DATE = 04/19/85)
 SUBFILE   A1          A2
0    CASE-N          Y          X1         X2         X3         X4         X5         X6

           1      -1.19      29.14       1.86       0.78       1.47       2.43      13.27
           2      -3.48      28.67       1.90       0.79       1.38       2.12       8.04
           3      -0.53      29.95       1.87       1.44       1.44       2.10       9.82
           4      -2.70      28.39       1.85       0.78       1.39       2.03       7.74
           5      -0.53      29.37       1.78       0.73       1.48       1.90       7.44
           6      -1.44      27.94       1.84       0.88       1.68       1.45       8.49
           7       9.15      36.70       2.23       0.97       2.36       1.91       5.15
           8       9.84      45.95       2.59       1.25       2.70       1.76       5.05
           9       1.97      48.30       2.76       1.33       2.87       1.87       4.11
          10       2.76      50.10       2.71       1.33       2.85       1.78       3.23
          11      15.41      60.35       2.77       1.35       2.97       1.80      10.17
          12       0.00      60.09       3.44       1.68       3.48       1.85       8.67
          13      22.43      80.61       3.89       1.94       3.87       2.45       9.10
          14      62.48     139.46       4.58       2.15       4.17       2.97      11.46
          15      20.71     156.35       5.24       2.58       4.89       3.26      13.02
          16      -0.26     154.06       5.44       2.66       6.17       3.44      13.33
1Q10                                                                                04/19/85        PAGE    3


                    8 REGRESSION      VARIABLES=ALL/REGRESSION=Y WITH X1 TO X6/
                    9                 REGRESSION=Y WITH X1 TO X6(2)

  ***** REGRESSION PROBLEM REQUIRES   1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****
```

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

0* M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X1

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.60550		REGRESSION	1.	1523.96185	1523.96185	8.1039
R SQUARE	0.36663		RESIDUAL	14.	2632.73332	188.05238	
ADJUSTED R SQUARE	0.32139						
STANDARD ERROR	13.71322						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.2196556	0.60550	0.07716	8.104
(CONSTANT)	-5.374294			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	-1.37590	-0.42132	0.05939	2.80
X3	-0.58353	-0.24245	0.10934	0.81
X4	-0.83285	-0.38156	0.13294	2.21
X5	-0.36798	-0.22644	0.23985	0.70
X6	-0.14421	-0.14270	0.62017	0.27

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 2.. X2

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.69214		REGRESSION	2.	1991.30970	995.65485	5.9774
R SQUARE	0.47906		RESIDUAL	13.	2165.38547	166.56811	
ADJUSTED R SQUARE	0.39892						
STANDARD ERROR	12.90615						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.7037390	1.93991	0.29798	5.578
X2	-18.76646	-1.37590	11.20361	2.806
(CONSTANT)	18.71784			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	0.16883	0.05758	0.06059	0.04
X4	-0.14358	-0.03617	0.03306	0.01
X5	-0.60323	-0.39338	0.22154	2.19
X6	-0.28662	-0.30011	0.57112	1.18

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

0* M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X5

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.74811		REGRESSION	3.	2326.39759	775.46586	5.0842
R SQUARE	0.55967		RESIDUAL	12.	1830.29759	152.52480	
ADJUSTED R SQUARE	0.44959						
STANDARD ERROR	12.35009						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	1.012388	2.79073	0.35309	8.221
X2	-23.33542	-1.71088	11.15528	4.376
X5	-17.54727	-0.60323	11.83860	2.197
(CONSTANT)	51.12232			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	0.16048	0.05953	0.06059	0.03
X4	-0.83971	-0.21361	0.02849	0.52
X6	-0.08228	-0.07269	0.34362	0.05

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X4

0MULTIPLE R	0.76142
R SQUARE	0.57977
ADJUSTED R SQUARE	0.42695
STANDARD ERROR	12.60153

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	4.	2409.91122	602.47781	3.7939
RESIDUAL	11.	1746.78395	158.79854	

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.9745719	2.68649	0.36403	7.167
X2	-9.395439	-0.68884	22.33961	0.177
X5	-21.05300	-0.72375	13.01102	2.618
X4	-9.874267	-0.83971	13.61600	0.526
(CONSTANT)	48.59817			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	0.09148	0.03447	0.05968	0.01
X6	-0.12320	-0.11003	0.33518	0.12

1Q10 04/19/85 PAGE 6

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 5.. X6

0MULTIPLE R	0.76476
R SQUARE	0.58485
ADJUSTED R SQUARE	0.37728
STANDARD ERROR	13.13634

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	5.	2431.06013	486.21203	2.8175
RESIDUAL	10.	1725.63504	172.56350	

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.9746106	2.68659	0.37948	6.596
X2	-8.863815	-0.64987	23.33717	0.144
X5	-17.70119	-0.60852	16.60208	1.137
X4	-10.66278	-0.90676	14.37146	0.550
X6	-0.6737021	-0.12320	1.92441	0.123
(CONSTANT)	47.74411			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	0.14410	0.05387	0.05603	0.02

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 6.. X3

0MULTIPLE R	0.76554
R SQUARE	0.58606
ADJUSTED R SQUARE	0.31010
STANDARD ERROR	13.82681

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	6.	2436.06853	406.01142	2.1237
RESIDUAL	9.	1720.62664	191.18074	

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.9720891	2.67964	0.39973	5.914
X2	-11.02288	-0.80816	27.95214	0.156
X5	-17.30261	-0.59482	17.64737	0.961
X4	-10.42564	-0.88660	15.19764	0.471
X6	-0.7290747	-0.13333	2.05425	0.126
X3	3.793565	0.14410	23.43797	0.026
(CONSTANT)	47.74154			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q10 04/19/85 PAGE 7

FILE NONAME (CREATION DATE = 04/19/85) 178
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.60550	0.36663	0.36663	0.60550	0.9720891	2.67964
X2	0.69214	0.47906	0.11243	0.50553	-11.02288	-0.80816
X5	0.74811	0.55967	0.08061	0.43965	-17.30261	-0.59482
X4	0.76142	0.57977	0.02009	0.45310	-10.42564	-0.88660
X6	0.76476	0.58485	0.00509	0.28374	-0.7290747	-0.13333
X3	0.76554	0.58606	0.00120	0.50763	3.793565	0.14410
(CONSTANT)					47.74154	

1Q10 04/19/85 PAGE 8

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

OMULTIPLE R 0.76554
R SQUARE 0.58606
ADJUSTED R SQUARE 0.31010
STANDARD ERROR 13.82681

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	6.	2436.06853	406.01142	2.1237
RESIDUAL	9.	1720.62664	191.18074	

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X6	-0.7290747	-0.13333	2.05425	0.126
X1	0.9720891	2.67964	0.39973	5.914
X2	-11.02288	-0.80816	27.95214	0.156
X3	3.793565	0.14410	23.43797	0.026
X4	-10.42564	-0.88660	15.19764	0.471
X5	-17.30261	-0.59482	17.64737	0.961
(CONSTANT)	47.74154			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

ALL VARIABLES ARE IN THE EQUATION
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q10 04/19/85 PAGE 9

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.28374	0.08051	0.08051	0.28374	-0.7290747	-0.13333
X1	0.61606	0.37953	0.29902	0.60550	0.9720991	2.67964
X2	0.72524	0.52598	0.14646	0.50553	-11.02288	-0.80816
X3	0.72880	0.53115	0.00517	0.50763	3.793565	0.14410
X4	0.73610	0.54185	0.01070	0.45310	-10.42564	-0.88660
X5	0.76554	0.58606	0.04421	0.43965	-17.30261	-0.59482
(CONSTANT)					47.74154	

```
1Q10                                                                                 04/19/85          PAGE   10
0CPU TIME REQUIRED..     1.32 SECONDS

