

附錄 1：第四章 T-test 程式及結果(p.65)

```

filename s1 'E:\my documents\sas\90.prn';
data S2;
infile s1;
input price1 price2 price3 price4 education people density
income build landuse farm enterprise;
run;

proc ttest data=s2;
class build;
var price1 price2 price3 price4 education people density
income landuse farm enterprise;
run;

```

【附表 1-1 民國 70 年 T-test 檢定】

民國 70 年 T-Tests					
Variable	Method	Variances	DF	t Value	Pr > t
price1	Pooled	Equal	14	1.78	0.0963*
price1	Satterthwaite	Unequal	13.5	3.40	0.0045
price2	Pooled	Equal	14	2.85	0.0130**
price2	Satterthwaite	Unequal	6.77	4.37	0.0036
price3	Pooled	Equal	14	2.24	0.0419
price3	Satterthwaite	Unequal	12.7	4.71	0.0004***
price4	Pooled	Equal	14	1.11	0.2842
price4	Satterthwaite	Unequal	12	2.38	0.0347**
education	Pooled	Equal	14	0.52	0.6125
education	Satterthwaite	Unequal	10.9	0.92	0.3794
people	Pooled	Equal	14	0.25	0.8025
people	Satterthwaite	Unequal	3.51	0.29	0.7887
density	Pooled	Equal	14	2.73	0.0163
density	Satterthwaite	Unequal	12.2	5.82	<.0001***

income	Pooled	Equal	14	1.91	0.0765
income	Satterthwaite	Unequal	13.5	3.93	0.0016***
landuse	Pooled	Equal	14	-2.91	0.0113**
landuse	Satterthwaite	Unequal	11.7	-5.25	0.0002
farm	Pooled	Equal	14	-5.42	<.0001***
farm	Satterthwaite	Unequal	2.6	-4.60	0.0262
enterprise	Pooled	Equal	14	1.17	0.2600
enterprise	Satterthwaite	Unequal	4.46	1.53	0.1939

註：<0.01:***，0.01~0.05：**，0.05~0.1：*

Equality of Variances

Variable	Method	Num DF	Den DF	F Value	Pr > F
pricel	Folded F	12	2	16.06	0.1201
price2	Folded F	12	2	4.25	0.4118
price3	Folded F	12	2	128.38	0.0155
price4	Folded F	12	2	179773	<.0001
education	Folded F	12	2	8.84	0.2120
people	Folded F	12	2	1.47	0.9521
density	Folded F	12	2	653.38	0.0031
income	Folded F	12	2	1.54	0.9212
landuse	Folded F	12	2	10.11	0.1868
farm	Folded F	2	12	1.63	0.4722
enterprise	Folded F	12	2	2.29	0.6886

【附表 1-2 民國 75 年 T-test 檢定】

民國 75 年 T-Tests

Variable	Method	Variances	DF	t Value	Pr > t
pricel	Pooled	Equal	14	2.10	0.0543*
pricel	Satterthwaite	Unequal	14	4.14	0.0010
price2	Pooled	Equal	14	1.98	0.0683*
price2	Satterthwaite	Unequal	3.68	2.31	0.0875

price3	Pooled	Equal	14	2.04	0.0605*
price3	Satterthwaite	Unequal	12.7	3.80	0.0023
price4	Pooled	Equal	14	0.95	0.3603
price4	Satterthwaite	Unequal	12	2.02	0.0660*
education	Pooled	Equal	14	0.23	0.8220
education	Satterthwaite	Unequal	12.8	0.48	0.6379
people	Pooled	Equal	14	-0.34	0.7400
people	Satterthwaite	Unequal	3.96	-0.41	0.7005
density	Pooled	Equal	14	2.89	0.0118
density	Satterthwaite	Unequal	12.5	6.12	<.0001***
income	Pooled	Equal	14	1.13	0.2768
income	Satterthwaite	Unequal	11.4	2.03	0.0667
landuse	Pooled	Equal	14	-2.91	0.0113**
landuse	Satterthwaite	Unequal	12.1	-5.32	0.0002
farm	Pooled	Equal	14	-1.95	0.0712*
farm	Satterthwaite	Unequal	3.51	-2.21	0.1005
enterprise	Pooled	Equal	14	0.84	0.2875
enterprise	Satterthwaite	Unequal	5.86	1.23	0.1414

