

มหาวิทยาลัยเชียงใหม่
Chiang Mai University

ภาคผนวก

ตัวอย่าง file ข้อมูลสำหรับการวิเคราะห์ด้วยโปรแกรม BILOG ชื่อ file male.dat

[illegible]

ตัวอย่าง file คำสั่งของโปรแกรม BILOG ชื่อ file male.blg

```

TITLE      LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL
>COMMENT   ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
>GLOBAL    DFNAME='d:\BILOG\male.DAT',NPARM=3,OMITS,SAVE;
>SAVE      cov='male.cov',PARM='male.PAR';
>LENGTH    NITEMS=80;
>INPUT      NTOTAL=80,NALT=4,NIDC=4,KFNAME='d:\BILOG\male.DAT',
            OFNAME='d:\BILOG\male.DAT';
            (4A1,80A1)
>TEST      TNAME=math;
>CALIB      FLOAT;
>SCORE      RSC=3;

```

ตัวอย่าง file out put จากการวิเคราะห์ด้วยโปรแกรม BILOG

```

CYCLE 1:  LARGEST CHANGE = 3.28666
          -2 LOG LIKELIHOOD = 89893.3451
          UPDATED PRIOR ON ASYMPTOTES; ALPHA & BETA = 6.14140 15.85860
          UPDATED PRIOR ON LOG SLOPES; MEAN & SD = -.12014 .50000

CYCLE 2:  LARGEST CHANGE = 1.88731
          -2 LOG LIKELIHOOD = 89743.7955
          UPDATED PRIOR ON ASYMPTOTES; ALPHA & BETA = 6.12152 15.87848
          UPDATED PRIOR ON LOG SLOPES; MEAN & SD = -.05419 .50000

CYCLE 3:  LARGEST CHANGE = 2.50187
          -2 LOG LIKELIHOOD = 89691.4900
          UPDATED PRIOR ON ASYMPTOTES; ALPHA & BETA = 6.17156 15.82844
          UPDATED PRIOR ON LOG SLOPES; MEAN & SD = .01906 .50000

CYCLE 4:  LARGEST CHANGE = 2.00664
          -2 LOG LIKELIHOOD = 89676.3265
          UPDATED PRIOR ON ASYMPTOTES; ALPHA & BETA = 6.23462 15.76538
          UPDATED PRIOR ON LOG SLOPES; MEAN & SD = .08328 .50000

CYCLE 5:  LARGEST CHANGE = 3.75510
          [NEWTON STEP]
          UPDATED PRIOR ON ASYMPTOTES; ALPHA & BETA = 6.29720 15.70280
          UPDATED PRIOR ON LOG SLOPES; MEAN & SD = .10742 .50000
          -2 LOG LIKELIHOOD = 89620.6815

CYCLE 6:  LARGEST CHANGE = .12079
          UPDATED PRIOR ON ASYMPTOTES; ALPHA & BETA = 6.31396 15.68604
          UPDATED PRIOR ON LOG SLOPES; MEAN & SD = .11864 .50000
          -2 LOG LIKELIHOOD = 89614.3206

CYCLE 7:  LARGEST CHANGE = .10869
1

```

SUBTEST MATH : ITEM PARAMETERS AFTER CYCLE 7

ITEM	INTERCEPT S.E.	SLOPE S.E.	THRESHOLD S.E.	DISPERSN S.E.	ASYMPTOTE S.E.	CHISO (PROB)	DF
0001	.436 .131*	.659 .078*	-.661 .243*	1.518 .180*	.236 .084*	31.0 (.0001)	7.0
0002	-.056 .141*	.511 .070*	.109 .267*	1.959 .268*	.200 .072*	36.6 (.0000)	8.0
0003	-.762 .209*	.624 .112*	1.222 .179*	1.604 .287*	.188 .048*	21.1 (.0070)	8.0
0004	-.536 .133*	.568 .076*	.943 .159*	1.759 .235*	.116 .042*	51.3 (.0000)	8.0
0005	-.025 .182*	.564 .089*	.044 .317*	1.774 .279*	.289 .084*	23.0 (.0035)	8.0
0006	-2.705 .587*	2.370 .485*	1.141 .057*	.422 .086*	.263 .020*	8.2 (.2229)	6.0
0007	-3.564 1.113*	3.098 .974*	1.150 .054*	.323 .101*	.327 .019*	5.6 (.4742)	6.0
0008	.717 .114*	.475 .058*	-1.508 .329*	2.104 .258*	.236 .090*	56.6 (.0000)	7.0
0009	-.388 .145*	.411 .064*	.944 .268*	2.432 .381*	.157 .058*	82.2 (.0000)	8.0
0010	-4.572 .862*	3.105 .570*	1.473 .053*	.322 .059*	.192 .015*	17.0 (.0178)	7.0