                  10 RUN SUBFILES    EACH
                  11 REGRESSION      VARIABLES=ALL/REGRESSION=Y WITH X1 TO X6/
                  12                 REGRESSION=Y WITH X1 TO X6(2)

 ***** REGRESSION PROBLEM REQUIRES    1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****

1Q10                                                                                 04/19/85          PAGE   11
 FILE    NONAME    (CREATION DATE = 04/19/85)
 SUBFILE   A1
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                                     REGRESSION LIST  1
 DEPENDENT VARIABLE..      Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..     X2

0MULTIPLE R           0.60351                 ANALYSIS OF VARIANCE     DF      SUM OF SQUARES       MEAN SQUARE           F
 R SQUARE             0.36422                 REGRESSION               1.             2.62814           2.62814        2.2915
 ADJUSTED R SQUARE    0.20528                 RESIDUAL                 4.             4.58761           1.14690
 STANDARD ERROR       1.07094

 ----------------- VARIABLES IN THE EQUATION ------------------        ------------- VARIABLES NOT IN THE EQUATION ------------

 VARIABLE              B          BETA      STD ERROR B       F         VARIABLE      BETA IN     PARTIAL   TOLERANCE         F

 X2               -18.12506     -0.60351      11.97343      2.292       X1            0.70906     0.81027    0.83023        5.73
 (CONSTANT)        31.83637                                             X3            0.66423     0.79436    0.90933        5.13
                                                                        X4            0.22316     0.26092    0.86896        0.21
                                                                        X5            0.16940     0.19620    0.85286        0.12
                                                                        X6            0.47261     0.56593    0.91164        1.41

 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
0VARIABLE(S) ENTERED ON STEP NUMBER  2..     X1

0MULTIPLE R           0.88410                 ANALYSIS OF VARIANCE     DF      SUM OF SQUARES       MEAN SQUARE           F
 R SQUARE             0.78163                 REGRESSION               2.             5.64007           2.82004        5.3692
 ADJUSTED R SQUARE    0.63606                 RESIDUAL                 3.             1.57567           0.52522
 STANDARD ERROR       0.72472

 ----------------- VARIABLES IN THE EQUATION ------------------        ------------- VARIABLES NOT IN THE EQUATION ------------

 VARIABLE              B          BETA      STD ERROR B       F         VARIABLE      BETA IN     PARTIAL   TOLERANCE         F

 X2               -26.89941     -0.89567       8.89262      9.150       X3            0.35987     0.49356    0.41076        0.64
 X1                1.197865      0.70906       0.50022      5.735       X4            0.53286     0.99506    0.76147      200.99
 (CONSTANT)        13.68826                                             X5           -0.37093    -0.59260    0.55736        1.08
1Q10                                                                    X6            0.08103     0.12916    0.55489        0.03
                                                                                 04/19/85          PAGE   12
 FILE    NONAME    (CREATION DATE = 04/19/85)
 SUBFILE   A1
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                                     REGRESSION LIST  1
 DEPENDENT VARIABLE..      Y
0VARIABLE(S) ENTERED ON STEP NUMBER  3..     X4

