**Supplementary Table 1.** Intercept estimates (Beta 0), regression coefficients (Beta 1), respective standard errors, statistical t values, and probabilities obtained for the regressions of characteristics related to pork quality, as a function of the normalized volume of band 1 (B1) significantly altered, for each level of the ractopamine factor

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | VOL\_N\_B1 | | | | | | | |
| Variable | **Treatment** | **Beta 0** | **SE 1** | **Beta 1** | **SE 1** | **Den DF 2** | **t value** | **Pr > |t|** |  |
| DL 3 (%) | WR | 9 | 1.0 | -0.1 | 0.83 | 37 | -0.21 | 0.83 |  |
| NR | 7.3 | 0.85 | 0.6 | 0.12 | 37 | 1.61 | 0.12 |  |
| pHu LD 4 | WR | 5.6 | 0.08 | 0 | 0.77 | 38 | -0.30 | 0.77 |  |
| NR | 5.4 | 0.06 | 0 | 0.84 | 38 | -0.20 | 0.84 |  |
| L\* 5 | WR | 56 | 1.2 | -0.4 | 0.28 | 38 | -1.09 | 0.28 |  |
| NR | 56 | 1.0 | -0.5 | 0.33 | 38 | -0.98 | 0.33 |  |
| a\* 5 | WR | 10 | 0.77 | -0.1 | 0.60 | 38 | -0.52 | 0.60 |  |
| NR | 9.1 | 0.62 | 0.4 | 0.19 | 38 | 1.32 | 0.19 |  |
| b\* 5 | WR | 4.4 | 0.50 | -0.3 | 0.10 | 38 | -1.70 | 0.10 | + |
| NR | 3.1 | 0.40 | 0.2 | 0.27 | 38 | 1.11 | 0.27 |  |
| TL 6 (%) | WR | 10 | 1.4 | -0.7 | 0.11 | 38 | -1.63 | 0.11 |  |
| NR | 9 | 1.1 | -0.4 | 0.44 | 38 | -0.79 | 0.44 |  |
| CL 7 (%) | WR | 27 | 1.4 | 0 | 0.95 | 38 | 0.06 | 0.95 |  |
| NR | 27 | 1.1 | -0.5 | 0.33 | 38 | -0.98 | 0.33 |  |
| SF 8 (N) | WR | 3.6 | 0.82 | -0.1 | 0.67 | 37 | -0.43 | 0.67 |  |
| NR | 2.3 | 0.67 | -0.1 | 0.75 | 37 | -0.32 | 0.75 |  |

1 standard error.

2 denominator degrees of freedom.

3 Measurement of drip loss.

4 Measurement of ultimate pH in the *Longissimus dorsi.*

5 Measurement of color.

6 Measurement of thawing loss

7 Measurement ofcooking loss.

8 Measurement of shear force.

+ significant differences at 10%.

**Supplementary Table 2.** Intercept estimates (Beta 0), regression coefficients (Beta 1), respective standard errors, statistical t values, and probabilities obtained for the regressions of characteristics related to pork quality, as a function of the normalized volume of band 2 (B2) significantly altered, for each level of the ractopamine factor

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | VOL\_N\_B2 | | | | | | | |
| Variable | **Treatment** | **Beta 0** | **SE 1** | **Beta 1** | **SE 1** | **Den DF 2** | **t value** | **Pr > |t|** |  |
| DL 3 (%) | WR | 9 | 1.1 | 0.1 | 0.43 | 37 | 0.18 | 0.86 |  |
| NR | 9 | 0.9 | -0.1 | 0.29 | 37 | -0.48 | 0.63 |  |
| pHu LD 4 | WR | 5.6 | 0.08 | 0 | 0.03 | 38 | -0.13 | 0.90 |  |
| NR | 5.4 | 0.07 | 0 | 0.02 | 38 | 0.17 | 0.86 |  |
| L\* 5 | WR | 54 | 1.2 | 0.3 | 0.50 | 38 | 0.67 | 0.51 |  |
| NR | 54 | 1.0 | 0.5 | 0.34 | 38 | 1.47 | 0.15 |  |
| a\* 5 | WR | 10.2 | 0.76 | -0.3 | 0.31 | 38 | -0.82 | 0.42 |  |
| NR | 10.5 | 0.65 | -0.2 | 0.21 | 38 | -1.06 | 0.29 |  |
| b\* 5 | WR | 4.4 | 0.50 | -0.3 | 0.21 | 38 | -1.59 | 0.12 |  |
| NR | 3.7 | 0.43 | -0.1 | 0.14 | 38 | -0.34 | 0.73 |  |
| TL 6 (%) | WR | 7 | 1.4 | 0.2 | 0.58 | 38 | 0.41 | 0.68 |  |
| NR | 7 | 1.2 | 0.4 | 0.39 | 38 | 0.94 | 0.35 |  |
| CL 7 (%) | WR | 27 | 1.4 | 0.2 | 0.57 | 38 | 0.29 | 0.78 |  |
| NR | 27 | 1.2 | -0.2 | 0.38 | 38 | -0.54 | 0.59 |  |
| SF 8 (N) | WR | 4.9 | 0.76 | -0.7 | 0.31 | 37 | -2.24 | 0.03 | \* |
| NR | 1.7 | 0.66 | 0.1 | 0.21 | 37 | 0.68 | 0.50 |  |