ภาคผนวก ข

การใช้โปรแกรม EQUATE

ตัวอย่าง file ข้อมูลสำหรับการวิเคราะห์ด้วยโปรแกรม EQUATE ชื่อ file male.cov

```

TITLE  LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL
>COMMENT  ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
0001MATH      .653838      -.617706      .239111      .006639      .013682
              .063113      .003699      .019401      .007242
0002MATH      .531242      .102093      .199200      .005337      .011953
              .068958      .003314      .017351      .005161
0003MATH      .603450      1.193944      .184927      .012374      .009052
              .037444      .004315      .007720      .002578
0004MATH      .575817      .950458      .113395      .006146      .004094
              .025533      .002137      .005162      .001752
0005MATH      .557820      .137051      .302938      .009054      .022218
              .111876      .005742      .026819      .007231
0006MATH      2.323562      1.087675      .258940      .231366      .006520
              .003703      .004292      .000558      .000422
0007MATH      3.189954      1.109346      .334440      1.068480      -.000147
              .002989      .007162      .000355      .000401
0008MATH      .487316      -1.491348      .230403      .003623      .013186
              .102378      .001606      .022829      .007916
0009MATH      .407177      .937159      .155664      .004252      .006629
              .075917      .002424      .013927      .003487
0010MATH      2.642226      1.417931      .197500      .234303      .000938
              .003341      .002371      .000284      .000262
0011MATH      .535159      1.392021      .439769      .021392      .022201
              .116733      .006581      .016439      .003455
0012MATH      .695792      2.102262      .208982      .035497      -.017716
              .046899      .004613      .000724      .001107
0013MATH      .537867      .915000      .112822      .005136      .004146
              .029023      .001958      .005776      .001851
0014MATH      .356590*****      .206395      .015277*****
              *****      .000000*****      .006896
0015MATH      .593160      .868877      .202299      .009751      .012202
              .047930      .004279      .011045      .003352
0016MATH      1.850984      .728031      .224975      .102559      .011617
              .005354      .005026      .001292      .000710
0017MATH      .474491      1.285580      .199566      .009112      .009699
              .070468      .004309      .012920      .003641
0018MATH      .308484      1.289594      .204661      .003812      .008019
              .199927      .002742      .027920      .005217
0019MATH      1.228793      .792877      .391298      .064947      .017897
              .016677      .006426      .003708      .001389
0020MATH      1.326693      .911247      .285817      .059920      .010688
              .010059      .005062      .002223      .001014
0021MATH      .776022      1.244102      .169709      .017752      .006061
              .018104      .003689      .003473      .001393
0022MATH      .508790      -.555572      .261046      .005073      .016037
              .113823      .003566      .028550      .008373
0023MATH      2.034655      .422107      .392916      .248827      .030258
              .009823      .011118      .002685      .001267
0024MATH      .700394      -.212427      .227460      .008044      .013689
              .050626      .004239      .015553      .005682
0025MATH      2.022261      1.282161      .338731      .097479      .006498
              .006003      .002221      .000716      .000419
0026MATH      .813463      2.937520      .162457      .083836      -.108775
              .207771      .003033      -.001610      .000366
0027MATH      .476588      -.261365      .309543      .006558      .022369
              .165099      .004862      .037049      .009282
0028MATH      .557262      1.717122      .306157      .021619      .006871
              .065619      .005864      .008302      .002630
0029MATH      .448325      3.848101      .183366      .022994      -.094981
              .691980      .002562      .000277      .000896

```

ตัวอย่าง file Example Run of Equate Program ชื่อ file suphap.eq

EXAMPLE RUN OF EQUATE PROGRAM

21
3
female.cov
(a12,3F12.6,a32/)
72
L
male.cov
(a12,3F12.6,a32/)
72
L
bias.DAT
n
Y
1-72:
1-72:

ตัวอย่าง run of equate program

EXAMPLE RUN OF EQUATE PROGRAM

NUMBER OF ABILITY SCALE POINTS= 21

ICC MODEL HAS 3 PARAMETERS

FROM METRIC ITEM PARAMETER FILE NAME IS
fm1.cov

FILE FORMAT IS (a12,3F12.6,a32/)

