**Farewells**
Laurie and Winifred Bauer

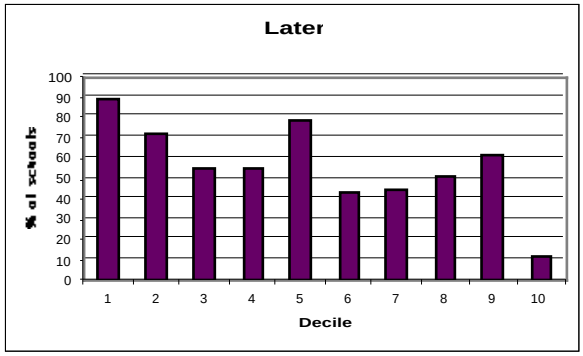
Question 18b asked how children say goodbye to their friends:
**18** Brackie is a good friend of yours.
(a) …
(b) What would you say to Brackie as you left school in the afternoon?
There were a large number of responses to this question, including many which were reported only once. There were a number of responses like *Ring me; I'll phone you tonight* which were not coded, as they are not so much farewells as arrangements for the next contact. It nevertheless seems worth noting that they were very frequent.
A certain amount of grouping of answers was possible: *see ya* and *see you* were treated as the same, for example, and any responses which simply added some elaboration to either of these were also grouped with them, e.g. *see you, wouldn't want to be you*. Similarly, with *see you later*, elaborations were grouped with the basic formula: *see you later, alligator (don't forget the toilet paper); see you later, masturbator, see you later jump in the navigator. Tootles, toodles, toodle-oo* and *chew the loos* were all grouped, although the last is perhaps somewhat marginal. (It is a typical example of the humour of these children: language play, especially if it involves some taboo, is greatly enjoyed.)
A large number of low frequency items was ignored, for instance the following were reported just once or twice: *TTFN; so long; sayonara; talofa; adios; afternoon; good afternoon; break a leg, I'm outta here, hirray*. The remainder were split into two groups by frequency.
The high frequency terms were: *see ya/you* (135); *later* (84); *bye* (74); *see ya/you later* (64); *laters* (23); *catch ya later* (21).
*See ya* was almost universal: only 15 schools did not include this in their responses. They were dotted round the country, and came from a wide range of deciles, and it seems most probable that the absence of *see ya* was due to some other (possibly temporary) form holding total sway.
*Later* was reported from Northland to Southland, but it was of higher frequency in the North Island than the South Island:

| | **North Island** | | **South Island** | |
|---|---|---|---|---|
| | No. | % | No. | % |
| **Schools** | 93 | 62 | 57 | 38 |
| ***Later*** | 67 | 79 | 18 | 21 |

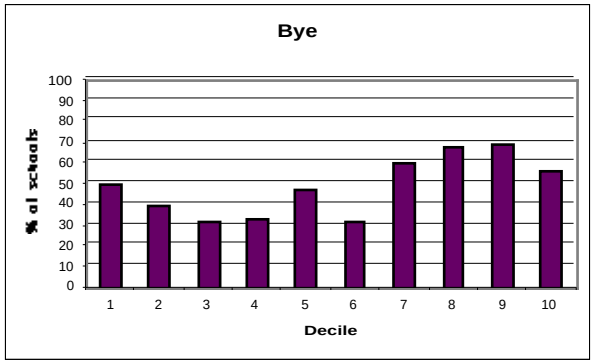
There is some evidence of Main Region differentiation in the occurrence of this term, too: there is a tendency for it to be more frequent in the Northern Region.

| | **Northern Region** | | **Central Region** | | **Southern Region** | |
|---|---|---|---|---|---|---|
| | No. | % of total | No. | % of total | No. | % of total |
| **Schools** | 57 | 38 | 78 | 52 | 14 | 9 |
| ***Later*** | 39 | 46 | 39 | 46 | 5 | 6 |

There is perhaps a tendency also for it to occur in lower decile schools, which may be linked to the North Island distribution:




*Bye* showed no tendency to regional differentiation either in terms of Island or in terms of the three Main Regions. However, it perhaps shows a slight tendency to be found in higher decile schools:




*See you later* appeared on the map to be commoner in the South Island than the North, but this is not borne out by the figures. The appearance is created because it has fewer competing forms in the South than in the North:

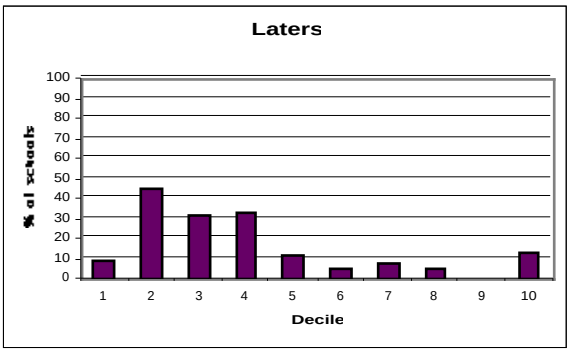
| | **North Island** | | **South Island** | |
|---|---|---|---|---|
| | No. | % | No. | % |
| **Schools** | 93 | 62 | 57 | 38 |
| ***See you later*** | 33 | 52 | 31 | 47 |

This term does not show any signs of difference between the three main regions, and it does not show any signs of social differentiation, either.
*Laters*, on the contrary, is apparently regionalised to the Northern Region:

| | **Northern Region** | | **Central Region** | | **Southern Region** | |
|---|---|---|---|---|---|---|
| | No. | % of total | No. | % of total | No. | % of total |
| **Schools** | 57 | 38 | 78 | 52 | 14 | 9 |
| ***Laters*** | 17 | 74 | 4 | 17 | 1 | 4 |

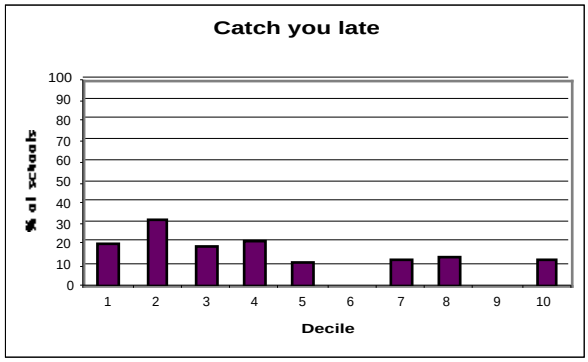
There is also a strong North Island-South Island split, of course, with only 1 report in the South Island. In addition, *laters* shows a clear tendency to be more common in low decile schools:




The interaction between this dimension and the regional dimension requires further examination, since the Northern Region also contains more low decile schools.
*Catch ya later* was reported from Northland to Southland, but it is not evenly spread round the country, being considerably more common in the North Island than the South Island:

| | **North Island** | | **South Island** | |
|---|---|---|---|---|
| | No. | % | No. | % |
| **Schools** | 93 | 62 | 57 | 38 |
| ***Catch you later*** | 18 | 86 | 3 | 14 |

However, there are no clear signs of difference between the Main Regions.
There is also a tendency for it to be reported from low decile schools, but when the weighting of low decile schools in the Northern Region is taken into account, this may be reducible to a regional difference:



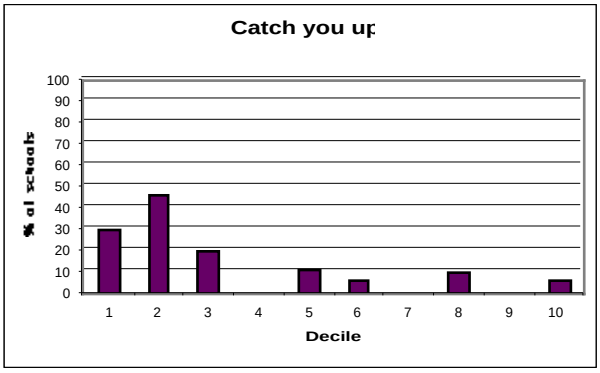
A group of lower-frequency farewells was also considered: *catch you up* (19); *goodbye* (16); *toodles* (9); *cheerio* (6); *ka kite* (4); *ciao* (4); *have a good night* (4). Most of these showed little if any sign of regional patterning.
*Catch you up* was principally a Northern Region form:

| | **Northern Region** | | **Central Region** | | **Southern Region** | |
|---|---|---|---|---|---|---|
| | No. | % of total | No. | % of total | No. | % of total |
| **Schools** | 57 | 38 | 78 | 52 | 14 | 9 |
| ***Catch you up*** | 12 | 63 | 4 | 21 | 2 | 11 |

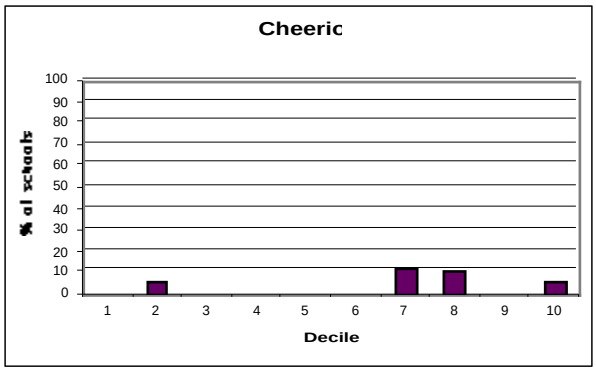
This is also reflected in the North Island – South Island figures:

| | **North Island** | | **South Island** | |
|---|---|---|---|---|
| | No. | % | No. | % |
| **Schools** | 93 | 62 | 57 | 38 |
| ***Catch you up*** | 17 | 89 | 2 | 11 |

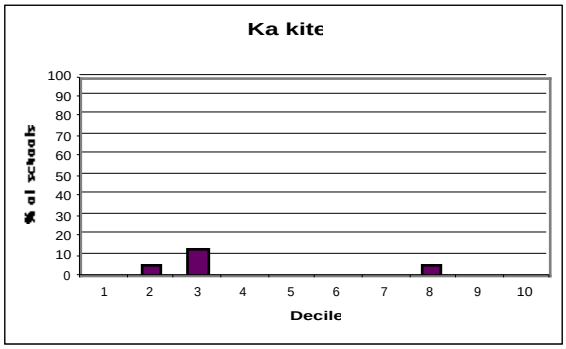
Like *catch you later*, it is principally a lower decile form:




Further statistical analysis is needed to determine the relationship between these two sets of factors.
*Goodbye* was dotted through the country from Northland to mid Canterbury, without any clear signs of regional patterning, although there are only two reports in the South Island, which is fewer than might be expected, so there might be signs of a North Island – South Island split. It shows no evidence of social differentiation.
*Toodles* (a group of related forms) was reported from Northland to Southland, with no evidence of regional patterning, nor any clear evidence of social patterning.
*Cheerio* was reported from the Bay of Plenty, Hawkes Bay, Taranaki, Wellington, Nelson and north Canterbury. While this may show a tendency for it to occur in the Central Region, the figures are not high enough to make such a conclusion secure. However, the social distribution suggests that it is a higher decile form:




*Ka kite* was reported from the Bay of Plenty, the timber belt, the volcanic plateau and southern Southland. This is perhaps rather surprising: the absence of Northland is unexpected. There are insufficient reports to draw firm conclusions, but the social distribution is worth recording:




*Ciao* was dotted through the North Island, and reported from deciles 1, 6 and 10 (twice). There is clearly insufficient data to show anything of interest.
*Have a good night* was dotted from Northland to Central Otago, and from deciles 2 (twice), 4, and 8. Again, there is insufficient data to show any significant patterning.
The farewells provide some support for a three-way split, and some for a two-way split. They also show some signs of social patterning, although it seems less marked than that for greetings.

**Statistical Analysis**

The farewells *cheerio, catch you later, catch you up, ka kite, laters,* and *later* were included in the statistical analysis. After the basic statistical analysis was complete, the relevant calculations were re-done for some of these forms alone (i.e. other forms were eliminated from the data set), because in some cases, this has the effect of enabling the program to produce results for calculations which it did not undertake for the full set. In most cases, the basic results obtained are the same, but occasionally, the figures differ. We have no explanation to offer for this, but find it disturbing. These results are reproduced at the end of the statistical tables.

