

5\_Aggregate-level-A-Adjusted\_Tax\_Results

```

name: <unnamed>
log: C:\Users\ids29\Documents\Stata\Cluster_Taxes.log
log type: text
opened on: 8 Jan 2013, 13:08:08

```

```

.
.
.
. foreach var of varlist PINCBAD- CH001BAD {
2.
. display "----- `var' -----"
3.
. signtest a_`var' = b_`var'
4.
. }

```

----- PINCBAD -----

Sign test

sign	observed	expected
positive	0	13.5
negative	27	13.5
zero	1	1
all	28	28

One-sided tests:

Ho: median of a\_PINCBAD - b\_PINCBAD = 0 vs.  
Ha: median of a\_PINCBAD - b\_PINCBAD > 0  
Pr(#positive >= 0) =  
Binomial(n = 27, x >= 0, p = 0.5) = 1.0000

Ho: median of a\_PINCBAD - b\_PINCBAD = 0 vs.  
Ha: median of a\_PINCBAD - b\_PINCBAD < 0  
Pr(#negative >= 27) =  
Binomial(n = 27, x >= 27, p = 0.5) = 0.0000

Two-sided test:

Ho: median of a\_PINCBAD - b\_PINCBAD = 0 vs.  
Ha: median of a\_PINCBAD - b\_PINCBAD != 0  
Pr(#positive >= 27 or #negative >= 27) =  
min(1, 2\*Binomial(n = 27, x >= 27, p = 0.5)) = 0.0000

----- PINCGOOD -----

Sign test

sign	observed	expected
positive	4	6.5
negative	9	6.5
zero	1	1
all	14	14

One-sided tests:

Ho: median of a\_PINCGOOD - b\_PINCGOOD = 0 vs.  
Ha: median of a\_PINCGOOD - b\_PINCGOOD > 0  
Pr(#positive >= 4) =  
Binomial(n = 13, x >= 4, p = 0.5) = 0.9539

Ho: median of a\_PINCGOOD - b\_PINCGOOD = 0 vs.  
Ha: median of a\_PINCGOOD - b\_PINCGOOD < 0  
Pr(#negative >= 9) =  
Binomial(n = 13, x >= 9, p = 0.5) = 0.1334

Two-sided test:

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Ho: median of a\_PINCGOOD - b\_PINCGOOD = 0 vs.  
 Ha: median of a\_PINCGOOD - b\_PINCGOOD != 0  
 Pr(#positive >= 9 or #negative >= 9) =  
 min(1, 2\*Binomial(n = 13, x >= 9, p = 0.5)) = 0.2668

----- ININCBAD -----

Sign test

sign	observed	expected
positive	0	2.5
negative	5	2.5
zero	0	0
all	5	5

One-sided tests:

Ho: median of a\_ININCBAD - b\_ININCBAD = 0 vs.  
 Ha: median of a\_ININCBAD - b\_ININCBAD > 0  
 Pr(#positive >= 0) =  
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000

Ho: median of a\_ININCBAD - b\_ININCBAD = 0 vs.  
 Ha: median of a\_ININCBAD - b\_ININCBAD < 0  
 Pr(#negative >= 5) =  
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Two-sided test:

Ho: median of a\_ININCBAD - b\_ININCBAD = 0 vs.  
 Ha: median of a\_ININCBAD - b\_ININCBAD != 0  
 Pr(#positive >= 5 or #negative >= 5) =  
 min(1, 2\*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625

----- ININCGOOD -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a\_ININCG~D - b\_ININCGOOD = 0 vs.  
 Ha: median of a\_ININCG~D - b\_ININCGOOD > 0  
 Pr(#positive >= 1) =  
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a\_ININCG~D - b\_ININCGOOD = 0 vs.  
 Ha: median of a\_ININCG~D - b\_ININCGOOD < 0  
 Pr(#negative >= 0) =  
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a\_ININCG~D - b\_ININCGOOD = 0 vs.  
 Ha: median of a\_ININCG~D - b\_ININCGOOD != 0  
 Pr(#positive >= 1 or #negative >= 1) =  
 min(1, 2\*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BWINCBAD -----

Sign test

sign	observed	expected
positive	3	7.5
negative	12	7.5

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zero	1	1
all	16	16

One-sided tests:

Ho: median of a\_BWNCBAD - b\_BWNCBAD = 0 vs.  
 Ha: median of a\_BWNCBAD - b\_BWNCBAD > 0  
 Pr(#positive >= 3) =  
 Binomial(n = 15, x >= 3, p = 0.5) = 0.9963

Ho: median of a\_BWNCBAD - b\_BWNCBAD = 0 vs.  
 Ha: median of a\_BWNCBAD - b\_BWNCBAD < 0  
 Pr(#negative >= 12) =  
 Binomial(n = 15, x >= 12, p = 0.5) = 0.0176

Two-sided test:

Ho: median of a\_BWNCBAD - b\_BWNCBAD = 0 vs.  
 Ha: median of a\_BWNCBAD - b\_BWNCBAD != 0  
 Pr(#positive >= 12 or #negative >= 12) =  
 min(1, 2\*Binomial(n = 15, x >= 12, p = 0.5)) = 0.0352

----- CH001BAD -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a\_CH001BAD - b\_CH001BAD = 0 vs.  
 Ha: median of a\_CH001BAD - b\_CH001BAD > 0  
 Pr(#positive >= 1) =  
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a\_CH001BAD - b\_CH001BAD = 0 vs.  
 Ha: median of a\_CH001BAD - b\_CH001BAD < 0  
 Pr(#negative >= 0) =  
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a\_CH001BAD - b\_CH001BAD = 0 vs.  
 Ha: median of a\_CH001BAD - b\_CH001BAD != 0  
 Pr(#positive >= 1 or #negative >= 1) =  
 min(1, 2\*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

```

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