1 standard error.

2 denominator degrees of freedom.

3 Measurement of drip loss.

4 Measurement of ultimate pH in the *Longissimus dorsi.*

5 Measurement of color.

6 Measurement of thawing loss

7 Measurement ofcooking loss.

8 Measurement of shear force.

\* significant differences at 5%.

**Supplementary Table 3.** Intercept estimates (Beta 0), regression coefficients (Beta 1), respective standard errors, statistical t values, and probabilities obtained for the regressions of characteristics related to pork quality, as a function of the normalized volume of band 3 (B3) significantly altered, for each level of the ractopamine factor

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | VOL\_N\_B3 | | | | | | | |
| Variable | **Treatment** | **Beta 0** | **SE 1** | **Beta 1** | **SE 1** | **Den DF 2** | **t value** | **Pr > |t|** |  |
| DL 3 (%) | WR | 10 | 1.5 | -1 | 1.1 | 37 | -0.92 | 0.36 |  |
| NR | 6 | 1.2 | 2 | 1.1 | 37 | 2.08 | 0.04 | \* |
| pHu LD 4 | WR | 5.6 | 0.11 | -0.1 | 0.08 | 38 | -0.66 | 0.51 |  |
| NR | 5.5 | 0.09 | 0 | 0.08 | 38 | -0.45 | 0.66 |  |
| L\* 5 | WR | 59 | 1.7 | -3 | 1.3 | 38 | -2.70 | 0.01 | \* |
| NR | 57 | 1.3 | -1 | 1.2 | 38 | -1.09 | 0.28 |  |
| a\* 5 | WR | 10 | 1.1 | 0 | 0.86 | 38 | 0.04 | 0.97 |  |
| NR | 9.4 | 0.89 | 0.5 | 0.81 | 38 | 0.62 | 0.54 |  |
| b\* 5 | WR | 4.8 | 0.73 | -0.9 | 0.55 | 38 | -1.64 | 0.11 |  |
| NR | 3 | 0.57 | 0.5 | 0.52 | 38 | 1.02 | 0.32 |  |
| TL 6 (%) | WR | 12 | 2.0 | -3 | 1.5 | 38 | -2.19 | 0.03 | \* |
| NR | 9 | 1.6 | -1 | 1.4 | 38 | -0.43 | 0.67 |  |
| CL 7 (%) | WR | 29 | 2.0 | -1 | 1.5 | 38 | -0.96 | 0.34 |  |
| NR | 24 | 1.5 | 2 | 1.4 | 38 | 1.60 | 0.12 |  |
| SF 8 (N) | WR | 5 | 1.2 | -1.2 | 0.88 | 37 | -1.31 | 0.20 |  |
| NR | 1.6 | 0.92 | 0.5 | 0.85 | 37 | 0.59 | 0.56 |  |

1 standard error.

2 denominator degrees of freedom.

3 Measurement of drip loss.

4 Measurement of ultimate pH in the *Longissimus dorsi.*

5 Measurement of color.

6 Measurement of thawing loss

7 Measurement ofcooking loss.

8 Measurement of shear force.

\* significant differences at 5%.

