|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Labels |  Red Males |  Red Females |  White Males |  White Females |  Scarlet Males |  Scarlet Females | Totals |
| F1 RM WF | 794 | 4139 | 3497 | 332 | 43 | 33 | 8838 |
| Expected ratio | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| Expected values | 4419 | 4419 | 0 | 0 | 0 | 0 | 8838 |
| Chisq | 2973.664856 | 17.74157049 | 0 | 0 | 0 | 0 | 2991.406427 |
| Passed Chisq? | FALSE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| F2 RM WF | 3072 | 3014 | 2287 | 1697 | 117 | 115 | 10302 |
| Expected ratio | 1 | 2 | 1 | 0 | 0 | 0 | 4 |
| Expected values | 2575.5 | 5151 | 2575.5 | 0 | 0 | 0 | 10302 |
| Chisq | 95.71432732 | 886.5791109 | 32.31692875 | 0 | 0 | 0 | 1014.610367 |
| Passed Chisq? | FALSE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| F1 WM RF | 3500 | 3716 | 221 | 86 | 56 | 73 | 7652 |
| Expected ratio | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| Expected values | 0 | 3826 | 3826 | 0 | 0 | 0 | 7652 |
| Chisq | 0 | 3.162571877 | 3396.765551 | 0 | 0 | 0 | 3399.928123 |
| Passed Chisq? | FALSE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| F2 WM RF | 3047 | 4432 | 2136 | 508 | 92 | 74 | 10289 |
| Expected ratio | 1 | 1 | 1 | 1 | 0 | 0 | 4 |
| Expected values | 2572.25 | 2572.25 | 2572.25 | 2572.25 | 0 | 0 | 10289 |
| Chisq | 87.62272816 | 1344.60883 | 73.98738945 | 1656.576174 | 0 | 0 | 3162.795121 |
| Passed Chisq? | FALSE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| F1 RM SF | 3133 | 3816 | 51 | 28 | 1086 | 330 | 8444 |
| Expected ratio | 0 | 1 | 0 | 0 | 1 | 0 | 2 |
| Expected values | 0 | 4222 | 0 | 0 | 4222 | 0 | 8444 |
| Chisq | 0 | 39.04216011 | 0 | 0 | 2329.345334 | 0 | 2368.387494 |
| Passed Chisq? | FALSE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| F2 RM SF | 4214 | 4037 | 65 | 50 | 1316 | 1245 | 10927 |
| Expected ratio | 1 | 1 | 0 | 0 | 1 | 1 | 4 |
| Expected values | 2731.75 | 2731.75 | 0 | 0 | 2731.75 | 2731.75 | 10927 |
| Chisq | 804.2701794 | 623.6579345 | 0 | 0 | 733.7230942 | 809.1610003 | 2970.812208 |
| Passed Chisq? | FALSE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| F1 SM RF | 4505 | 4447 | 3 | 1 | 322 | 381 | 9659 |
| Expected ratio | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| Expected values | 4829.5 | 4829.5 | 0 | 0 | 0 | 0 | 9659 |
| Chisq | 21.80355109 | 30.29428512 | 0 | 0 | 0 | 0 | 52.09783621 |
| Passed Chisq? | FALSE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| F2 SM RF | 4262 | 4301 | 53 | 31 | 1440 | 1246 | 11333 |
| Expected ratio | 1 | 2 | 0 | 0 | 1 | 0 | 4 |
| Expected values | 2833.25 | 5666.5 | 0 | 0 | 2833.25 | 0 | 11333 |
| Chisq | 720.4893894 | 329.0550163 | 0 | 0 | 685.1303494 | 0 | 1734.674755 |