*Cheerio* was not reported from the Southern Region, but there was no other sign of regionalisation, and it did not correlate with any of the other factors considered.
*Catch you later* was shown to be significantly more common in the North Island than the South (p-value 0.0241).
*Catch you up* was significantly low decile (p-value 0.0027). *Catch you up* was also shown by a contrast statement to be significantly more common in the Northern Region than the Central Region (p-value 0.0046). In relation to Island, *catch you up* was shown to be significantly more common in the North Island than the South (p-value 0.0180). The interactions between Decile, Main Region and Island were therefore investigated.
First, Main Region and Decile were considered. The investigation showed that for *catch you up*, there is significant variation by Decile when Main Region variation is taken into account (p-value 0.0059), but the p-values for Main Region variation when Decile is taken into account are not significant. Thus Decile has a stronger effect on the distribution of *catch you up* than Main Region.
Next, the interaction between Island and Decile was considered. *Catch you up* is significantly low decile when Island is taken into account (p-value 0.0076), but the variation by Island is not significant when Decile is taken into account (p-value 0.0617). Thus Decile has a stronger effect than Island for this form.
Lastly, Main Region and Island were considered. This investigation showed that, when Island is taken into account, there is significantly less use of *catch you up* in both the Northern and the Central Regions than in the Southern Region (p-values both 0.0001)! However, the Northern – Central contrast is not significant. When Main Region is taken into account, the program failed to produce a p-value for Island variation, indicating a large sampling error in the North Island. From this, it is difficult to come to conclusions about the relative strength of these two factors, but it is probably the case that Main Region is more important than Island.
In summary, then, Decile is the most important factor for *catch you up*, but there is some uncertainty about the relative strength of Main Region and Island.
*Ka kite* was shown by a contrast statement to be significantly more common in the Northern than the Central Region (p-value 0.0217), and it was reported exclusively from rural schools. Because the correlation with rural is absolute, statistically this is the stronger factor, but the small number of reports of *ka kite* must throw some doubt on the value of this finding.
*Laters* was significantly low decile (p-value 0.0029). It was shown by a contrast statement to be significantly more common in the Northern than the Central region (p-value 0.0445). In relation to Island, it was shown to be significantly more common in the North Island than the South (p-value 0.0060).Thus the interactions between Decile, Main Region and Island were investigated.
First, Main Region and Decile were considered. The investigation showed that the contrast between the Northern and Central Regions is still highly significant (p-value 0.0009) when Decile is taken into account, but the p-value for Decile when Main Region is taken into account is not quite significant. Thus Main Region is more important than Decile in accounting for *laters*, and to a large degree, *laters* is low decile because it is a Northern form.
Next, Main Region and Island were considered. This investigation showed that, when Island is taken into account, there is significantly less use of *laters* in both

the Northern and the Central Regions than in the Southern Region (p-values both 0.0001)! However, the Northern – Central contrast is also still just significant, p-value 0.0340. When Main Region is taken into account, the program failed to produce a p-value for Island variation, indicating a large sampling error in the North Island. From this, it is difficult to come to conclusions about the relative strength of these two factors, but it is probably the case that Main Region is more important than Island.

Lastly, Island and Decile were considered. This showed that the Decile profile of *laters* is different in the two Islands. *Laters* is significantly low decile in both Islands, but much more strongly so in the South Island (p-value 0.0052) than the North (p-value 0.0334). When these differences are ignored, the investigation showed that Decile is significant when Island is taken into account (p-value 0.0219) and Island is significant when Decile is taken into account (p-value 0.0128). It thus appears that both these factors are important.

This leaves us somewhat uncertain ranking these three factors for *laters*. Main Region is probably the most important, with Decile next. Island is probably the least important, since it reflects rather poorly the regionalisation.

*Later* was significantly low decile (p-value 0.0006). It was shown by a contrast statement to be significantly more common in the Northern than the Central region (p-value 0.0001). There was also significantly more use of *later* in the Northern Region than the Southern Region (p-value 0.0298). In relation to Island, it was shown to be significantly more common in the North Island than the South (p-value 0.0000 derived from a non-zero figure, so highly significant). *Later* was shown to be significantly more common in urban than rural schools (p-value 0.0346). For *later*, it is therefore important to investigate the interactions between the factors influencing it: Decile, Main Region, Island and Urban / Rural.

Firstly, Main Region and Decile were considered. For *later*, the p-value for variation by Decile when Main Region is taken into account is 0.0033, i.e. clearly significant. The p-value for Main Region variation (comparing the Northern and Southern Regions) is also significant, though to a lesser degree (0.0302), but the other regional contrasts were not significant. Thus Decile has a stronger effect than Main Region, but Main Region is still important for *later*.

Next, Main Region and Island were investigated. The Island variation is more significant than the Main Region variation (p-value 0.0001 for Island when MR variation is taken into account, but non-significant figures for Main Region variation when Island is taken into account), so Island variation is more important than Main Region variation for *later*.

When the Main Region and Urban / Rural interaction was considered, *later* was shown to have different urban / rural profiles in the three Main Regions. It is significantly urban in the Northern Region (p-value 0.0065), urban, but not significantly so in the Central Region, and if anything, rural in the Southern Region. When these regional differences are ignored, *later* was still significantly urban when Main Region variation was taken into account (p-value 0.0202). When urban / rural distribution was taken into account, the Northern – Southern contrast was still just significant (p-value 0.0476), but the other contrasts were not, although the Northern – Central contrast was very close (p-value 0.0503). Thus it appears that the Urban / rural factor is probably stronger than the Main Region factor for *later*.

Next, the interaction between Island and Decile was considered. *Later* is significantly low decile when Island is taken into account (p-value 0.0130), but it is even more significantly regionalised to the North Island when Decile is taken into account (p-value 0.0000, derived from a non-zero figure). Thus Island has a stronger effect than Decile in the distribution of this form, although both are important.

The interaction between Decile and the Urban/Rural factor was also considered. This investigation showed that Decile is highly significant when urban/rural distribution is taken into account (p-value 0.0001), while the Urban/Rural factor is also significant when Decile is taken into account, but to a lesser degree (p-value 0.0027). Thus Decile is stronger than the Urban/Rural factor, but both are important.

Finally, the Urban/Rural and Island interaction was investigated. For *later*, there is significant variation by Island when the urban/rural distribution is taken into account (p-value 0.0001), but the urban/rural variation when Island is taken into account is not significant (0.0628). Thus Island is a more important factor than Urban/Rural.

Thus for *later*, Island is the most important factor, followed by Decile, and then Urban/Rural and lastly Main Region. The reason Main Region appeared quite important alongside Decile is that it is to some extent a reflection of the Island distribution, albeit not a very good one.

**Summary**

*Cheerio* was not shown to be significantly correlated with any of these factors overall. However, it was not reported from the Southern Region, and it is perhaps worth noting that it correlated very significantly with high decile in the Northern Region.

*Catch you later* was shown to be significantly more common in the North Island than the South Island.

*Catch you up* was shown to correlate significantly with low decile, Northern Region and North Island, with Decile the most important factor, and the two regional factors uncertain in their relative ranking.

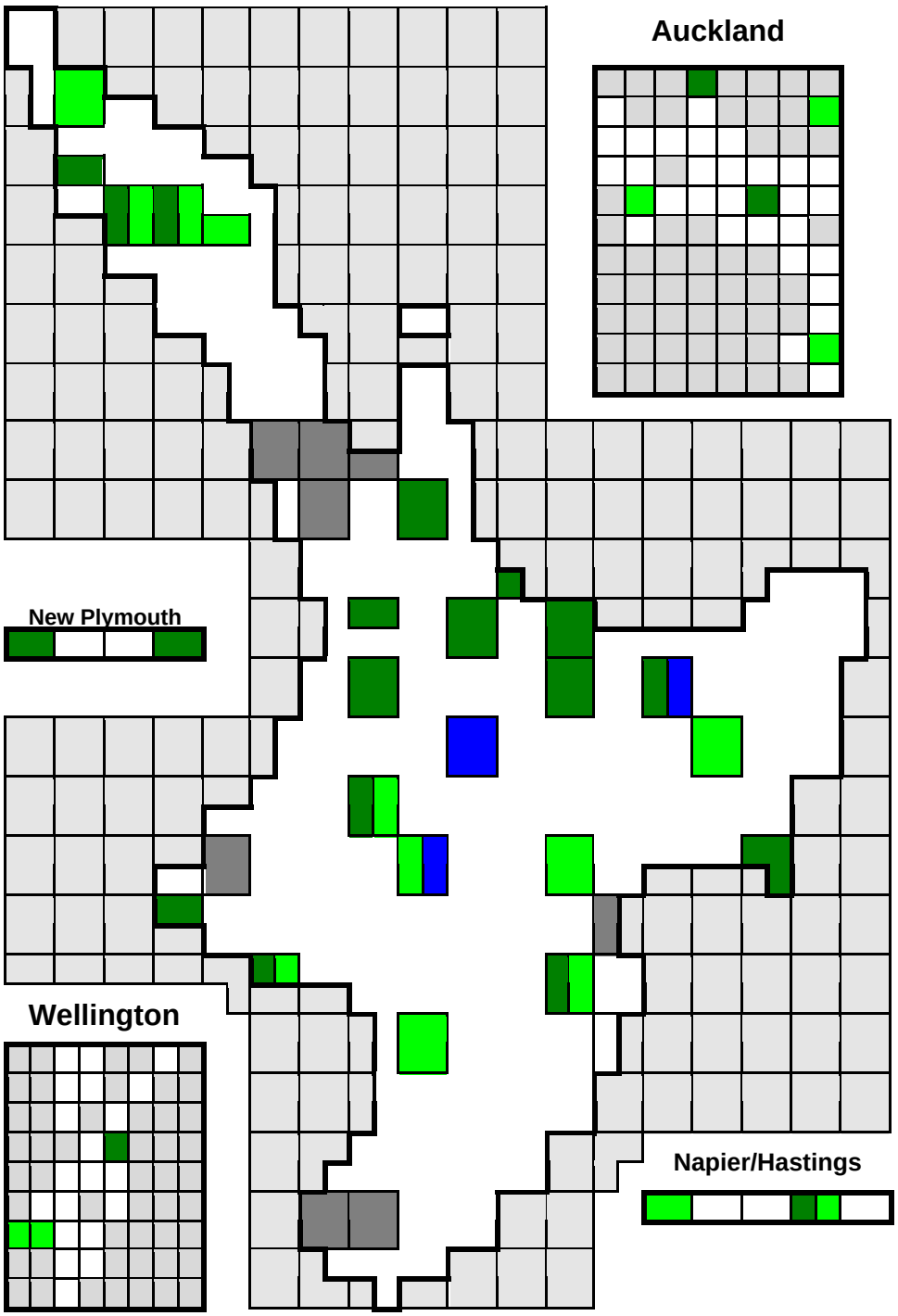
*Ka kite* is significantly Northern and rural. Since it is exclusively rural, this factor is inevitably the stronger of the two.

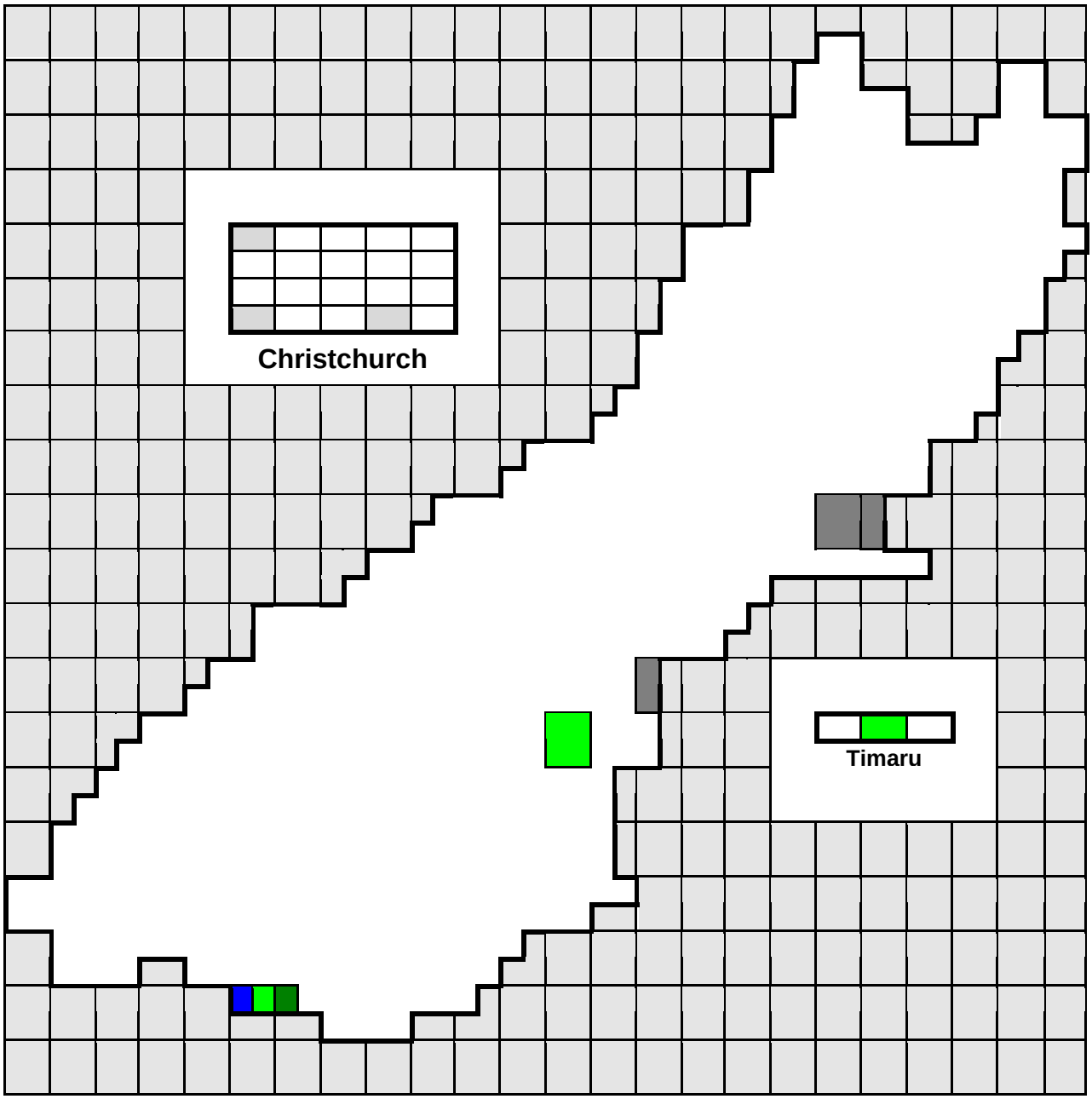
*Laters* is significantly low decile, Northern and North Island. The factors were difficult to rank, but the most likely ranking seems to be Main Region, Decile, Island.