0MULTIPLE R           0.99892                 ANALYSIS OF VARIANCE     DF      SUM OF SQUARES       MEAN SQUARE           F
 R SQUARE             0.99785                 REGRESSION               3.             7.20022           2.40007      309.2010
 ADJUSTED R SQUARE    0.99462                 RESIDUAL                 2.             0.01552           0.00776
 STANDARD ERROR       0.08810
```

VARIABLES IN THE EQUATION				
VARIABLE	B	BETA	STD ERROR B	F
X2	-23.47897	-0.78178	1.10765	449.315
X1	1.521778	0.90080	0.06496	548.784
X4	5.866462	0.53286	0.41379	200.994
(CONSTANT)	-10.59314			

VARIABLES NOT IN THE EQUATION				
VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	-0.08827	-0.99606	0.27393	126.22
X5	0.08286	0.99119	0.30786	55.91
X6	0.06038	0.96909	0.55428	15.42

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X3

0MULTIPLE R	0.99999	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99998	REGRESSION	4.	7.21563	1.80391	14783.2999
ADJUSTED R SQUARE	0.99992	RESIDUAL	1.	0.00012	0.00012	
STANDARD ERROR	0.01105					

VARIABLES IN THE EQUATION				
VARIABLE	B	BETA	STD ERROR B	F
X2	-23.28698	-0.77538	0.13993	27697.112
X1	1.660087	0.98267	0.01476	12648.243
X4	6.278416	0.57028	0.06353	9766.265
X3	-0.3942182	-0.08827	0.03509	126.225
(CONSTANT)	-15.17591			

VARIABLES NOT IN THE EQUATION				
VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X5	0.03371	1.00000	0.01488	99999.99
X6	0.01665	1.00000	0.06097	99999.99

F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q10 04/19/85 PAGE 13

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X2	0.60351	0.36422	0.36422	-0.60351	-23.28698	-0.77538
X1	0.88410	0.78163	0.41741	0.34001	1.660087	0.98267
X4	0.99892	0.99785	0.21621	0.41240	6.278416	0.57028
X3	0.99999	0.99998	0.00213	0.42228	-0.3942182	-0.08827
(CONSTANT)					-15.17591	

1Q10 04/19/85 PAGE 14

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

****** WARNING ***** X5 HAS TOLERANCE 0.00000. IT HAS BEEN DROPPED. THE SOLUTION IS NOT UNIQUE.

RESIDUAL SUM OF SQUARES IS NEGATIV
TO CONTINUE ABSOLUTE VALUE IS TAKEN
ANALYSIS OF VARIANCE/F/B AND BETA RESULTS ARE MEANINGLESS

0MULTIPLE R	1.00000	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	1.00000	REGRESSION	5.	7.21575	1.44315	99999.9999
ADJUSTED R SQUARE	0.00000	RESIDUAL	0.	0.00000	0.00000	
STANDARD ERROR	0.00000					

VARIABLE	B	BETA	STD ERROR B	F
X6	0.8180375E-02	0.01665	0.00000	99999.999
X1	1.606339	0.95085	0.00000	99999.999
X2	-23.35220	-0.77756	0.00000	99999.999
X3	-0.2944090	-0.06592	0.00000	99999.999
X4	6.168922	0.56034	0.00000	99999.999
(CONSTANT)	-13.51086			

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X5	999999.99999	99999.99999	0.00000	99999.99

F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q10

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.25146	0.06323	0.06323	0.25146	0.8180375E-02	0.01665
X1	0.34164	0.11671	0.05348	0.34001	1.606339	0.95085
X2	0.88616	0.78528	0.66856	-0.60351	-23.35220	-0.77756
X3	0.97971	0.95984	0.17456	0.42228	-0.2944090	-0.06592
X4	1.00000	1.00000	0.04016	0.41240	6.168922	0.56034
(CONSTANT)					-13.51088	

1Q10

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X1

0MULTIPLE R 0.45258
R SQUARE 0.20483
ADJUSTED R SQUARE 0.10543
STANDARD ERROR 17.77288

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	1.	650.92171	650.92171	2.0606
RESIDUAL	8.	2527.00319	315.87540	

VARIABLES IN THE EQUATION

VARIABLE	B	BETA	STD ERROR B	F
X1	0.1783502	0.45258	0.12424	2.061
(CONSTANT)	-0.3871988			

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	-2.20272	-0.67216	0.07404	5.76
X3	-1.76592	-0.54622	0.07606	2.97
X4	-1.79515	-0.77949	0.14993	10.83
X5	-0.92524	-0.24298	0.04836	0.43
X6	-0.09706	-0.04841	0.19776	0.01

* *
0VARIABLE(S) ENTERED ON STEP NUMBER 2.. X4

0MULTIPLE R 0.82945
R SQUARE 0.68798
ADJUSTED R SQUARE 0.59883
STANDARD ERROR 11.90184

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	2.	2186.34791	1093.17396	7.7172
RESIDUAL	7.	991.57699	141.65386	

VARIABLES IN THE EQUATION

VARIABLE	B	BETA	STD ERROR B	F
X1	0.8305940	2.10770	0.21487	14.942
X4	-28.61150	-1.79515	8.69041	10.839
(CONSTANT)	49.29366			

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	-0.38022	-0.10824	0.02529	0.07
X3	0.24057	0.07945	0.03403	0.03
X5	0.27298	0.09918	0.04119	0.06
X6	0.26544	0.20599	0.18791	0.26

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X6

0MULTIPLE R	0.83739	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.70122	REGRESSION	3.	2228.42168	742.80723	4.6938
ADJUSTED R SQUARE	0.55183	RESIDUAL	6.	949.50323	158.25054	
STANDARD ERROR	12.57977					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.7616557	1.93276	0.26354	8.352
X4	-29.69726	-1.86327	9.42369	9.931
X6	1.434091	0.26544	2.78127	0.266
(CONSTANT)	46.71362			

-------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	-0.44751	-0.12968	0.02509	0.08
X3	0.16116	0.05391	0.03344	0.01
X5	0.66838	0.22108	0.03269	0.25

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X5

0MULTIPLE R	0.84606	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.71582	REGRESSION	4.	2274.82977	568.70744	3.1486
ADJUSTED R SQUARE	0.48848	RESIDUAL	5.	903.09513	180.61903	
STANDARD ERROR	13.43946					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.5209384	1.32192	0.55208	0.890
X4	-32.60962	-2.04600	11.59179	7.914
X6	2.201951	0.40756	3.33521	0.436
X5	18.73818	0.66838	36.96684	0.257
(CONSTANT)	27.49029			

-------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	-0.42708	-0.12686	0.02507	0.06
X3	0.32053	0.10730	0.03185	0.04

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 5.. X2

0MULTIPLE R	0.84876	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.72040	REGRESSION	5.	2289.36256	457.87251	2.0611
ADJUSTED R SQUARE	0.37089	RESIDUAL	4.	888.56235	222.14059	
STANDARD ERROR	14.90438					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.5944770	1.50853	0.67640	0.772
X4	-28.74008	-1.80322	19.85281	2.096
X6	2.264904	0.41922	3.70693	0.373
X5	18.45289	0.65820	41.01146	0.202
X2	-7.042044	-0.42708	27.53203	0.065
(CONSTANT)	32.32823			

-------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	8.42880	0.81022	0.00258	5.73

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 6.. X3

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.95076		REGRESSION	6.	2872.66800	478.77800	4.7053
R SQUARE	0.90394		RESIDUAL	3.	305.25691	101.75230	
ADJUSTED R SQUARE	0.71183						
STANDARD ERROR	10.08723						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.4476845E-01	0.11360	0.51213	0.008
X4	-23.54319	-1.47715	13.61050	2.992
X6	3.188908	0.59024	2.53835	1.578
X5	64.49099	2.30035	33.76607	3.648
X2	-157.1939	-9.53336	65.42234	5.773
X3	269.7946	8.42880	112.68273	5.733
(CONSTANT)	11.18139			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED

0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.

1Q10 04/19/85 PAGE 19

FILE NONAME (CREATION DATE = 04/19/85)

SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * * VARIABLE LIST 1

REGRESSION LIST 1

DEPENDENT VARIABLE.. Y

0

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.45258	0.20483	0.20483	0.45258	0.4476845E-01	0.11360
X4	0.82945	0.68798	0.48315	0.14813	-23.54319	-1.47715
X6	0.83739	0.70122	0.01324	0.38616	3.188908	0.59024
X5	0.84606	0.71582	0.01460	0.39385	64.49099	2.30035
X2	0.84876	0.72040	0.00457	0.27240	-157.1939	-9.53336
X3	0.95076	0.90394	0.18355	0.30068	269.7946	8.42880
(CONSTANT)					11.18139	

1Q10 04/19/85 PAGE 20

FILE NONAME (CREATION DATE = 04/19/85)

SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * * VARIABLE LIST 1

REGRESSION LIST 2

DEPENDENT VARIABLE.. Y

0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.95076		REGRESSION	6.	2872.66800	478.77800	4.7053
R SQUARE	0.90394		RESIDUAL	3.	305.25691	101.75230	
ADJUSTED R SQUARE	0.71183						
STANDARD ERROR	10.08723						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X6	3.188908	0.59024	2.53835	1.578
X1	0.4476845E-01	0.11360	0.51213	0.008
X2	-157.1939	-9.53336	65.42234	5.773
X3	269.7946	8.42880	112.68273	5.733
X4	-23.54319	-1.47715	13.61050	2.992
X5	64.49099	2.30035	33.76607	3.648
(CONSTANT)	11.18139			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q10 04/19/85 PAGE 21

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.38616	0.14912	0.14912	0.38616	3.188908	0.59024
X1	0.45463	0.20669	0.05757	0.45258	0.4476845E-01	0.11560
X2	0.75746	0.57375	0.36706	0.27240	-157.1939	-9.53336
X3	0.85120	0.72454	0.15079	0.30068	269.7946	8.42680
X4	0.88721	0.78715	0.06261	0.14813	-23.54319	-1.47715
X5	0.95076	0.90394	0.11680	0.39385	64.49099	2.30035
(CONSTANT)					11.16139	

1Q10 04/19/85 PAGE 22

0CPU TIME REQUIRED.. 2.26 SECONDS

13 FINISH
0 NORMAL END OF JOB.
13 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

ภาคผนวก จ.

รายละเอียดความสัมพันธ์ระหว่างอัตราค่าไฟฟ้ากับการเปลี่ยนแปลงของต้นทุนในการจำหน่ายกระแสไฟแต่ละประเภท และการเปลี่ยนแปลงของกำไรสุทธิจากการจำหน่ายกระแสไฟในแต่ละปี

```
1SPSS BATCH SYSTEM                                                              04/19/85        PAGE    1

 SPSS VERSION H, RELEASE 8.1, AUGUST 15, 1980.  CPU IS A PERKIN-ELMER 3230
0                          CURRENT DOCUMENTATION FOR THE SPSS BATCH SYSTEM
 ORDER FROM MCGRAW-HILL:  SPSS, 2ND ED. (PRINCIPAL TEXT)      ORDER FROM SPSS INC.:  SPSS STATISTICAL ALGORITHMS
                          SPSS PRIMER (BRIEF INTRO TO SPSS)                         SPSS POCKET GUIDE, RELEASE 8
                          SPSS UPDATE (USE W/SPSS,2ND FOR REL. 7 & 8)               KEYWORDS: THE SPSS INC. NEWSLETTER
-DEFAULT SPACE ALLOCATION..      ALLOWS FOR..    315 TRANSFORMATIONS
 WORKSPACE     220888 BYTES                     1262 RECODE VALUES + LAG VARIABLES
 TRANSPACE      31552 BYTES                     5049 IF/COMPUTE OPERATIONS

                    1 RUN NAME        Q9
                    2 VARIABLE LIST   Y X1 TO X6
                    3 INPUT FORMAT    FREEFIELD
                    4 SUBFILE LIST    A1(6),A2(10)
                    5 PRINT FORMAT    ALL(2)
                    6 LIST CASES      CASES=16/VARIABLES=Y TO X6
                    7 READ INPUT DATA
1Q9                                                                             04/19/85        PAGE    2

 FILE   NONAME    (CREATION DATE = 04/19/85)
 SUBFILE   A1          A2
0    CASE-N          Y          X1         X2         X3         X4         X5         X6

