ภาคผนวก

ผลการทดสอบยูนิทรูท(Unit Root Test)

MARKET

1.WITH INTERCEPT&TREND

ADF Test Statistic	-9.774622	1% Critical Value*	-4.0004
		5% Critical Value	-3.4302
		10% Critical Value	-3.1384

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RM)
Method: Least Squares
Date: 04/22/04   Time: 14:37
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RM(-1)	-0.867709	0.088772	-9.774622	0.0000
D(RM(-1))	-0.037042	0.066100	-0.560385	0.5758
C	0.105975	0.494728	0.214208	0.8306
@TREND(1)	0.003293	0.003639	0.904922	0.3665
R-squared	0.451001	Mean dependent var		0.021488
Adjusted R-squared	0.443841	S.D. dependent var		5.024107
S.E. of regression	3.746783	Akaike info criterion		5.496619
Sum squared resid	3228.829	Schwarz criterion		5.555684
Log likelihood	-639.1044	F-statistic		62.98153
Durbin-Watson stat	1.994793	Prob(F-statistic)		0.000000

2.WITH INTERCEPT& WITHOUT TREND

ADF Test Statistic	-9.736883	1%	Critical Value*	-3.4598
		5%	Critical Value	-2.8740
		10%	Critical Value	-2.5733

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RM)
Method: Least Squares
Date: 04/22/04   Time: 14:36
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RM(-1)	-0.861013	0.088428	-9.736883	0.0000
D(RM(-1))	-0.040141	0.065986	-0.608326	0.5436
C	0.492581	0.249367	1.975323	0.0494
R-squared	0.449047	Mean dependent var		0.021488
Adjusted R-squared	0.444277	S.D. dependent var		5.024107
S.E. of regression	3.745314	Akaike info criterion		5.491626
Sum squared resid	3240.325	Schwarz criterion		5.535925
Log likelihood	-639.5202	F-statistic		94.13665
Durbin-Watson stat	1.994663	Prob(F-statistic)		0.000000

3. WITHOUT INTERCEPT & TREND

ADF Test Statistic	-9.476229	1%	Critical Value*	-2.5744
		5%	Critical Value	-1.9410
		10%	Critical Value	-1.6164

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RM)
Method: Least Squares
Date: 04/22/04   Time: 14:36
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RM(-1)	-0.827884	0.087364	-9.476229	0.0000
D(RM(-1))	-0.056341	0.065882	-0.855174	0.3933
R-squared	0.439740	Mean dependent var		0.021488
Adjusted R-squared	0.437325	S.D. dependent var		5.024107
S.E. of regression	3.768665	Akaike info criterion		5.499829
Sum squared resid	3295.058	Schwarz criterion		5.529362
Log likelihood	-641.4800	F-statistic		182.0937
Durbin-Watson stat	1.994119	Prob(F-statistic)		0.000000

หลักทรัพย์ CPN

1.WITH INTERCEPT&TREND

ADF Test Statistic	-9.317009	1% Critical Value*	-4.0004
		5% Critical Value	-3.4302
		10% Critical Value	-3.1384

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_CPN)
Method: Least Squares
Date: 04/22/04   Time: 14:15
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_CPN(-1)	-0.863202	0.092648	-9.317009	0.0000
D(RI_CPN(-1))	-0.153023	0.064013	-2.390511	0.0176
C	2.777954	1.268820	2.189399	0.0296
@TREND(1)	-0.007610	0.009060	-0.839933	0.4018
R-squared	0.523037	Mean dependent var		0.017256
Adjusted R-squared	0.516815	S.D. dependent var		13.40493
S.E. of regression	9.317963	Akaike info criterion		7.318711
Sum squared resid	19969.62	Schwarz criterion		7.377777
Log likelihood	-852.2892	F-statistic		84.07245
Durbin-Watson stat	1.975966	Prob(F-statistic)		0.000000

2.WITH INTERCEPT& WITHOUT TREND

ADF Test Statistic	-9.285168	1% Critical Value*	-3.4598
		5% Critical Value	-2.8740
		10% Critical Value	-2.5733