*Later* is the most complex form in the group, correlating significantly with low decile, Northern Region, North Island and Urban. The results from the study of the interactions between these factors are accounted for if the correlations are ranked with Island strongest, followed by Decile, followed by Urban/Rural followed by Main Region.

The relevant maps follow.

**Map 1:** ***Laters, Catch ya later, Ka kite***

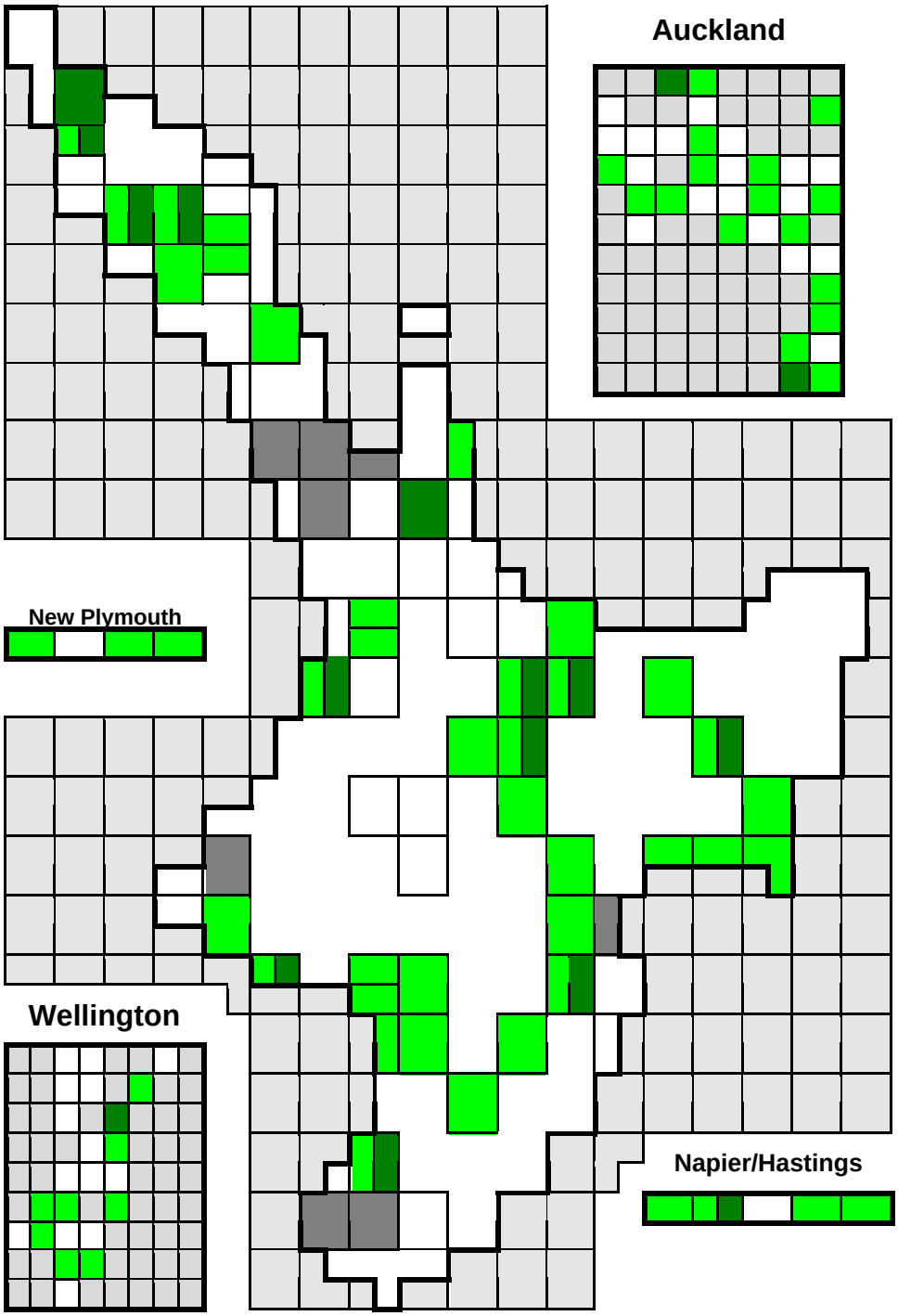


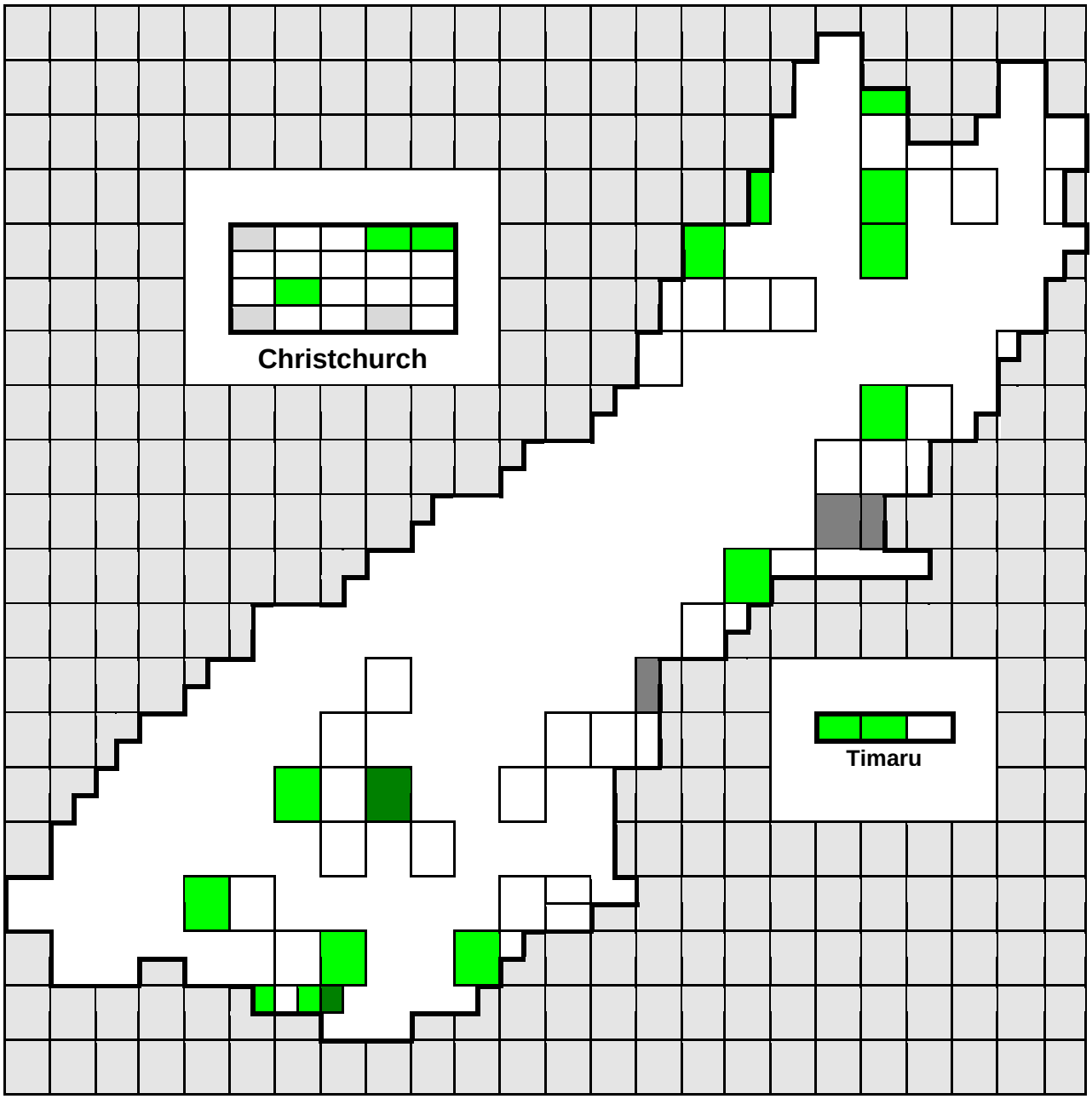



Key
Note that the insets are not to scale, nor all on the same scale for practical reasons. Each box represents one school in both urban and rural areas.

| | | | |
|---|---|---|---|
| | Laters | | See urban map insert |
| | Catch ya later | | ka kite |

**Map 2: *Later, Catch you up***






Key
Note that the insets are not to scale, nor all on the same scale for practical reasons. Each box represents one school in both urban and rural areas.

later

catch you up

See urban map insert

**18b Statistics: Farewells**
**Farewells by Decile**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | cheerio | -4.2274 | 1.1515 | -6.4844 | -1.9704 | -3.671 | 0.0002 |
| item | ctchultr | -0.8649 | 0.5111 | -1.8667 | 0.1369 | -1.692 | 0.0906 |
| item | ctchyup | -0.1770 | 0.5315 | -1.2188 | 0.8648 | -.3330 | 0.7391 |
| item | ka_kite | -2.3744 | 0.9170 | -4.1717 | -0.5771 | -2.589 | 0.0096 |
| item | laters | -0.2726 | 0.4843 | -1.2218 | 0.6765 | -.5630 | 0.5735 |
| item | later | 1.5246 | 0.4157 | 0.7097 | 2.3395 | 3.6671 | 0.0002 |
| decile*item | cheerio | 0.1640 | 0.1583 | -0.1462 | 0.4743 | 1.0362 | 0.3001 |
| decile*item | ctchultr | -0.1803 | 0.0956 | -0.3677 | 0.0071 | -1.885 | 0.0594 |
| decile*item | ctchyup | -0.3673 | 0.1223 | -0.6070 | -0.1276 | -3.004 | **0.0027** |
| decile*item | ka_kite | -0.2509 | 0.1883 | -0.6200 | 0.1182 | -1.332 | 0.1828 |
| decile*item | laters | -0.2852 | 0.0957 | -0.4728 | -0.0975 | -2.979 | **0.0029** |
| decile*item | later | -0.2138 | 0.0626 | -0.3365 | -0.0910 | -3.414 | **0.0006** |
| scale | 1.0136 | . | . | . | . | . | |

**Farewells by Main Region**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -26.3653 | 0.5133 | 2637.9338 | 0.0001 |
| item | ctchultr | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | ctchyup | 1 | -1.7918 | 0.7638 | 5.5035 | 0.0190 |
| item | ka_kite | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | laters | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | later | 1 | -0.5878 | 0.5578 | 1.1105 | 0.2920 |
| item*region1 | cheerio, 1 | 1 | 22.3400 | 1.1320 | 389.4854 | **0.0001** |
| item*region1 | cheerio, 2 | 0 | 23.4476 | 0.0000 | . | . |
| item*region1 | cheerio, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchultr, 1 | 1 | 1.0174 | 1.0946 | 0.8639 | 0.3527 |
| item*region1 | ctchultr, 2 | 1 | 0.5281 | 1.0966 | 0.2319 | 0.6301 |
| item*region1 | ctchultr, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchyup, 1 | 1 | 0.4700 | 0.8300 | 0.3207 | 0.5712 |
| item*region1 | ctchyup, 2 | 1 | -1.1260 | 0.9202 | 1.4972 | 0.2211 |
| item*region1 | ctchyup, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ka_kite, 1 | 1 | -0.3254 | 1.1953 | 0.0741 | 0.7854 |
| item*region1 | ka_kite, 2 | 1 | -23.8004 | 60132.5783 | 0.0000 | 0.9997 |
| item*region1 | ka_kite, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | later, 1 | 1 | 1.3610 | 0.6263 | 4.7214 | **0.0298** |
| item*region1 | later, 2 | 1 | 0.6391 | 0.6020 | 1.1269 | 0.2884 |
| item*region1 | later, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | laters, 1 | 1 | 1.7093 | 1.0774 | 2.5170 | 0.1126 |
| item*region1 | laters, 2 | 1 | -0.3528 | 1.1578 | 0.0929 | 0.7606 |
| item*region1 | laters, 3 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 -2 for ctchultr | 1 | 0.9705 | 0.3246 | LR |
| 1 -2 for ctchyup | 1 | 8.0449 | **0.0046** | LR |
| 1 -2 for ka_kite | 1 | 5.2669 | **0.0217** | LR |
| 1 -2 for later | 1 | 15.6782 | **0.0001** | LR |
| 1 -2 for laters | 1 | 4.0357 | **0.0445** | LR |

