|  |
| --- |
| **Single Table Analysis** |
|  |  | Cattle |  |  |  |  |
|  |  | (+) | (-) |  |  |  |
|  | (+) | 5 | 126 | 131 |  |  |
| Breed | (-) | 3 | 61 | 64 |  |  |
|  |  | 8 | 187 | 195 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Chi Square and Exact Measures of Association** |
|  |
|  | **Test** | **Value** | **p-value(1-tail)** | **p-value(2-tail)** |
|  |
|  | Uncorrected chi square | 0.08285 | 0.3867 | 0.7735 |
|  | Yates corrected chi square | 0.009332 | 0.4615 | 0.9230 |
|  | Mantel-Haenszel chi square | 0.08243 | 0.3870 | 0.7740 |
|  | Fisher exact |  | 0.5211(P) | >0.9999999 |
|  | Mid-P exact |  | 0.3828(P) | 0.7655 |
|  |  |  |  |
|  |  |  |  |  |  |  |  |
| At least one expected value (row total\*column total/grand total) is < 5 |  |  |
| Fisher or Mid-P exact tests are recommended rather than chi square. |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Risk-Based\* Estimates and 95% Confidence Intervals** |
| (Not valid for Case-Control studies) |  |
|  |  |
|  | **Point Estimates** |  | **Confidence Limits** |  |  |
|  |  |
|  | **Type** | **Value** | **Lower, Upper** | **Type** |  |
|  |  |
|  | Risk in Exposed | 3.817% | 1.408, 8.856 | Taylor series |
|  | Risk in Unexposed | 4.688% | 1.082, 13.42 | Taylor series |
|  | Overall Risk | 4.103% | 1.963, 8.015 | Taylor series |
|  | Risk Ratio | 0.8142 | 0.2008, 3.301¹  | Taylor series |
|  | Risk Difference | -0.8707% | -7.001, 5.259°  | Taylor series |
|  | Prevented fraction in pop.(pfp) | 12.48% | -599.8, 50 |  |  |
|  | Prevented fraction in exposed(pfe) | 18.58% | -230.1, 79.92 |  |  |
|  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Odds-Based Estimates and Confidence Limits** |
|  |  |
|  | **Point Estimates** |  | **Confidence Limits** |  |  |
|  |  |
|  | **Type** | **Value** | **Lower, Upper** | **Type** |  |
|  |  |
|  | CMLE Odds Ratio\* | 0.8078 | 0.1808, 4.223¹  | Mid-P Exact |  |
|  |  |  | 0.1515, 5.37¹  | Fisher Exact |  |
|  | Odds Ratio | 0.8069 | 0.1867, 3.487¹  | Taylor series |
|  | Prevented fraction in pop(PFpOR) | 13.01% | -5.85, 54.65 |  |  |
|  | Prevented fraction in exposed(PFeOR) | 19.31% | -248.7, 81.33 |  |  |
|  |  |  |  |
| \*Conditional maximum likelihood estimate of Odds Ratio |  |  |
| **Single Table Analysis** |
|  |  | Goat |  |  |  |  |
|  |  | (+) | (-) |  |  |  |
|  | (+) | 5 | 265 | 270 |  |  |
| Breed | (-) | 3 | 138 | 141 |  |  |
|  |  | 8 | 403 | 411 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Chi Square and Exact Measures of Association** |
|  |
|  | **Test** | **Value** | **p-value(1-tail)** | **p-value(2-tail)** |
|  |
|  | Uncorrected chi square | 0.03692 | 0.4238 | 0.8476 |
|  | Yates corrected chi square | 0.03382 | 0.4270 | 0.8541 |
|  | Mantel-Haenszel chi square | 0.03683 | 0.4239 | 0.8478 |
|  | Fisher exact |  | 0.5567(P) | >0.9999999 |
|  | Mid-P exact |  | 0.4170(P) | 0.8340 |
|  |  |  |  |
|  |  |  |  |  |  |  |  |
| At least one expected value (row total\*column total/grand total) is < 5 |  |  |
| Fisher or Mid-P exact tests are recommended rather than chi square. |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Risk-Based\* Estimates and 95% Confidence Intervals** |
| (Not valid for Case-Control studies) |  |
|  |  |
|  | **Point Estimates** |  | **Confidence Limits** |  |  |
|  |  |
|  | **Type** | **Value** | **Lower, Upper** | **Type** |  |
|  |  |
|  | Risk in Exposed | 1.852% | 0.6684, 4.386 | Taylor series |
|  | Risk in Unexposed | 2.128% | 0.4471, 6.347 | Taylor series |
|  | Overall Risk | 1.946% | 0.9213, 3.862 | Taylor series |
|  | Risk Ratio | 0.8704 | 0.2111, 3.589¹  | Taylor series |
|  | Risk Difference | -0.2758% | -3.15, 2.598°  | Taylor series |
|  | Prevented fraction in pop.(pfp) | 8.516% | -698.8, 50 |  |  |
|  | Prevented fraction in exposed(pfe) | 12.96% | -258.9, 78.89 |  |  |
|  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Odds-Based Estimates and Confidence Limits** |
|  |  |
|  | **Point Estimates** |  | **Confidence Limits** |  |  |
|  |  |
|  | **Type** | **Value** | **Lower, Upper** | **Type** |  |
|  |  |
|  | CMLE Odds Ratio\* | 0.8682 | 0.1977, 4.469¹  | Mid-P Exact |  |
|  |  |  | 0.1661, 5.673¹  | Fisher Exact |  |
|  | Odds Ratio | 0.8679 | 0.2044, 3.685¹  | Taylor series |
|  | Prevented fraction in pop(PFpOR) | 8.685% | 0.9153, 52.06 |  |  |
|  | Prevented fraction in exposed(PFeOR) | 13.21% | -268.5, 79.56 |  |  |
|  |  |  |  |