**Supplementary Table 4.** Intercept estimates (Beta 0), regression coefficients (Beta 1), respective standard errors, statistical t values, and probabilities obtained for the regressions of characteristics related to pork quality, as a function of the normalized volume of band 9 (B9) significantly altered, for each level of the ractopamine factor

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | VOL\_N\_B9 | | | | | | | |
| Variable | **Treatment** | **Beta 0** | **SE 1** | **Beta 1** | **SE 1** | **Den DF 2** | **t value** | **Pr > |t|** |  |
| DL 3 (%) | WR | 9.2 | 0.61 | -0.7 | 0.80 | 37 | -0.86 | 0.40 |  |
| NR | 8 | 1.0 | 1 | 2.2 | 37 | 0.43 | 0.67 |  |
| pHu LD 4 | WR | 5.6 | 0.04 | 0 | 0.06 | 38 | -0.10 | 0.92 |  |
| NR | 5.5 | 0.07 | -0.2 | 0.16 | 38 | -1.17 | 0.25 |  |
| L\* 5 | WR | 54.4 | 0.71 | 0.4 | 0.93 | 38 | 0.45 | 0.65 |  |
| NR | 54 | 1.2 | 4 | 2.5 | 38 | 1.54 | 0.13 |  |
| a\* 5 | WR | 9.9 | 0.45 | -0.5 | 0.59 | 38 | -0.87 | 0.39 |  |
| NR | 10 | 0.75 | 0 | 1.6 | 38 | -0.22 | 0.83 |  |
| b\* 5 | WR | 3.5 | 0.30 | 0.2 | 0.39 | 38 | 0.37 | 0.71 |  |
| NR | 3.4 | 0.50 | 0 | 1.1 | 38 | 0.40 | 0.69 |  |
| TL 6 (%) | WR | 8 | 0.78 | 0.1 | 1.0 | 38 | 0.05 | 0.96 |  |
| NR | 6 | 1.3 | 6 | 2.8 | 38 | 2.09 | 0.04 | \* |
| CL 7 (%) | WR | 26.9 | 0.80 | 0 | 1.1 | 38 | 0.13 | 0.90 |  |
| NR | 25 | 1.3 | 2 | 2.9 | 38 | 0.68 | 0.50 |  |
| SF 8 (N) | WR | 3.9 | 0.45 | -1.1 | 0.59 | 37 | -1.76 | 0.09 | + |
| NR | 1.8 | 0.76 | 1 | 1.6 | 37 | 0.46 | 0.65 |  |

1 standard error.

2 denominator degrees of freedom.

3 Measurement of drip loss.

4 Measurement of ultimate pH in the *Longissimus dorsi.*

5 Measurement of color.

6 Measurement of thawing loss

7 Measurement ofcooking loss.

8 Measurement of shear force.

\* significant differences at 5%.

+ significant differences at 10%.

**Supplementary Table 5.** Intercept estimates (Beta 0), regression coefficients (Beta 1), respective standard errors, statistical t values, and probabilities obtained for the regressions of characteristics related to pork quality, as a function of the normalized volume of band 15 (B15) significantly altered, for each level of the ractopamine factor

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | VOL\_N\_B15 | | | | | | | |
| Variable | **Treatment** | **Beta 0** | **SE 1** | **Beta 1** | **SE 1** | **Den DF 2** | **t value** | **Pr > |t|** |  |
| DL 3 (%) | WR | 8.7 | 0.55 | 0 | 0.19 | 37 | 0.09 | 0.93 |  |
| NR | 7 | 0.61 | 1.3 | 0.43 | 37 | 2.97 | 0.01 | \*\* |
| pHu LD 4 | WR | 5.6 | 0.04 | 0 | 0.01 | 38 | -0.59 | 0.56 |  |
| NR | 5.5 | 0.04 | 0 | 0.02 | 38 | -1.38 | 0.17 |  |
| L\* 5 | WR | 55.4 | 0.72 | -0.3 | 0.24 | 38 | -1.20 | 0.24 |  |
| NR | 55.4 | 0.66 | 0.1 | 0.39 | 38 | 0.27 | 0.79 |  |
| a\* 5 | WR | 9.3 | 0.45 | 0.1 | 0.15 | 38 | 0.58 | 0.57 |  |
| NR | 9.7 | 0.41 | 0.2 | 0.24 | 38 | 0.63 | 0.53 |  |
| b\* 5 | WR | 3.9 | 0.29 | -0.1 | 0.10 | 38 | -1.06 | 0.30 |  |
| NR | 3.3 | 0.27 | 0.2 | 0.16 | 38 | 1.27 | 0.21 |  |
| TL 6 (%) | WR | 8.8 | 0.81 | -0.3 | 0.28 | 38 | -1.08 | 0.29 |  |
| NR | 7.6 | 0.74 | 0.4 | 0.44 | 38 | 0.96 | 0.34 |  |
| CL 7 (%) | WR | 26.9 | 0.80 | 0 | 0.27 | 38 | 0.13 | 0.90 |  |
| NR | 26.3 | 0.73 | -0.2 | 0.43 | 38 | -0.48 | 0.63 |  |
| SF 8 (N) | WR | 4 | 0.45 | -0.3 | 0.15 | 37 | -1.99 | 0.05 | + |
| NR | 2.3 | 0.41 | -0.1 | 0.24 | 37 | -0.45 | 0.65 |  |

1 standard error.