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_CPN)
Method: Least Squares
Date: 04/22/04   Time: 14:14
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_CPN(-1)	-0.855712	0.092159	-9.285168	0.0000
D(RI_CPN(-1))	-0.157209	0.063778	-2.464966	0.0144
C	1.859313	0.642792	2.892556	0.0042
R-squared	0.521574	Mean dependent var		0.017256
Adjusted R-squared	0.517431	S.D. dependent var		13.40493
S.E. of regression	9.312021	Akaike info criterion		7.313227
Sum squared resid	20030.87	Schwarz criterion		7.357526
Log likelihood	-852.6476	F-statistic		125.9165
Durbin-Watson stat	1.975806	Prob(F-statistic)		0.000000

3. WITHOUT INTERCEPT & TREND

ADF Test Statistic	-8.686770	1% Critical Value*	-2.5744
		5% Critical Value	-1.9410
		10% Critical Value	-1.6164

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_CPN)
Method: Least Squares
Date: 04/22/04   Time: 14:12
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_CPN(-1)	-0.770139	0.088657	-8.686770	0.0000
D(RI_CPN(-1))	-0.200429	0.062979	-3.182459	0.0017
R-squared	0.504245	Mean dependent var		0.017256
Adjusted R-squared	0.502108	S.D. dependent var		13.40493
S.E. of regression	9.458712	Akaike info criterion		7.340260
Sum squared resid	20756.40	Schwarz criterion		7.369792
Log likelihood	-856.8104	F-statistic		235.9730
Durbin-Watson stat	1.984875	Prob(F-statistic)		0.000000

หลักทรัพย์ HEMR

1.WITH INTERCEPT&TREND

ADF Test Statistic	-10.63201	1% Critical Value*	-4.0004
		5% Critical Value	-3.4302
		10% Critical Value	-3.1384

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_HEM)
Method: Least Squares
Date: 04/22/04   Time: 14:21
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_HEM(-1)	-1.012699	0.095250	-10.63201	0.0000
D(RI_HEM(-1))	-0.041024	0.065705	-0.624365	0.5330
C	-0.436814	1.467281	-0.297703	0.7662
@TREND(1)	0.010663	0.010794	0.987944	0.3242
R-squared	0.527958	Mean dependent var		-0.074822
Adjusted R-squared	0.521801	S.D. dependent var		16.07138
S.E. of regression	11.11367	Akaike info criterion		7.671174
Sum squared resid	28408.12	Schwarz criterion		7.730239
Log likelihood	-893.5274	F-statistic		85.74841
Durbin-Watson stat	1.977518	Prob(F-statistic)		0.000000

2. WITH INTERCEPT & WITHOUT TREND

ADF Test Statistic	-10.58707	1% Critical Value*	-3.4598
		5% Critical Value	-2.8740
		10% Critical Value	-2.5733

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_HEM)
Method: Least Squares
Date: 04/22/04   Time: 14:20
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_HEM(-1)	-1.004873	0.094915	-10.58707	0.0000
D(RI_HEM(-1))	-0.044390	0.065613	-0.676549	0.4994
C	0.819748	0.731532	1.120592	0.2636
R-squared	0.525955	Mean dependent var		-0.074822
Adjusted R-squared	0.521851	S.D. dependent var		16.07138
S.E. of regression	11.11309	Akaike info criterion		7.666862
Sum squared resid	28528.67	Schwarz criterion		7.711161
Log likelihood	-894.0228	F-statistic		128.1479
Durbin-Watson stat	1.977228	Prob(F-statistic)		0.000000

3. WITHOUT INTERCEPT & TREND

ADF Test Statistic	-10.52250	1% Critical Value*	-2.5744
		5% Critical Value	-1.9410
		10% Critical Value	-1.6164

