LAMPIRAN

Lampiran 01. Data Parameter Pengamatan

A. Data konsumsi air minum (ml) mencit (Mus musculus) jantan strain DDY selama empat minggu perlakuan

<table>
<thead>
<tr>
<th>Perlakuan</th>
<th>Minggu</th>
<th>Jumlah</th>
<th>Rerata</th>
</tr>
</thead>
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B. Data konsumsi pakan (gr) mencit \( Mus\ musculus\) jantan strain DDY selama empat minggu perlakuan

<table>
<thead>
<tr>
<th>Perlakuan</th>
<th>Minggu</th>
<th>Jumlah</th>
<th>Rerata</th>
</tr>
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<tbody>
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<td>I</td>
<td>II</td>
<td>III</td>
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<tr>
<td></td>
<td>(\Sigma = 469,12)</td>
<td>(117,28)</td>
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<td>28,67</td>
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<td>(\Sigma = 647,98)</td>
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<td>(\Sigma = 479,16)</td>
<td>(119,79)</td>
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<td>Total</td>
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C. Data pertambahan berat badan (gr) mencit (Mus musculus) jantan strain DDY setelah perlakuan selama empat minggu

<table>
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<tr>
<th>Perlakuan</th>
<th>Minggu</th>
<th>Jumlah</th>
<th>Rerata</th>
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</tbody>
</table>

Total

|        | Σ = 68,7 | Σ = 4,294 |
Lampiran 02. Anova dan Uji lanjut

A. Data konsumsi air minum (ml) mencit (Mus musculus) jantan strain DDY selama empat minggu perlakuan

<table>
<thead>
<tr>
<th>Perlakuan</th>
<th>Ulangan</th>
<th>P0 0 ppm</th>
<th>P1 250 ppm</th>
<th>P2 500 ppm</th>
<th>P3 1000 ppm</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1</td>
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<td>175,00</td>
<td>151,50</td>
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<td>484,50</td>
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<td>123,00</td>
<td>153,00</td>
<td>197,00</td>
<td>629,50</td>
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<td>U3</td>
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<td>161,50</td>
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<td>142,00</td>
<td>131,00</td>
<td>576,00</td>
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<td>-</td>
<td>467,00</td>
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<td>766,00</td>
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<td>2593,50</td>
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<td>142,62</td>
<td>153,20</td>
<td>156,62</td>
<td>152,56</td>
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</tbody>
</table>

Perhitungan

a. $dbT = \sum_{i=1}^{a} ni - 1 = 17 - 1 = 16$

b. $dbP = a - 1 = 4 - 1 = 3$

c. $dbG = \sum_{i=1}^{a} ni - a = 17 - 4 = 13$

d. $FK = \frac{\sum_{i=1}^{a} \frac{Y^2}{ni}}{17} = \frac{2593,50^2}{17} = 395661,3088$

e. $JKT = \sum_{i,j}^{a} Yij^2 - FK$

$= (156,5^2 + 161,5^2 + 162,5^2 + \ldots \ldots + 147,0^2) - 395661,3088$

$= 400181,75 - 395661,3088$

$= 4520,4412$
f. JKP = \sum_{i=1}^{n} \frac{Y_i^2}{ni} - FK

= \left[ \frac{360,5^2}{4} + \frac{570,5^2}{4} + \frac{766,0^2}{5} + \frac{626,5^2}{4} \right] - 395661,3088

= 396226,8875 - 395661,3088

= 565,5787

g. JKG = JKT - JKP

= 4520,4412 - 565,5787

= 3954,8625

h. Kuadrat Tengah Perlakuan

= \frac{565,5787}{3}

= 188,5262

i. Kuadrat Tengah Galat

= \frac{3954,8625}{13}

= 304,2202

j. F hitung

= \frac{188,5262}{304,2202}

= 0,6197

Hasil Anova

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<tr>
<th>Sumber Keragaman</th>
<th>db</th>
<th>JK</th>
<th>KT</th>
<th>F hit</th>
<th>F tab (α = 5 %)</th>
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<td>3954,8625</td>
<td>304,2202</td>
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<tr>
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<td>16</td>
<td>4520,4412</td>
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- F hitung < F tabel, maka H0 diterima → tidak ada perlakuan yang menunjukkan perbedaan yang nyata
B. Data konsumsi pakan (gr) mencit (Mus musculus) jantan strain DDY selama empat minggu periakuan

