

มหาวิทยาลัยเชียงใหม่  
Chiang Mai University

ภาคผนวก

```

SET PRINTER = ON.
@ 'A:THESIS.COM'.
TITLE SHANNASOOD IRRIGATION PROJECT.
DATA LIST FILE = 'A:THESIS.DAT'
  /ID 1-2 AT 3-8 IT 9-11 PT 12-15.

```

Previous case limit, set by the N command, is being discarded.  
N 11.

```

THE CASE LIMIT IS SET TO:      11
variable labels
  ID 'IDENTIFICATION NUMBER'/
  AT 'AREA'/
  IT 'IRRIGATION'/
  PT 'PRICE'.

```

list.  
The raw data or transformation pass is proceeding  
Case processing stopped because N reached.  
11 cases are written to the uncompressed active file.

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Page 7 SHANNASOOD IRRIGATION PROJECT 2/28/ 0

ID	AT	IT	PT
1	140098	310	2605
2	198614	390	2221
3	204589	367	2944
4	241815	147	3748
5	184563	377	4254
6	92885	461	3467
7	61018	170	3909
8	33678	94	3547
9	16046	155	2746
10	82691	418	3094
11	235322	527	4251

Number of cases read = 11 Number of cases listed = 11

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This procedure was completed at 16:18:29
REGRESSION DESCRIPTIVES = DEFAULTS
/VARIABLES = AT IT PT
/DEPENDENT = AT
/METHOD = ENTER.

```

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Page 9 SHANNASOOD IRRIGATION PROJECT -2/28/ 0

\*\*\* MULTIPLE REGRESSION \*\*\*

Listwise Deletion of Missing Data

	Mean	Std Devia	Label
AT	135573.727	82001.977	AREA
IT	310.545	145.787	IRRIGATION
PT	3344.182	676.527	PRICE

N of Cases = 11

Correlation:

	AT	IT	PT
AT	1.000	.463	.167
IT	.463	1.000	.041

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PT .167 .041 1.000

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\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Beginning Block Number 1. Method: Enter

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\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Variable(s) Entered on Step Number

1.. PT PRICE  
2.. IT IRRIGATION

Multiple R .48665  
R Square .23683  
Adjusted R Square .04504  
Standard Error 80092.14148

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	15925232635.81239	7962616317.98620
Residual	8	51318009016.36942	6414751127.04618

F = 1.24130 Signif F = .3392

Page 12 SHANNASOOD IRRIGATION PROJECT 2/28/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
PT	18.00784	37.46912	.14857	.481	.6437
IT	257.24525	173.87588	.45734	1.479	.1773
(Constant)	-4534.11803	136537.7875		-.033	.9743

End Block Number 1 All requested variables entered.

Page 13 SHANNASOOD IRRIGATION PROJECT 2/28/ 0

This procedure was completed at 16:20:13

@ 'A:thesis.com'.  
 TITLE SAM-SHOOK IRRIGATION PROJECT.  
 DATA LIST FILE = 'A:THESIS1.DAT'  
 /ID 1-2 AT 3-8 IT 9-11 PT 12-15.

N 11.  
 THE CASE LIMIT IS SET TO: 11

variable labels  
 ID 'IDENTIFICATION NUMBER'/  
 AT 'AREA'/  
 IT 'IRRIGATION'/  
 PT 'PRICE'.

list.  
 The raw data or transformation pass is proceeding  
 Case processing stopped because N reached.  
 11 cases are written to the uncompressed active file.

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 Page 2 SAM-SHOOK IRRIGATION PROJECT 4/3/ 0

ID AT IT PT

1 164273 217 2605  
 2 96873 256 2253  
 3 155723 239 2947  
 4 200578 346 3759  
 5 233401 199 4245  
 6 81148 144 3526  
 7 153263 151 3934  
 8 102511 145 3563  
 9 74019 99 2675  
 10 142595 346 3073  
 11 236230 220 4306

Number of cases read = 11 Number of cases listed = 11

-----  
 Page 3 SAM-SHOOK IRRIGATION PROJECT 4/3/ 0

This procedure was completed at 11:01:41  
 REGRESSION DESCRIPTIVES = DEFAULTS  
 /VARIABLES = AT IT PT  
 /DEPENDENT = AT  
 /METHOD = ENTER.

-----  
 Page 4 SAM-SHOOK IRRIGATION PROJECT 4/3/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Listwise Deletion of Missing Data

	Mean	Std Devia	Label
AT	149146.727	57301.667	AREA
IT	214.727	80.222	IRRIGATION
PT	3353.273	689.400	PRICE

N of Cases = 11

Correlation:

	AT	IT	PT
AT	1.000	.425	.648
IT	.425	1.000	-.063
PT	.648	-.063	1.000

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 Page 5 SAM-SHOOK IRRIGATION PROJECT 4/3/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Beginning Block Number 1. Method: Enter

