

## **LAMPIRAN**

**Lampiran 01. Data dan Anova Berat Otot Ekstremitas Posterior**

**Tabel 02. Data Berat Otot Ekstremitas Posterior ( gram ).**

Ulangan	Perlakuan				
	P <sub>0</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>
1	162,05	165,53	182,38	156,90	-
2	-	169,75	173,55	-	-
3	168,62	156,29	-	145,45	184,28
4	-	159,45	171,21	151,17	181,52
5	-	-	178,68	151,18	-
6	-	-	174,68	-	-
Jumlah	330,67	651,02	880,45	604,70	365,80
Rata-rata	165,34	162,76	176,09	151,18	182,90

**HITUNGAN STATISTIK**

Derajat Bebas Total (DBT) =  $(2 + 4 + 5 + 4 + 2) - 1 = 16$

Derajat Bebas Perlakuan (DBP) =  $5 - 1 = 4$

Derajat Bebas Galat (DBG) =  $(2 + 4 + 5 + 4 + 2) - 5 = 12$

$$\begin{aligned}
 \text{Faktor Koreksi} &= \frac{(330,67 + 651,02 + 880,45 + 604,70 + 365,80)^2}{17} \\
 &= 471991,13 \\
 \\
 \text{Jumlah Kuadrat Total (JKT)} &= (162,05^2 + 168,62^2 + \dots + 184,28^2 + \\
 &= 181,52^2) - 454821,10 \\
 &= 2292,17 \\
 \\
 \text{Jumlah Kuadrat Perlakuan (JKP)} &= \left( \frac{330,67^2}{2} + \frac{651,02^2}{4} + \frac{880,45^2}{5} + \frac{604,70^2}{4} + \frac{365,80^2}{2} \right) \\
 &\quad - 471991,13 \\
 &= 1995,73 \\
 \\
 \text{Jumlah Kuadrat Galat (JKG)} &= 2292,17 - 1995,73 = 296,44 \\
 \\
 \text{Kuadrat Tengah Perlakuan (KTP)} &= 1995,73 / 4 = 498,93 \\
 \\
 \text{Kuadrat Tengah Galat (KTG)} &= 296,44 / 12 = 24,70 \\
 \\
 \text{Fhitung} &= 498,93 / 24,70 = 20,19 \\
 \\
 \text{Ftabel 5 \%} &= 3,26
 \end{aligned}$$

### Anova

SK	Db	JK	KT	F hitung	F tabel
Perlakuan	4	1995,73	498,93	20,19	3.26
Galat	12	286,44	24,70		
Total	16	2292,17			

### Uji Lanjut B.N.T Otot Ekstrmitas Posterior

**Tabel Nilai Tengah**

Perlakuan	nilai tengah	selisih			
P <sub>3</sub>	151,18	P <sub>3</sub>			
P <sub>1</sub>	162,76	11,58	P <sub>1</sub>		
P <sub>0</sub>	165,34	14,58	2,58	P <sub>0</sub>	
P <sub>2</sub>	176,09	24,91	10,33	10,75	P <sub>2</sub>
P <sub>4</sub>	186,90	31,72	20,14	17,56	6,81

$$\text{B.N.T } 5\% = t(\text{DBG}, 5\%) \times \sqrt{Sp^2 \left( \frac{1}{no} \right) + \left( \frac{1}{ni} \right)}$$

$$\begin{aligned} P_0-P_1 &= t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{2} + \frac{1}{4} \right]} \\ &= 9,38 > 2,58 \text{ tidak berbeda nyata} \end{aligned}$$

$$\begin{aligned} P_0-P_2 &= t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{2} + \frac{1}{5} \right]} \\ &= 9,06 < 10,75 \text{ berbeda nyata} \end{aligned}$$

$$\begin{aligned} P_0-P_3 &= t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{2} + \frac{1}{4} \right]} \\ &= 9,38 < 14,58 \text{ berbeda nyata} \end{aligned}$$

$$\begin{aligned} P_0-P_4 &= t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{2} + \frac{1}{2} \right]} \\ &= 10,83 < 17,56 \text{ berbeda nyata} \end{aligned}$$

