Supplementary Table S2. Effect of pen soiling on pig soiling as well as effect of herd and season on pen and pig soiling for different areas of pens and pigs presented as p-values stratified by registration round (30kg, 70 kg and 95/115 kg), for animals and experimental pens included in the study investigating the effect of faecal soiling on boar taint measures.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Pen outdoor area | Pen activity area | Pen bedding area | Herd | Season |
| **30 kg** |  |  |  |  |  |
| Pig soiling |  |  |  |  |  |
| Head(area) | 0.0011 | NS | NS | 0.001 | NS |
| Head(density) | NS | 0.012 | 0.0022 | 0.001 | 0.001 |
| Abdomen(area) | 0.0011 | NS | 0.0072 | 0.001 | 0.001 |
| Abdomen(density) | NS | NS | 0.0042 | 0.001 | 0.001 |
| Pen soiling |  |  |  |  |  |
| Outdoor area | - | - | - | 0.001 | 0.001 |
| Indoor activity area | - | - | - | 0.001 | 0.001 |
| Bedding area | - | - | - | 0.001 | 0.001 |
| **70 kg** |  |  |  |  |  |
| Pig soiling |  |  |  |  |  |
| Head(area) | 0.021 | NS | NS | 0.001 | 0.001 |
| Head(density) | 0.032 | 0.0011 | NS | 0.001 | 0.001 |
| Abdomen(area) | NS | NS | NS | 0.001 | 0.001 |
| Abdomen(density) | NS | 0.011 | NS | 0.001 | 0.001 |
| Pen soiling |  |  |  |  |  |
| Outdoor area | - | - | - | 0.001 | 0.001 |
| Indoor activity area | - | - | - | 0.001 | 0.001 |
| Bedding area | - | - | - | 0.001 | 0.001 |
| **95/115 kg** |  |  |  |  |  |
| Pig soiling |  |  |  |  |  |
| Head(area) | 0.0011 | 0.0041 | 0.021 | 0.001 | NS |
| Head(density) | 0.0012 | 0.0052 | 0.012 | 0.001 | 0.001 |
| Abdomen(area) | 0.0011 | 0.011 | NS | 0.001 | 0.001 |
| Abdomen(density) | NS | 0.012 | NS | 0.001 | 0.001 |
| Pen soiling |  |  |  |  |  |
| Outdoor area | - | - | - | 0.001 | NS |
| Indoor activity area | - | - | - | 0.001 | 0.001 |
| Bedding area | - | - | - | 0.001 | NS |

1High pen soiling associated with higher odds of dirty pigs  
2High pen soiling associated with lower odds of dirty pigs