2 denominator degrees of freedom.

3 Measurement of drip loss.

4 Measurement of ultimate pH in the *Longissimus dorsi.*

5 Measurement of color.

6 Measurement of thawing loss

7 Measurement ofcooking loss.

8 Measurement of shear force.

\*\* significant differences at 1%.

+ significant differences at 10%.

**Supplementary Table 6.** Intercept estimates (Beta 0), regression coefficients (Beta 1), respective standard errors, statistical t values, and probabilities obtained for the regressions of characteristics related to pork quality, as a function of the normalized volume of band 17 (B17) significantly altered, for each level of the ractopamine factor

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | VOL\_N\_B17 | | | | | | | |
| Variable | **Treatment** | **Beta 0** | **SE 1** | **Beta 1** | **SE 1** | **Den DF 2** | **t value** | **Pr > |t|** |  |
| DL 3 (%) | WR | 8.7 | 0.48 | 0.1 | 0.28 | 37 | 0.17 | 0.86 |  |
| NR | 8.9 | 0.51 | -0.5 | 0.56 | 37 | -0.95 | 0.35 |  |
| pHu LD 4 | WR | 5.5 | 0.03 | 0 | 0.02 | 38 | 0.62 | 0.54 |  |
| NR | 5.4 | 0.04 | 0 | 0.04 | 38 | 0.89 | 0.38 |  |
| L\* 5 | WR | 54.4 | 0.57 | 0.2 | 0.34 | 38 | 0.67 | 0.51 |  |
| NR | 55.9 | 0.61 | -0.5 | 0.66 | 38 | -0.68 | 0.50 |  |
| a\* 5 | WR | 9.7 | 0.34 | -0.1 | 0.20 | 38 | -0.37 | 0.71 |  |
| NR | 9.4 | 0.37 | 0.6 | 0.40 | 38 | 1.56 | 0.13 |  |
| b\* 5 | WR | 3.6 | 0.24 | 0.1 | 0.14 | 38 | 0.33 | 0.75 |  |
| NR | 3.5 | 0.25 | 0.1 | 0.27 | 38 | 0.18 | 0.86 |  |
| TL 6 (%) | WR | 7.7 | 0.64 | 0.2 | 0.38 | 38 | 0.64 | 0.53 |  |
| NR | 8.7 | 0.69 | -0.6 | 0.75 | 38 | -0.80 | 0.43 |  |
| CL 7 (%) | WR | 27 | 0.62 | 0 | 0.37 | 38 | -0.11 | 0.91 |  |
| NR | 26.4 | 0.67 | -0.6 | 0.73 | 38 | -0.89 | 0.38 |  |
| SF 8 (N) | WR | 3.3 | 0.37 | 0 | 0.22 | 37 | -0.20 | 0.84 |  |
| NR | 2.4 | 0.40 | -0.4 | 0.43 | 37 | -0.86 | 0.39 |  |

1 standard error.

2 denominator degrees of freedom.

3 Measurement of drip loss.

4 Measurement of ultimate pH in the *Longissimus dorsi.*

5 Measurement of color.

6 Measurement of thawing loss

7 Measurement ofcooking loss.

8 Measurement of shear force.

**Supplementary Table 7.** Analysis of variance of the 25 bands that presented at least three valid information, within each sexual condition combination, and supplementation with ractopamine hydrochloride