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_HEM)
Method: Least Squares
Date: 04/22/04   Time: 14:20
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_HEM(-1)	-0.992402	0.094312	-10.52250	0.0000
D(RI_HEM(-1))	-0.050688	0.065408	-0.774957	0.4392
R-squared	0.523378	Mean dependent var		-0.074822
Adjusted R-squared	0.521324	S.D. dependent var		16.07138
S.E. of regression	11.11921	Akaike info criterion		7.663736
Sum squared resid	28683.75	Schwarz criterion		7.693269
Log likelihood	-894.6571	F-statistic		254.7592
Durbin-Watson stat	1.977381	Prob(F-statistic)		0.000000

หลักทรัพย์ ITD

1.WITH INTERCEPT&TREND

ADF Test Statistic	-10.71665	1%	Critical Value*	-4.0004
		5%	Critical Value	-3.4302
		10%	Critical Value	-3.1384

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_ITD)
Method: Least Squares
Date: 04/22/04   Time: 14:27
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_ITD(-1)	-1.003756	0.093663	-10.71665	0.0000
D(RI_ITD(-1))	-0.003281	0.066285	-0.049506	0.9606
C	-2.200842	1.318333	-1.669413	0.0964
@TREND(1)	0.028612	0.009914	2.885924	0.0043
R-squared	0.502285	Mean dependent var		-0.019245
Adjusted R-squared	0.495793	S.D. dependent var		13.88858
S.E. of regression	9.861939	Akaike info criterion		7.432189
Sum squared resid	22369.30	Schwarz criterion		7.491254
Log likelihood	-865.5661	F-statistic		77.37058
Durbin-Watson stat	1.987443	Prob(F-statistic)		0.000000

2.WITH INTERCEPT& WITHOUT TREND

ADF Test Statistic	-10.16085	1% Critical Value*	-3.4598
		5% Critical Value	-2.8740
		10% Critical Value	-2.5733

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_ITD)
Method: Least Squares
Date: 04/22/04   Time: 14:27
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_ITD(-1)	-0.930617	0.091589	-10.16085	0.0000
D(RI_ITD(-1))	-0.038758	0.066160	-0.585815	0.5586
C	1.103696	0.663623	1.663138	0.0976
R-squared	0.484262	Mean dependent var		-0.019245
Adjusted R-squared	0.479797	S.D. dependent var		13.88858
S.E. of regression	10.01715	Akaike info criterion		7.459213
Sum squared resid	23179.32	Schwarz criterion		7.503512
Log likelihood	-869.7279	F-statistic		108.4509
Durbin-Watson stat	1.985179	Prob(F-statistic)		0.000000

3. WITHOUT INTERCEPT & TREND

ADF Test Statistic	-9.985893	1% Critical Value*	-2.5744
		5% Critical Value	-1.9410
		10% Critical Value	-1.6164

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_ITD)
Method: Least Squares
Date: 04/22/04   Time: 14:26
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_ITD(-1)	-0.905928	0.090721	-9.985893	0.0000
D(RI_ITD(-1))	-0.050833	0.066010	-0.770070	0.4420
R-squared	0.478087	Mean dependent var		-0.019245
Adjusted R-squared	0.475837	S.D. dependent var		13.88858
S.E. of regression	10.05521	Akaike info criterion		7.462569
Sum squared resid	23456.87	Schwarz criterion		7.492101
Log likelihood	-871.1205	F-statistic		212.5181
Durbin-Watson stat	1.985019	Prob(F-statistic)		0.000000

หลักทรัพย์ LH

1.WITH INTERCEPT&TREND

ADF Test Statistic	-10.02156	1% Critical Value*	-4.0004
		5% Critical Value	-3.4302
		10% Critical Value	-3.1384