           1      48.95       -0.75      -0.13      -0.05      -0.18      -0.39       0.31
           2      45.47       -0.47       0.04       0.01      -0.09      -0.31      -5.23
           3      44.94        0.28      -0.03       0.65       0.06      -0.02       1.78
           4      42.24       -0.56      -0.02      -0.66      -0.05      -0.07      -2.08
           5      41.71       -0.02      -0.07      -0.05       0.09      -0.13      -0.30
           6      40.27       -0.43       0.06       0.15       0.20      -0.45      -0.75
           7      49.42        8.76       0.39       0.09       0.68      -0.46      -1.34
           8      59.26        9.25       0.36       0.26       0.34      -0.15      -0.10
           9      61.23        2.35       0.17       0.10       0.17       0.11      -0.94
          10      63.99        1.80      -0.05       0.00      -0.02      -0.09       1.12
          11      79.40       10.25       0.06       0.02       0.12       0.02       4.94
          12      79.40       -0.26       0.67       0.33       0.51       0.05      -1.30
          13     101.85       20.52       0.45       0.26       0.39       0.60       0.23
          14     164.33       58.85       0.39       0.21       0.30       0.52       2.36
          15     135.04       16.89       0.96       0.43       0.72       0.29       1.56
          16     184.78       -2.29       0.20       0.08       1.28       0.18       0.31
1Q9                                                                             04/19/85        PAGE    3


                    8 REGRESSION      VARIABLES=ALL/REGRESSION=Y WITH X1 TO X6/
                    9                 REGRESSION=Y WITH X1 TO X6(2)

  ***** REGRESSION PROBLEM REQUIRES   1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****
```

1Q9 04/19/85 PAGE 4

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X4

0MULTIPLE R	0.71653	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.51342	REGRESSION	1.	20240.30525	20240.30525	14.7722
ADJUSTED R SQUARE	0.47866	RESIDUAL	14.	19182.16776	1370.15484	
STANDARD ERROR	37.01560					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X4	98.20963	0.71653	25.55232	14.772
(CONSTANT)	55.02328			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X1	0.46302	0.65876	0.98492	9.96
X2	0.28692	0.32150	0.61091	1.49
X3	0.07904	0.10735	0.89761	0.15
X5	0.29199	0.34918	0.69588	1.80
X6	0.31839	0.45345	0.98696	3.36

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 2.. X1

0MULTIPLE R	0.85122	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.72458	REGRESSION	2.	28564.59179	14282.29590	17.1000
ADJUSTED R SQUARE	0.68220	RESIDUAL	13.	10857.88122	835.22163	
STANDARD ERROR	28.90020					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X4	90.41713	0.65968	20.10228	20.231
X1	1.556441	0.46302	0.49301	9.967
(CONSTANT)	43.14570			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.03669	0.04913	0.49394	0.02
X3	-0.01946	-0.03441	0.86118	0.01
X5	-0.18638	-0.21105	0.35316	0.55
X6	0.15788	0.27363	0.82728	0.97

1Q9 04/19/85 PAGE 5

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X6

0MULTIPLE R	0.86325	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.74520	REGRESSION	3.	29377.54018	9792.51339	11.6984
ADJUSTED R SQUARE	0.68150	RESIDUAL	12.	10044.93283	837.07774	
STANDARD ERROR	28.93230					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X4	89.01567	0.64945	20.17479	19.468
X1	1.342749	0.39945	0.53910	6.204
X6	3.641214	0.15788	3.69486	0.971
(CONSTANT)	45.11580			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.07881	0.10769	0.47574	0.12
X3	-0.06080	-0.10841	0.81000	0.13
X5	-0.19000	-0.22366	0.35308	0.57

* *

OVARIABLE(S) ENTERED ON STEP NUMBER 4.. X5

OMULTIPLE R	0.87060	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.75794	REGRESSION	4.	29880.02930	7470.00732	8.6110
ADJUSTED R SQUARE	0.66992	RESIDUAL	11.	9542.44372	867.49488	
STANDARD ERROR	29.45327					

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X4	101.4743	0.74035	26.26364	14.928
X1	1.717014	0.51079	0.73689	5.429
X6	3.683563	0.15972	3.76180	0.959
X5	-31.29643	-0.19000	41.12112	0.579
(CONSTANT)	39.90346			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.10838	0.14990	0.46310	0.23
X3	-0.06571	-0.12011	0.80881	0.14

04/19/85 PAGE 6

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 5.. X2

OMULTIPLE R	0.87372	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.76338	REGRESSION	5.	30094.45860	6018.89172	6.4524
ADJUSTED R SQUARE	0.64507	RESIDUAL	10.	9328.01441	932.80144	
STANDARD ERROR	30.54180					

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X4	94.03921	0.68611	31.33983	9.004
X1	1.610107	0.47899	0.79599	4.092
X6	4.053841	0.17599	3.97858	1.041
X5	-34.67439	-0.21051	43.21900	0.644
X2	18.40986	0.10838	38.39751	0.230
(CONSTANT)	38.98614			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	-0.12065	-0.20287	0.66902	0.38

* *

OVARIABLE(S) ENTERED ON STEP NUMBER 6.. X3

OMULTIPLE R	0.87927	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.77312	REGRESSION	6.	30478.37104	5079.72851	5.1114
ADJUSTED R SQUARE	0.62187	RESIDUAL	9.	8944.10198	993.78911	
STANDARD ERROR	31.52442					

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X4	94.53549	0.69009	32.36007	8.543
X1	1.595895	0.47476	0.82192	3.770
X6	4.982063	0.21602	4.36697	1.302
X5	-37.89406	-0.23005	44.90925	0.712
X2	29.66958	0.17466	43.57693	0.464
X3	-22.10488	-0.12065	35.56470	0.386
(CONSTANT)	39.14588			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q9 04/19/85 PAGE 7

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

0DEPENDENT VARIABLE.. Y
0
SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X4	0.71653	0.51342	0.51342	0.71653	94.58549	0.69009
X1	0.85122	0.72458	0.21116	0.54402	1.595895	0.47476
X6	0.86325	0.74520	0.02062	0.39607	4.982063	0.21602
X5	0.87060	0.75794	0.01275	0.59833	-37.89406	-0.23005
X2	0.87372	0.76338	0.00544	0.62224	29.66958	0.17466
X3	0.87927	0.77312	0.00974	0.30022	-22.10488	-0.12065
(CONSTANT)					39.14588	

1Q9 04/19/85 PAGE 8

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

0MULTIPLE R 0.87927
R SQUARE 0.77312
ADJUSTED R SQUARE 0.62187
STANDARD ERROR 31.52442

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	6.	30478.37104	5079.72851	5.1114
RESIDUAL	9.	8944.10198	993.78911	

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X6	4.982063	0.21602	4.36697	1.302
X1	1.595895	0.47476	0.82192	3.770
X2	29.66958	0.17466	43.57693	0.464
X3	-22.10488	-0.12065	35.56470	0.386
X4	94.58549	0.69009	32.36007	8.543
X5	-37.89406	-0.23005	44.90925	0.712
(CONSTANT)	39.14588			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q9 04/19/85 PAGE 9

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1 A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

0DEPENDENT VARIABLE.. Y
0
SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.39607	0.15687	0.15687	0.39607	4.982063	0.21602
X1	0.57605	0.33183	0.17496	0.54402	1.595895	0.47476
X2	0.73554	0.54102	0.20919	0.62224	29.66958	0.17466
X3	0.74187	0.55037	0.00935	0.30022	-22.10488	-0.12065
X4	0.86901	0.75517	0.20480	0.71653	94.58549	0.69009
X5	0.87927	0.77312	0.01795	0.59833	-37.89406	-0.23005
(CONSTANT)					39.14588	

188

```
1Q9                                                                    04/19/85       PAGE   10
OCPU TIME REQUIRED..    1.31 SECONDS

                10 RUN SUBFILES   EACH
                11 REGRESSION     VARIABLES=ALL/REGRESSION=Y WITH X1 TO X6/
                12                REGRESSION=Y WITH X1 TO X6(2)