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Sexual Conditions (SC) | | | | Ractopamine (RAC) | | | | Interaction SC x RAC | | | | | Components of variance | | |
| Band | **Num DF 1** | **F Value** | **Prob 2**  **> F** |  | **Num DF 1** | **F Value** | **Prob 2**  **> F** |  | **Num DF 1** | **Den DF 3** | **F Value** | **Prob 2**  **> F** |  | **Gels** |  | **Residue** |
| 1 | 2 | 1.33 | 0.28 |  | 1 | 19.52 | 0.00 | \*\* | 2 | 30 | 0.02 | 0.98 |  | 0.33 |  | 0.47 |
| 2 | 2 | 2.07 | 0.14 |  | 1 | 7.08 | 0.01 | \* | 2 | 30 | 1.05 | 0.36 |  | 0.44 |  | 0.48 |
| 3 | 2 | 1.78 | 0.19 |  | 1 | 8.12 | 0.01 | \*\* | 2 | 30 | 0.54 | 0.59 |  | 0.01 |  | 0.08 |
| 4 | 2 | 0.23 | 0.79 |  | 1 | 2.24 | 0.15 |  | 2 | 30 | 0.09 | 0.91 |  | 0.00 |  | 0.01 |
| 5 | 2 | 1.07 | 0.35 |  | 1 | 0.53 | 0.47 |  | 2 | 30 | 0.25 | 0.78 |  | 0.00 |  | 0.01 |
| 6 | 2 | 0.91 | 0.41 |  | 1 | 0.61 | 0.44 |  | 2 | 30 | 0.17 | 0.84 |  | 0.01 |  | 0.02 |
| 7 | 2 | 0.24 | 0.79 |  | 1 | 0.44 | 0.51 |  | 2 | 30 | 0.73 | 0.49 |  | 0.02 |  | 0.05 |
| 8 | 2 | 0.07 | 0.93 |  | 1 | 0.75 | 0.39 |  | 2 | 30 | 3.00 | 0.07 |  | 0.03 |  | 0.03 |
| 9 | 2 | 0.05 | 0.95 |  | 1 | 4.35 | 0.05 | \* | 2 | 30 | 0.23 | 0.79 |  | 0.00 |  | 0.10 |
| 10 | 2 | 0.76 | 0.47 |  | 1 | 1.81 | 0.19 |  | 2 | 30 | 1.21 | 0.31 |  | 0.00 |  | 1.13 |
| 11 | 2 | 0.06 | 0.94 |  | 1 | 1.00 | 0.33 |  | 2 | 30 | 0.80 | 0.46 |  | 0.57 |  | 0.70 |
| 12 | 2 | 0.80 | 0.46 |  | 1 | 0.66 | 0.42 |  | 2 | 30 | 2.01 | 0.15 |  | 0.76 |  | 0.61 |
| 13 | 2 | 1.34 | 0.28 |  | 1 | 3.05 | 0.09 |  | 2 | 30 | 2.60 | 0.09 |  | 0.05 |  | 0.83 |
| 14 | 2 | 0.26 | 0.77 |  | 1 | 1.12 | 0.30 |  | 2 | 30 | 0.43 | 0.65 |  | 1.30 |  | 2.41 |
| 15 | 2 | 1.65 | 0.21 |  | 1 | 8.39 | 0.01 | \*\* | 2 | 30 | 0.70 | 0.50 |  | 0.17 |  | 1.54 |
| 16 | 2 | 0.15 | 0.86 |  | 1 | 0.09 | 0.77 |  | 2 | 30 | 1.53 | 0.23 |  | 0.41 |  | 1.56 |
| 17 | 2 | 1.12 | 0.34 |  | 1 | 5.10 | 0.03 | \* | 2 | 30 | 0.85 | 0.44 |  | 0.25 |  | 0.60 |
| 18 | 2 | 1.90 | 0.17 |  | 1 | 0.05 | 0.83 |  | 2 | 30 | 1.12 | 0.34 |  | 0.00 |  | 0.66 |
| 19 | 2 | 1.43 | 0.26 |  | 1 | 1.24 | 0.27 |  | 2 | 30 | 0.77 | 0.47 |  | 0.18 |  | 1.56 |
| 20 | 2 | 0.94 | 0.40 |  | 1 | 3.00 | 0.09 |  | 2 | 29 | 0.69 | 0.51 |  | 0.67 |  | 1.21 |
| 21 | 2 | 0.26 | 0.78 |  | 1 | 0.02 | 0.89 |  | 2 | 29 | 0.51 | 0.60 |  | 0.11 |  | 0.96 |
| 22 | 2 | 1.09 | 0.35 |  | 1 | 0.15 | 0.71 |  | 2 | 24 | 0.92 | 0.41 |  | 0.28 |  | 0.16 |
| 23 | 2 | 3.14 | 0.06 |  | 1 | 0.23 | 0.64 |  | 2 | 21 | 1.84 | 0.18 |  | 0.31 |  | 0.16 |
| 24 | 2 | 1.67 | 0.22 |  | 1 | 0.03 | 0.86 |  | 2 | 19 | 0.31 | 0.73 |  | 0.08 |  | 0.37 |
| 25 | 2 | 0.89 | 0.44 |  | 1 | 0.03 | 0.87 |  | 2 | 12 | 1.53 | 0.26 |  | 0.30 |  | 0.40 |

1 numerator degrees of freedom.

2 probability.

3 denominator degrees of freedom.

\* significant differences at 5%.

\*\* significant differences at 1%.