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_LH)
Method: Least Squares
Date: 04/22/04   Time: 14:32
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_LH(-1)	-0.857675	0.085583	-10.02156	0.0000
D(RI_LH(-1))	0.017887	0.065955	0.271194	0.7865
C	1.051462	0.957371	1.098280	0.2732
@TREND(1)	7.97E-05	0.006980	0.011413	0.9909
R-squared	0.421429	Mean dependent var		-0.003816
Adjusted R-squared	0.413882	S.D. dependent var		9.420478
S.E. of regression	7.212160	Akaike info criterion		6.806360
Sum squared resid	11963.51	Schwarz criterion		6.865426
Log likelihood	-792.3441	F-statistic		55.84368
Durbin-Watson stat	1.999431	Prob(F-statistic)		0.000000

2.WITH INTERCEPT& WITHOUT TREND

ADF Test Statistic	-10.04341	1%	Critical Value*	-3.4598
		5%	Critical Value	-2.8740
		10%	Critical Value	-2.5733

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_LH)
Method: Least Squares
Date: 04/22/04   Time: 14:31
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_LH(-1)	-0.857669	0.085396	-10.04341	0.0000
D(RI_LH(-1))	0.017884	0.065811	0.271751	0.7861
C	1.060895	0.482107	2.200539	0.0288
R-squared	0.421428	Mean dependent var		-0.003816
Adjusted R-squared	0.416419	S.D. dependent var		9.420478
S.E. of regression	7.196534	Akaike info criterion		6.797814
Sum squared resid	11963.52	Schwarz criterion		6.842113
Log likelihood	-792.3442	F-statistic		84.12960
Durbin-Watson stat	1.999437	Prob(F-statistic)		0.000000

3. WITHOUT INTERCEPT & TREND

ADF Test Statistic	-9.719224	1%	Critical Value*	-2.5744
		5%	Critical Value	-1.9410
		10%	Critical Value	-1.6164

*MacKinnon critical values for rejection of hypothesis of a unit root.

Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RI_LH)
Method: Least Squares
Date: 04/22/04   Time: 14:31
Sample(adjusted): 3 236
Included observations: 234 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RI_LH(-1)	-0.816601	0.084019	-9.719224	0.0000
D(RI_LH(-1))	-0.002474	0.065695	-0.037651	0.9700
R-squared	0.409300	Mean dependent var		-0.003816
Adjusted R-squared	0.406754	S.D. dependent var		9.420478
S.E. of regression	7.255884	Akaike info criterion		6.810013
Sum squared resid	12214.30	Schwarz criterion		6.839545
Log likelihood	-794.7715	F-statistic		160.7544
Durbin-Watson stat	1.998808	Prob(F-statistic)		0.000000

การทดสอบเพื่อหาเส้นพรมแดนเชิงเฟ้นสุ่ม

หลักทรัพย์ CPN

the ols estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.19572009E+01	0.61212020E+00	0.31974126E+01
beta 1	0.58045084E+00	0.16228788E+00	0.35766739E+01
sigma-squared	0.86502670E+02		

log likelihood function = -0.86016591E+03

the estimates after the grid search were :

beta 0	0.36364540E+01
beta 1	0.58045084E+00
sigma-squared	0.88589488E+02
gamma	0.50000000E-01

mu is restricted to be zero

eta is restricted to be zero

the final mle estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.19790330E+01	0.60477846E+00	0.32723272E+01
beta 1	0.58042612E+00	0.16142778E+00	0.35955777E+01
sigma-squared	0.85770166E+02	0.79080049E+01	0.10845993E+02
gamma	0.86769922E-05	0.77123206E-04	0.11250819E+00

mu is restricted to be zero

eta is restricted to be zero

log likelihood function = -0.86016591E+03

หลักทรัพย์ HEMR

the ols estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.36292349E+00	0.69038943E+00	0.52567939E+00
beta 1	0.98822090E+00	0.18303895E+00	0.53989650E+01
sigma-squared	0.11003842E+03		

log likelihood function = -0.88856312E+03

the estimates after the grid search were :

beta 0	0.22568957E+01	
beta 1	0.98822090E+00	
sigma-squared	0.11269303E+03	
gamma	0.50000000E-01	

