Perhitungan t-student Suhu Rektal Kambing Boerawa Jantan Kisaran Umur 1 Tahun di Dataran Rendah (P_1) dan Kambing Boerawa Jantan Kisaran Umur 1 Tahun di Dataran Tinggi (P_2)

$\sum P_1$ = 1177,5

$\sum (P_1)^2$ = 46216,96

$\sum P_2$ = 1171.7

$\sum (P_2)^2$ = 45764,44

n_1 = 30

n_2 = 30

$\overline{P_1}$ = 39.25

$\overline{P_2}$ = 39.057

$$SS_1 = \sum P_i^2 - \frac{(\sum P_i)^2}{n} = 46216,96 - \frac{(1177,5)^2}{30} = 0.08$$

$$SS_2 = \sum P_2^2 - \frac{(\sum P_2)^2}{n} = 45764,44 - \frac{(1171,7)^2}{30} = 0.2$$

$$S_{x1\text{-}x2} = \sqrt{\frac{SS_1 + SS_2}{n_1 + n_2 - 2}\left(\frac{1}{n_1} + \frac{1}{n_2}\right)} = \sqrt{\frac{0,08 + 0,2}{30 + 30 - 2}\left(\frac{1}{30} + \frac{1}{30}\right)}$$

= 0,01797

$$t = \frac{|\overline{P}_1 - \overline{P}_2|}{S_{x1-x2}} = \frac{|39,25 - 39,057|}{0,01797} = 10,74$$

Tabel 9. Hasil uji t-student Suhu Rektal Kambing Boerawa Jantan Kisaran Umur 1 Tahun di Dataran Rendah (P_1) dan di Dataran Tinggi (P_2).

Kambing	Jumlah	Rata-rata °C	Sd	t hitung	t tabel
Dataran Rendah	30	37,613	0,0507	10,74**	1,697 (0,05)
Dataran Tinggi	30	37,42	0,0925		2,457 (0,01)

Keterangan: ** = sangat nyata