$$P_1-P_2 = t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{4} + \frac{1}{5} \right]}$$

$$= 7,26 < 10,23 \text{ berbeda nyata}$$

$$P_1-P_3 = t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{4} + \frac{1}{4} \right]}$$

$$= 7,66 < 11,58 \text{ berbeda nyata}$$

$$P_1-P_4 = t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{4} + \frac{1}{2} \right]}$$

$$= 9,38 < 20,14 \text{ berbeda nyata}$$

$$P_2-P_3 = t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{5} + \frac{1}{4} \right]}$$

$$= 7,26 < 24,91 \text{ berbeda nyata}$$

$$P_2-P_4 = t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{5} + \frac{1}{2} \right]}$$

$$= 9,06 > 6,81 \text{ tidak berbeda nyata}$$

$$P_3-P_4 = t_{5\%}(12) \sqrt{24,70 \left[ \frac{1}{4} + \frac{1}{2} \right]}$$

$$= 9,38 < 31,72 \text{ berbeda nyata}$$

P<sub>3</sub>P<sub>1</sub>P<sub>0</sub>P<sub>2</sub>P<sub>4</sub>

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### Lampiran 02 Data dan Anova Berat Tulang Ekstremitas Posterior

Tabel 03. Data Berat Tulang Ekstremitas Poaterior (gram)

Ulangan	Perlakuan				
	P <sub>0</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>
1	34,50	43,94	34,45	36,99	-
2	-	37,20	37,43	-	-
3	30,66	35,52	-	38,33	36,47
4	-	32,15	39,14	35,01	34,56
5	-	-	37,00	37,63	-
6	-	-	37,01	-	-
Jumlah	65,16	148,81	185,03	147,96	71,03
Rata-rata	32,58	37,206	37,00	36,99	35,51

#### HITUNGAN STATISTIK

$$\text{Derajat Bebas Total (DBT)} = (2 + 4 + 5 + 4 + 2) - 1 = 16$$

$$\text{Derajat Bebas Perlakuan (DBP)} = 5 - 1 = 4$$

$$\text{Derajat Bebas Galat (DBG)} = (2 + 4 + 5 + 4 + 2) - 5 = 12$$

$$\begin{aligned}
 \text{Faktor Koreksi} &= \frac{(65,16 + 148,81 + 185,03 + 147,96 + 71,03)^2}{17} \\
 &= 22465,39 \\
 \text{Jumlah Kuadrat Total (JKT)} &= (34,50^2 + 30,66^2 + \dots + 36,47^2 + \\
 &= 34,56^2) - 22465,39 \\
 &= 136,86 \\
 \text{Jumlah Kuadrat Perlakuan (JKP)} &= \left( \frac{65,16^2}{2} + \frac{159,44^2}{4} + \frac{183,43^2}{5} + \frac{152,26^2}{4} + \frac{71,03^2}{2} \right) \\
 &\quad - 22465,39 \\
 &= 36,52 \\
 \text{Jumlah Kuadrat Galat (JKG)} &= 136,86 - 36,52 = 100,34 \\
 \text{Kuadrat Tengah Perlakuan (KTP)} &= 36,52 / 4 = 9,13 \\
 \text{Kuadrat Tengah Galat (KTG)} &= 100,34 / 12 = 8,36 \\
 \text{Fhitung} &= 9,13 / 8,36 = 1,09 \\
 \text{Ftabel 5 \%} &= 3,26
 \end{aligned}$$

### Anova

SK	db	JK	KT	F hitung	F tabel
Perlakuan	4	36,52	9,13	1,09	3,26
Galat	12	100,34	8,36		
Total	16	136,86			

**Lampiran 03. Data dan Anova Rasio Otot-Tulang Ekstremitas Posterior**

**Tabel 04. Data Ratio Otot-Tulang Ekstremitas Posterior ( gram ).**

Ulangan	Perlakuan				
	P <sub>0</sub>	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>
1	4,69	3,76	5,29	4,24	-
2	-	4,56	4,63	-	-
3	5,49	4,40	-	3,79	5,05
4	-	4,95	4,37	4,31	5,25
5	-	-	4,82	4,01	-
6	-	-	4,71	-	-
Jumlah	10,89	17,69	2,82	16,35	10,30
Rata-rata	5,09	4,41	4,76	4,08	5,15