Page 6 SAM-SHOOK IRRIGATION PROJECT 4/3/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Variable(s) Entered on Step Number

- 1.. PT PRICE
- 2.. IT IRRIGATION

Multiple R .79920  
 R Square .63872  
 Adjusted R Square .54840  
 Standard Error 38507.44454

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	20972224655.26859	10486112327.6343
Residual	8	11862586278.91323	1482823284.86415

F = 7.07172 Signif F = .0170

Page 7 SAM-SHOOK IRRIGATION PROJECT 4/3/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
PT	56.34761	17.69856	.67792	3.184	.0129
IT	334.38040	152.09466	.46813	2.199	.0591
(Constant)	-111602.7634	70483.59375		-1.583	.1520

End Block Number 1 All requested variables entered.

Page 8 SAM-SHOOK IRRIGATION PROJECT 4/3/ 0

This procedure was completed at 11:01:47

@ 'A:THESIS.COM'.  
 TITLE MAHARAD IRRIGATION PROJECT.  
 DATA LIST FILE = 'A:THESIS2.DAT'  
 /ID 1-2 AT 3-8 IT 9-11 PT 12-15.

N 11.  
 THE CASE LIMIT IS SET TO: 11

variable labels  
 ID 'IDENTIFICATION NUMBER'/  
 AT 'AREA'/  
 IT 'IRRIGATION'/  
 PT 'PRICE'.

list.  
 The raw data or transformation pass is proceeding  
 Case processing stopped because N reached.  
 11 cases are written to the uncompressed active file.

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 Page 2 MAHARAD IRRIGATION PROJECT 3/7/ 0

ID	AT	IT	PT
1	78703	256	2605
2	12506	89	2244
3	92394	177	3022
4	19197	118	3799
5	129306	232	4233
6	7317	86	3465
7	6984	43	3865
8	1975	55	3483
9	1987	64	2727
10	27155	115	3053
11	173754	370	4182

Number of cases read = 11 Number of cases listed = 11

-----  
 Page 3 MAHARAD IRRIGATION PROJECT 3/7/ 0

This procedure was completed at 15:54:50  
 REGRESSION DESCRIPTIVES = DEFAULTS  
 /VARIABLES = AT IT PT  
 /DEPENDENT = AT  
 /METHOD = ENTER.

-----  
 Page 4 MAHARAD IRRIGATION PROJECT 3/7/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Listwise Deletion of Missing Data

	Mean	Std Devia	Label
AT	50116.182	59486.000	AREA
IT	145.909	102.392	IRRIGATION
PT	3334.364	657.963	PRICE

N of Cases = 11

Correlation:

	AT	IT	PT
AT	1.000	.953	.431
IT	.953	1.000	.310
PT	.431	.310	1.000

-----  
 Page 5 MAHARAD IRRIGATION PROJECT

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Beginning Block Number 1. Method: Enter

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\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Variable(s) Entered on Step Number

- 1.. PT PRICE
- 2.. IT IRRIGATION

Multiple R .96316  
 R Square .92768  
 Adjusted R Square .90959  
 Standard Error 17886.01258

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	32826565957.67113	16413282978.8356
Residual	8	2559275567.96524	319909445.99565

F = 51.30603      Signif F = .0000

Page 7 MAHARAD IRRIGATION PROJECT 3/7/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
PT	13.54670	9.04193	.14984	1.498	.1725
IT	526.41612	58.10278	.90611	9.060	.0000
(Constant)	-71862.33058	29179.13100		-2.463	.0391

End Block Number 1 All requested variables entered.

Page 8 MAHARAD IRRIGATION PROJECT 3/7/ 0

This procedure was completed at 15:55:37

@ 'A:THESIS.COM'.  
 TITLE RUENG-RANG IRRIGATION PROJECT.  
 DATA LIST FILE = 'A:THESIS3.DAT'  
 /ID 1-2 AT 3-8 IT 9-11 PT 12-15.

Previous case limit, set by the N command, is being discarded.

N 9.  
 THE CASE LIMIT IS SET TO: 9  
 variable labels  
 ID 'IDENTIFICATION NUMBER'/  
 AT 'AREA'/  
 IT 'IRRIGATION'/  
 PT 'PRICE'.

list.  
 The raw data or transformation pass is proceeding  
 Case processing stopped because N reached.  
 9 cases are written to the uncompressed active file.

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 Page 16 RUENG-RANG IRRIGATION PROJECT 2/28/ 0

ID	AT	IT	PT
1	15097	177	3008
2	11500	183	3799
3	15991	109	4287
4	820	200	3465
5	7130	147	3865
6	234	88	3480
7	32	74	2727
8	4647	32	3058
9	34013	279	4188

Number of cases read = 9 Number of cases listed = 9

-----  
 Page 17 RUENG-RANG IRRIGATION PROJECT 2/28/ 0

This procedure was completed at 16:43:27  
 REGRESSION DESCRIPTIVES = DEFAULTS  
 /VARIABLES = AT IT PT  