  ***** REGRESSION PROBLEM REQUIRES   1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****

1Q9                                                                    04/19/85       PAGE   11

 FILE   NONAME   (CREATION DATE = 04/19/85)
 SUBFILE   A1
0* * * * * * * * * * * * * * * * * * * * * M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                  REGRESSION LIST  1
 DEPENDENT VARIABLE..     Y
OVARIABLE(S) ENTERED ON STEP NUMBER  1..    X4

OMULTIPLE R           0.84307                    ANALYSIS OF VARIANCE    DF      SUM OF SQUARES          MEAN SQUARE              F
 R SQUARE             0.71077                    REGRESSION               1.          35.37672             35.37672          9.8300
 ADJUSTED R SQUARE    0.63847                    RESIDUAL                 4.          14.39538              3.59884
 STANDARD ERROR       1.89706

 ---------------- VARIABLES IN THE EQUATION ------------------          ------------ VARIABLES NOT IN THE EQUATION ------------

 VARIABLE           B          BETA      STD ERROR B        F           VARIABLE      BETA IN      PARTIAL    TOLERANCE         F

 X4          -19.34319       -0.84307       6.16951      9.830          X1            0.27267      0.42362      0.69810      0.65
 (CONSTANT)   44.02672                                                  X2           -0.20003     -0.31582      0.72096      0.33
                                                                        X3            0.54467      0.94325      0.86741     24.20
                                                                        X5           -0.10442     -0.19396      0.99796      0.11
                                                                        X6            0.32577      0.58383      0.92896      1.55


* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
OVARIABLE(S) ENTERED ON STEP NUMBER  2..    X3

OMULTIPLE R           0.98392                    ANALYSIS OF VARIANCE    DF      SUM OF SQUARES          MEAN SQUARE              F
 R SQUARE             0.96810                    REGRESSION               2.          48.18457             24.09229          45.5279
 ADJUSTED R SQUARE    0.94684                    RESIDUAL                 3.           1.58753              0.52918
 STANDARD ERROR       0.72744

 ---------------- VARIABLES IN THE EQUATION ------------------          ------------ VARIABLES NOT IN THE EQUATION ------------

 VARIABLE           B          BETA      STD ERROR B        F           VARIABLE      BETA IN      PARTIAL    TOLERANCE         F

 X4          -23.89369       -1.04141       2.54014     88.481          X1           -0.14725     -0.54936      0.44397      0.86
 X3            4.084001       0.54467       0.83013     24.203          X2           -0.13013     -0.61420      0.71056      1.21
 (CONSTANT)   44.01544                                                  X5           -0.09551     -0.33414      0.99766      0.79
                                                                        X6            0.12848      0.63010      0.76714      1.31
1Q9                                                                    04/19/85       PAGE   12

 FILE   NONAME   (CREATION DATE = 04/19/85)
 SUBFILE   A1
0* * * * * * * * * * * * * * * * * * * * * M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * *    VARIABLE LIST  1
                                                                                                  REGRESSION LIST  1
 DEPENDENT VARIABLE..     Y
OVARIABLE(S) ENTERED ON STEP NUMBER  3..    X6

OMULTIPLE R           0.99034                    ANALYSIS OF VARIANCE    DF      SUM OF SQUARES          MEAN SQUARE              F
 R SQUARE             0.98077                    REGRESSION               3.          48.81487             16.27162          33.9973
 ADJUSTED R SQUARE    0.95192                    RESIDUAL                 2.           0.95723              0.47861
 STANDARD ERROR       0.69182
```

VARIABLES IN THE EQUATION					VARIABLES NOT IN THE EQUATION				
VARIABLE	B	BETA	STD ERROR B	F	VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X4	-24.21577	-1.05545	2.43199	99.145	X1	-0.19469	-0.91178	0.42182	4.92
X3	3.667897	0.48918	0.86876	17.825	X2	-0.05718	-0.16981	0.16962	0.03
X6	C.1684386	0.12848	0.14678	1.317	X5	-0.14490	-0.99128	0.90013	56.60
(CONSTANT)	44.20215								

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X5

			DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.99983	ANALYSIS OF VARIANCE				
R SQUARE	0.99967	REGRESSION	4.	49.75548	12.43887	748.5190
ADJUSTED R SQUARE	0.99833	RESIDUAL	1.	0.01662	0.01662	
STANDARD ERROR	0.12891					

VARIABLES IN THE EQUATION					VARIABLES NOT IN THE EQUATION				
VARIABLE	B	BETA	STD ERROR B	F	VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X4	-24.17245	-1.05356	0.45320	2844.813	X1	0.09804	1.00000	0.03474	99999.99
X3	3.480061	0.46413	0.16380	451.406	X2	-0.04440	-1.00000	0.16936	99999.99
X6	0.2361683	0.18015	0.02879	67.275					
X5	-2.554932	-0.14490	0.33960	56.602					
(CONSTANT)	43.69316								

F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q9 04/19/85 PAGE 13

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X4	0.84307	0.71077	0.71077	-0.84307	-24.17245	-1.05356
X3	0.98392	0.96810	0.25733	0.16546	3.480061	0.46413
X6	0.99034	0.98077	0.01266	0.07791	0.2361683	0.18015
X5	0.99983	0.99967	0.01890	-0.14224	-2.554932	-0.14490
(CONSTANT)					43.69316	

1Q9 04/19/85 PAGE 14

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

****** WARNING ***** X5 HAS TOLERANCE 0.00000. IT HAS BEEN DROPPED. THE SOLUTION IS NOT UNIQUE.

RESIDUAL SUM OF SQUARES IS NEGATIV
TO CONTINUE ABSOLUTE VALUE IS TAKEN
ANALYSIS OF VARIANCE,F,B AND BETA RESULTS ARE MEANINGLESS

			DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	1.00000	ANALYSIS OF VARIANCE				
R SQUARE	1.00000	REGRESSION	5.	49.77210	9.95442	99999.9999
ADJUSTED R SQUARE	0.00000	RESIDUAL	0.	0.00000	0.00000	
STANDARD ERROR	0.00000					

----------------- VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X6	0.5962966E-01	0.04548	0.00000	99999.999
X1	-1.798214	-0.21732	0.00000	99999.999
X2	-6.430605	-0.14282	0.00000	99999.999
X3	4.701399	0.62701	0.00000	99999.999
X4	-20.38920	-0.88866	0.00000	99999.999
(CONSTANT)	43.31189			

------------- VARIABLES NOT IN THE EQUATION ------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X5	999999.99999	99999.99999	0.00000	99999.99

F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.

1Q9 04/19/85 PAGE 15

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A1
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.07791	0.00607	0.00607	0.07791	0.5962966E-01	0.04548
X1	0.36205	0.13108	0.12501	-0.27238	-1.798214	-0.21732
X2	0.66112	0.43707	0.30600	-0.56956	-6.430605	-0.14282
X3	0.91068	0.82933	0.39226	0.16546	4.701399	0.62701
X4	1.00000	1.00000	0.17067	-0.84307	-20.38920	-0.88866
(CONSTANT)					43.31189	

1Q9 04/19/85 PAGE 16

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X4

0MULTIPLE R	0.60146
R SQUARE	0.36175
ADJUSTED R SQUARE	0.28197
STANDARD ERROR	45.84621

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	1.	9530.49276	9530.49276	4.5342
RESIDUAL	8.	16814.99672	2101.87459	

----------------- VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X4	86.80919	0.60146	40.76725	4.534
(CONSTANT)	63.89267			

------------- VARIABLES NOT IN THE EQUATION ------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X1	0.53604	0.65928	0.96546	5.38
X2	0.21439	0.24700	0.84719	0.45
X3	0.24660	0.29971	0.94280	0.69
X5	0.23842	0.28647	0.92136	0.62
X6	0.53076	0.63382	0.91018	4.70

* *
0VARIABLE(S) ENTERED ON STEP NUMBER 2.. X1

0MULTIPLE R	0.79948
R SQUARE	0.63917
ADJUSTED R SQUARE	0.53607
STANDARD ERROR	36.85170

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	2.	16839.15493	8419.57747	6.1997
RESIDUAL	7.	9506.33456	1358.04779	

----------------- VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X4	101.1874	0.70108	33.35015	9.206
X1	1.626792	0.53604	0.70125	5.382
(CONSTANT)	36.91978			

------------- VARIABLES NOT IN THE EQUATION ------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.03827	0.05567	0.76346	0.01
X3	0.08302	0.12728	0.84810	0.09
X5	-0.27958	-0.32049	0.47414	0.68
X6	0.38214	0.56673	0.79364	2.83

191

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X6

0MULTIPLE R	0.86894	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.75506	REGRESSION	3.	19892.45572	6630.81857	6.1653
ADJUSTED R SQUARE	0.63259	RESIDUAL	6.	6453.03376	1075.50563	
STANDARD ERROR	32.79490					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X4	114.1560	0.79093	30.66063	13.862
X1	1.223877	0.40328	0.66830	3.354
X6	10.71468	0.38214	6.35917	2.839
(CONSTANT)	28.84960			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.16188	0.27405	0.70197	0.40
X3	0.21667	0.38377	0.76843	0.86
X5	-0.13116	-0.17233	0.42284	0.15

* *
0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X3

0MULTIPLE R	0.88946	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.79114	REGRESSION	4.	20842.86464	5210.71616	4.7347
ADJUSTED R SQUARE	0.62404	RESIDUAL	5.	5502.62465	1100.52497	
STANDARD ERROR	33.17416					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X4	107.1861	0.74264	31.90918	11.284
X1	0.9455562	0.31157	0.73940	1.635
X6	12.63947	0.45078	6.75794	3.498
X3	82.62694	0.21667	88.91322	0.864
(CONSTANT)	19.46510			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	-0.41320	-0.26484	0.08580	0.30
X5	-0.08502	-0.11929	0.41119	0.05

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 5.. X2

0MULTIPLE R	0.89766	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.80579	REGRESSION	5.	21228.81005	4245.76201	3.3191
ADJUSTED R SQUARE	0.56302	RESIDUAL	4.	5116.67943	1279.16986	
STANDARD ERROR	35.76548					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X4	117.9577	0.81727	39.59848	8.874
X1	0.9608258	0.31660	0.79764	1.451
X6	12.70161	0.45300	7.28670	3.038
X3	223.7273	0.58667	274.18226	0.666
X2	-75.65837	-0.41320	137.73939	0.302
(CONSTANT)	16.51469			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X5	0.01121	0.01417	0.31033	0.00

F-LEVEL OR TOLERANCE-LEVEL INSUFFICIENT FOR FURTHER COMPUTATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q9 04/19/85 PAGE 19

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

0 DEPENDENT VARIABLE.. Y

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X4	0.60146	0.36175	0.36175	0.60146	117.9577	0.81727
X1	0.79948	0.63917	0.27742	0.40575	0.9608258	0.31650
X6	0.86894	0.75506	0.11589	0.30283	12.70161	0.45300
X3	0.88946	0.79114	0.03607	0.37634	223.7273	0.58667
X2	0.89766	0.80579	0.01465	0.41675	-75.65837	-0.41320
(CONSTANT)					16.51469	

1Q9 04/19/85 PAGE 20

FILE NONAME (CREATION DATE = 04/19/85)
SUBFILE A2

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 1.. X6
X1
X2
X3
X4
X5

			ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
0MULTIPLE R	0.89768						
R SQUARE	0.80582		REGRESSION	6.	21229.83754	3538.30626	2.0749
ADJUSTED R SQUARE	0.41747		RESIDUAL	3.	5115.65195	1705.21732	
STANDARD ERROR	41.29428						

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X6	12.79561	0.45635	9.24362	1.916
X1	C.9333411	0.30754	1.44976	0.414
X2	-77.88391	-0.42535	183.06055	0.181
X3	228.4043	0.59894	369.48042	0.382
X4	117.6686	0.81527	47.21301	6.212
X5	2.333418	0.01121	95.05911	0.001
(CONSTANT)	16.43122			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

