

ANOVA output on effect of N on maize grain Fe concentration in Hwedza District

```
> mod_Hwedza<-lm(MarutaMaize~Blk+Treatment,data=GrainFe)
> anova(mod_Hwedza)
Analysis of Variance Table

Response: MarutaMaize
      Df Sum Sq Mean Sq F value Pr(>F)
Blk      2  70.098   35.049   0.9205 0.4567
Treatment 6 173.899   28.983   0.7612 0.6300
Residuals 5 190.384   38.077
> mod_Hwedza_c<-lm(MarutaMaize~Blk+C1+C2+C3+C4+C5+C6,data=GrainFe)
> anova(mod_Hwedza_c)
Analysis of Variance Table

Response: MarutaMaize
      Df Sum Sq Mean Sq F value Pr(>F)
Blk      2  70.098   35.049   0.9205 0.4567
C1        1   1.464    1.464   0.0384 0.8523
C2        1  49.607  49.607   1.3028 0.3054
C3        1   6.184    6.184   0.1624 0.7036
C4        1  22.930  22.930   0.6022 0.4728
C5        1  61.897  61.897   1.6256 0.2583
C6        1  31.818  31.818   0.8356 0.4026
Residuals 5 190.384   38.077
```

ANOVA output on effect of N on cowpea grain Fe concentration in Hwedza District

```
mod_Hwedza_ln<-lm(log(MarutaCowpea)~Blk+Treatment,data=GrainFe)
> anova(mod_Hwedza_ln)
Analysis of Variance Table

Response: log(MarutaCowpea)
      Df Sum Sq Mean Sq F value Pr(>F)
Blk      2 0.031625 0.0158123  2.7885 0.10125
Treatment 6 0.081032 0.0135053  2.3817 0.09465 .
Residuals 12 0.068046 0.0056705
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> mod_Hwedza_c<-lm(log(MarutaCowpea)~Blk+C1+C2+C3+C4+C5+C6,data=GrainFe)
> anova(mod_Hwedza_c)
Analysis of Variance Table

Response: log(MarutaCowpea)
      Df Sum Sq Mean Sq F value Pr(>F)
Blk      2 0.031625 0.0158123  2.7885 0.10125
C1        1 0.023675 0.0236754  4.1752 0.06362 .
C2        1 0.025795 0.0257950  4.5490 0.05428 .
C3        1 0.020210 0.0202098  3.5640 0.08346 .
C4        1 0.001685 0.0016845  0.2971 0.59571
C5        1 0.000299 0.0002991  0.0528 0.82221
C6        1 0.009368 0.0093682  1.6521 0.22293
Residuals 12 0.068046 0.0056705
```

ANOVA output on effect of N on grain Fe concentration of the high Fe finger millet "seed pool" grown in Hwedza

```
mod_Hwedza<-lm(MarutaHigh~Blk+Treatment,data=GrainFe)
> anova(mod_Hwedza)
Analysis of Variance Table

Response: MarutaHigh
      Df Sum Sq Mean Sq F value Pr(>F)
Blk      3 4598.3 1532.77  1.2901 0.3081
Treatment 6 4778.8  796.47  0.6703 0.6749
```

```

Residuals 18 21386.4 1188.13
> mod_Hwedza_c<-lm(MarutaHigh~Blk+C1+C2+C3+C4+C5+C6,data=GrainFe)
> anova(mod_Hwedza_c)
Analysis of Variance Table

Response: MarutaHigh
      Df Sum Sq Mean Sq F value Pr(>F)
Blk     3  4598.3  1532.77   1.2901 0.3081
C1      1   855.2   855.23   0.7198 0.4073
C2      1  1125.1  1125.13   0.9470 0.3434
C3      1   297.8   297.78   0.2506 0.6227
C4      1   855.8   855.79   0.7203 0.4072
C5      1   108.8   108.83   0.0916 0.7656
C6      1  1536.0  1536.03   1.2928 0.2704
Residuals 18 21386.4 1188.13