**HITUNGAN STATISTIK**

Derajat Bebas Total (DBT) =  $(2 + 4 + 5 + 4 + 2) - 1 = 16$

Derajat Bebas Perlakuan (DBP) =  $5 - 1 = 4$

Derajat Bebas Galat (DBG) =  $(2 + 4 + 5 + 4 + 2) - 5 = 12$



$$\begin{aligned} \text{Faktor Koreksi} &= \frac{(10,18 + 17,67 + 23,82 + 16,35 + 10,30)^2}{17} \\ &= 361,38 \end{aligned}$$

$$\begin{aligned} \text{Jumlah Kuadrat Total (JKT)} &= (4,69^2 + 5,49^2 + \dots + 5,05^2 + \\ &= 5,25^2) - 361,38 \\ &= 3,55 \end{aligned}$$

$$\begin{aligned} \text{Jumlah Kuadrat Perlakuan (JKP)} &= \left( \frac{10,18^2}{2} + \frac{17,67^2}{4} + \frac{23,82^2}{5} + \frac{16,35^2}{4} + \frac{10,30^2}{2} \right) \\ &\quad - 361,38 \\ &= 1,85 \end{aligned}$$

$$\text{Jumlah Kuadrat Galat (JKG)} = 3,55 - 1,85 = 1,70$$

$$\text{Kuadrat Tengah Perlakuan (KTP)} = 1,85 / 4 = 0,46$$

$$\text{Kuadrat Tengah Galat (KTG)} = 1,70 / 12 = 0,14$$

$$\text{Fhitung} = 0,46 / 0,14 = 3,30$$

$$\text{Ftabel 5 \%} = 3,26$$

#### Anova

SK	Db	JK	KT	F hitung	F tabel
Perlakuan	4	1,85	0,46	3,30	3,26
Galat	12	1,70	0,14		
Total	16	3,55			

### Uji Lanjut B.N.T Ratio Otot-Tulang Ekstrimitas Posterior

Tabel Nilai Tengah

Perlakuan	nilai tengah	selisih			
P <sub>3</sub>	4,08	P <sub>3</sub>			
P <sub>1</sub>	4,41	0,33	P <sub>1</sub>		
P <sub>2</sub>	4,76	0,68	0,35	P <sub>2</sub>	
P <sub>0</sub>	5,09	1,01	0,68	0,33	P <sub>0</sub>
P <sub>4</sub>	5,15	1,07	0,74	0,39	0,06

$$\text{B.N.T } 5\% = t(\text{DBG}, 5\%) \times \sqrt{Sp^2 \left( \frac{1}{no} \right) + \left( \frac{1}{ni} \right)}$$

$$\begin{aligned} P_0-P_1 &= t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{2} + \frac{1}{4} \right]} \\ &= 0,70 > 0,68 \text{ tidak berbeda nyata} \end{aligned}$$

$$\begin{aligned} P_0-P_2 &= t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{2} + \frac{1}{5} \right]} \\ &= 0,68 > 0,33 \text{ tidak berbeda nyata} \end{aligned}$$

$$\begin{aligned} P_0-P_3 &= t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{2} + \frac{1}{4} \right]} \\ &= 0,70 < 1,01 \text{ berbeda nyata} \end{aligned}$$

$$\begin{aligned} P_0-P_4 &= t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{2} + \frac{1}{2} \right]} \\ &= 0,81 > 0,06 \text{ tidak berbeda nyata} \end{aligned}$$

$$P_1-P_2 = t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{4} + \frac{1}{5} \right]}$$

$$= 0,54 > 0,35 \text{ tidak berbeda nyata}$$

$$P_1-P_3 = t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{4} + \frac{1}{4} \right]}$$

$$= 0,57 > 0,33 \text{ tidak berbeda nyata}$$

$$P_1-P_4 = t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{4} + \frac{1}{2} \right]}$$

$$= 0,70 < 0,74 \text{ berbeda nyata}$$

$$P_2-P_3 = t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{5} + \frac{1}{4} \right]}$$