NUMBER OF ITEMS IN "FROM" TEST IS 72

FROM TEST IS IN LOGISTIC OGIVE METRIC

TO METRIC ITEM PARAMETER FILE NAME IS
m1.cov

FILE FORMAT IS (a12,3F12.6,a32/)

NUMBER OF ITEMS IN "TO" TEST IS 72

TO TEST IS IN LOGISTIC OGIVE METRIC

TRANSFORMED ITEM PARAMETER FILE NAME IS
bias.DAT

TRANSFORMED PARAMETERS WILL BE IN
LOGISTIC OGIVE METRIC

ANCHOR ITEM IDs FOR "FROM" INSTRUMENT ARE
1-72:

ANCHOR ITEM IDs FOR "TO" INSTRUMENT ARE
1-72:

INITIAL VALUE FOR A= 0.9415 INITIAL VALUE FOR K= 0.0327
FUNCTION AT INITIAL VALUES = 0.418338

METRIC TRANSFORMATION COEFFICIENTS ARE

A= 0.902336 K= 0.185493

FUNCTION VALUE = 0.085154

SUMMARY STATISTICS FOR TRANSFORMED ITEMS

MEAN B=	0.620	VARIANCE B=	0.637	STD DEV B=	0.798
MEAN A=	0.480	VARIANCE A=	0.516	STD DEV A=	0.718
MEAN C=	0.583	VARIANCE C=	0.734	STD DEV C=	0.857

LABORATORY OF EXPERIMENTAL DESIGN
DEPARTMENT OF EDUCATIONAL PSYCHOLOGY
UNIVERSITY OF WISCONSIN
PROGRAM DATED 17 JUNE 1991