**Farewells by Sub-Region**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -26.3653 | 1.0290 | 656.5108 | 0.0001 |
| item | ctchultr | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | ctchyup | 1 | -1.7918 | 0.7638 | 5.5035 | 0.0190 |
| item | ka_kite | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | laters | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | later | 1 | -0.5878 | 0.5578 | 1.1105 | 0.2920 |
| item*region2 | cheerio, 1 | 1 | -0.0000 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | cheerio, 2 | 1 | -0.0000 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | cheerio, 3 | 1 | -0.0000 | 121837.317 | 0.0000 | 1.0000 |
| item*region2 | cheerio, 4 | 1 | 23.1464 | 1.4487 | 255.2654 | **0.0001** |
| item*region2 | cheerio, 5 | 1 | 23.9674 | 1.4662 | 267.2130 | **0.0001** |
| item*region2 | cheerio, 6 | 1 | 23.3208 | 1.4514 | 258.1882 | **0.0001** |
| item*region2 | cheerio, 7 | 1 | 24.2859 | 1.4778 | 270.0781 | **0.0001** |
| item*region2 | cheerio, 8 | 1 | -0.0000 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | cheerio, 9 | 0 | 23.5321 | 0.0000 | . | . |
| item*region2 | cheerio, 10 | 1 | -0.0000 | 167941.152 | 0.0000 | 1.0000 |
| item*region2 | cheerio, 11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | ctchultr ,1 | 1 | 2.5649 | 1.3205 | 3.7732 | 0.0521 |
| item*region2 | ctchultr ,2 | 1 | 0.9555 | 1.5089 | 0.4010 | 0.5266 |
| item*region2 | ctchultr ,3 | 1 | 0.8910 | 1.2136 | 0.5390 | 0.4628 |
| item*region2 | ctchultr ,4 | 1 | 0.5281 | 1.2057 | 0.1918 | 0.6614 |
| item*region2 | ctchultr ,5 | 1 | 1.8718 | 1.2050 | 2.4131 | 0.1203 |
| item*region2 | ctchultr ,6 | 1 | 0.7191 | 1.2095 | 0.3535 | 0.5521 |
| item*region2 | ctchultr ,7 | 1 | -23.8004 | 177025.517 | 0.0000 | 0.9999 |
| item*region2 | ctchultr ,8 | 1 | -23.8004 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | ctchultr ,9 | 1 | -23.8004 | 125175.944 | 0.0000 | 0.9998 |
| item*region2 | ctchultr ,10 | 1 | 1.1787 | 1.3046 | 0.8163 | 0.3663 |
| item*region2 | ctchultr ,11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | ctchyup ,1 | 1 | 2.4849 | 1.1547 | 4.6311 | **0.0314** |
| item*region2 | ctchyup ,2 | 1 | -24.5736 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | ctchyup ,3 | 1 | -0.3483 | 1.0687 | 0.1062 | 0.7445 |
| item*region2 | ctchyup ,4 | 1 | 0.5878 | 0.8944 | 0.4319 | 0.5111 |
| item*region2 | ctchyup ,5 | 1 | 0.1823 | 1.0878 | 0.0281 | 0.8669 |
| item*region2 | ctchyup ,6 | 1 | -0.5108 | 1.0646 | 0.2302 | 0.6313 |
| item*region2 | ctchyup ,7 | 1 | -24.5736 | 177025.517 | 0.0000 | 0.9999 |
| item*region2 | ctchyup ,8 | 1 | -24.5736 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | ctchyup ,9 | 1 | -24.5736 | 125175.944 | 0.0000 | 0.9998 |
| item*region2 | ctchyup ,10 | 1 | -24.5736 | 167941.152 | 0.0000 | 0.9999 |
| item*region2 | ctchyup ,11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | ka_kite ,1 | 1 | -23.8004 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | ka_kite ,2 | 1 | -23.8004 | 216811.094 | 0.0000 | 0.9999 |

| | | | | | | |
|---|---|---|---|---|---|---|
| item*region2 | ka_kite ,3 | 1 | -23.8004 | 121837.317 | 0.0000 | 0.9998 |
| item*region2 | ka_kite ,4 | 1 | 0.5281 | 1.2057 | 0.1918 | 0.6614 |
| item*region2 | ka_kite ,5 | 1 | -23.8004 | 153308.595 | 0.0000 | 0.9999 |
| item*region2 | ka_kite ,6 | 1 | -23.8004 | 113225.901 | 0.0000 | 0.9998 |
| item*region2 | ka_kite ,7 | 1 | -23.8004 | 177025.517 | 0.0000 | 0.9999 |
| item*region2 | ka_kite ,8 | 1 | -23.8004 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | ka_kite ,9 | 1 | -23.8004 | 125175.944 | 0.0000 | 0.9998 |
| item*region2 | ka_kite ,10 | 1 | -23.8004 | 167941.152 | 0.0000 | 0.9999 |
| item*region2 | ka_kite ,11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | later ,1 | 1 | 1.2809 | 1.0301 | 1.5463 | 0.2137 |
| item*region2 | later ,2 | 1 | 0.5878 | 0.9888 | 0.3533 | 0.5522 |
| item*region2 | later,3 | 1 | 2.7279 | 0.9327 | 8.5537 | **0.0034** |
| item*region2 | later ,4 | 1 | 0.8979 | 0.6846 | 1.7203 | 0.1896 |
| item*region2 | later,5 | 1 | 2.9857 | 1.1841 | 6.3582 | **0.0117** |
| item*region2 | later ,6 | 1 | 1.3499 | 0.7216 | 3.5002 | 0.0614 |
| item*region2 | later ,7 | 1 | -0.1054 | 0.9006 | 0.0137 | 0.9069 |
| item*region2 | later, 8 | 1 | -0.1054 | 1.0301 | 0.0105 | 0.9185 |
| item*region2 | later,9 | 1 | -0.3677 | 0.7668 | 0.2300 | 0.6316 |
| item*region2 | later ,10 | 1 | -0.2595 | 0.8873 | 0.0855 | 0.7699 |
| item*region2 | later ,11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | laters ,1 | 1 | 2.5649 | 1.3205 | 3.7732 | 0.0521 |
| item*region2 | laters ,2 | 1 | -23.8004 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | laters ,3 | 1 | 0.4249 | 1.2790 | 0.1104 | 0.7397 |
| item*region2 | laters ,4 | 1 | 2.4108 | 1.1098 | 4.7187 | **0.0298** |
| item*region2 | laters ,5 | 1 | 1.4663 | 1.2334 | 1.4133 | 0.2345 |
| item*region2 | laters ,6 | 1 | -0.4796 | 1.4576 | 0.1083 | 0.7421 |
| item*region2 | laters ,7 | 1 | -23.8004 | 177025.517 | 0.0000 | 0.9999 |
| item*region2 | laters ,8 | 1 | -23.8004 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | laters ,9 | 1 | -23.8004 | 125175.944 | 0.0000 | 0.9998 |
| item*region2 | laters ,10 | 1 | -23.8004 | 167941.152 | 0.0000 | 0.9999 |
| item*region2 | laters ,11 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Island**

Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | cheerio | -3.3142 | 0.7198 | -4.7251 | -1.9033 | -4.604 | 0.0000 |
| item | ctchultr | -2.8904 | 0.5932 | -4.0530 | -1.7278 | -4.873 | 0.0000 |
| item | ctchyup | -3.3142 | 0.7198 | -4.7251 | -1.9033 | -4.604 | 0.0000 |
| item | ka_kite | -4.0254 | 1.0089 | -6.0027 | -2.0480 | -3.990 | 0.0001 |
| item | laters | -4.0254 | 1.0089 | -6.0027 | -2.0480 | -3.990 | 0.0001 |
| item | later | -0.7732 | 0.2850 | -1.3317 | -0.2147 | -2.713 | 0.0067 |
| item*island | cheerio, 1 | 0.2118 | 0.8828 | -1.5185 | 1.9422 | 0.2400 | 0.8104 |
| item*island | cheerio, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ctchultr, 1 | 1.4633 | 0.6486 | 0.1919 | 2.7346 | 2.2559 | **0.0241** |
| item*island | ctchultr, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ctchyup, 1 | 1.8167 | 0.7682 | 0.3110 | 3.3224 | 2.3648 | **0.0180** |
| item*island | ctchyup, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ka_kite, 1 | 0.6242 | 1.1672 | -1.6635 | 2.9118 | 0.5348 | 0.5928 |
| item*island | ka_kite, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | later, 1 | 1.7198 | 0.3669 | 1.0008 | 2.4388 | 4.6879 | **0.0000** |
| item*island | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | laters ,1 | 2.8537 | 1.0380 | 0.8193 | 4.8881 | 2.7493 | **0.0060** |
| item*island | laters, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

**Farewells by Catholic**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -2.7081 | 1.0328 | 6.8752 | 0.0087 |
| item | ctchultr | 1 | -2.7081 | 1.0328 | 6.8752 | 0.0087 |
| item | ctchyup | 1 | -25.3653 | 0.2481 | 10451.5671 | 0.0001 |
| item | ka_kite | 1 | -25.3653 | 0.5078 | 2495.0144 | 0.0001 |
| item | laters | 1 | -1.9459 | 0.7559 | 6.6265 | 0.0100 |
| item | later | 1 | -0.0000 | 0.5000 | 0.0000 | 1.0000 |
| item*catholic | cheerio, 1 | 1 | -0.5188 | 1.1290 | 0.2112 | 0.6459 |
| item*catholic | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | ctchultr, 1 | 1 | 0.9943 | 1.0610 | 0.8782 | 0.3487 |
| item*catholic | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | ctchyup, 1 | 0 | 23.5913 | 0.0000 | . | . |
| item*catholic | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | ka_kite, 1 | 0 | 21.9074 | 0.0000 | . | . |
| item*catholic | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | later, 1 | 1 | 0.2921 | 0.5303 | 0.3035 | 0.5817 |
| item*catholic | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | laters, 1 | 1 | 0.2900 | 0.7926 | 0.1338 | 0.7145 |
| item*catholic | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Urban/Rural**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -3.3499 | 0.7194 | 21.6829 | 0.0001 |
| item | ctchultr | 1 | -1.8524 | 0.3803 | 23.7285 | 0.0001 |
| item | ctchyup | 1 | -2.1785 | 0.4307 | 25.5802 | 0.0001 |
| item | ka_kite | 1 | -25.3653 | 0.5120 | 2453.8953 | 0.0001 |
| item | laters | 1 | -2.0053 | 0.4026 | 24.8098 | 0.0001 |
| item | later | 1 | 0.7444 | 0.2786 | 7.1387 | 0.0075 |
| item*urb_rur | cheerio, 1 | 1 | 0.3295 | 0.8830 | 0.1392 | 0.7091 |
| item*urb_rur | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchultr, 1 | 1 | 0.1269 | 0.4850 | 0.0684 | 0.7936 |
| item*urb_rur | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchyup, 1 | 1 | 0.4530 | 0.5255 | 0.7432 | 0.3886 |
| item*urb_rur | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 1 | 0 | 22.3449 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | later, 1 | 1 | -0.7444 | 0.3523 | 4.4641 | **0.0346** |
| item*urb_rur | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | laters, 1 | 1 | 0.5294 | 0.4887 | 1.1734 | 0.2787 |
| item*urb_rur | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Big Region and Decile, Model 2 (no sig. figs. in Model 1)**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.0 | 0.0000 | . | . | |
| item | cheerio | 1 | -28.6499 | 1.8918 | 229.3544 | 0.0001 |
| item | ctchultr | 1 | -1.7831 | 1.1346 | 2.4697 | 0.1161 |
| item | ctchyup | 1 | -0.2758 | 0.9236 | 0.0892 | 0.7652 |
| item | ka_kite | 1 | -1.6762 | 1.4089 | 1.4155 | 0.2341 |
| item | laters | 1 | -1.5048 | 1.1341 | 1.7606 | 0.1846 |
| item | later | 1 | 0.4785 | 0.6804 | 0.4945 | 0.4819 |
| item*region1 | cheerio, 1 | 1 | 22.5507 | 1.1635 | 375.6489 | **0.0001** |
| item*region1 | cheerio, 2 | 0 | 23.2212 | 0.0000 | . | . |
| item*region1 | cheerio, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchultr, 1 | 1 | 0.9119 | 1.1029 | 0.6836 | 0.4084 |
| item*region1 | ctchultr, 2 | 1 | 0.6405 | 1.1064 | 0.3351 | 0.5627 |
| item*region1 | ctchultr, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchyup, 1 | 1 | 0.2708 | 0.8700 | 0.0969 | 0.7556 |
| item*region1 | ctchyup, 2 | 1 | -0.9629 | 0.9560 | 1.0144 | 0.3139 |
| item*region1 | ctchyup, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ka_kite, 1 | 1 | -0.4664 | 1.2137 | 0.1477 | 0.7008 |
| item*region1 | ka_kite, 2 | 1 | -23.6698 | 59415.3256 | 0.0000 | 0.9997 |
| item*region1 | ka_kite, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | laters, 1 | 1 | 1.6105 | 1.0918 | 2.1760 | 0.1402 |
| item*region1 | laters, 2 | 1 | -0.2069 | 1.1730 | 0.0311 | 0.8600 |
| item*region1 | laters 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | later, 1 | 1 | 1.2792 | 0.6465 | 3.9152 | **0.0479** |
| item*region1 | later, 2 | 1 | 0.8076 | 0.6261 | 1.6639 | 0.1971 |
| item*region1 | later, 3 | 0 | 0.0000 | 0.0000 | . | . |
| decile*item | cheerio | 1 | 0.3411 | 0.2236 | 2.3265 | 0.1272 |
| decile*item | ctchultr | 1 | -0.1480 | 0.0930 | 2.5365 | 0.1112 |
| decile*item | ctchyup | 1 | -0.3066 | 0.1113 | 7.5946 | **0.0059** |
| decile*item | ka_kite | 1 | -0.1708 | 0.2038 | 0.7021 | 0.4021 |
| decile*item | laters | 1 | -0.2088 | 0.0976 | 4.5774 | **0.0324** |
| decile*item | later | 1 | -0.1909 | 0.0670 | 8.1278 | **0.0044** |
| scale | 0 | 1.0 | 0.0000 | . | . | |

