**Table 1: Total positive boot socks found using PCR and culture methods by Region**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **All NW** | **ALL EA** | **Total** |
| Total number of all1 boot socks positive for *Campylobacter* by PCR or culture [%; 95%CI] | 201 [55.8; 50.7 – 61.0]\* | 139[38.6; 33.6 – 43.6]\* | 340 [47.2; 43.6 – 50.9] |
| From total number of C*ampylobacter* positive boot socks (above) |
|  | Number positive by PCR [%;95%CI] |  | 179 [89.1; 84.7 – 93.4] |  | 130 [93.5; 89.4 – 97.6] |  | 309 [90.9; 87.8 – 93.9] |
|  | Number positive by PCR only (not culture positive)[%;95%CI] |  | 29[14.4; 19.3 – 9.6] |  | 63[45.3; 53.6 – 37.0] |  | 92[27.0; 31.8 – 22.3] |
|  | Number positive by culture [%; 95%CI] |  | 172 [85.6; 80.7 – 90.4] |  | 76 [54.7; 46.4 – 63.0] |  | 248[72.9; 68.2 – 77.7] |
|  | Number positive by culture only (not PCR positive) [%; 95%CI] |  | 22[10.9; 15.3 – 6.6] |  | 9[6.5; 10.6 – 2.4] |  | 29[8.5; 11.5 – 5.6] |

1 In total 720 boot socks were analysed. This consists of 360 in the NW and 360 in EA

\* Fishers Exact test comparing NW and EA positive bootsocks, p<0.001

**Table 2: Species of *Campylobacter* from culture positive boot socks**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **All NW** | **ALL EA** | **Total** |
| Number of *Campylobacter* positive boot socks positive by culture [%; 95%CI] | 172 [85.6; 80.7 – 90.4] | 76 [54.7; 46.4 – 63.0] | 248[72.9; 68.2 – 77.7] |
| From total number of boot socks positive for *Campylobacter* by culture (above) |
|  Number of *C. jejuni* [%; 95%CI] |  | 107[62.2; 55.0 – 69.5] \* |  | 64[84.2; 76.0 – 92.4] \* |  | 171[69.0; 63.2 – 74.7] |
| Number of *C. coli* [%; 95%CI] |  | 47[27.4; 20.7 – 34.0] \* |  | 2[2.6; -1.0 – 6.2] \* |  | 49[19.8; 14.8 – 24.7] |
| Number of *C. jejuni* and *C. coli* mix [%; 95%CI] |  | 16[9.3; 5.0 – 13.6] |  | 2[2.6; -1.0 – 6.2] |  | 18[7.3; 4.0 – 10.5] |
| Number of other species found [%; 95%CI] |  | 2[1.2; -0.4 – 2.8] |  | 7[9.2; 2.7 – 15.7] |  | 9[3.6; 1.3 – 5.6] |
| Number where species not determined1 [%; 95%CI]  |  | 0 |  | 1[1.3; -1.2 – 3.9] |  | 1[0.4; -0.4 – 1.2] |

1 Campylobacter died before species identification

\*Fishers Exact test comparing *C. jejuni* and *C. coli* in the NW and EA, p<0.001

**Table 3: A mixed effects logistic model showing the influence of the previous seven days temperature and rainfall on boot sock positivity**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Odds Ratio [95% CI]  | Standard error | p |
| Average maximum morning air temperature in the route area in the over the seven days prior to the walk (oC) | 0.87 [0.79 – 0.97] | 0.05 | 0.011 |
| Average daily rainfall in the route area in the seven days prior to the walk (mm) | 2.99 [1.83 – 4.88]  | 0.74 | <0.001 |
| Average daily rainfall in the route area in the seven days prior to the walk squared (mm) | 0.90 [0.85 – 0.95] | 0.03 | <0.001 |

Wald χ2 = 24.61 (p>χ2 <0.001)

Week and route of walk included as random effects.