Table 1. ANOVA for Completely Randomized Design with *t* Treatments and *r* Replications.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source of variation | df | Sum of squares | Mean squares | F-ratio |
| Treatments | *t*-1 | SST | MST=SST/*t*-1 | MST/MSE |
| Experimental Error | *t*(*r*-1) | SSE | MSE=SSE/*t*(*r*-1) |  |
| Total | *rt*-1 | SSTotal |  |  |

Table 2. ANOVA for a Randomized Complete Block Design with *t* Treatments and *r* Blocks.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source of variation | df | Sum of squares | Mean squares | F-ratio |
| Blocks | *r*-1 | SSR | MSR=SSR/*r*-1 |  |
| Treatments | *t*-1 | SST | MST=SST/*t*-1 | MST/MSE |
| Experimental Error | (*r*-1)(*t*-1) | SSE | MSE=SSE/(*t*-1)(*r*-1) |  |
| Total | *rt*-1 | SSTotal |  |  |

Table 3. ANOVA for an *r* x *r* Latin Square Design.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source of variation | df | Sum of squares | Mean squares | F-ratio |
| Rows | *r*-1 | SSR | MSR=SSR/*r*-1 |  |
| Columns | *r-1* | SSC | MSC=SSC/*r*-1 |  |
| Treatments | *r*-1 | SST | MST=SST/*t*-1 | MST/MSE |
| Experimental Error | (*r*-1)(*r*-2) | SSE | MSE=SSE/(*r*-1)(*r*-2) |  |
| Total | *r2*-1 | SSTotal |  |  |