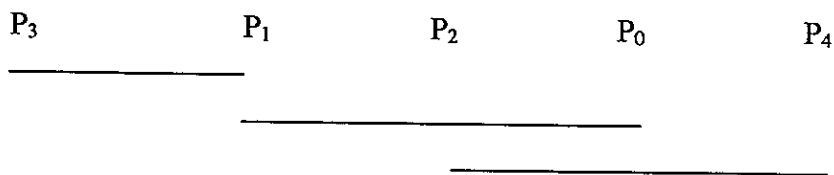
$$= 0,54 < 0,68 \text{ berbeda nyata}$$

$$P_2-P_4 = t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{5} + \frac{1}{2} \right]}$$

$$= 0,68 > 0,39 \text{ tidak berbeda nyata}$$

$$P_3-P_4 = t_{5\%}(12) \sqrt{0,14 \left[ \frac{1}{4} + \frac{1}{2} \right]}$$

$$= 0,70 < 1,07 \text{ berbeda nyata}$$



## LAMPIRAN 04 Konsumsi Pakan / Minggu (gram)

Tabel 05 Data Konsumsi Pakan

Perlakuan	Minggu			X	Rerata	
	I	II	III			
P0	0,1	70,40	102,70	119,70	97,60	107,23
	0,3	82,80	119,70	148,10	116,86	
					$\Sigma = 214,46$	
P1	1,1	85,70	110,50	115,70	103,96	100,69
	1,2	74,30	114,60	124,40	104,43	
	1,3	71,60	95,75	116,40	94,58	
	1,4	67,30	103,01	129,10	99,80	
					$\Sigma = 402,77$	
P2	2,1	70,50	103,80	117,60	97,30	108,23
	2,2	80,30	115,20	133,90	109,80	
	2,4	85,78	124,10	138,40	116,09	
	2,5	73,90	117,30	135,10	108,76	
	2,6	77,60	117,70	132,40	109,23	
					$\Sigma = 541,18$	
P3	3,1	69,40	104,10	112,20	95,23	93,37
	3,3	76,60	101,60	121,80	100,00	
	3,4	84,30	90,27	99,00	91,19	
	3,5	73,70	89,70	97,80	87,06	
					$\Sigma = 373,48$	
P4	4,3	94,01	128,50	157,40	126,63	123,99
	4,4	86,20	121,50	156,40	121,36	
					$\Sigma = 247,99$	
					$\Sigma \text{Total} = 1779,88$	

$$\text{Faktor korelasi (FK)} = \frac{(1779,88)^2}{17} = 186351,34$$

$$\begin{aligned} \text{Jumlah Kuadrat Total (JKT)} &= \{(97,60)^2 + \dots + (121,36)^2\} - 186351,34 \\ &= 188288,11 - 186351,34 \\ &= 1936,76 \end{aligned}$$

$$\begin{aligned} \text{Jumlah Kuadrat Perlakuan (JKP)} &= \left\{ \frac{(214,46)^2}{2} + \dots + \frac{(247,99)^2}{2} \right\} - 186351,34 \\ &= 187748,97 - 186351,34 \\ &= 1397,63 \end{aligned}$$

$$\begin{aligned} \text{Jumlah Kuadrat Galat (JKG)} &= \text{JKT} - \text{JKP} \\ &= 1936,76 - 1397,63 \\ &= 539,14 \end{aligned}$$

Tabel Anova

Sumber varians	db	JK	KT	F hit	Ftab (5%)
Perlakuan	4	1397,63	349,41	7,77	3,26
Galat	12	539,14	44,93		
Total	16	1936,76			