註：<0.01:***，0.01~0.05：**，0.05~0.1：*

Equality of Variances

Variable	Method	Num DF	Den DF	F Value	Pr > F
pricel	Folded F	12	2	23.24	0.0839
price2	Folded F	12	2	1.62	0.8904
price3	Folded F	12	2	12.77	0.1497
price4	Folded F	12	2	583968	<.0001
education	Folded F	12	2	123.78	0.0161
people	Folded F	12	2	1.86	0.8062
density	Folded F	12	2	199.60	0.0100
income	Folded F	12	2	9.65	0.1952
landuse	Folded F	12	2	11.00	0.1726
farm	Folded F	12	2	1.47	0.9521
enterprise	Folded F	12	2	3.47	0.4325

【附表 1-3 民國 80 年 T-test 檢定】

民國 80 年 T-Tests					
Variable	Method	Variances	DF	t Value	Pr > t
price1	Pooled	Equal	10	3.14	0.0105**
price1	Satterthwaite	Unequal	9.13	5.41	0.0004
price2	Pooled	Equal	10	1.89	0.0886*
price2	Satterthwaite	Unequal	4.21	2.10	0.1005
price3	Pooled	Equal	10	1.26	0.2366
price3	Satterthwaite	Unequal	9.45	1.92	0.0852
price4	Pooled	Equal	10	1.42	0.1863
price4	Satterthwaite	Unequal	6.94	1.92	0.0965
education	Pooled	Equal	10	0.37	0.7185
education	Satterthwaite	Unequal	9.33	0.56	0.5871
people	Pooled	Equal	10	-0.05	0.9594
people	Satterthwaite	Unequal	9.55	-0.09	0.9314
density	Pooled	Equal	10	2.48	0.0326
density	Satterthwaite	Unequal	9.04	4.29	0.0020***
income	Pooled	Equal	10	1.99	0.0745*
income	Satterthwaite	Unequal	6.61	2.65	0.0347
landuse	Pooled	Equal	10	-2.77	0.0197**
landuse	Satterthwaite	Unequal	10	-4.50	0.0011
farm	Pooled	Equal	10	-2.80	0.0189**
farm	Satterthwaite	Unequal	9.42	-4.27	0.0019
enterprise	Pooled	Equal	10	2.42	0.0362
enterprise	Satterthwaite	Unequal	8.36	4.28	0.0024***

註：<0.01:***，0.01~0.05：**，0.05~0.1：*

Equality of Variances

Variable	Method	Num DF	Den DF	F Value	Pr > F
price1	Folded F	8	2	36.03	0.0546
price2	Folded F	8	2	1.48	0.9279

price3	Folded F	8	2	7.12	0.2578
price4	Folded F	8	2	3.44	0.4891
education	Folded F	8	2	6.77	0.2701
people	Folded F	8	2	23.58	0.0826
density	Folded F	8	2	39.89	0.0494
income	Folded F	8	2	3.16	0.5246
landuse	Folded F	8	2	12.53	0.1520
farm	Folded F	8	2	7.04	0.2606
enterprise	Folded F	8	2	128.01	0.0155