mu is restricted to be zero

eta is restricted to be zero

the final mle estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.40040139E+00	0.63896805E+01	0.62663757E-01
beta 1	0.98817689E+00	0.16150904E+00	0.61183998E+01
sigma-squared	0.10910688E+03	0.99798663E+01	0.10932699E+02
gamma	0.20087973E-04	0.72721788E-02	0.27623047E-02

mu is restricted to be zero

eta is restricted to be zero

log likelihood function = -0.88856312E+03

หลักทรัพย์ ITD

the ols estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.42873727E+00	0.56515641E+00	0.75861701E+00
beta 1	0.13507693E+01	0.14983665E+00	0.90149460E+01
sigma-squared	0.73738350E+02		

log likelihood function = -0.84132694E+03

the estimates after the grid search were :

beta 0	0.19791528E+01	
beta 1	0.13507693E+01	
sigma-squared	0.75517237E+02	
gamma	0.50000000E-01	

mu is restricted to be zero

eta is restricted to be zero

the final mle estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.46871848E+00	0.53114901E+00	0.88246135E+00
beta 1	0.13507699E+01	0.14821777E+00	0.91134140E+01
sigma-squared	0.73114612E+02	0.67558653E+01	0.10822390E+02
gamma	0.34285689E-04	0.14225804E-02	0.24101055E-01

mu is restricted to be zero

eta is restricted to be zero

log likelihood function = -0.84132694E+03

หลักทรัพย์ LH

the ols estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.55587006E+00	0.37235795E+00	0.14928379E+01
beta 1	0.12068989E+01	0.98721107E-01	0.12225338E+02
sigma-squared	0.32009386E+02		

log likelihood function = -0.74285667E+03

the estimates after the grid search were :

beta 0	0.15773741E+01
beta 1	0.12068989E+01
sigma-squared	0.32781591E+02
gamma	0.50000000E-01

mu is restricted to be zero

eta is restricted to be zero

the final mle estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.57369312E+00	0.26751830E+01	0.21445005E+00
beta 1	0.12068941E+01	0.99196548E-01	0.12166694E+02
sigma-squared	0.31738446E+02	0.26069403E+01	0.12174596E+02
gamma	0.15573265E-04	0.54522703E-02	0.28562900E-02

mu is restricted to be zero

eta is restricted to be zero

log likelihood function = -0.74285667E+03

ภาคผนวก ค
ผลการทดสอบหากำลังสองน้อยที่สุด

หลักทรัพย์ CPN

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+-------------------------------------------------------------+
| Ordinary    least squares regression     Weighting variable = none    |
| Dep. var. = RICPN  Mean= 2.280180642  S.D.= 9.531184758     |
| Model size: Observations =    236, Parameters =  2, Deg.Fr.=   234 |
| Residuals:  Sum of squares= 20241.62477 ,  Std.Dev.=       9.30068 |
| Fit:      R-squared= .051835,  Adjusted R-squared    =      .04778 |
| Model test  :  F[ 1,   234]  = 12.79,    Prob value =      .00042 |
| Diagnostic: Log-L = -860.1659, Restricted(b=0) Log-L =  -866.4467 |
|         LogAmemiyaPrCrt.=  4.469,    Akaike Info. Crt.=    7.306 |
| Autocorrel : Durbin-Watson Statistic =  2.07922,  Rho =     -.03961 |
+-------------------------------------------------------------+

+--------+-------------+---------------+--------+--------+---------+
|Variable | Coefficient | Standard Error |t-ratio |P[|T|>t] | Mean of X|
+--------+-------------+---------------+--------+--------+---------+

Constant 1.957200860    0 .61212020      3.197   .0016
RM       0.5804508371   0.16228788      3.577   .0004  .55642918
```

หลักทรัพย์ **HEMR**