F hit > F tab, maka Ho ditolak

Uji Lanjut B.N.T Konsumsi pakan

$$\text{B.N.T } 5\% = t(\text{DBG}, 5\%) \times \sqrt{Sp^2 \left( \frac{1}{n_o} + \frac{1}{n_i} \right)}$$

$$\begin{aligned} P_0 - P_1 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{2} + \frac{1}{4} \right)} \\ &= 2,18 \times \sqrt{33,69} \\ &= 12,65 \Rightarrow P_0 - P_1 = 6,50 < 12,65 \text{ tidak beda nyata} \end{aligned}$$

$$\begin{aligned} P_0 - P_2 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{2} + \frac{1}{5} \right)} \\ &= 2,18 \times \sqrt{31,45} \\ &= 12,22 \Rightarrow P_2 - P_0 = 1 < 12,22 \text{ tidak beda nyata} \end{aligned}$$

$$\begin{aligned}
 P0-P3 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{2} + \frac{1}{4} \right)} \\
 &= 2,18 \times \sqrt{33,69} \\
 &= 12,65 \Rightarrow P3-P0 = 13,86 > 12,65 \text{ beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P0-P4 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{2} + \frac{1}{2} \right)} \\
 &= 2,18 \times \sqrt{44,93} \\
 &= 14,61 \Rightarrow P4-P0 = 16,76 > 14,61 \text{ beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P1-P2 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{4} + \frac{1}{5} \right)} \\
 &= 2,18 \times \sqrt{20,21} \\
 &= 9,80 \Rightarrow P2-P1 = 7,54 < 9,80 \text{ tidak beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P1-P3 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{4} + \frac{1}{4} \right)} \\
 &= 2,18 \times \sqrt{22,46} \\
 &= 10,33 \Rightarrow P3-P1 = 7,32 < 10,33 \text{ tidak beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P1-P4 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{4} + \frac{1}{2} \right)} \\
 &= 2,18 \times \sqrt{33,69} \\
 &= 12,65 \Rightarrow P4-P1 = 23,30 > 12,65 \text{ beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P2-P3 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{5} + \frac{1}{4} \right)} \\
 &= 2,18 \times \sqrt{20,21} \\
 &= 9,80 \Rightarrow P3-P2 = 14,86 > 9,80 \text{ beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P2-P4 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{5} + \frac{1}{2} \right)} \\
 &= 2,18 \times \sqrt{31,45} \\
 &= 12,22 \Rightarrow P4-P2 = 15,76 > 12,22 \text{ beda nyata}
 \end{aligned}$$

$$\begin{aligned} P3-P4 &= 2,18 \times \sqrt{44,93 \left( \frac{1}{4} + \frac{1}{2} \right)} \\ &= 2,18 \times \sqrt{33,69} \\ &= 12,65 \Rightarrow P4-P3 = 30,62 > 12,65 \text{ beda nyata} \end{aligned}$$

P3	P1	P0	P2	P4
93,37 <sup>a</sup>	100,69 <sup>ab</sup>	107,23 <sup>b</sup>	108,23 <sup>b</sup>	123,99 <sup>c</sup>

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## Lampiran 05. Pertambahan bobot badan ayam / minggu (gram)

Tabel 06. Data Bobot Badan

Perlakuan	Minggu		PBB/minggu	Rerata	
	Awal	Terakhir			
P0	0,1	332,5	1520	395,83	422,99
	0,3	379,5	1730	450,16	
				$\Sigma = 845,99$	
P1	1,1	381,5	1660	426,16	422,48
	1,2	326,5	1670	447,83	
	1,3	327	1543,3	405,43	
	1,4	315,5	1547	410,5	
				$\Sigma = 1689,92$	
P2	2,1	311	1422,5	370,5	434,66
	2,2	373	1777,5	468,16	
	2,4	387	1750	454,33	
	2,5	360,5	1760	466,5	
	2,6	343,5	1585	413,83	
				$\Sigma = 2173,32$	
P3	3,1	288	1412,5	374,83	357,37
	3,3	356	1580	408	
	3,4	393	1390	332,33	
	3,5	377	1320	314,33	
				$\Sigma = 1429,49$	
P4	4,3	363,5	1780	472,16	480,91
	4,4	374,5	1843,5	489,66	
				$\Sigma = 961,82$	

$$\Sigma \text{ total} = 7100,54$$

$$\text{Faktor Korelasi (FK)} = \frac{(7100,54)^2}{17} = 2965745,19$$

$$\begin{aligned} \text{Jumlah Kuadrat Total (JKT)} &= \{(395,83)^2 + \dots + (489,66)^2\} - 2965745,19 \\ &= 3005020,59 - 2965745,19 \\ &= 39275,40 \end{aligned}$$

$$\begin{aligned} \text{Jumlah Kuadrat Perlakuan (JKP)} &= \left\{ \frac{(845,99)^2}{2} + \dots + \frac{(961,82)^2}{2} \right\} - 2965745,19 \\ &= 2989880,17 - 2965745,19 \\ &= 24134,98 \end{aligned}$$



$$\begin{aligned}
 \text{Jumlah Kuadrat Galat (JKG)} &= \text{JKT} - \text{JKP} \\
 &= 39275,40 - 24134,98 \\
 &= 15140,41
 \end{aligned}$$