```
 ALL VARIABLES ARE IN THE EQUATION
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q9                                                                  04/19/85        PAGE   21

 FILE    NONAME    (CREATION DATE = 04/19/85)
 SUBFILE   A2
0* * * * * * * * * * * * * * * * * * * * * * *  M U L T I P L E   R E G R E S S I O N  * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                  REGRESSION LIST  2
 DEPENDENT VARIABLE..     Y
0
```

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X6	0.30283	0.09170	0.09170	0.30283	12.79561	0.45635
X1	0.43492	0.18916	0.09746	0.40575	0.9333411	0.30754
X2	0.60644	0.36777	0.17861	0.41675	-77.88391	-0.42535
X3	0.61233	0.37494	0.00717	0.37634	228.4043	0.59894
X4	0.89766	0.80579	0.43084	0.60146	117.6686	0.81527
X5	0.89768	0.80582	0.00004	0.38832	2.333418	0.01121
(CONSTANT)					16.43122	

```
1Q9                                                                  04/19/85        PAGE   22

0CPU TIME REQUIRED..     2.11 SECONDS


                  13 FINISH
0         NORMAL END OF JOB.
             13 CONTROL CARDS WERE PROCESSED.
              0 ERRORS WERE DETECTED.
```

ภาคผนวก ฉ.

รายละเอียดความสัมพันธ์ระหว่างอัตราการเปลี่ยนแปลงของค่าไฟฟ้ากับอัตราการเปลี่ยนแปลงของต้นทุนในการจำหน่ายกระแสไฟแต่ละประเภท
และอัตราการเปลี่ยนแปลงของกำไรสุทธิจากการจำหน่ายกระแสไฟ
ในช่วงวิกฤติการณ์น้ำมัน โดยใช้ พ.ศ. 2517 เป็นปีฐาน

```
1SPSS BATCH SYSTEM                                                              05/17/85        PAGE    1

 SPSS VERSION H, RELEASE 8.1, AUGUST 15, 198C.  CPU IS A PERKIN-ELMER 323C
0                        CURRENT DOCUMENTATION FOR THE SPSS BATCH SYSTEM
 ORDER FROM MCGRAW-HILL:  SPSS, 2ND ED. (PRINCIPAL TEXT)      ORDER FROM SPSS INC.:  SPSS STATISTICAL ALGORITHMS
                          SPSS PRIMER (BRIEF INTRO TO SPSS)                         SPSS POCKET GUIDE, RELEASE 8
                          SPSS UPDATE (USE W/SPSS,2ND FOR REL. 7 & 8)               KEYWORDS: THE SPSS INC. NEWSLETTER
-DEFAULT SPACE ALLOCATION..      ALLOWS FOR..    315 TRANSFORMATIONS
  WORKSPACE     220888 BYTES                    1262 RECODE VALUES + LAG VARIABLES
  TRANSPACE      31552 BYTES                    5049 IF/COMPUTE OPERATIONS

                    1 RUN NAME        Q12
                    2 VARIABLE LIST   Y X1 TO X6
                    3 INPUT FORMAT    FREEFIELD
                    4 N OF CASES      9
                    5 INPUT MEDIUM    CARD
                    6 PRINT FORMATS   ALL(2)
                    7 LIST CASES      CASES=9/VARIABLES=Y TO X6
                    8 READ INPUT DATA
1Q12                                                                            05/17/85        PAGE    2

 FILE    NONAME    (CREATION DATE = 05/17/85)
0    CASE-N          Y          X1          X2          X3          X4          X5          X6