**Farewells by Main Region excluding Southern Region**
Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -2.9178 | 0.5133 | 32.3072 | 0.0001 |
| item | ctchultr | 1 | -2.0369 | 0.3544 | 33.0315 | 0.0001 |
| item | ctchyup | 1 | -2.9178 | 0.5133 | 32.3072 | 0.0001 |
| item | ka_kite | 1 | -26.3653 | 0.5932 | 1975.6301 | 0.0001 |
| item | laters | 1 | -2.9178 | 0.5133 | 32.3072 | 0.0001 |
| item | later | 1 | 0.0513 | 0.2265 | 0.0513 | 0.8209 |
| item*region1 | cheerio, 1 | 1 | -1.1076 | 1.1320 | 0.9574 | 0.3279 |
| item*region1 | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchultr, 1 | 1 | 0.4893 | 0.4969 | 0.9698 | 0.3247 |
| item*region1 | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchyup, 1 | 1 | 1.5960 | 0.6075 | 6.9019 | **0.0086** |
| item*region1 | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ka_kite, 1 | 0 | 23.4749 | 0.0000 | . | . |
| item*region1 | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | laters, 1 | 1 | 2.0621 | 0.5894 | 12.2425 | **0.0005** |
| item*region1 | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | later, 1 | 1 | 0.7219 | 0.3640 | 3.9327 | **0.0474** |
| item*region1 | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Main Region and Island, Model 2 (no sig. figs. in Model 1)**
Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -27.3653 | 0.7241 | 1428.0565 | 0.0001 |
| item | ctchultr | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | ctchyup | 1 | -1.7918 | 0.7638 | 5.5035 | 0.0190 |
| item | ka_kite | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | laters | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | later | 1 | -0.5878 | 0.5578 | 1.1105 | 0.2920 |
| item*region1 | cheerio, 1 | 1 | 23.1229 | 1.2443 | 345.3565 | **0.0001** |
| item*region1 | cheerio, 2 | 0 | 24.3449 | 0.0000 | . | . |
| item*region1 | cheerio, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchultr, 1 | 1 | -0.6167 | 1.3788 | 0.2001 | 0.6547 |
| item*region1 | ctchultr, 2 | 1 | -0.4555 | 1.2654 | 0.1296 | 0.7189 |
| item*region1 | ctchultr, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchyup, 1 | 1 | -24.8477 | 0.8300 | 896.2399 | **0.0001** |
| item*region1 | ctchyup, 2 | 1 | -25.5737 | 0.9304 | 755.5672 | **0.0001** |
| item*region1 | ctchyup, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ka_kite, 1 | 1 | -0.3254 | 1.1953 | 0.0741 | 0.7854 |
| item*region1 | ka_kite, 2 | 1 | -24.8004 | 99141.8609 | 0.0000 | 0.9998 |

| | | | | | | |
|---|---|---|---|---|---|---|
| item*region1 | ka_kite, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | laters, 1 | 1 | -23.6081 | 1.0774 | 480.1600 | **0.0001** |
| item*region1 | laters, 2 | 1 | -24.8002 | 1.1658 | 452.5137 | **0.0001** |
| item*region1 | laters, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | later, 1 | 1 | -0.6917 | 0.8152 | 0.7198 | 0.3962 |
| item*region1 | later, 2 | 1 | -0.2485 | 0.6491 | 0.1465 | 0.7019 |
| item*region1 | later, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | cheerio, 1 | 1 | 0.2171 | 1.0270 | 0.0447 | 0.8326 |
| item*island | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | ctchultr, 1 | 1 | 1.6341 | 0.8384 | 3.7988 | 0.0513 |
| item*island | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | ctchyup, 1 | 0 | 25.3177 | 0.0000 | . | . |
| item*island | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | ka_kite, 1 | 0 | -0.0000 | 0.0000 | . | . |
| item*island | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | laters, 1 | 0 | 25.3174 | 0.0000 | . | . |
| item*island | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | later, 1 | 1 | 2.0526 | 0.5218 | 15.4735 | **0.0001** |
| item*island | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Decile and Island, Model 1**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | cheerio | -3.8439 | 0.7639 | -5.3412 | -2.3467 | -5.032 | 0.0000 |
| item | ctchultr | -2.2648 | 1.7126 | -5.6214 | 1.0918 | -1.322 | 0.1860 |
| item | ctchyup | -1.7705 | 1.9320 | -5.5572 | 2.0162 | -.9164 | 0.3595 |
| item | ka_kite | 0.3905 | 1.8991 | -3.3317 | 4.1128 | 0.2056 | 0.8371 |
| item | laters | 0.3905 | 1.9318 | -3.3956 | 4.1767 | 0.2022 | 0.8398 |
| item | later | 0.3748 | 0.7976 | -1.1885 | 1.9381 | 0.4699 | 0.6384 |
| decile*item | cheerio | 0.0805 | 0.0569 | -0.0309 | 0.1920 | 1.4158 | 0.1568 |
| decile*item | ctchultr | -0.0977 | 0.2692 | -0.6253 | 0.4299 | -.3629 | 0.7167 |
| decile*item | ctchyup | -0.2631 | 0.3571 | -0.9631 | 0.4368 | -.7368 | 0.4613 |
| decile*item | ka_kite | -1.1541 | 0.4020 | -1.9421 | -0.3662 | -2.871 | **0.0041** |
| decile*item | laters | -1.1541 | 0.4081 | -1.9540 | -0.3543 | -2.828 | **0.0047** |
| decile*item | later | -0.1798 | 0.1219 | -0.4187 | 0.0590 | -1.476 | 0.1400 |
| item*island | cheerio, 1 | -0.6208 | 1.7871 | -4.1234 | 2.8817 | -.3474 | 0.7283 |
| item*island | cheerio, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ctchultr, 1 | 1.5453 | 1.7926 | -1.9681 | 5.0587 | 0.8620 | 0.3887 |
| item*island | ctchultr, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ctchyup, 1 | 1.7466 | 2.0096 | -2.1922 | 5.6854 | 0.8691 | 0.3848 |
| item*island | ctchyup, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ka_kite, 1 | -3.3737 | 2.1536 | -7.5948 | 0.8474 | -1.567 | 0.1172 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| item*island | ka_kite, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | laters, 1 | -0.6008 | 1.9937 | -4.5084 | 3.3067 | -.3014 | 0.7631 |
| item*island | laters, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | later, 1 | 1.5486 | 0.9877 | -0.3873 | 3.4846 | 1.5679 | 0.1169 |
| item*island | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| dec*item*is | cheerio, 1 | 0.1412 | 0.2288 | -0.3073 | 0.5897 | 0.6171 | 0.5372 |
| dec*item*is | cheerio, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| dec*item*is | ctchultr, 1 | -0.0456 | 0.2873 | -0.6088 | 0.5175 | -.1589 | 0.8738 |
| dec*item*is | ctchultr, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| dec*item*is | ctchyup, 1 | -0.0654 | 0.3797 | -0.8096 | 0.6788 | -.1723 | 0.8632 |
| dec*item*is | ctchyup, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| dec*item*is | ka_kite, 1 | 1.0699 | 0.4397 | 0.2081 | 1.9317 | 2.4333 | **0.0150** |
| dec*item*is | ka_kite, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| dec*item*is | laters, 1 | 0.9569 | 0.4186 | 0.1365 | 1.7773 | 2.2860 | **0.0223** |
| dec*item*is | laters, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| dec*item*is | later, 1 | 0.0056 | 0.1498 | -0.2881 | 0.2993 | 0.0373 | 0.9702 |
| dec*item*is | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 0.9536 | . | . | . | . | . | |

**Farewells by Decile in North Island only**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | cheerio | -4.4592 | 1.6120 | -7.6187 | -1.2997 | -2.766 | 0.0057 |
| item | ctchultr | -0.7176 | 0.5298 | -1.7559 | 0.3208 | -1.354 | 0.1756 |
| item | ctchyup | -0.0222 | 0.5522 | -1.1044 | 1.0600 | -.0402 | 0.9680 |
| item | ka_kite | -2.9786 | 1.0139 | -4.9657 | -0.9914 | -2.938 | 0.0033 |
| item | laters | -0.2086 | 0.4922 | -1.1732 | 0.7560 | -.4239 | 0.6716 |
| item | later | 1.9253 | 0.5830 | 0.7827 | 3.0679 | 3.3025 | 0.0010 |
| decile*item | cheerio | 0.2207 | 0.2215 | -0.2135 | 0.6549 | 0.9963 | 0.3191 |
| decile*item | ctchultr | -0.1438 | 0.1007 | -0.3412 | 0.0535 | -1.428 | 0.1532 |
| decile*item | ctchyup | -0.3291 | 0.1289 | -0.5817 | -0.0764 | -2.553 | **0.0107** |
| decile*item | ka_kite | -0.0853 | 0.1783 | -0.4347 | 0.2641 | -.4786 | 0.6322 |
| decile*item | laters | -0.1977 | 0.0929 | -0.3798 | -0.0156 | -2.128 | **0.0334** |
| decile*item | later | -0.1746 | 0.0872 | -0.3455 | -0.0037 | -2.003 | **0.0452** |
| scale | 1.0138 | . | . | . | . | . | |

**Farewells by Decile in South Island only**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | cheerio | -3.8882 | 0.7852 | -5.4272 | -2.3491 | -4.952 | 0.0000 |
| item | ctchultr | -2.2868 | 1.7339 | -5.6851 | 1.1115 | -1.319 | 0.1872 |
| item | ctchyup | -1.7772 | 1.9476 | -5.5945 | 2.0401 | -.9125 | 0.3615 |
| item | ka_kite | 0.5829 | 1.9381 | -3.2158 | 4.3816 | 0.3008 | 0.7636 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| item | laters | 0.5829 | 1.9490 | -3.2372 | 4.4030 | 0.2991 | 0.7649 |
| item | later | 0.3598 | 0.7973 | -1.2029 | 1.9225 | 0.4513 | 0.6518 |
| decile*item | cheerio | 0.0856 | 0.0578 | -0.0276 | 0.1988 | 1.4818 | 0.1384 |
| decile*item | ctchultr | -0.0955 | 0.2718 | -0.6282 | 0.4371 | -.3515 | 0.7252 |
| decile*item | ctchyup | -0.2641 | 0.3607 | -0.9711 | 0.4429 | -.7322 | 0.4640 |
| decile*item | ka_kite | -1.2337 | 0.4393 | -2.0948 | -0.3726 | -2.808 | **0.0050** |
| decile*item | laters | -1.2337 | 0.4410 | -2.0981 | -0.3693 | -2.797 | **0.0052** |
| decile*item | later | -0.1781 | 0.1219 | -0.4171 | 0.0609 | -1.461 | 0.1440 |
| scale | 0.8488 | . | . | . | . | . | |

**Farewells by Decile and Island, Model 2**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | cheerio | -4.5636 | 1.4378 | -7.3817 | -1.7456 | -3.174 | 0.0015 |
| item | ctchultr | -2.0265 | 0.7961 | -3.5868 | -0.4663 | -2.546 | 0.0109 |
| item | ctchyup | -1.5065 | 0.8989 | -3.2682 | 0.2553 | -1.676 | 0.0937 |
| item | ka_kite | -2.6403 | 1.9112 | -6.3861 | 1.1056 | -1.381 | 0.1671 |
| item | laters | -2.6813 | 1.2355 | -5.1028 | -0.2598 | -2.170 | 0.0300 |
| item | later | 0.3490 | 0.5200 | -0.6702 | 1.3682 | 0.6711 | 0.5021 |
| decile*item | cheerio | 0.1831 | 0.1604 | -0.1313 | 0.4974 | 1.1413 | 0.2537 |
| decile*item | ctchultr | -0.1386 | 0.0943 | -0.3234 | 0.0463 | -1.469 | 0.1418 |
| decile*item | ctchyup | -0.3212 | 0.1204 | -0.5571 | -0.0852 | -2.668 | **0.0076** |
| decile*item | ka_kite | -0.2366 | 0.2282 | -0.6838 | 0.2107 | -1.037 | 0.2999 |
| decile*item | laters | -0.2284 | 0.0974 | -0.4192 | -0.0376 | -2.346 | **0.0190** |
| decile*item | later | -0.1754 | 0.0706 | -0.3139 | -0.0370 | -2.484 | **0.0130** |
| item*island | cheerio, 1 | 0.3476 | 0.8988 | -1.4140 | 2.1091 | 0.3867 | 0.6990 |
| item*island | cheerio, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ctchultr, 1 | 1.2839 | 0.6583 | -0.0064 | 2.5742 | 1.9503 | 0.0511 |
| item*island | ctchultr, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ctchyup, 1 | 1.4565 | 0.7796 | -0.0716 | 2.9845 | 1.8681 | 0.0617 |
| item*island | ctchyup, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | ka_kite, 1 | 0.2937 | 1.3945 | -2.4396 | 3.0269 | 0.2106 | 0.8332 |
| item*island | ka_kite, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | laters, 1 | 2.6080 | 1.0546 | 0.5411 | 4.6750 | 2.4730 | **0.0134** |
| item*island | laters, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | later, 1 | 1.5770 | 0.3753 | 0.8415 | 2.3126 | 4.2022 | **0.0000** |
| item*island | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 0.9887 | . | . | . | . | . | |