<table>
<thead>
<tr>
<th>Periakuan</th>
<th>Ulangan 0 ppm</th>
<th>P1 250 ppm</th>
<th>P2 500 ppm</th>
<th>P3 1000 ppm</th>
<th>Total</th>
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<tbody>
<tr>
<td>U1</td>
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<td>119,40</td>
<td>135,57</td>
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<td>371,45</td>
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<td>101,12</td>
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<td>125,92</td>
<td>491,51</td>
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<td>137,96</td>
<td>124,93</td>
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<td>130,51</td>
<td>-</td>
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<td>117,96</td>
<td>367,76</td>
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<td>647,98</td>
<td>479,16</td>
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<td>129,596</td>
<td>119,79</td>
<td>501,0785</td>
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Perhitungan

a. \( dbT = \sum_{i=1}^{a} n_i - 1 = 17 - 1 = 16 \)

b. \( dbP = a - 1 = 4 - 1 = 3 \)

c. \( dbG = \sum_{i=1}^{a} n_i - a = 17 - 4 = 13 \)

d. \( FK = \frac{\frac{Y_{..}^2}{\sum_{i=1}^{a} n_i}}{17} = \frac{2133,91^2}{17} = \frac{4553571,888}{17} = 267857,1699 \)

e. \( JKT = \sum_{i,j} y_{ij}^2 - FK \)
\[
\begin{align*}
\text{JKP} &= \sum_{i=1}^{n} \frac{Y_i^2}{m_i} - FK \\
&= \left[ \frac{537.65^2}{4} + \frac{469.12^2}{4} + \frac{647.98^2}{5} + \frac{479.16^2}{4} \right] - 267857.1699 \\
&= 268659.4667 - 267857.1699 \\
&= 802.2968 \\
\text{JKG} &= JKT - JKP \\
&= 1390.9132 - 802.2968 \\
&= 588.6164
\end{align*}
\]

h. Kuadrat Tengah Perlakuan
\[
= \frac{802.296805}{3} = 267.4323
\]

i. Kuadrat Tengah Galat
\[
= \frac{588.616395}{13} = 45.27818
\]

j. F hitung
\[
= \frac{267.4322683}{45.27818423} = 5.9064
\]

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<thead>
<tr>
<th>Sumber Keragaman</th>
<th>db</th>
<th>JK</th>
<th>KT</th>
<th>F hit</th>
<th>F tab (α = 5 %)</th>
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</thead>
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<td>5.9064</td>
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<td>45.27818</td>
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<td>1390.9132</td>
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</tr>
</tbody>
</table>

- \( F \text{ hitung} > F \text{ tabel} \), maka \( H_0 \) ditolak → terdapat perlakuan yang menunjukkan perbedaan yang signifikan
UJI LANJUT BNT

\[
BNT \ 5 \% = t \ (dBG, 5 \%) \times \sqrt{KTG} \left[ \frac{1}{n_0} + \frac{1}{m_1} \right]
\]

\[
P_0 - P_1 = 2,16 \times \sqrt{45,2781823 \left[ \frac{1}{4} + \frac{1}{4} \right]}
= 2,16 \times 4,76
= 10,28
\]

\[
P_0 - P_1 = 17,13 \quad (\text{beda nyata})
\]

\[
P_0 - P_2 = 2,16 \times \sqrt{45,2781823 \left[ \frac{1}{4} + \frac{1}{5} \right]}
= 2,16 \times 4,51
= 9,75
\]