Tabel Anova

Sumber varians	db	JK	KT	F hit	Ftab (5%)
Perlakuan	4	24134,98	6033,74	4,78	3,26
Galat	12	15140,41	1261,70		
Total	16	39275,40			

Tabel NilaiTengah

Perlakuan	Nilai tengah X	Selisih			
P0	422,99	P0			
P1	422,48	0,51	P1		
P2	434,66	11,66	12,18	P2	
P3	357,37	65,62	65,10	77,29	P3
P4	480,91	57,91	58,43	46,24	123,53

Uji Lanjut B.N.T Pertambahan bobot badan/minggu

$$\text{B.N.T } 5\% = t(\text{DBG}, 5\%) \times \sqrt{Sp^2 \left( \frac{1}{n_o} + \frac{1}{n_i} \right)}$$

$$\begin{aligned}
 \text{P0-P1} &= t_{5\%}(12) \sqrt{1261,70 \left( \frac{1}{2} + \frac{1}{4} \right)} \\
 &= 2,18 \times \sqrt{946,27} \\
 &= 67,06 \Rightarrow \text{P1-P0} = 0,51 < 67,06 \text{ tidak beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P0-P2 &= 2,18 \times \sqrt{1261,70 \left( \frac{1}{2} + \frac{1}{5} \right)} \\
 &= 2,18 \times \sqrt{883,19} \\
 &= 64,78 \Rightarrow P2-P0 = 11,66 < 64,78 \text{ tidak beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P0-P3 &= 2,18 \times \sqrt{1261,70 \left( \frac{1}{2} + \frac{1}{4} \right)} \\
 &= 2,18 \times \sqrt{946,27} \\
 &= 67,06 \Rightarrow P3-P0 = 65,62 < 67,06 \text{ tidak beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P0-P4 &= 2,18 \times \sqrt{1261,70 \left( \frac{1}{2} + \frac{1}{2} \right)} \\
 &= 2,18 \times \sqrt{1261,70} \\
 &= 77,43 \Rightarrow P4-P0 = 57,91 < 77,43 \text{ tidak beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P1-P2 &= 2,18 \times \sqrt{1261,70 \left( \frac{1}{4} + \frac{1}{5} \right)} \\
 &= 2,18 \times \sqrt{567,76} \\
 &= 51,94 \Rightarrow P2-P1 = 12,18 < 51,94 \text{ tidak beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P1-P3 &= 2,18 \times \sqrt{1261,70 \left( \frac{1}{4} + \frac{1}{4} \right)} \\
 &= 2,18 \times \sqrt{630,85} \\
 &= 54,75 \Rightarrow P3-P1 = 65,10 > 54,75 \text{ beda nyata}
 \end{aligned}$$

$$\begin{aligned}
 P1-P4 &= 2,18 \times \sqrt{1261,70 \left( \frac{1}{4} + \frac{1}{2} \right)} \\
 &= 2,18 \times \sqrt{946,27} \\
 &= 67,06 \Rightarrow P4-P1 = 58,43 < 67,06 \text{ tidak beda nyata}
 \end{aligned}$$