**Farewells by Decile and Urban/Rural, Model 2 (no sig. figs. in Model 1)**
Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -4.8915 | 1.5614 | 9.8146 | 0.0017 |
| item | ctchultr | 1 | -0.8377 | 0.6134 | 1.8650 | 0.1721 |
| item | ctchyup | 1 | -0.3135 | 0.6387 | 0.2409 | 0.6236 |
| item | ka_kite | 1 | -24.1727 | 1.0097 | 573.1014 | 0.0001 |
| item | laters | 1 | -0.5037 | 0.6035 | 0.6966 | 0.4039 |
| item | later | 1 | 2.7019 | 0.6100 | 19.6161 | 0.0001 |
| decile*item | cheerio | 1 | 0.2147 | 0.1762 | 1.4859 | 0.2229 |
| decile*item | ctchultr | 1 | -0.1729 | 0.0893 | 3.7525 | 0.0527 |
| decile*item | ctchyup | 1 | -0.3578 | 0.1087 | 10.8400 | **0.0010** |
| decile*item | ka_kite | 1 | -0.2094 | 0.2139 | 0.9586 | 0.3275 |
| decile*item | laters | 1 | -0.2717 | 0.0929 | 8.5504 | **0.0035** |
| decile*item | later | 1 | -0.2856 | 0.0732 | 15.2263 | **0.0001** |
| item*urb_rur | cheerio, 1 | 1 | 0.6047 | 0.9197 | 0.4323 | 0.5109 |
| item*urb_rur | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchultr, 1 | 1 | -0.0455 | 0.4980 | 0.0083 | 0.9273 |
| item*urb_rur | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchyup, 1 | 1 | 0.1913 | 0.5548 | 0.1190 | 0.7302 |
| item*urb_rur | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 1 | 0 | 22.1260 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | laters, 1 | 1 | 0.3093 | 0.5085 | 0.3700 | 0.5430 |
| item*urb_rur | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | later, 1 | 1 | -1.1966 | 0.4024 | 8.8402 | **0.0029** |
| item*urb_rur | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Main Region and Urban/Rural, Model 1**
Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -25.3652 | 0.7289 | 1211.0956 | 0.0001 |
| item | chulate | 1 | -25.3649 | 1.2938 | 384.3700 | 0.0001 |
| item | chuup | 1 | -1.0986 | 1.1547 | 0.9052 | 0.3414 |
| item | ka_kite | 1 | -25.3653 | 1.0541 | 579.0571 | 0.0001 |
| item | pllater | 1 | -1.0986 | 1.1547 | 0.9052 | 0.3414 |
| item | sglater | 1 | -1.0986 | 1.1547 | 0.9052 | 0.3414 |
| item*region1 | cheerio, 1 | 1 | -0.0001 | 1.2473 | 0.0000 | 0.9999 |
| item*region1 | cheerio, 2 | 0 | 22.5926 | 0.0000 | . | . |
| item*region1 | cheerio, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | chulate, 1 | 1 | 23.1136 | 1.4921 | 239.9475 | **0.0001** |
| item*region1 | chulate, 2 | 1 | 23.8245 | 1.2130 | 385.7398 | **0.0001** |

| | | | | | | |
|---|---|---|---|---|---|---|
| item*region1 | chulate, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | chuup, 1 | 1 | -0.6931 | 1.3123 | 0.2790 | 0.5974 |
| item*region1 | chuup, 2 | 1 | -1.6740 | 1.3655 | 1.5029 | 0.2202 |
| item*region1 | chuup, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ka_kite, 1 | 1 | -0.0001 | 1.2148 | 0.0000 | 1.0000 |
| item*region1 | ka_kite, 2 | 1 | -0.0001 | 55242.1315 | 0.0000 | 1.0000 |
| item*region1 | ka_kite, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | pllater, 1 | 1 | -0.3483 | 1.2815 | 0.0739 | 0.7858 |
| item*region1 | pllater, 2 | 1 | -1.6740 | 1.3655 | 1.5029 | 0.2202 |
| item*region1 | pllater, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | sglater, 1 | 1 | 4.0943 | 1.5438 | 7.0337 | **0.0080** |
| item*region1 | sglater, 2 | 1 | 1.3350 | 1.2053 | 1.2269 | 0.2680 |
| item*region1 | sglater, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | cheerio, 1 | 1 | -0.0001 | 1.0284 | 0.0000 | 0.9999 |
| item*urb_rur | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | chulate, 1 | 1 | 23.1677 | 0.7502 | 953.7982 | **0.0001** |
| item*urb_rur | chulate, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | chuup, 1 | 1 | -1.0986 | 1.5635 | 0.4938 | 0.4823 |
| item*urb_rur | chuup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 1 | 0 | 23.1680 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | pllater, 1 | 1 | -24.2668 | 1.0284 | 556.8235 | **0.0001** |
| item*urb_rur | pllater, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | sglater, 1 | 1 | 0.6931 | 1.3229 | 0.2745 | 0.6003 |
| item*urb_rur | sglater, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | cheerio 1, 1 | 0 | 21.8391 | 0.0000 | . | . |
| item*rg1*u/r | cheerio 1, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | cheerio 2, 1 | 0 | -0.1717 | 0.0000 | . | . |
| item*rg1*u/r | cheerio 2, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | cheerio 3, 1 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | cheerio 3, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | chulate 1, 1 | 1 | -22.1328 | 1.1302 | 383.4794 | **0.0001** |
| item*rg1*u/r | chulate 1, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | chulate 2, 1 | 0 | -24.1395 | 0.0000 | . | . |
| item*rg1*u/r | chulate 2, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | chulate 3, 1 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | chulate 3, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | chuup 1, 1 | 1 | 1.8295 | 1.7271 | 1.1221 | 0.2895 |
| item*rg1*u/r | chuup 1, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | chuup 2, 1 | 1 | 0.9268 | 1.8714 | 0.2453 | 0.6204 |
| item*rg1*u/r | chuup 2, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | chuup 3, 1 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | chuup 3, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | ka_kite 1, 1 | 0 | -0.1698 | 0.0000 | . | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| item*rg1*u/r | ka_kite 1, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | ka_kite 2, 1 | 1 | -23.1680 | 75137.4222 | 0.0000 | 0.9998 |
| item*rg1*u/r | ka_kite 2, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | ka_kite 3, 1 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | ka_kite 3, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | pllater 1, 1 | 1 | 25.1876 | 1.2202 | 426.1354 | **0.0001** |
| item*rg1*u/r | pllater 1, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | pllater 2, 1 | 0 | 24.0949 | 0.0000 | . | . |
| item*rg1*u/r | pllater 2, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | pllater 3, 1 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | pllater 3, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | sglater 1, 1 | 1 | -3.6317 | 1.7072 | 4.5256 | **0.0334** |
| item*rg1*u/r | sglater 1, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | sglater 2, 1 | 1 | -0.9295 | 1.4033 | 0.4388 | 0.5077 |
| item*rg1*u/r | sglater 2, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | sglater 3, 1 | 0 | 0.0000 | 0.0000 | . | . |
| item*rg1*u/r | sglater 3, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Main Region and Urban/Rural, Model 2**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -26.4995 | 0.7488 | 1252.3937 | 0.0001 |
| item | ctchultr | 1 | -2.5951 | 1.0979 | 5.5874 | 0.0181 |
| item | ctchyup | 1 | -1.9866 | 0.8682 | 5.2351 | 0.0221 |
| item | ka_kite | 1 | -25.1434 | 1.0541 | 568.9698 | 0.0001 |
| item | laters | 1 | -2.8597 | 1.1154 | 6.5735 | 0.0104 |
| item | later | 1 | -0.0241 | 0.6185 | 0.0015 | 0.9689 |
| item*region1 | cheerio, 1 | 1 | 22.3733 | 1.1353 | 388.3339 | **0.0001** |
| item*region1 | cheerio, 2 | 0 | 23.5340 | 0.0000 | . | . |
| item*region1 | cheerio, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchultr, 1 | 1 | 1.0427 | 1.0958 | 0.9054 | 0.3413 |
| item*region1 | ctchultr, 2 | 1 | 0.5951 | 1.1004 | 0.2925 | 0.5887 |
| item*region1 | ctchultr, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchyup, 1 | 1 | 0.5165 | 0.8325 | 0.3849 | 0.5350 |
| item*region1 | ctchyup, 2 | 1 | -1.0270 | 0.9251 | 1.2323 | 0.2670 |
| item*region1 | ctchyup, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ka_kite, 1 | 1 | -0.1699 | 1.2148 | 0.0196 | 0.8888 |
| item*region1 | ka_kite, 2 | 1 | -23.3867 | 56812.1249 | 0.0000 | 0.9997 |
| item*region1 | ka_kite, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | laters, 1 | 1 | 1.7755 | 1.0806 | 2.6999 | 0.1004 |
| item*region1 | laters, 2 | 1 | -0.2327 | 1.1619 | 0.0401 | 0.8413 |
| item*region1 | laters, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | later, 1 | 1 | 1.3079 | 0.6372 | 4.2124 | **0.0401** |

| | | | | | | |
|---|---|---|---|---|---|---|
| item*region1 | later, 2 | 1 | 0.5765 | 0.6165 | 0.8744 | 0.3497 |
| item*region1 | later, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | cheerio, 1 | 1 | 0.1841 | 0.9369 | 0.0386 | 0.8442 |
| item*urb_rur | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchultr, 1 | 1 | 0.0420 | 0.4965 | 0.0072 | 0.9326 |
| item*urb_rur | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchyup, 1 | 1 | 0.2656 | 0.5475 | 0.2354 | 0.6276 |
| item*urb_rur | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 1 | 0 | 22.9461 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | laters, 1 | 1 | 0.3944 | 0.5219 | 0.5712 | 0.4498 |
| item*urb_rur | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | later, 1 | 1 | -0.8117 | 0.3640 | 4.9728 | **0.0257** |
| item*urb_rur | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 -2 for ka_kite | 1 | 4.7160 | **0.0299** | LR |

**Farewells by Urban/Rural, Northern Region only**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -26.3653 | 1.0146 | 675.2694 | 0.0001 |
| item | ctchultr | 1 | -2.2513 | 0.7434 | 9.1712 | 0.0025 |
| item | ctchyup | 1 | -1.7918 | 0.6236 | 8.2553 | 0.0041 |
| item | ka_kite | 1 | -26.3653 | 0.6038 | 1906.6434 | 0.0001 |
| item | laters | 1 | -1.4469 | 0.5557 | 6.7792 | 0.0092 |
| item | later | 1 | 2.9957 | 1.0247 | 8.5471 | 0.0035 |
| item*urb_rur | cheerio, 1 | 0 | 22.8390 | 0.0000 | . | . |
| item*urb_rur | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchultr, 1 | 1 | 1.0349 | 0.8454 | 1.4986 | 0.2209 |
| item*urb_rur | ctchult, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchyup, 1 | 1 | 0.7309 | 0.7338 | 0.9921 | 0.3192 |
| item*urb_rur | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 1 | 0 | 23.9982 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | laters, 1 | 1 | 0.9208 | 0.6567 | 1.9664 | 0.1608 |
| item*urb_rur | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | later, 1 | 1 | -2.9386 | 1.0791 | 7.4162 | **0.0065** |
| item*urb_rur | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Urban/Rural, Central Region only**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -2.7726 | 0.7289 | 14.4701 | 0.0001 |
| item | ctchultr | 1 | -1.5404 | 0.4499 | 11.7253 | 0.0006 |
| item | ctchyup | 1 | -2.7726 | 0.7289 | 14.4701 | 0.0001 |
| item | ka_kite | 1 | -26.3653 | 91078.8772 | 0.0000 | 0.9998 |
| item | laters | 1 | -2.7726 | 0.7289 | 14.4701 | 0.0001 |
| item | later | 1 | 0.2364 | 0.3454 | 0.4684 | 0.4937 |
| item*urb_rur | cheerio, 1 | 1 | -0.1719 | 1.0284 | 0.0279 | 0.8673 |
| item*urb_rur | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchultr, 1 | 1 | -0.9719 | 0.7502 | 1.6784 | 0.1951 |
| item*urb_rur | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchyup, 1 | 1 | -0.1719 | 1.0284 | 0.0279 | 0.8673 |
| item*urb_rur | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 1 | 1 | 0.0000 | 123880.666 | 0.0000 | 1.0000 |
| item*urb_rur | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | laters, 1 | 1 | -0.1719 | 1.0284 | 0.0279 | 0.8673 |
| item*urb_rur | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | later, 1 | 1 | -0.2364 | 0.4683 | 0.2548 | 0.6137 |
| item*urb_rur | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Urban/Rural, Southern Region only**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -27.3653 | 437798.604 | 0.0000 | 1.0000 |
| item | ctchultr | 1 | -27.3653 | 1.0541 | 673.9745 | 0.0001 |
| item | ctchyup | 1 | -1.0986 | 1.1547 | 0.9052 | 0.3414 |
| item | ka_kite | 1 | -27.3653 | 1.0541 | 673.9745 | 0.0001 |
| item | laters | 1 | -1.0986 | 1.1547 | 0.9052 | 0.3414 |
| item | later | 1 | -1.0986 | 1.1547 | 0.9052 | 0.3414 |
| item*urb_rur | cheerio, 1 | 1 | 0.0000 | 518010.294 | 0.0000 | 1.0000 |
| item*urb_rur | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchultr, 1 | 0 | 25.1681 | 0.0000 | . | . |
| item*urb_rur | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchyup, 1 | 1 | -1.0986 | 1.5635 | 0.4938 | 0.4823 |
| item*urb_rur | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 1 | 0 | 25.1681 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | laters, 1 | 1 | -26.2667 | 276888.149 | 0.0000 | 0.9999 |
| item*urb_rur | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | later, 1 | 1 | 0.6931 | 1.3229 | 0.2745 | 0.6003 |