           1       19.91       25.20       16.14       26.80       14.41       -7.85       -1.94
           2       23.48       31.61       23.77       37.11       21.61       -2.09      -20.19
           3       29.48       36.51       21.52       37.11       20.76       -6.81        1.55
           4       60.66       64.44       24.22       39.18       25.85       -5.76       97.48
           5       60.66       63.73       54.26       73.20       47.46       -3.14       72.23
           6      106.09      119.65       74.44      100.00       63.98       28.27       76.70
           7      232.52      280.00       91.93      121.65       76.69       55.50      122.52
           8      274.72      326.02      134.98      165.98      107.20       70.68      152.82
           9      273.90      319.78      143.95      174.23      161.44       80.10      158.83
1Q12                                                                            05/17/85        PAGE    3

                    9 REGRESSION      VARIABLES=Y X1 TO X6/REGRESSION=Y WITH X1 TO X6/
                   10                 REGRESSION=Y WITH X1 /REGRESSION=Y WITH X2/
                   11                 REGRESSION=Y WITH X3 /REGRESSION=Y WITH X4/
                   12                 REGRESSION=Y WITH X5 /REGRESSION=Y WITH X6/
                   13 STATISTICS      ALL

  ***** REGRESSION PROBLEM REQUIRES   1232 BYTES WORKSPACE, NOT INCLUDING RESIDUALS *****
```

1Q12 05/17/85 PAGE 4

FILE NONAME (CREATION DATE = 05/17/85)

VARIABLE	MEAN	STANDARD DEV	CASES
Y	120.1578	109.0000	9
X1	140.7711	129.4687	9
X2	65.0233	49.6245	9
X3	86.1400	57.3249	9
X4	59.9333	49.0252	9
X5	23.2111	36.3966	9
X6	73.3333	67.2758	9

1Q12 05/17/85 PAGE 5

FILE NONAME (CREATION DATE = 05/17/85)

OCORRELATION COEFFICIENTS
OA VALUE OF 99.00000 IS PRINTED
IF A COEFFICIENT CANNOT BE COMPUTED.

	Y	X1	X2	X3	X4	X5	X6
Y	1.00000	0.99926	0.96457	0.96779	0.91996	0.98348	0.89722
X1	0.99926	1.00000	0.95854	0.96193	0.91114	0.98385	0.88175
X2	0.96457	0.95854	1.00000	0.99903	0.96813	0.97313	0.87430
X3	0.96779	0.96193	0.99903	1.00000	0.96205	0.97505	0.87911
X4	0.91996	0.91114	0.96813	0.96205	1.00000	0.94261	0.84466
X5	0.98348	0.98385	0.97313	0.97505	0.94261	1.00000	0.83879
X6	0.89722	0.88175	0.87430	0.87911	0.84466	0.83879	1.00000

1Q12 05/17/85 PAGE 6

FILE NONAME (CREATION DATE = 05/17/85)

O* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X1

OMULTIPLE R 0.99926
R SQUARE 0.99853
ADJUSTED R SQUARE 0.99832
STANDARD ERROR 4.46980

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	1.	94908.07100	94908.07100	4750.3597
RESIDUAL	7.	139.85393	19.97913	

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.8412825	0.99926	0.01221	4750.360
(CONSTANT)	1.729490			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.08297	0.61637	0.08120	3.67
X3	0.08788	0.62610	0.07469	3.86
X4	0.05588	0.60031	0.16983	3.38
X5	0.01107	0.05166	0.03203	0.01
X6	0.07245	0.89098	0.22252	23.10

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 2.. X6

0MULTIPLE R	0.99985	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99970	REGRESSION	2.	95019.09367	47509.54684	9887.0909
ADJUSTED R SQUARE	0.99960	RESIDUAL	6.	28.83126	4.80521	
STANDARD ERROR	2.19208					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.7874974	0.93538	0.01269	3850.929
X6	0.1173875	0.07245	0.02442	23.105
(CONSTANT)	0.6924626			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X2	0.05981	0.95530	0.07740	52.21
X3	0.06141	0.93547	0.07039	35.03
X4	0.04008	0.92673	0.16217	30.42
X5	0.08598	0.33090	0.02833	11.15

1012 05/17/85 PAGE 7

FILE NONAME (CREATION DATE = 05/17/85)

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y

0VARIABLE(S) ENTERED ON STEP NUMBER 3.. X2

0MULTIPLE R	0.99999	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	0.99997	REGRESSION	3.	95045.40515	31681.80172	62866.2140
ADJUSTED R SQUARE	0.99996	RESIDUAL	5.	2.51978	0.50396	
STANDARD ERROR	0.70990					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.7450413	0.88495	0.00717	10796.432
X6	0.1047136	0.06463	0.00810	167.082
X2	0.1313632	0.05981	0.01818	52.210
(CONSTANT)	-0.9432011			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	-0.02392	-0.18881	0.00165	0.14
X4	0.01958	0.92360	0.05897	23.21
X5	0.03046	0.68831	0.01354	3.60

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 4.. X4

0MULTIPLE R	1.00000	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	1.00000	REGRESSION	4.	95047.55461	23761.88865	256662.6905
ADJUSTED R SQUARE	0.99999	RESIDUAL	4.	0.37032	0.09258	
STANDARD ERROR	0.30427					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.7487689	0.88938	0.00317	55822.211
X6	0.1036222	0.06396	0.00348	886.868
X2	0.8169015E-01	0.03719	0.01292	39.961
X4	0.4354115E-01	0.01959	0.00904	23.217
(CONSTANT)	-0.7675658			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	0.03469	99999.99999	0.00133	99999.99
X5	0.01546	0.81799	0.01091	6.06

198

1Q12 05/17/85 PAGE 8

FILE NONAME (CREATION DATE = 05/17/85)

0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0VARIABLE(S) ENTERED ON STEP NUMBER 5.. X5

0MULTIPLE R	1.00000	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	1.00000	REGRESSION	5.	95047.80239	19009.56048	465406.6772
ADJUSTED R SQUARE	1.00000	RESIDUAL	3.	0.12254	0.04085	
STANDARD ERROR	0.20210					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.7386607	0.87737	0.00461	25647.291
X6	0.1084679	0.06695	0.00304	1277.146
X2	0.7512460E-01	0.03420	0.00899	69.864
X4	0.3628895E-01	0.01632	0.00669	29.464
X5	0.4628743E-01	0.01546	0.01879	6.066
(CONSTANT)	0.8721286E-01			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F
X3	0.01875	99999.99999	0.00107	99999.99

* *

0VARIABLE(S) ENTERED ON STEP NUMBER 6.. X3

0MULTIPLE R	1.00000	ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
R SQUARE	1.00000	REGRESSION	6.	95047.83806	15841.30634	364715.6337
ADJUSTED R SQUARE	1.00000	RESIDUAL	2.	0.08687	0.04343	
STANDARD ERROR	0.20841					

------------------ VARIABLES IN THE EQUATION ------------------

VARIABLE	B	BETA	STD ERROR B	F
X1	0.7401127	0.87910	0.00502	21744.959
X6	0.1070049	0.06604	0.00352	923.165
X2	0.3402712E-01	0.01549	0.04629	0.540
X4	0.4073646E-01	0.01832	0.00846	23.171
X5	0.3761634E-01	0.01256	0.02161	3.029
X3	0.3564421E-01	0.01875	0.03934	0.821
(CONSTANT)	-0.4732897			

------------- VARIABLES NOT IN THE EQUATION -------------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

199

MAXIMUM STEP REACHED
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q12 05/17/85 PAGE 9

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 1

DEPENDENT VARIABLE.. Y
0
SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.99926	0.99853	0.99853	0.99926	0.7401127	0.87910
X6	0.99985	0.99970	0.00117	0.89722	0.1070049	0.06604
X2	0.99999	0.99997	0.00028	0.96457	0.3402712E-01	0.01549
X4	1.00000	1.00000	0.00002	0.91996	0.4073646E-01	0.01832
X5	1.00000	1.00000	0.00000	0.98348	0.3761634E-01	0.01256
X3	1.00000	1.00000	0.00000	0.96779	0.3564421E-01	0.01875
(CONSTANT)					-0.4732897	

1Q12 05/17/85 PAGE 10

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X1

OMULTIPLE R. 0.99926
R SQUARE 0.99853
ADJUSTED R SQUARE 0.99832
STANDARD ERROR 4.46980

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	1.	94908.07100	94908.07100	4750.3597
RESIDUAL	7.	139.85393	19.97913	

VARIABLES IN THE EQUATION

VARIABLE	B	BETA	STD ERROR B	F
X1	0.8412825	0.99926	0.01221	4750.360
(CONSTANT)	1.729490			

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q12 05/17/85 PAGE 11

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 2

DEPENDENT VARIABLE.. Y
0
SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X1	0.99926	0.99853	0.99853	0.99926	0.8412825	0.99926
(CONSTANT)					1.729490	

1Q12 05/17/85 PAGE 12

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 3

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X2

OMULTIPLE R 0.96457
R SQUARE 0.93040
ADJUSTED R SQUARE 0.92045
STANDARD ERROR 30.74211

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	1.	88432.38223	88432.38223	93.5715
RESIDUAL	7.	6615.54270	945.07753	

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X2	2.118677	0.96457	0.21902	93.572
(CONSTANT)	-17.60565			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.

1Q12 05/17/85 PAGE 13

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 3

0DEPENDENT VARIABLE.. Y

SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X2	0.96457	0.93040	0.93040	0.96457	2.118677	0.96457
(CONSTANT)					-17.60565	

1Q12 05/17/85 PAGE 14

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 4

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X3

OMULTIPLE R 0.96779
R SQUARE 0.93661
ADJUSTED R SQUARE 0.92756
STANDARD ERROR 29.33759

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	1.	89023.06450	89023.06450	103.4316
RESIDUAL	7.	6024.86043	860.69435	

---------- VARIABLES IN THE EQUATION ----------

VARIABLE	B	BETA	STD ERROR B	F
X3	1.840192	0.96779	0.18094	103.432
(CONSTANT)	-38.35637			

---------- VARIABLES NOT IN THE EQUATION ----------

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q12 05/17/85 PAGE 15

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 4

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X3	0.96779	0.93661	0.93661	0.96779	1.840192	0.96779
(CONSTANT)					-38.35637	

1Q12 05/17/85 PAGE 16

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 5

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X4

OMULTIPLE R 0.91996
R SQUARE 0.84632
ADJUSTED R SQUARE 0.82437
STANDARD ERROR 45.68004

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	1.	80441.25959	80441.25959	38.5501
RESIDUAL	7.	14606.66534	2086.66648	

VARIABLES IN THE EQUATION

VARIABLE	B	BETA	STD ERROR B	F
X4	2.045385	0.91996	0.32943	38.550
(CONSTANT)	-2.428977			

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

MAXIMUM STEP REACHED
OSTATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q12 05/17/85 PAGE 17

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 5

DEPENDENT VARIABLE.. Y
0 SUMMARY TABLE

VARIABLE	MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	B	BETA
X4	0.91996	0.84632	0.84632	0.91996	2.045385	0.91996
(CONSTANT)					-2.428977	

1Q12 05/17/85 PAGE 18

FILE NONAME (CREATION DATE = 05/17/85)
0* M U L T I P L E R E G R E S S I O N * * * * * * * * * * * * * VARIABLE LIST 1
REGRESSION LIST 6

DEPENDENT VARIABLE.. Y
OVARIABLE(S) ENTERED ON STEP NUMBER 1.. X5

OMULTIPLE R 0.98348
R SQUARE 0.96724
ADJUSTED R SQUARE 0.96256
STANDARD ERROR 21.09081

ANALYSIS OF VARIANCE	DF	SUM OF SQUARES	MEAN SQUARE	F
REGRESSION	1.	91934.16920	91934.16920	206.6761
RESIDUAL	7.	3113.75573	444.82225	

VARIABLES IN THE EQUATION

VARIABLE	B	BETA	STD ERROR B	F
X5	2.945319	0.98348	0.20487	206.676
(CONSTANT)	51.793o4			

VARIABLES NOT IN THE EQUATION

VARIABLE	BETA IN	PARTIAL	TOLERANCE	F