ภาคผนวก ค

การใช้โปรแกรม AREAB

ตัวอย่าง first file สำหรับใช้ในโปรแกรม AREAB

SBS DTF/DIF STUDY

72 2 2 0.902 0.185

ตัวอย่าง print out จากโปรแกรม AREAB

TRANSFORMED ITEM PARAMETERS AND AREA MEASURES FOR SBS DTF/DIF STUDY

NUMBER OF ITEMS = 72 A = .902 B = .185

ITEM NO.	"TO" GROUP			"FROM" GROUP (ORG)			"FROM" GROUP (TRN)			SIGNED AREA	UNSIGNED AREA	H
---	a	b	c	a	b	c	a	b	c	----	----	-
1	.572	-.204	.317	.659	-.661	.236	.731	-.412	.2	-.159	.272	.272
2	.616	.221	.224	.511	.109	.260	.566	.283	.2	.050	.106	-.106
3	.555	.999	.166	.624	1.222	.186	.691	1.287	.1	.234	.311	.311
4	.701	.614	.095	.568	.943	.116	.630	1.036	.1	.372	.374	-.374
5	.445	-.244	.272	.564	.044	.285	.625	.225	.2	.333	.472	.472
6	1.677	1.268	.219	2.370	1.141	.263	2.000	1.214	.2	-.039	.067	.067
7	1.364	1.250	.246	3.098	1.150	.327	2.000	1.223	.3	-.018	.129	.129
8	.532	-1.122	.210	.475	-1.508	.236	.527	-1.175	.2	-.040	.040	-.040
9	.430	.814	.158	.411	.944	.157	.456	1.037	.1	.187	.195	.195
10	4.480	1.604	.192	3.105	1.473	.192	2.000	1.513	.1	-.074	.193	-.193
11	.458	.948	.336	.593	1.448	.446	.657	1.491	.4	.300	.395	.395
12	.766	2.441	.197	.893	2.155	.228	.990	2.129	.2	-.241	.282	.282
13	.673	.537	.119	.524	.851	.111	.581	.952	.1	.369	.381	-.381
14	.647	1.012	.264	.566	.933	.213	.650	1.026	.2	.011	.011	.011
15	2.077	.968	.261	1.807	.600	.234	2.000	.906	.2	-.048	.048	-.048
16	.433	.979	.148	.470	1.226	.205	.522	1.383	.2	.321	.380	.380
17	.444	1.256	.178	.322	1.234	.203	.357	1.298	.2	.033	.357	-.357
18	1.321	.917	.370	1.536	1.058	.430	1.703	1.139	.4	.126	.138	.138
19	1.314	1.404	.348	1.712	1.121	.321	1.898	1.196	.3	-.141	.179	.179
20	.968	1.427	.184	.738	1.152	.162	.819	1.260	.1	-.141	.177	-.177
21	.334	-.523	.248	.473	-.419	.285	.524	-.192	.2	.236	.658	.658
22	1.211	.361	.301	2.047	.437	.399	2.000	.580	.3	.131	.195	.195
23	.569	-.080	.210	.706	-.278	.224	.783	-.066	.2	.011	.266	.266
24	2.437	1.433	.363	1.751	1.274	.334	1.941	1.334	.3	-.066	.081	-.081
25	1.085	3.618	.166	.905	2.924	.168	1.004	2.822	.1	-.662	.662	-.662
26	.360	-.782	.248	.465	-.064	.342	.538	.127	.3	.598	.720	.720
27	.597	2.008	.346	.546	1.696	.312	.607	1.715	.3	-.202	.202	-.202
28	.461	2.935	.155	.424	3.706	.180	.470	3.528	.1	.482	.482	.482
29	1.309	2.394	.319	.621	2.706	.309	.688	2.626	.3	.161	.411	.411
30	1.159	2.109	.365	.942	1.919	.356	1.044	1.916	.3	-.124	.126	-.126
31	1.765	1.759	.387	2.332	1.477	.378	2.000	1.517	.3	-.150	.150	.150
32	1.463	1.478	.302	2.559	1.159	.306	2.000	1.230	.3	-.171	.186	.186
33	1.803	1.403	.218	2.538	1.157	.233	2.000	1.229	.2	-.134	.134	.134
34	3.060	1.624	.194	2.054	1.356	.156	2.000	1.408	.1	-.182	.202	-.202
35	.351	-.080	.237	.226	-1.620	.272	.251	-1.276	.2	-.871	1.022	-1.022
36	1.464	1.564	.282	1.559	1.236	.263	1.729	1.300	.2	-.195	.196	.196
37	2.158	1.240	.298	2.307	1.130	.312	2.000	1.204	.3	-.025	.030	-.030
38	2.948	1.420	.316	2.861	1.277	.344	2.000	1.337	.3	-.055	.098	.098
39	.551	1.708	.160	.533	1.627	.165	.591	1.653	.1	-.046	.092	.092
40	1.988	1.412	.296	1.590	1.020	.216	1.763	1.105	.2	-.241	.241	-.241
41	.689	1.501	.148	.516	1.788	.159	.572	1.797	.1	.249	.298	.298
42	.455	.547	.227	.616	-.087	.200	.683	.106	.2	-.353	.565	.565
43	.820	2.681	.332	.835	3.369	.351	.926	3.242	.3	.364	.364	.364
44	4.109	1.752	.202	3.769	1.635	.232	2.000	1.660	.2	-.071	.171	-.171
45	.531	2.629	.209	.608	2.220	.185	.674	2.188	.1	-.360	.415	.415
46	2.116	1.336	.202	2.455	1.207	.208	2.000	1.274	.2	-.049	.050	-.050
47	1.374	1.745	.234	4.615	1.628	.248	2.000	1.654	.2	-.068	.151	.151
48	1.690	1.093	.275	1.576	.949	.303	1.747	1.041	.3	-.036	.036	.036
49	1.405	1.111	.292	1.018	1.117	.326	1.128	1.193	.3	.055	.107	.107
50	.605	1.715	.180	.502	1.584	.096	.556	1.614	.0	-.091	.138	.138
51	2.245	1.303	.119	1.636	1.162	.074	1.814	1.233	.0	-.065	.098	-.098
52	.599	1.323	.227	.464	.702	.167	.514	.818	.1	-.421	.432	-.432
53	1.540	1.088	.237	1.665	1.175	.255	2.000	1.245	.2	.117	.137	.137
54	1.109	.843	.348	.808	.965	.387	.896	1.056	.3	.130	.157	-.157
55	.499	3.091	.307	.529	3.103	.257	.587	2.984	.2	-.079	.194	.194

