[illegible]

水平值

		总和	平均值	
1	[illegible]	$T_1 = 3.15$	$\bar{y}_1 = 0.63$	$3.15 \div 5 = 0.63$
2	[illegible]	$T_2 = 9.19$	$\bar{y}_2 = 1.53$	$9.19 \div 6 = 1.53$
3	[illegible]	$T_3 = 11.44$	$\bar{y}_3 = 1.91$	$11.44 \div 6 = 1.906 \approx 1.91$
		$T = 23.78$	$\bar{y} = 1.40$	$23.78 \div 17 = 1.398 \approx$

$H_0: \mu_1 = \mu_2 = \mu_3$ $n = 5+6+6 = 17$

$SST = \sum_{i=1}^{3}\sum_{j=1}^{n_i} y_{ij}^2 - \frac{T^2}{n} = $ [illegible] $- \frac{23.78^2}{17} = $ [illegible] $= 5.895$

$SSTR = \sum_{i=1}^{3}\left(\frac{T_i^2}{n_i}\right) - \frac{T^2}{n} = \frac{3.15^2}{5} + \frac{9.19^2}{6} + \frac{11.44^2}{6} - \frac{23.78^2}{17} = $ [illegible] $= 4.609$

$SSE = SST - SSTR = 5.895 - 4.609 = 1.286$

变异来源	平方和	自由度	均方	F临界值
施肥量	$SSTR = 4.609$	$3-1=2$	$MSTR = 2.305$	$\frac{2.305}{0.092} = 25.05$
随机误差	$SSE = 1.286$	$17-3=14$	$MSE = 0.092$	
总和	$SST = 5.895$	$17-1=16$		

$F = 25.05 > F_{0.05}($ [illegible]

[illegible]

$m = \binom{3}{2} = 3$ $F_{0.05}(3-1, 17-3) = 3.74$

$s = \sqrt{MSE} = \sqrt{0.092} = 0.303$ $\sqrt{(k-1)F} = \sqrt{(3-1) \times 3.74} = 2.73$

$\mu_2 - \mu_1$: $(1.53 - 0.63) \pm 2.73 \times 0.303 \times \sqrt{\frac{1}{5}+\frac{1}{6}} = (0.399, 1.401)$，不包含0。

$\mu_3 - \mu_2$: $(1.91 - 1.53) \pm 2.73 \times 0.303 \times \sqrt{\frac{1}{6}+\frac{1}{6}} = (-0.098, 0.858)$，包含0。

$\mu_3 - \mu_1$: $(1.91 - 0.63) \pm 2.73 \times 0.303 \times \sqrt{\frac{1}{5}+\frac{1}{6}} = (0.779, 1.781)$，不包含0。