\[
P_0 - P_2 = 4,8165 \quad (\text{tidak beda nyata})
\]

\[
P_0 - P_3 = 2,16 \times \sqrt{45,2781823 \left[ \frac{1}{4} + \frac{1}{4} \right]}
= 2,16 \times 4,76
= 10,28
\]

\[
P_0 - P_3 = 14,6225 \quad (\text{beda nyata})
\]

\[
P_1 - P_2 = 2,16 \times \sqrt{45,2781823 \left[ \frac{1}{4} + \frac{1}{5} \right]}
= 2,16 \times 4,51
= 9,75
\]

\[
P_1 - P_2 = 12,316 \quad (\text{beda nyata})
\]

\[
P_1 - P_3 = 2,16 \times \sqrt{45,2781823 \left[ \frac{1}{4} + \frac{1}{4} \right]}
= 2,16 \times 4,76
= 10,28
\]
\[ P_1 - P_3 = 2.51 \] (tidak beda nyata)

\[ P_2 - P_3 = 2.16 \times \sqrt{45.2781823 \left[ \frac{1}{4} + \frac{1}{5} \right]} \]

\[ = 2.16 \times 4.51 \]
\[ = 9.75 \]

\[ P_2 - P_3 = 9.806 \] (beda nyata)

<table>
<thead>
<tr>
<th>( P_1^{a} )</th>
<th>( P_2^{a} )</th>
<th>( P_2^{b} )</th>
<th>( P_0^{b} )</th>
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</tbody>
</table>
C. Data laju pertumbuhan (gr) mencit (*Mus musculus*) jantan strain DDY selama 4 minggu perlakuan

<table>
<thead>
<tr>
<th>Perlakuan</th>
<th>Ulangan</th>
<th>P0 0 ppm</th>
<th>P1 250 ppm</th>
<th>P2 500 ppm</th>
<th>P3 1000 ppm</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1</td>
<td>1</td>
<td>0,150</td>
<td>0,600</td>
<td>0,800</td>
<td>1,55</td>
<td></td>
</tr>
<tr>
<td>U2</td>
<td>2</td>
<td>0,400</td>
<td>0,775</td>
<td>1,375</td>
<td>1,225</td>
<td>3,775</td>
</tr>
<tr>
<td>U3</td>
<td>3</td>
<td>1,425</td>
<td>0,725</td>
<td>1,475</td>
<td>0,550</td>
<td>4,175</td>
</tr>
<tr>
<td>U4</td>
<td>4</td>
<td>1,300</td>
<td>0,375</td>
<td>0,975</td>
<td>-</td>
<td>2,65</td>
</tr>
<tr>
<td>U5</td>
<td>5</td>
<td>2,675</td>
<td>-</td>
<td>1,150</td>
<td>0,200</td>
<td>4,025</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>5,800</td>
<td>2,025</td>
<td>5,575</td>
<td>2,775</td>
<td>16,175</td>
</tr>
<tr>
<td>Rerata</td>
<td></td>
<td>1,450</td>
<td>0,506</td>
<td>1,115</td>
<td>0,694</td>
<td>3,235</td>
</tr>
</tbody>
</table>

**Perhitungan**

a. \( \text{dbT} = \sum_{i=1}^{a} ni - 1 \) = 17 - 1 = 16

b. \( \text{dbP} = a - 1 \) = 4 - 1 = 3

c. \( \text{dbG} = \sum_{i=1}^{a} ni - a \) = 17 - 4 = 13

d. \( \text{FK} = \frac{Y^2}{\sum_{i=1}^{a} n_i} \)

\[ = \frac{16,175^2}{17} \]

\[ = \frac{261,630,625}{17} \]

\[ = 15,39 \]

e. \( \text{JKT} = \sum_{i,j} Y_{ij}^2 - FK \)

\[ = (0,400^2 + 1,425^2 + 1,300^2 + \ldots + 0,200^2) - 15,39 \]

\[ = 20,58125 - 15,39 \]

\[ = 4,6681 \]
f. JKP = \sum_{i=1}^{n} \frac{Y_i^2}{n} - \frac{1}{n} \sum_{i=1}^{n} \frac{Y_i}{n}