ภาคผนวก ง

การใช้โปรแกรม SIBTEST

ตัวอย่าง file ข้อมูลสำหรับการใช้ในโปรแกรม SIBTEST ชื่อ file 40m.1 และ 40fm.1

```

011101011101111111101011101111
0000000000000000101000011100100
110111110101101101010111000111
000110100100011110001100110011
000111001000000000010101100111
000001010000001100111100001100
000010001100000010001110100100
000010000000000100100100001101
100111010000000110000111100101
001011010101011100000111100000
1000100000000000100001001101110
000001010011100000000111110001
000100010001011001100110101001
000010000101101100010110100010
100011000101000000001100100111
011111011101111111000101011110
001001010001000001000110001100
001010011010001100010101000011
100011000111000000001100100111
000111100000000101000110001101
100001010001100000000110010100
110110011001001100000101101011
001001001110001001001100010101
000000010000000001010100000110
111111110000001100111110111111
010010000110000111001111101010
100010001000010110011101100111
101011000100100101001100000111
010010110010000110001101001011
101010001001000011010110100010
000000100011001000100001100011
010010010000000101000000101111
110011011000000000000101110101
001111000001000111000010111101
100000010000001000101001101110
101111110101101101011101110101
011010110010010000110100110010
001010001000000100000110010110
101110110101111111001011110110
111110001111001110001111110111
100010000011101001010111100111
00001000000000011011101000111
101010010100011100000110100001
110010001010000111101101001011
010010001100000001001010110001
100010000011000010000001100111
001010000001000100000001000001

```

ตัวอย่างโปรแกรม sabin สำหรับใช้ในโปรแกรม SIBTEST

```

'item bias detecting
'30 items 100-up examinees in each group
30          no. of items on test
'30m.1      ' name of file for Ref. grp. scores
'30fm.1     ' name of file for Focal grp. scores
1           1=no space between item scores
'30out.1    ' name of output file
5           min. no. of examinees per statistic calculation cell
.2500      estimate of guessing on the test
30         no. of runs for this data set
0          output file: 0=abbreviated, 1=standard, 2=expanded
0          0=default pooled weights, 1=pooled and Focal weights

1          number of suspect items for run 1
1          suspect subtest item numbers
'e'        p-value for bias/DIF against Ref. or Foc. group
29         number of valid items for run 1
2 3 4 5 6
7 8 9 10 11
12 13 14 15 16
17 18 19 20 21
22 23 24 25 26
27 28 29 30    valid subtest item numbers

1          number of suspect items for run 2
2          suspect subtest item numbers
'e'        p-value for bias/DIF against Ref. or Foc. group
29         number of valid items for run 2
1 3 4 5 6
7 8 9 10 11
12 13 14 15 16
17 18 19 20 21
22 23 24 25 26
27 28 29 30    valid subtest item numbers

1          number of suspect items for run 3
3          suspect subtest item numbers
'e'        p-value for bias/DIF against Ref. or Foc. group
29         number of valid items for run 3
1 2 4 5 6
7 8 9 10 11
12 13 14 15 16
17 18 19 20 21
22 23 24 25 26
27 28 29 30    valid subtest item numbers

```

1				number of suspect items for run	4
4				suspect subtest item numbers	
'e'				p-value for bias/DIF against Ref. or Foc. group	
29				number of valid items for run	4
1	2	3	5	6	
7	8	9	10	11	
12	13	14	15	16	
17	18	19	20	21	
22	23	24	25	26	
27	28	29	30		valid subtest item numbers

1				number of suspect items for run	5
5				suspect subtest item numbers	
'e'				p-value for bias/DIF against Ref. or Foc. group	
29				number of valid items for run	5
1	2	3	4	6	
7	8	9	10	11	
12	13	14	15	16	
17	18	19	20	21	
22	23	24	25	26	
27	28	29	30		valid subtest item numbers

1				number of suspect items for run	6
6				suspect subtest item numbers	
'e'				p-value for bias/DIF against Ref. or Foc. group	
29				number of valid items for run	6
1	2	3	4	5	
7	8	9	10	11	
12	13	14	15	16	
17	18	19	20	21	
22	23	24	25	26	
27	28	29	30		valid subtest item numbers

1				number of suspect items for run	7
7				suspect subtest item numbers	
'e'				p-value for bias/DIF against Ref. or Foc. group	
29				number of valid items for run	7
1	2	3	4	5	
6	8	9	10	11	
12	13	14	15	16	
17	18	19	20	21	
22	23	24	25	26	
27	28	29	30		valid subtest item numbers

ตัวอย่าง print out จากโปรแกรม SIBTEST

name of input parameter file = 30items.6
 number of items on test = 30
 name of file for Ref. grp. scores = 30m.6
 name of file for Focal grp. scores = 30fm.6
 minimum no. of examinees per statistic calculation cell = 5
 estimate of guessing on the test = .25
 number of runs for this data set = 30
 number of examinees in Reference group = 600
 number of examinees in Focal group = 600

p-value notation:

R denotes p-value for test of bias/DIF/DTF against Ref. group
 F denotes p-value for test of bias/DIF/DTF against Foc. group
 E denotes p-value for test of bias/DIF/DTF against either the
 Ref. or Foc. group.