$$P2-P3 = 2,18 \times \sqrt{1261,70 \left( \frac{1}{5} + \frac{1}{4} \right)}$$

$$= 2,18 \times \sqrt{567,66}$$

$$= 51,93 \Rightarrow P3-P2 = 77,29 > 51,93 \text{ beda nyata}$$

$$P2-P4 = 2,18 \times \sqrt{1261,70 \left( \frac{1}{5} + \frac{1}{2} \right)}$$

$$= 2,18 \times \sqrt{883,19}$$

$$= 64,78 \Rightarrow P4-P2 = 46,24 < 64,78 \text{ tidak beda nyata}$$

$$P3-P4 = 2,18 \times \sqrt{1261,70 \left( \frac{1}{4} + \frac{1}{2} \right)}$$

$$= 2,18 \times \sqrt{946,27}$$

$$= 67,06 \Rightarrow P4-P3 = 123,53 > 67,06 \text{ beda nyata}$$

P3	P1	P0	P2	P4
354,37 <sup>a</sup>	422,48 <sup>b</sup>	422,99 <sup>ab</sup>	434,66 <sup>b</sup>	480,98 <sup>b</sup>

## LAMPIRAN 06

Tabel .07 Konsumsi Air Minum / Minggu (ml)

Perlakuan	Minggu			X	Rerata	
	I	II	III			
P0	0,1	141,50	215,70	294,50	250,56	258,96
	0,3	158,40	284,70	359,00	267,36	
					$\Sigma = 517,92$	
P1	1,1	158,70	255,20	290,20	234,70	265,78
	1,2	162,70	269,00	292,10	241,26	
	1,3	147,80	269,40	394,10	269,76	
	1,4	169,40	351,40	431,40	317,40	
					$\Sigma = 1063,12$	
P2	2,1	122,10	210,80	262,20	198,36	236,30
	2,2	147,70	276,40	304,00	242,70	
	2,4	165,80	280,00	336,40	260,73	
	2,5	140,70	256,40	316,20	237,76	
	2,6	152,40	266,80	306,70	241,96	
					$\Sigma = 1181,51$	
P3	3,1	150,50	266,10	343,00	253,20	226,36
	3,3	147,50	223,10	225,50	198,70	
	3,4	166,40	260,20	296,40	241,00	
	3,5	140,20	232,70	264,80	212,56	
					$\Sigma = 905,46$	
P4	4,3	168,20	240,70	332,50	247,13	244,98
	4,4	148,80	243,00	336,70	242,83	
					$\Sigma = 489,96$	

$$\Sigma \text{ total} = 4157,97$$

$$\text{Faktor Koreksi (FK)} = \frac{(4157,97)^2}{17} = 1016983,20$$

$$\begin{aligned} \text{Jumlah Kuadrat Total (JKT)} &= \{(250,56)^2 + \dots + (242,83)^2\} - 1016983,20 \\ &= 1029264,28 - 1016983,20 \\ &= 12281,07 \end{aligned}$$

$$\begin{aligned} \text{Jumlah Kuadrat Perlakuan (JKP)} &= \left\{ \frac{(517,92)^2}{2} + \dots + \frac{(489,96)^2}{2} \right\} - 1016983,20 \\ &= 1020864,62 - 1016983,20 \end{aligned}$$

$$= 3881,41$$

$$\begin{aligned} \text{Jumlah Kuadrat Galat (JKG)} &= \text{JKT} - \text{JKP} \\ &= 12281,07 - 3881,41 \\ &= 8399,65 \end{aligned}$$

Tabel Anova

Sumber varians	db	JK	KT	F hit	Ftab (5%)
Perlakuan Galat	4	3881,41	970,35	1,38	3,26
	12	8399,65	699,97		
Total	16	12281,07			

F hit < F tab, maka Ho diterima

## Lampiran 04. Lemak Terabsorpsi

Lemak terabsorpsi (gr) = Lemak pakan (gr) – Lemak feces (gr)

Tabel 08. Lemak terabsorpsi (gr)

Perlakuan/Ulangan	Lemak terabsorpsi	Rerata
P <sub>0</sub> (0 ppm) 1 2	5,63 6,59 Σ = 12,22	6,11 <sup>ab</sup>
P <sub>1</sub> (500 ppm) 1 2 3 4	5,56 5,99 5,69 6,24 Σ = 23,48	5,87 <sup>ab</sup>
P <sub>2</sub> (1000 ppm) 1 2 3 4 5	5,72 6,51 6,62 6,49 6,35 Σ = 31,69	6,34 <sup>b</sup>
P <sub>3</sub> (1500 ppm) 1 2 3 4	5,78 5,91 5,23 5,13 Σ = 22,05	5,51 <sup>a</sup>
P <sub>4</sub> (2000 ppm) 1 2	7,68 7,52 Σ = 15,2	7,6 <sup>c</sup>