| | | | | | | |
|---|---|---|---|---|---|---|
| item*urb_rur | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Urban/Rural and Island, Model 2 (no sig figs. in Model 1)**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -3.4951 | 0.9614 | 13.2179 | 0.0003 |
| item | ctchultr | 1 | -2.9900 | 0.6866 | 18.9634 | 0.0001 |
| item | ctchyup | 1 | -3.6768 | 0.8299 | 19.6305 | 0.0001 |
| item | ka_kite | 1 | -25.9194 | 1.0146 | 652.6185 | 0.0001 |
| item | laters | 1 | -4.4985 | 1.0873 | 17.1178 | 0.0001 |
| item | later | 1 | -0.3359 | 0.3738 | 0.8074 | 0.3689 |
| item*island | cheerio, 1 | 1 | 0.2079 | 0.8869 | 0.0549 | 0.8147 |
| item*island | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | ctchultr, 1 | 1 | 1.4550 | 0.6519 | 4.9816 | **0.0256** |
| item*island | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | ctchyup, 1 | 1 | 1.8472 | 0.7728 | 5.7130 | **0.0168** |
| item*island | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | ka_kite, 1 | 1 | 0.7538 | 1.1763 | 0.4107 | 0.5216 |
| item*island | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | laters, 1 | 1 | 2.9112 | 1.0424 | 7.7998 | **0.0052** |
| item*island | laters ,2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | later, 1 | 1 | 1.7349 | 0.3807 | 20.7620 | **0.0001** |
| item*island | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | cheerio, 1 | 1 | 0.3468 | 0.8861 | 0.1531 | 0.6956 |
| item*urb_rur | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchultr, 1 | 1 | 0.2336 | 0.4955 | 0.2222 | 0.6374 |
| item*urb_rur | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ctchyup, 1 | 1 | 0.5922 | 0.5383 | 1.2104 | 0.2712 |
| item*urb_rur | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 1 | 0 | 22.3930 | 0.0000 | . | . |
| item*urb_rur | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | laters, 1 | 1 | 0.7314 | 0.5095 | 2.0610 | 0.1511 |
| item*urb_rur | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | later, 1 | 1 | -0.7129 | 0.3832 | 3.4622 | 0.0628 |
| item*urb_rur | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Main Region and Decile in N and C Regions only, Model 1**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -5.0059 | 2.0196 | 6.1438 | 0.0132 |
| item | ctchultr | 1 | -2.5464 | 1.0200 | 6.2323 | 0.0125 |
| item | ctchyup | 1 | 0.5243 | 1.1132 | 0.2218 | 0.6376 |
| item | ka_kite | 1 | -26.3653 | 1.1982 | 484.2098 | 0.0001 |
| item | laters | 1 | 0.5243 | 1.1132 | 0.2218 | 0.6376 |
| item | later | 1 | 1.6260 | 0.6692 | 5.9044 | 0.0151 |
| item*region1 | cheerio, 1 | 1 | -2.5101 | 4.7940 | 0.2742 | 0.6006 |
| item*region1 | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchultr, 1 | 1 | 2.5167 | 1.2296 | 4.1894 | **0.0407** |
| item*region1 | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchyup, 1 | 1 | -0.9339 | 1.2834 | 0.5296 | 0.4668 |
| item*region1 | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ka_kite, 1 | 0 | 23.6477 | 0.0000 | . | . |
| item*region1 | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | laters, 1 | 1 | -1.1265 | 1.2608 | 0.7983 | 0.3716 |
| item*region1 | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | later, 1 | 1 | -0.7106 | 0.8979 | 0.6263 | 0.4287 |
| item*region1 | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| decile*item | cheerio | 1 | 0.2885 | 0.2460 | 1.3748 | 0.2410 |
| decile*item | ctchultr | 1 | 0.0768 | 0.1399 | 0.3010 | 0.5832 |
| decile*item | ctchyup | 1 | -0.8062 | 0.3412 | 5.5840 | **0.0181** |
| decile*item | ka_kite | 1 | 0.0000 | 0.2224 | 0.0000 | 1.0000 |
| decile*item | laters | 1 | -0.8062 | 0.3412 | 5.5840 | **0.0181** |
| decile*item | later | 1 | -0.2429 | 0.0955 | 6.4635 | **0.0110** |
| dec*item*reg1 | cheerio, 1 | 1 | 0.2399 | 0.5863 | 0.1674 | 0.6824 |
| dec*item*reg1 | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | |
| dec*item*reg1 | ctchultr, 1 | 1 | -0.4466 | 0.2205 | 4.1008 | **0.0429** |
| dec*item*reg1 | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| dec*item*reg1 | ctchyup, 1 | 1 | 0.6032 | 0.3663 | 2.7118 | 0.0996 |
| dec*item*reg1 | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| dec*item*reg1 | ka_kite, 1 | 0 | -0.0360 | 0.0000 | . | . |
| dec*item*reg1 | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| dec*item*reg1 | laters, 1 | 1 | 0.7538 | 0.3580 | 4.4333 | **0.0352** |
| dec*item*reg1 | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| dec*item*reg1 | later, 1 | 1 | 0.2142 | 0.1423 | 2.2638 | 0.1324 |
| dec*item*reg1 | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Main Region and Decile in N and C Regions only, Model 2**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -5.4288 | 1.8918 | 8.2350 | 0.0041 |
| item | ctchultr | 1 | -1.2828 | 0.6546 | 3.8406 | 0.0500 |
| item | ctchyup | 1 | -1.0832 | 0.7533 | 2.0675 | 0.1505 |
| item | ka_kite | 1 | -26.1370 | 1.1982 | 475.8591 | 0.0001 |
| item | laters | 1 | -1.8297 | 0.7355 | 6.1893 | 0.0129 |
| item | later | 1 | 1.0250 | 0.5052 | 4.1172 | 0.0425 |
| item*region1 | cheerio, 1 | 1 | -0.6705 | 1.1635 | 0.3320 | 0.5645 |
| item*region1 | cheerio, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchultr, 1 | 1 | 0.3063 | 0.5184 | 0.3492 | 0.5546 |
| item*region1 | ctchultr, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ctchyup, 1 | 1 | 1.2061 | 0.6344 | 3.6143 | 0.0573 |
| item*region1 | ctchyup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ka_kite, 1 | 0 | 23.4193 | 0.0000 | . | . |
| item*region1 | ka_kite, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | laters, 1 | 1 | 1.8369 | 0.6024 | 9.2983 | **0.0023** |
| item*region1 | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | later, 1 | 1 | 0.5182 | 0.3798 | 1.8608 | 0.1725 |
| item*region1 | later, 2 | 0 | 0.0000 | 0.0000 | . | . |
| decile*item | cheerio | 1 | 0.3411 | 0.2236 | 2.3265 | 0.1272 |
| decile*item | ctchultr | 1 | -0.1235 | 0.0951 | 1.6880 | 0.1939 |
| decile*item | ctchyup | 1 | -0.3414 | 0.1235 | 7.6424 | **0.0057** |
| decile*item | ka_kite | 1 | -0.0360 | 0.2224 | 0.0262 | 0.8714 |
| decile*item | laters | 1 | -0.1860 | 0.0995 | 3.4970 | 0.0615 |
| decile*item | later | 1 | -0.1507 | 0.0692 | 4.7445 | **0.0294** |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Decile in Northern Region only**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | cheerio | -7.4215 | 1.1223 | -9.6212 | -5.2218 | -6.613 | 0.0000 |
| item | ctchultr | -0.0159 | 0.6423 | -1.2747 | 1.2429 | -.0247 | 0.9803 |
| item | ctchyup | -0.3985 | 0.6878 | -1.7466 | 0.9496 | -.5794 | 0.5623 |
| item | ka_kite | -2.6974 | 1.0866 | -4.8270 | -0.5677 | -2.482 | 0.0130 |
| item | laters | -0.5925 | 0.5965 | -1.7616 | 0.5766 | -.9933 | 0.3205 |
| item | later | 0.9250 | 0.6080 | -0.2667 | 2.1166 | 1.5214 | 0.1282 |
| decile*item | cheerio | 0.5166 | 0.1243 | 0.2730 | 0.7602 | 4.1560 | 0.0000 |
| decile*item | ctchultr | -0.3727 | 0.1481 | -0.6630 | -0.0825 | -2.517 | **0.0118** |
| decile*item | ctchyup | -0.2048 | 0.1509 | -0.5006 | 0.0909 | -1.357 | 0.1746 |
| decile*item | ka_kite | -0.0391 | 0.1958 | -0.4229 | 0.3448 | -.1994 | 0.8419 |
| decile*item | laters | -0.0539 | 0.1091 | -0.2678 | 0.1601 | -.4934 | 0.6217 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| decile*item | later | -0.0301 | 0.1071 | -0.2400 | 0.1798 | -.2811 | 0.7786 |
| scale | 0.9509 | . | . | . | . | . | |

**Farewells by Decile in Central Region only**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -5.0059 | 2.0196 | 6.1438 | 0.0132 |
| item | ctchultr | 1 | -2.5464 | 1.0200 | 6.2323 | 0.0125 |
| item | ctchyup | 1 | 0.5243 | 1.1132 | 0.2218 | 0.6376 |
| item | ka_kite | 1 | -27.3653 | 262574.655 | 0.0000 | 0.9999 |
| item | laters | 1 | 0.5243 | 1.1132 | 0.2218 | 0.6376 |
| item | later | 1 | 1.6260 | 0.6692 | 5.9044 | 0.0151 |
| decile*item | cheerio | 1 | 0.2885 | 0.2460 | 1.3748 | 0.2410 |
| decile*item | ctchultr | 1 | 0.0768 | 0.1399 | 0.3010 | 0.5832 |
| decile*item | ctchyup | 1 | -0.8062 | 0.3412 | 5.5840 | **0.0181** |
| decile*item | ka_kite | 1 | -0.0000 | 37778.4954 | 0.0000 | 1.0000 |
| decile*item | laters | 1 | -0.8062 | 0.3412 | 5.5840 | **0.0181** |
| decile*item | later | 1 | -0.2429 | 0.0955 | 6.4635 | **0.0110** |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Farewells by Decile in Southern Region only**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.00 | 0.0000 | . | . | |
| item | cheerio | 1 | -27.3653 | 536018.042 | 0.0000 | 1.0000 |
| item | ctchultr | 1 | 0.3562 | 2.1817 | 0.0267 | 0.8703 |
| item | ctchyup | 1 | -1.1627 | 1.5952 | 0.5313 | 0.4661 |
| item | ka_kite | 1 | 0.3562 | 2.1817 | 0.0267 | 0.8703 |
| item | laters | 1 | 0.3562 | 2.1817 | 0.0267 | 0.8703 |
| item | later | 1 | 3.3744 | 2.0231 | 2.7819 | 0.0953 |
| decile*item | cheerio | 1 | -0.0000 | 83349.7197 | 0.0000 | 1.0000 |
| decile*item | ctchultr | 1 | -0.8238 | 0.8490 | 0.9416 | 0.3319 |
| decile*item | ctchyup | 1 | -0.1152 | 0.2720 | 0.1793 | 0.6720 |
| decile*item | ka_kite | 1 | -0.8238 | 0.8490 | 0.9416 | 0.3319 |
| decile*item | laters | 1 | -0.8238 | 0.8490 | 0.9416 | 0.3319 |
| decile*item | later | 1 | -0.7593 | 0.3771 | 4.0535 | **0.0441** |
| scale | 0 | 1.00 | 0.0000 | . | . | |

**Summary Stats for *Later***

***Later* by Decile**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | 1.4996 | 0.4141 | 0.6879 | 2.3112 | 3.6212 | 0.0003 |
| decile*item | later | -0.2094 | 0.0625 | -0.3320 | -0.0868 | -3.349 | **0.0008** |
| scale | 0.9986 | . | . | . | . | . | |

***Later* by Main Region**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | -0.5878 | 0.5578 | -1.6810 | 0.5054 | -1.054 | 0.2920 |
| item*region1 | later, 1 | 1.3610 | 0.6263 | 0.1334 | 2.5886 | 2.1729 | **0.0298** |
| item*region1 | later, 2 | 0.6391 | 0.6020 | -0.5409 | 1.8190 | 1.0616 | 0.2884 |
| item*region1 | later, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for later | 1 | 4.0357 | **0.0445** | LR |

***Later* by Island**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | -0.7732 | 0.2850 | -1.3317 | -0.2147 | -2.713 | 0.0067 |
| item*island | later, 1 | 1.7198 | 0.3669 | 1.0008 | 2.4388 | 4.6879 | **0.0000** |
| item*island | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