【附表 1-4 民國 85 年 T-test 檢定】

民國 85 年 T-Tests

Variable	Method	Variances	DF	t Value	Pr > t
price1	Pooled	Equal	10	3.15	0.0103**
price1	Satterthwaite	Unequal	6.19	4.10	0.0059
price2	Pooled	Equal	10	1.67	0.1254
price2	Satterthwaite	Unequal	3.8	1.77	0.1558
price3	Pooled	Equal	10	1.30	0.2218
price3	Satterthwaite	Unequal	9.77	2.18	0.0551
price4	Pooled	Equal	10	1.50	0.1656
price4	Satterthwaite	Unequal	6.63	1.99	0.0887
education	Pooled	Equal	10	0.63	0.5411
education	Satterthwaite	Unequal	4.97	0.76	0.4830
people	Pooled	Equal	10	-0.58	0.5779
people	Satterthwaite	Unequal	8.4	-1.02	0.3376
density	Pooled	Equal	10	2.45	0.0343**
density	Satterthwaite	Unequal	9.61	4.13	0.0022
income	Pooled	Equal	10	0.41	0.6882
income	Satterthwaite	Unequal	9.45	0.63	0.5431
landuse	Pooled	Equal	10	-2.67	0.0235**
landuse	Satterthwaite	Unequal	4.75	-3.14	0.0276
farm	Pooled	Equal	10	-1.30	0.2227

farm	Satterthwaite	Unequal	3.74	-1.36	0.2499
enterprise	Pooled	Equal	10	2.08	0.0637
enterprise	Satterthwaite	Unequal	8.53	3.67	0.0056***

註：<0.01:***，0.01~0.05：**，0.05~0.1：*

Equality of Variances

Variable	Method	Num DF	Den DF	F Value	Pr > F
price1	Folded F	8	2	2.84	0.5729
price2	Folded F	8	2	1.22	1.0000
price3	Folded F	8	2	18.58	0.1041
price4	Folded F	8	2	3.18	0.5219
education	Folded F	8	2	1.98	0.7561
people	Folded F	8	2	115.47	0.0172
density	Folded F	8	2	22.20	0.0876
income	Folded F	8	2	7.13	0.2575
landuse	Folded F	8	2	1.83	0.8005
farm	Folded F	8	2	1.18	1.0000
enterprise	Folded F	8	2	85.17	0.0233

【附表 1-5 民國 90 年 T-test 檢定】

民國 90 年 T-Tests					
Variable	Method	Variances	DF	t Value	Pr > t
price1	Pooled	Equal	10	2.18	0.0542*
price1	Satterthwaite	Unequal	9.61	3.36	0.0076
price2	Pooled	Equal	10	1.65	0.1305
price2	Satterthwaite	Unequal	3.74	1.72	0.1647
price3	Pooled	Equal	10	1.19	0.2617
price3	Satterthwaite	Unequal	8.95	2.07	0.0690*
price4	Pooled	Equal	10	1.93	0.0820*
price4	Satterthwaite	Unequal	8.82	2.86	0.0192
education	Pooled	Equal	10	0.21	0.8350
education	Satterthwaite	Unequal	5.69	0.27	0.7968
people	Pooled	Equal	10	-1.08	0.3057
people	Satterthwaite	Unequal	8.14	-1.92	0.0900*
density	Pooled	Equal	10	2.33	0.0420**
density	Satterthwaite	Unequal	9.95	3.83	0.0034
income	Pooled	Equal	10	-0.23	0.8256
income	Satterthwaite	Unequal	9.99	-0.37	0.7203
landuse	Pooled	Equal	10	-2.26	0.0474**
landuse	Satterthwaite	Unequal	7.62	-3.16	0.0142
farm	Pooled	Equal	10	-2.37	0.0395**
farm	Satterthwaite	Unequal	2.79	-2.02	0.1438
enterprise	Pooled	Equal	10	1.90	0.0873
enterprise	Satterthwaite	Unequal	8.33	3.36	0.0094***

註：<0.01:***，0.01~0.05：**，0.05~0.1：*

Equality of Variances					
Variable	Method	Num DF	Den DF	F Value	Pr > F
price1	Folded F	8	2	7.71	0.2397
price2	Folded F	8	2	1.18	1.0000

price3	Folded F	8	2	44.78	0.0440
price4	Folded F	8	2	5.67	0.3172
education	Folded F	8	2	2.47	0.6393
people	Folded F	8	2	341.02	0.0059
density	Folded F	8	2	14.55	0.1318
income	Folded F	8	2	13.03	0.1464
landuse	Folded F	8	2	4.08	0.4232
farm	Folded F	2	8	1.79	0.4549
enterprise	Folded F	8	2	140.44	0.0142