 /DEPENDENT = AT  
 /METHOD = ENTER.

-----  
 Page 18 RUENG-RANG IRRIGATION PROJECT 2/28/ 0

\*\*\* MULTIPLE REGRESSION \*\*\*

Listwise Deletion of Missing Data

	Mean	Std Devia	Label
AT	9940.444	10935.112	AREA
IT	143.222	75.647	IRRIGATION
PT	3541.889	540.385	PRICE

N of Cases = 9

Correlation:



	AT	IT	PT
AT	1.000	.692	.608
IT	.692	1.000	.504
PT	.608	.504	1.000

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\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Beginning Block Number 1. Method: Enter

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\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Variable(s) Entered on Step Number

- 1.. PT PRICE
- 2.. IT IRRIGATION

Multiple R .75423  
 R Square .56887  
 Adjusted R Square .42515  
 Standard Error 8290.84542

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	544184719.20052	272092359.60026
Residual	6	412428707.02170	68738117.83695

F = 3.95839 Signif F = .0801

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\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
PT	7.02666	6.28168	.34724	1.119	.3061
IT	74.72777	44.87334	.51695	1.665	.1469
(Constant)	-25649.87626	19993.43902		-1.283	.2468

End Block Number 1 All requested variables entered.

Page 22 RUENG-RANG IRRIGATION PROJECT 2/28/ 0

This procedure was completed at 16:44:14

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BYE  
@ 'A:THESIS.COM',  
TITLE MAIN AREA IRRIGATION PROJECT.  
DATA LIST FILE = 'A:THESIS4.DAT'  
/ID 1-2 AT 3-8 IT 9-11 PT 12-15.

N 9.  
THE CASE LIMIT IS SET TO: 9

variable labels  
ID 'IDENTIFICATION NUMBER'/  
AT 'AREA'/  
IT 'IRRIGATION'/  
PT 'PRICE'.

list.  
The raw data or transformation pass is proceeding  
Case processing stopped because N reached.  
9 cases are written to the uncompressed active file.

-----  
Page 2 MAIN AREA IRRIGATION PROJECT 2/28/ 0

ID	AT	IT	PT
1	116951	240	2980
2	118272	198	3776
3	140815	229	4254
4	45542	215	3481
5	57099	128	3893
6	34597	95	3518
7	23021	98	2719
8	64272	228	3069
9	169830	349	4232

Number of cases read = 9 Number of cases listed = 9

-----  
Page 3 MAIN AREA IRRIGATION PROJECT 2/28/ 0

This procedure was completed at 16:47:10  
REGRESSION DESCRIPTIVES = DEFAULTS  
/VARIABLES = AT IT PT  
/DEPENDENT = AT  
/METHOD = ENTER.

-----  
Page 4 MAIN AREA IRRIGATION PROJECT 2/28/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Listwise Deletion of Missing Data

	Mean	Std Devia	Label
AT	85599.889	51941.079	AREA
IT	197.778	80.796	IRRIGATION
PT	3546.889	545.663	PRICE

N of Cases = 9

Correlation:

	AT	IT	PT
AT	1.000	.832	.629
IT	.832	1.000	.419
PT	.629	.419	1.000

-----  
Page 5 MAIN AREA IRRIGATION PROJECT 2/28/ 0

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\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Beginning Block Number 1. Method: Enter

Page 6 MAIN AREA IRRIGATION PROJECT 2/28/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

Variable(s) Entered on Step Number

1.. PT PRICE  
2.. IT IRRIGATION

Multiple R .88772  
R Square .78805  
Adjusted R Square .71740  
Standard Error 27612.19035

Analysis of Variance

	DF	Sum of Squares	Mean Square
Regression	2	17008406772.66373	8504203386.33186
Residual	6	4574598336.22516	762433056.03753

F = 11.15403 Signif F = .0095

Page 7 MAIN AREA IRRIGATION PROJECT 2/28/ 0

\*\*\*\* MULTIPLE REGRESSION \*\*\*\*

Equation Number 1 Dependent Variable.. AT AREA

----- Variables in the Equation -----

Variable	B	SE B	Beta	T	Sig T
PT	32.44619	19.69999	.34086	1.647	.1507
IT	443.13612	133.04616	.68931	3.331	.0158
(Constant)	-117125.6323	64188.13063		-1.825	.1178

End Block Number 1 All requested variables entered.

Page 8 MAIN AREA IRRIGATION PROJECT 2/28/ 0

This procedure was completed at 16:48:06

## ประวัติผู้เขียน

ชื่อ นายประวัติ รัตนภุมมะ  
วัน เดือน ปี 11 มกราคม 2499  
ประวัติการศึกษา สำเร็จการศึกษาปริญญาตรีแพทยศาสตรบัณฑิต มหาวิทยาลัย  
เกษตรศาสตร์ ปีการศึกษา 2523  
อาชีพ รับราชการ ตำแหน่ง ปศุสัตว์จังหวัดแม่ฮ่องสอน (พ.ศ. 2534 – 2540)  
ตำแหน่ง ปศุสัตว์จังหวัดสงขลา (พ.ศ. 2540 – ปัจจุบัน)