= \left[ \frac{5,800^2}{4} + \frac{2,025^2}{4} + \frac{5,575^2}{5} + \frac{2,775^2}{4} \right] - 15,39

= 17,5763 - 15,39

= 2,1863

g. JKG = JKT - JKP

= 4,6681 - 2,1863

= 2,4818

h. Kuadrat Tengah Perlakuan

= \frac{2,1863}{3}

= 0,7288

i. Kuadrat Tengah Galat

= \frac{2,4818}{13}

= 0,1909

j. F hitung

= \frac{0,7288}{0,1909}

= 3,8173

Hasil Anova

<table>
<thead>
<tr>
<th>Sumber Keragaman</th>
<th>db</th>
<th>JKP</th>
<th>KT</th>
<th>F hit</th>
<th>F tab (α = 5 %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perlakuan</td>
<td>3</td>
<td>2,1863</td>
<td>0,7288</td>
<td>3,8173</td>
<td>3,41</td>
</tr>
<tr>
<td>Galat</td>
<td>13</td>
<td>2,4818</td>
<td>0,1909</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
<td>4,6681</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\( F \) hitung > \( F \) tabel, maka \( H_0 \) ditolak → terdapat perlakuan yang menunjukkan perbedaan yang signifikan
UJI LANJUT BNT

BNT 5 % = t (dBG, 5 %) x \sqrt{K\gamma G \left[ \frac{1}{n_0} + \frac{1}{m} \right]}

\[
P_0 - P_1 = 2,16 \times \sqrt{0,1909 \left[ \frac{1}{4} + \frac{1}{4} \right]}
= 2,16 \times 0,3089
= 0,6672
\]

\[
P_0 - P_1 = 0,944 \quad \text{(beda nyata)}
\]

\[
P_0 - P_2 = 2,16 \times \sqrt{0,1909 \left[ \frac{1}{4} + \frac{1}{5} \right]}
= 2,16 \times 0,2931
= 0,6331
\]

\[
P_0 - P_2 = 0,3355 \quad \text{(tidak beda nyata)}
\]

\[
P_0 - P_3 = 2,16 \times \sqrt{0,1909 \left[ \frac{1}{4} + \frac{1}{4} \right]}
= 2,16 \times 0,3089
= 0,6672
\]

\[
P_0 - P_3 = 0,756 \quad \text{(beda nyata)}
\]

\[
P_1 - P_2 = 2,16 \times \sqrt{0,1909 \left[ \frac{1}{4} + \frac{1}{5} \right]}
= 2,16 \times 0,2931
= 0,6331
\]

\[
P_1 - P_2 = 0,609 \quad \text{(tidak beda nyata)}
\]

\[
P_1 - P_3 = 2,16 \times \sqrt{0,1909 \left[ \frac{1}{4} + \frac{1}{4} \right]}
= 2,16 \times 0,3089
= 0,6672
\]

\[
P_1 - P_3 = 0,188 \quad \text{(tidak beda nyata)}
\]
\[ P_2 - P_3 = 2.16 \times \sqrt{0.1909 \left( \frac{1}{4} + \frac{1}{5} \right)} \]
\[ = 2.16 \times 0.2931 \]
\[ = 0.6331 \]

\[ P_2 - P_3 = 0.421 \quad ( \text{tidak beda nyata}) \]

<table>
<thead>
<tr>
<th>( P_1 )</th>
<th>( P_3 )</th>
<th>( P_2^{ab} )</th>
<th>( P_0^{b} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.506</td>
<td>0.694</td>
<td>1.115</td>
<td>1.450</td>
</tr>
</tbody>
</table>