***Later* by Urban/Rural**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | 0.7444 | 0.2786 | 0.1983 | 1.2905 | 2.6718 | 0.0075 |
| item*urb_rur | later, 1 | -0.7444 | 0.3523 | -1.4350 | -0.0539 | -2.113 | **0.0346** |
| item*urb_rur | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

***Later* by Main Region and Decile, Model 2 (no sig. figs Model 1)**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | 0.4785 | 0.6367 | -0.7694 | 1.7263 | 0.7515 | 0.4523 |
| item*region1 | later, 1 | 1.2792 | 0.5902 | 0.1225 | 2.4359 | 2.1675 | **0.0302** |
| item*region1 | later, 2 | 0.8076 | 0.5528 | -0.2758 | 1.8911 | 1.4611 | 0.1440 |
| item*region1 | later, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| decile*item | later | -0.1909 | 0.0649 | -0.3181 | -0.0636 | -2.940 | **0.0033** |
| scale | 1.0033 | . | . | . | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for later | 1 | 1.5317 | 0.2159 | LR |

***Later* by Main Region and Island**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | -0.5878 | 0.5578 | -1.6810 | 0.5054 | -1.054 | 0.2920 |
| item*region1 | later, 1 | -0.6917 | 0.8152 | -2.2895 | 0.9062 | -.8484 | 0.3962 |
| item*region1 | later, 2 | -0.2485 | 0.6491 | -1.5207 | 1.0238 | -.3828 | 0.7019 |
| item*region1 | later, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*island | later, 1 | 2.0526 | 0.5218 | 1.0299 | 3.0754 | 3.9336 | **0.0001** |
| item*island | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for later | 1 | 0.8289 | 0.3626 | LR |

***Later* by Decile and Island**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | 0.3342 | 0.5214 | -0.6876 | 1.3561 | 0.6411 | 0.5215 |
| decile*item | later | -0.1743 | 0.0710 | -0.3136 | -0.0351 | -2.454 | **0.0141** |
| item*island | later, 1 | 1.5910 | 0.3735 | 0.8590 | 2.3231 | 4.2598 | **0.0000** |
| item*island | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0051 | . | . | . | . | . | |

***Later* by Decile and Urban/Rural, Model 2 (no sig. figs Model 1)**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | 2.7019 | 0.6053 | 1.5156 | 3.8882 | 4.4639 | 0.0000 |
| decile*item | later | -0.2856 | 0.0733 | -0.4292 | -0.1420 | -3.898 | **0.0001** |
| item*urb_rur | later, 1 | -1.1966 | 0.3983 | -1.9772 | -0.4159 | -3.004 | **0.0027** |
| item*urb_rur | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 0.9986 | . | . | . | . | . | |

***Later* by Main Region and Urban/Rural, Model 1**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | -1.0986 | 1.1547 | -3.3618 | 1.1646 | -.9514 | 0.3414 |
| item*region1 | later, 1 | 4.0943 | 1.5438 | 1.0685 | 7.1201 | 2.6521 | **0.0080** |
| item*region1 | later, 2 | 1.3350 | 1.2053 | -1.0272 | 3.6973 | 1.1077 | 0.2680 |
| item*region1 | later, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*urb_rur | later, 1 | 0.6931 | 1.3229 | -1.8996 | 3.2859 | 0.5240 | 0.6003 |
| item*urb_rur | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*reg1*u/r | later 1, 1 | -3.6317 | 1.7072 | -6.9777 | -0.2858 | -2.127 | **0.0334** |
| item*reg1*u/r | later 1, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*reg1*u/r | later 2, 1 | -0.9295 | 1.4033 | -3.6800 | 1.8209 | -.6624 | 0.5077 |
| item*reg1*u/r | later 2, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*reg1*u/r | later 3, 1 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*reg1*u/r | later 3, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

***Later* by Main Region and Urban/Rural, Model 2**
Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | -0.0241 | 0.6394 | -1.2773 | 1.2291 | -.0377 | 0.9699 |
| item*region1 | later, 1 | 1.3079 | 0.6601 | 0.0141 | 2.6016 | 1.9813 | **0.0476** |
| item*region1 | later, 2 | 0.5765 | 0.6481 | -0.6938 | 1.8467 | 0.8895 | 0.3737 |
| item*region1 | later, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*urb_rur | later, 1 | -0.8117 | 0.3494 | -1.4965 | -0.1269 | -2.323 | **0.0202** |
| item*urb_rur | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 0.9922 | . | . | . | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for later | 1 | 3.8328 | 0.0503 | LR |

***Later* by Urban/Rural in Northern Region**

Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | 2.9957 | 1.0247 | 0.9874 | 5.0041 | 2.9235 | 0.0035 |
| item*urb_rur | later, 1 | -2.9386 | 1.0791 | -5.0535 | -0.8236 | -2.723 | **0.0065** |
| item*urb_rur | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

***Later* by Urban/Rural in Central Region**

Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | 0.2364 | 0.3454 | -0.4406 | 0.9134 | 0.6844 | 0.4937 |
| item*urb_rur | later, 1 | -0.2364 | 0.4683 | -1.1542 | 0.6814 | -.5048 | 0.6137 |
| item*urb_rur | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

***Later* by Urban/Rural in Southern Region**

Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | -1.0986 | 1.1547 | -3.3618 | 1.1646 | -.9514 | 0.3414 |
| item*urb_rur | later, 1 | 0.6931 | 1.3229 | -1.8996 | 3.2859 | 0.5240 | 0.6003 |
| item*urb_rur | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

***Later* by Urban/Rural and Island, Model 2 (no sig. figs. Model 1)**

Analysis Of GEE Parameter Estimates – Empirical Standard Error Estimates
Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | later | -0.3359 | 0.3648 | -1.0509 | 0.3791 | -.9208 | 0.3572 |
| item*island | later, 1 | 1.7349 | 0.3846 | 0.9811 | 2.4886 | 4.5112 | **0.0000** |
| item*island | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| item*urb_rur | later, 1 | -0.7129 | 0.3730 | -1.4441 | 0.0182 | -1.911 | 0.0560 |
| item*urb_rur | later, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 0.9967 | . | . | . | . | . | |

**Summary of Main Stats for *Laters***

***Laters* by Decile**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | laters | -0.2788 | 0.4892 | -1.2376 | 0.6801 | -.5699 | 0.5688 |
| decile*item | laters | -0.2839 | 0.0970 | -0.4741 | -0.0938 | -2.926 | **0.0034** |
| scale | 1.0162 | . | . | . | . | . | |

***Laters* by Main Region**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | laters | -2.5649 | 1.0377 | -4.5989 | -0.5310 | -2.472 | 0.0134 |
| item*region1 | laters, 1 | 1.7093 | 1.0774 | -0.4023 | 3.8209 | 1.5865 | 0.1126 |
| item*region1 | laters, 2 | -0.3528 | 1.1578 | -2.6220 | 1.9164 | -.3047 | 0.7606 |
| item*region1 | laters, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for later | 0 | 0.5257 | **0.0001** | LR |

***Laters* by Island**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | laters | -4.0254 | 1.0089 | -6.0027 | -2.0480 | -3.990 | 0.0001 |
| item*island | laters, 1 | 2.8537 | 1.0380 | 0.8193 | 4.8881 | 2.7493 | **0.0060** |
| item*island | laters, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

***Laters* by Main Region and Decile, Model 2 (no sig. figs. Model 1)**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | laters | -1.5048 | 1.1940 | -3.8450 | 0.8354 | -1.260 | 0.2076 |
| item*region1 | laters, 1 | 1.6105 | 1.0586 | -0.4643 | 3.6854 | 1.5213 | 0.1282 |
| item*region1 | laters, 2 | -0.2069 | 1.1310 | -2.4236 | 2.0098 | -.1829 | 0.8549 |
| item*region1 | laters, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| decile*item | laters | -0.2088 | 0.1095 | -0.4234 | 0.0059 | -1.906 | 0.0567 |
| scale | 0.8812 | . | . | . | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for later | 1 | 11.0298 | **0.0009** | LR |

***Laters* by Main Region and Island**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.000 | 0.0000 | . | . | |
| item | laters | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item*region1 | laters, 1 | 1 | -23.6081 | 1.0774 | 480.1600 | **0.0001** |
| item*region1 | laters, 2 | 1 | -24.8002 | 1.1658 | 452.5137 | **0.0001** |
| item*region1 | laters, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | laters, 1 | 0 | 25.3174 | 0.0000 | . | . |
| item*island | laters, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.000 | 0.0000 | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for later | 1 | 4.4936 | **0.0340** | LR |

***Laters* by Island and Decile, Model 1**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | laters | 0.7048 | 1.9691 | -3.1545 | 4.5641 | 0.3579 | 0.7204 |
| decile*item | laters | -1.2831 | 0.4680 | -2.2005 | -0.3658 | -2.742 | **0.0061** |
| item*island | laters, 1 | -0.9201 | 2.0307 | -4.9002 | 3.0601 | -.4531 | 0.6505 |
| item*island | laters, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| dec*item*is | laters, 1 | 1.0871 | 0.4774 | 0.1515 | 2.0228 | 2.2772 | **0.0228** |
| dec*item*is | laters, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 0.8190 | . | . | . | . | . | |

***Laters* by Island and Decile, Model 2**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | laters | -2.7075 | 1.2337 | -5.1254 | -0.2895 | -2.195 | 0.0282 |
| decile*item | laters | -0.2241 | 0.0978 | -0.4157 | -0.0325 | -2.292 | **0.0219** |
| item*island | laters, 1 | 2.6162 | 1.0510 | 0.5563 | 4.6761 | 2.4892 | **0.0128** |
| item*island | laters, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 0.8970 | . | . | . | . | . | |

**Summary Stats for *Catch you up***

***Catch you up* by Decile**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | chuup | -0.1753 | 0.5361 | -1.2261 | 0.8755 | -.3270 | 0.7437 |
| decile*item | chuup | -0.3681 | 0.1234 | -0.6099 | -0.1262 | -2.983 | **0.0029** |
| scale | 1.0663 | . | . | . | . | . | |

***Catch you up* by Main Region**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | chuup | -1.7918 | 0.7638 | -3.2887 | -0.2948 | -2.346 | 0.0190 |
| item*region1 | chuup, 1 | 0.4700 | 0.8300 | -1.1568 | 2.0968 | 0.5663 | 0.5712 |
| item*region1 | chuup, 2 | -1.1260 | 0.9202 | -2.9297 | 0.6776 | -1.224 | 0.2211 |
| item*region1 | chuup, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for chuup | 1 | 8.0449 | **0.0046** | LR |

***Catch you up* by Island**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | Estimate | Std Err | Lower | Upper | Z | Pr>\|Z\| | |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | chuup | -3.3142 | 0.7198 | -4.7251 | -1.9033 | -4.604 | 0.0000 |
| item*island | chuup, 1 | 1.8167 | 0.7682 | 0.3110 | 3.3224 | 2.3648 | **0.0180** |
| item*island | chuup, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0000 | . | . | . | . | . | |

***Catch you up* by Main Region and Decile, Model 2**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | chuup | -0.2758 | 0.9425 | -2.1232 | 1.5715 | -.2926 | 0.7698 |
| item*region1 | chuup, 1 | 0.2708 | 0.9070 | -1.5070 | 2.0486 | 0.2986 | 0.7653 |
| item*region1 | chuup, 2 | -0.9629 | 0.9923 | -2.9078 | 0.9820 | -.9703 | 0.3319 |
| item*region1 | chuup, 3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| decile*item | chuup | -0.3066 | 0.1316 | -0.5646 | -0.0486 | -2.329 | **0.0199** |
| scale | 0.9322 | . | . | . | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for chuup | 1 | 4.2319 | **0.0397** | LR |

***Catch you up* by Main Region and Island, Model 2**

Analysis Of Initial Parameter Estimates

| parameter | | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
|---|---|---|---|---|---|---|
| intercept | 0 | 0.000 | 0.0000 | . | . | |
| item | chuup | 1 | -1.7918 | 0.7638 | 5.5035 | 0.0190 |
| item*region1 | chuup, 1 | 1 | -24.8477 | 0.8300 | 896.2399 | **0.0001** |
| item*region1 | chuup, 2 | 1 | -25.5737 | 0.9304 | 755.5672 | **0.0001** |
| item*region1 | chuup, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | chuup, 1 | 0 | 25.3177 | 0.0000 | . | . |
| item*island | chuup, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.000 | 0.0000 | . | . | |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
|---|---|---|---|---|
| 1 –2 for chuup | 1 | 1.4675 | 0.2257 | LR |

***Catch you up* by Main Region and Decile, Model 2**

Analysis Of GEE Parameter Estimates – Empirical 95% Confidence Limits

| parameter | | Est. | Std Err | Lower | Upper | Z | Pr>\|Z\| |
|---|---|---|---|---|---|---|---|
| intercept | 0.0000 | . | . | . | . | . | |
| item | chuup | -1.5128 | 0.9048 | -3.2862 | 0.2605 | -1.672 | 0.0945 |
| decile*item | chuup | -0.3189 | 0.1205 | -0.5552 | -0.0827 | -2.646 | **0.0081** |
| item*island | chuup, 1 | 1.4532 | 0.7832 | -0.0818 | 2.9882 | 1.8556 | 0.0635 |
| item*island | chuup, 2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| scale | 1.0564 | . | . | . | . | . | |