NOTE: M-H Chi-square p-value is restricted, by definition, to type E.

Mantel-Haenszel							
run no.	Beta-uni	SIB-uni z-statistic	SIB-uni p-value	Chi sqr.	p value	Delta (D-DIF)	MH alpha
1	.018	.628	.530 E	.47	.492 E	-.22	1.10
2	-.013	-.470	.638 E	.64	.424 E	.26	.89
3	-.013	-.471	.638 E	.68	.409 E	.28	.89
4	-.006	-.226	.821 E	.00	.952 E	.00	1.00
5	-.004	-.147	.883 E	.26	.608 E	.20	.92
6	.025	.905	.365 E	1.44	.230 E	-.39	1.18
7	.006	.248	.804 E	.00	.946 E	.00	1.00
8	.014	.483	.629 E	.77	.381 E	-.27	1.12
9	.003	.102	.919 E	.08	.774 E	-.10	1.05
10	.019	.722	.470 E	.16	.689 E	-.16	1.07
11	-.007	-.246	.806 E	.19	.666 E	.15	.94
12	.024	.840	.401 E	2.49	.115 E	-.50	1.24
13	-.023	-.851	.395 E	.66	.416 E	.28	.89
14	-.008	-.309	.757 E	.42	.517 E	.24	.90
15	.000	.012	.991 E	.02	.883 E	.07	.97
16	-.034	-1.187	.235 E	.97	.325 E	.31	.88
17	.046	1.593	.111 E	3.39	.065 E	-.57	1.28
18	.003	.095	.924 E	.12	.730 E	-.12	1.05
19	-.058	-2.089	.037 E	3.36	.067 E	.57	.78
20	-.029	-1.119	.263 E	.92	.338 E	.33	.87
21	-.025	-.851	.395 E	.10	.756 E	.11	.95
22	.094	3.408	.001 E	11.67	.001 E	-1.07	1.57
23	-.052	-1.804	.071 E	2.48	.115 E	.49	.81
24	-.016	-.522	.601 E	.00	.989 E	-.01	1.01
25	.013	.463	.643 E	.00	.950 E	.00	1.00
26	-.002	-.073	.942 E	.15	.702 E	-.13	1.06
27	-.099	-3.441	.001 E	5.76	.016 E	.72	.74
28	.092	3.109	.002 E	8.18	.004 E	-.83	1.42
29	.063	2.247	.025 E	2.11	.146 E	-.46	1.22
30	-.101	-3.719	.000 E	11.91	.001 E	1.10	.63

ประวัติผู้เขียน

ชื่อนายสุภาพ ชูวา เกิดวันที่ 5 มิถุนายน 2508 รหัส 3922128

ภูมิลำเนา เลขที่ 72 หมู่ 6 บ้านโคกเม็ก ต. ศรีณรงค์ อ. ชุมพลบุรี จ. สุรินทร์

ประวัติการศึกษา ระดับชั้นประถมศึกษา พ.ศ. 2514 โรงเรียนบ้านโคกเม็ก

พ.ศ. 2521 โรงเรียนชุมพลบุรี จ. สุรินทร์

ระดับชั้นมัธยมศึกษาตอนต้น พ.ศ. 2521 โรงเรียนชุมพลวิทยาสรรค์ อ. ชุมพลบุรี

ระดับชั้น ปว.ช. พ.ศ. 2524 วิทยาลัยเกษตรกรรมบุรีรัมย์ จ. บุรีรัมย์

ระดับชั้น ปว.ส. พ.ศ. 2527 วิทยาเขตเกษตรสุรินทร์ จ. สุรินทร์

ระดับปริญญาตรี พ.ศ. 2533 มหาวิทยาลัยสุโขทัยธรรมาธิราช (วิทยาศาสตร์)

พ.ศ. 2536 มหาวิทยาลัยสุโขทัยธรรมาธิราช (การวัดและประเมินการศึกษา)

ระดับบัณฑิตศึกษา พ.ศ. 2539 มหาวิทยาลัยเชียงใหม่

ประวัติการรับราชการ เริ่มรับราชการเมื่อวันที่ 29 พฤษภาคม 2529 ณ โรงเรียนคอนสารวิทยาคม

อ. คอนสาร จ. ชัยภูมิ ตำแหน่งครู 2

ตำแหน่งปัจจุบัน อาจารย์ 2 ระดับ 6 โรงเรียนแม่ละเรียง"ปริพัตรศึกษา" อ. แม่ละเรียง

จ. แม่ฮ่องสอน 58110