Perhitungan anova lemak terabsorpsi

$$FK = \frac{Y..^2}{\sum_{i=1}^n ni} = \frac{104,64^2}{17} = 644,090$$

$$JKT = \sum_{ij} Y_{ij}^2 - FK = 652,137 - 644,090 = 8,047$$

$$JKP = \sum_{i=1}^a \frac{Y_i^2}{n_i} - FK = \left( \frac{12,22^2}{2} + \frac{23,48^2}{4} + \frac{31,69^2}{5} + \frac{22,05^2}{4} + \frac{15,2^2}{2} \right) - 644,090$$

$$= 650,414 - 644,090 = 6,324$$

$$JKG = JKT - JKP = 8,047 - 6,324 = 1,723$$

$$db \text{ total} = \sum_{i=1}^a ni - 1 = 16$$

$$db \text{ perlakuan} = a - 1 = 4$$

$$db \text{ galat} = \sum_{i=1}^a ni - a = 12$$

Tabel 09. Anova data lemak terabsorpsi

Sumber variansi	db	JK	KT	Fhit	Ftab (5%)
Perlakuan	4	6,324	1,581	10,98*	3,26
Galat	12	1,723	0,144		
Total	16	8,047			

Uji Lanjut BNT

$$Po-P1 = 2,18 \times \sqrt{0,144 \left( \frac{1}{2} + \frac{1}{4} \right)}$$

$$= 0,72 \Rightarrow 0,24 < 0,72 \quad \text{tidak beda nyata}$$

$$Po-P2 = 2,18 \times \sqrt{0,144 \left( \frac{1}{2} + \frac{1}{5} \right)}$$

$$= 0,70 \Rightarrow 0,23 < 0,70 \quad \text{tidak beda nyata}$$

$$P_0-P_3 = 2,18 \times \sqrt{0,144 \left( \frac{1}{2} + \frac{1}{4} \right)}$$

$$= 0,72 \Rightarrow 0,6 < 0,72 \quad \text{tidak beda nyata}$$

$$P_0-P_4 = 2,18 \times \sqrt{0,144 \left( \frac{1}{2} + \frac{1}{2} \right)}$$

$$= 0,83 \Rightarrow 1,49^* > 0,83 \quad \text{beda nyata}$$

$$P_1-P_2 = 2,18 \times \sqrt{0,144 \left( \frac{1}{4} + \frac{1}{5} \right)}$$

$$= 0,55 \Rightarrow 0,47 < 0,55 \quad \text{tidak beda nyata}$$

$$P_1-P_3 = 2,18 \times \sqrt{0,144 \left( \frac{1}{4} + \frac{1}{4} \right)}$$

$$= 0,59 \Rightarrow 0,36 < 0,59 \quad \text{tidak beda nyata}$$

$$P_1-P_4 = 2,18 \times \sqrt{0,144 \left( \frac{1}{4} + \frac{1}{2} \right)}$$

$$= 0,72 \Rightarrow 1,73 < 0,72 \quad \text{beda nyata}$$

$$P_2-P_3 = 2,18 \times \sqrt{0,144 \left( \frac{1}{5} + \frac{1}{4} \right)}$$

$$= 0,55 \Rightarrow 0,83^* > 0,55 \quad \text{beda nyata}$$

$$P_2-P_4 = 2,18 \times \sqrt{0,144 \left( \frac{1}{5} + \frac{1}{2} \right)}$$

$$= 0,70 \Rightarrow 1,26^* > 0,70 \quad \text{beda nyata}$$

$$P_3-P_4 = 2,18 \times \sqrt{0,144 \left( \frac{1}{4} + \frac{1}{2} \right)}$$

$$= 0,72 \Rightarrow 2,09^* > 0,72 \quad \text{beda nyata}$$

$P_3^a$	$P_1^{ab}$	$P_0^{ab}$	$P_2^b$	$P_4^c$
5,51	5,87	6,11	6,34	7,6