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<td>16</td>
<td>23,07</td>
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</table>

| Total | 98,45 | 433,50 | 652,88 |
| Rata-rata | 3,28 | 14,45 | 21,76 |
| SD | 0,45 | 1,61 | 2,91 |
Perhitungan BSt kambing PE Kelahiran Pertama:

Rumus BSt = \( \left( Bln + \frac{BSn-Bln}{Umur sapili} \times 120 \right)(FKJK)(FKUI)(FKTK) \)

BSt kambing PE 1. A1 = \( \left( 2,25 + \frac{14-3,5}{90} \times 120 \right) \times 1,164 \times 1,15 \)
= \( 2,25 + \frac{10,5}{90} \times 120 \) \times 1,164 \times 1,15
= 23,51

BSt kambing PE 1. S1 = \( \left( 3,6 + \frac{16-3,6}{90} \times 120 \right) \times 1,146 \times 1 \)
= \( 3,6 + \frac{12,5}{90} \times 120 \) \times 1,146 \times 1
= 23,07

Perhitungan Rata-rata BSt kambing PE Kelahiran Pertama:

Rata-rata BSt kelahiran 1. A1 = \( \frac{BSt kempe 1+ BSt kempe 2}{2} \)
= \( \frac{21,37+25,66}{2} \)
= 23,51

Rata-rata BSt kelahiran 1. Q2 = \( \frac{BSt kempe 1+ BSt kempe 2}{2} \)
= \( \frac{17,56+23,52}{2} \)
= 20,54
Tabel 10. Data Bobot Sapih Terkoreksi Cempe PE pada Kelahiran Kedua.

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<tr>
<th>No</th>
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<th>Rata-rat Bobot Sapih Cempe (kg)</th>
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Perhitungan BSt kambing PE Kelahiran Kedua:

**Rumus BSt**

\[
BSt = \left( Bln + \frac{BSn-BLn}{Umur sapi} \times 120 \right) (FKJK)(FKUI)(FKTK)
\]

**BSt Kambing PE 2. A1**

\[
= \left( 3,2 + \frac{15-3,2}{90} \times 120 \right) 1 \times 1,092 \times 1 \]
\[
= \left( 3,2 + \frac{11,8}{90} \times 120 \right) 1 \times 1092 \times 1 \]
\[
= 20,67
\]

**BSt Kambing PE 2. H3**

\[
= \left( 3,4 + \frac{16-3,4}{90} \times 120 \right) 1 \times 1,088 \times 1 \]
\[
= \left( 3,4 + \frac{12,6}{90} \times 120 \right) 1 \times 1088 \times 1 \]
\[
= 21,97
\]

**Perhitungan Rata-rata BSt Kambing PE Kelahiran Kedua:**

**Rata-rata BSt kelahiran 2. B1**

\[
= \frac{BSt cempe 1 + BSt cempe 2}{2}
\]
\[
= \frac{22,05+23,95}{2}
\]
\[
= 23,00
\]

**Rata-rata BSt kelahiran 2. R2**

\[
= \frac{BSt cempe 1 + BSt cempe 2}{2}
\]
\[
= \frac{30,14+26,14}{2}
\]
\[
= 28,14
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<td>21,97</td>
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|    | Total        |      | 652,88    | 712,28   | 682,58   |
|    | Rata-rata    |      | 21,76     | 23,74    | 22,75    |
|    | SD           |      | 2,91      | 2,39     | 1,94     |
Perhitungan Rata-rata BSt Kambing PE kelahiran 1 dan 2:

Rata-rata BSt kelahiran 1 dan 2  
\[
A1 = \frac{BSt\ kelahiran\ 1 + BSt\ kelahiran\ 2}{2} = \frac{23,51 + 20,67}{2} = 22,09
\]

Rata-rata BSt kelahiran 1 dan 2 S1  
\[
= \frac{BSt\ kelahiran\ 1 + BSt\ kelahiran\ 2}{2} = \frac{23,07 + 21,97}{2} = 22,52
\]

Tabel12, Nilai Riptabilitas dengan Menggunakan Metode Antarklas.

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Perhitungan Nilai Ripitabilitas Bobot Sapih Kambing PE menggunakan metode korelasi Antarklas dapat dihitung dengan rumus:

Ripitabilitas Kambing PE =

$$r = \frac{\sum xy}{\sqrt{\sum x^2 \sum y^2}} = \frac{\sum XY - (\sum X)(\sum Y)}{\sqrt{\left[\sum X^2 \left(\frac{\sum x^2}{n}\right)\right] \left[\sum Y^2 \left(\frac{\sum y^2}{n}\right)\right]}}$$

$$= \frac{15508.46 - (652.88)(712.24)}{30}$$

$$= \frac{14453.34 - (652.88)^2}{30}$$

$$= \frac{17065.55 - (712.24)^2}{30}$$

$$= 8.22$$

$$\sqrt{38.21398}$$

$$= 0.04$$
Tabel 13. Nilai MPPA Kambing PE.

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Perhitungan Nilai MPPA dengan menggunakan rumus:
Contoh Perhitungan A1 :

\[ MPPA = \frac{nr}{1 + (n-1)r} (\bar{P} - \bar{P_r}) + \bar{P} \]

\[ = \frac{2 \times 0.04}{1 + (2-1)0.04} (\frac{2}{2} - \frac{2}{2}) + 22.75 \]

\[ = 0.07 \]

\[ = 22.70 \]

Contoh perhitungan S1

\[ MPPA = \frac{nr}{1 + (n-1)r} (\bar{P} - \bar{P_r}) + \bar{P} \]

\[ = \frac{2 \times 0.04}{1 + (2-1)0.04} (22.52 - 22.75) + 22.75 \]

\[ = 22.73 \]

Tabel 14. Nilai Efisiensi Reproduksi Kambing PE.

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Lanjutan Tabel 14.
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Perhitungan Nilai Indeks Produktivitas Induk Kambing PE dengan nilai tertinggi (A1. 1) dan terendah (S1. 30)

Rumus IPI = MPPA × ER

IPI (A1 1) = 22,70 × 105,88 % = 24,03

IPI (S1 30) = 22,73 × 84,21% = 19,14

Tabel 16. Ranking Nilai Indeks Produktivitas Induk kambing PE.
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Total 646,79  
Rata-rata 21,56  
SD 1,97

Keterangan:

*1-10 di atas rata-rata (33%)

*11-30 di bawah rata-rata (67%)