```
 MAXIMUM STEP REACHED
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q12                                                              05/17/85        PAGE   19

 FILE   NONAME   (CREATION DATE = 05/17/85)
0* * * * * * * * * * * * * * * * * * * * * * M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                  REGRESSION LIST  6
 DEPENDENT VARIABLE..     Y
0
                                                SUMMARY TABLE

 VARIABLE                                  MULTIPLE R  R SQUARE  RSQ CHANGE   SIMPLE R             B                 BETA

 X5                                          0.98348    0.96724    0.96724     0.98348        2.945319              0.98348
 (CONSTANT)                                                                                   51.79364
1Q12                                                              05/17/85        PAGE   20

 FILE   NONAME   (CREATION DATE = 05/17/85)
0* * * * * * * * * * * * * * * * * * * * * * M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                  REGRESSION LIST  7
 DEPENDENT VARIABLE..     Y
0VARIABLE(S) ENTERED ON STEP NUMBER  1..     X6

0MULTIPLE R           0.89722                 ANALYSIS OF VARIANCE    DF       SUM OF SQUARES        MEAN SQUARE            F
 R SQUARE             0.80501                 REGRESSION               1.       76514.57230        76514.57230         28.8993
 ADJUSTED R SQUARE    0.77715                 RESIDUAL                 7.       18533.35263         2647.62180
 STANDARD ERROR      51.45505

 ----------------- VARIABLES IN THE EQUATION -----------------          ------------- VARIABLES NOT IN THE EQUATION -------------

 VARIABLE           B           BETA      STD ERROR B        F         VARIABLE      BETA IN     PARTIAL   TOLERANCE         F

 X6           1.453678        0.89722        0.27041      28.899
 (CONSTANT)  13.55475

 MAXIMUM STEP REACHED
0STATISTICS WHICH CANNOT BE COMPUTED ARE PRINTED AS ALL NINES.
1Q12                                                              05/17/85        PAGE   21

 FILE   NONAME   (CREATION DATE = 05/17/85)
0* * * * * * * * * * * * * * * * * * * * * * M U L T I P L E   R E G R E S S I O N * * * * * * * * * * * * * *   VARIABLE LIST  1
                                                                                                                  REGRESSION LIST  7
 DEPENDENT VARIABLE..     Y
0
                                                SUMMARY TABLE

 VARIABLE                                  MULTIPLE R  R SQUARE  RSQ CHANGE   SIMPLE R             B                 BETA

 X6                                          0.89722    0.80501    0.80501     0.89722        1.453678              0.89722
 (CONSTANT)                                                                                   13.55475
1Q12                                                              05/17/85        PAGE   22

0CPU TIME REQUIRED..    2.19 SECONDS


                14 FINISH         (SPSS GENERATED)
0          NORMAL END OF JOB.
             14 CONTROL CARDS WERE PROCESSED.
              0 ERRORS WERE DETECTED.
```

ประวัติผู้เขียน

นางกรรณิการ์ สิงหะคเชนทร์ เกิดวันที่ 18 มกราคม 2493 สำเร็จการศึกษาบัญชีบัณฑิต (เกียรตินิยมดี) คณะพาณิชยศาสตร์และการบัญชี มหาวิทยาลัยธรรมศาสตร์ เมื่อปีการศึกษา 2513 ทำงานในตำแหน่งนักบริหาร 8 รองหัวหน้ากองงบประมาณ การไฟฟ้านครหลวง