```
+----------------------------------------------------------------+
| Ordinary    least squares regression      Weighting variable = none    |
| Dep. var. = RIHEMR Mean= .9127984364 , S.D.=  11.10040859    |
| Model size: Observations =   236,  Parameters = 2, Deg.Fr.=   234 |
| Residuals:  Sum of squares = 25748.99113, Std.Dev.=     10.48992 |
| Fit:      R-squared = .110769,  Adjusted R-squared =      .10697 |
| Model test  :  F[ 1,   234] = 29.15,   Prob value =      .00000 |
| Diagnostic: Log-L = -888.5631, Restricted(b=0) Log-L = -902.4162 |
|          LogAmemiyaPrCrt.=  4.709,   Akaike Info. Crt.=    7.547 |
| Autocorrel: Durbin-Watson Statistic =  2.16540,  Rho =    -.08270 |
+----------------------------------------------------------------+

+---------+---------------+----------------+--------+---------+----------+
|Variable | Coefficient | Standard Error |t-ratio |P[|T|>t] | Mean of X|
+---------+---------------+----------------+--------+---------+----------+
 Constant .3629234926    .69038943       .526  .5996
 RM      .9882209013    .18303895      5.399  .0000 .55642918
```

หลักทรัพย์ ITD

```
+----------------------------------------------------------------------+
| Ordinary    least squares regression    Weighting variable = none    |
| Dep. var. = RIITD  Mean= 1.180344718 , S.D.= 9.946117458    |
| Model size: Observations =   236, Parameters = 2, Deg.Fr.=  234 |
| Residuals: Sum of squares = 17254.77382   , Std.Dev. =  8.58710 |
| Fit:     R-squared = .257777,  Adjusted R-squared =    .25461 |
| Model test : F[ 1,  234]  =  81.27,  Prob value  =     .00000 |
| Diagnostic: Log-L = -841.3270, Restricted(b=0) Log-L = -876.5035 |
|        LogAmemiyaPrCrt .=   4.309, Akaike Info. Crt.=    7.147 |
| Autocorrel: Durbin-Watson Statistic = 2.13289,  Rho =   -.06645 |
+----------------------------------------------------------------------+

+---------+--------------+-----------------+---------+--------+----------+
|Variable | Coefficient | Standard Error |t-ratio |P[|T|>t] | Mean of X|
+---------+--------------+-----------------+---------+--------+----------+

  Constant .4287372677    .56515641       .759  .4488
  RM     1.350769298    .14983665       9.015  .0000 .55642918
```

หลักทรัพย์ LH

```
+----------------------------------------------------------------+
| Ordinary   least squares regression     Weighting variable = none   |
| Dep. var. = RILH  Mean =  1.227423807  , S.D.=  7.227101300    |
| Model size: Observations =    236, Parameters =  2, Deg.Fr.=   234 |
| Residuals: Sum of squares= 7490.196382 , Std.Dev  .=     5.65768 |
| Fit:      R-squared = .389765,   Adjusted R-squared =      .38716 |
| Model test : F[ 1,   234]  = 149.46,    Prob value  =     .00000 |
| Diagnostic: Log-L = -742.8567, Restricted(b=0) Log-L = -801.1382 |
|          LogAmemiyaPrCrt .=   3.474, Akaike Info. Crt.  =   6.312 |
| Autocorrel: Durbin-Watson Statistic =  1.80810,  Rho =     .09595 |
+----------------------------------------------------------------+

+--------+------------+------------+-------+--------+---------+
|Variable | Coefficient | Standard Error |t-ratio |P[|T|>t] | Mean of X|
+--------+------------+------------+-------+--------+---------+

 Constant .5558700641    .37235795      1.493  .1368
 RM      1.206898863    .98721107E-01  12.225  .0000 .55642918
```

ประวัติผู้เขียน

ชื่อ   นายกฤษฏ์ จิตพินิจยล

วัน เดือน ปี เกิด   3 เมษายน 2522

ประวัติการศึกษา   สำเร็จการศึกษามัธยมศึกษาตอนปลาย โรงเรียนพระปฐมวิทยาลัย
                       ปีการศึกษา 2540
                       สำเร็จการศึกษาปริญญาเศรษฐศาสตรบัณฑิต
                       มหาวิทยาลัยเชียงใหม่ ปีการศึกษา 2545