```

ANOVA output on effect of N on maize grain Fe concentration in Mutasa District

```

mod_Mutasa_ln<-lm(log(MuteerereMaize)~Blk+Treatment,data=GrainFe)
> anova(mod_Mutasa_ln)
Analysis of Variance Table

Response: log(MuteerereMaize)
      Df Sum Sq Mean Sq F value Pr(>F)
Blk     3 0.04551 0.015171   0.1022 0.9577
Treatment 6 1.38594 0.230990   1.5558 0.2201
Residuals 17 2.52402 0.148472
> mod_Mutasa_c<-lm(log(MuteerereMaize)~Blk+C1+C2+C3+C4+C5+C6,data=GrainFe)
> anova(mod_Mutasa_c)
Analysis of Variance Table

Response: log(MuteerereMaize)
      Df Sum Sq Mean Sq F value Pr(>F)
Blk     3 0.04551 0.01517   0.1022 0.95766
C1      1 0.11627 0.11627   0.7831 0.38854
C2      1 0.00691 0.00691   0.0466 0.83173
C3      1 0.62142 0.62142   4.1854 0.05657 .
C4      1 0.00112 0.00112   0.0076 0.93177
C5      1 0.11767 0.11767   0.7925 0.38576
C6      1 0.52255 0.52255   3.5195 0.07793 .
Residuals 17 2.52402 0.14847
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```

ANOVA output on effect of N on cowpea grain Fe concentration in Mutasa District

```

anova(mod_Mutasa_ln)
Analysis of Variance Table

Response: log(MuteerereCowpea)
      Df Sum Sq Mean Sq F value Pr(>F)
Blk     3 0.13607 0.045357   1.4875 0.2516
Treatment 6 0.38289 0.063815   2.0928 0.1050
Residuals 18 0.54885 0.030492
>
> mod_Mutasa_c<-
  lm(log(MuteerereCowpea)~Blk+C1+C2+C3+C4+C5+C6,data=GrainFe)
> anova(mod_Mutasa_c)
Analysis of Variance Table

Response: log(MuteerereCowpea)
      Df Sum Sq Mean Sq F value Pr(>F)
Blk     3 0.13607 0.045357   1.4875 0.25161
C1      1 0.02077 0.020767   0.6811 0.42002
C2      1 0.07509 0.075092   2.4627 0.13399

```

C3	1	0.01159	0.011593	0.3802	0.54522
C4	1	0.00162	0.001621	0.0532	0.82025
C5	1	0.06918	0.069183	2.2689	0.14934
C6	1	0.20463	0.204633	6.7111	0.18460
Residuals	18	0.54885	0.030492		

ANOVA output on effect of N on grain Fe concentration of the high Fe fingermillet “seedpool” in Mutasa

```
mod_Mutasa_ln<-lm(log(NyamhosvaHigh)~Blk+Treatment,data=GrainFe)
> anova(mod_Mutasa_ln)
Analysis of Variance Table

Response: log(NyamhosvaHigh)
          Df Sum Sq Mean Sq F value Pr(>F)
Blk        3  0.5787  0.19290   0.5925  0.6289
Treatment  6  1.5018  0.25030   0.7688  0.6053
Residuals 16  5.2091  0.32557
> mod_Mutasa_c<-lm(log(NyamhosvaHigh)~Blk+C1+C2+C3+C4+C5+C6,data=GrainFe)
> anova(mod_Mutasa_c)
Analysis of Variance Table

Response: log(NyamhosvaHigh)
          Df Sum Sq Mean Sq F value Pr(>F)
Blk        3  0.5787  0.19290   0.5925  0.6289
C1         1  0.4037  0.40373   1.2401  0.2819
C2         1  0.0566  0.05661   0.1739  0.6822
C3         1  0.2392  0.23920   0.7347  0.4040
C4         1  0.1290  0.12900   0.3962  0.5379
C5         1  0.6495  0.64946   1.9949  0.1770
C6         1  0.0238  0.02381   0.0731  0.7903
Residuals 16  5.2091  0.32557
```

ANOVA output on effect of N on grain Fe concentration of the low Fe fingermillet “seedpool” in Mutasa

```
mod_Mutasa_ln<-lm(log(NyamhosvaLow)~Blk+Treatment,data=GrainFe)
> anova(mod_Mutasa_ln)
Analysis of Variance Table

Response: log(NyamhosvaLow)
          Df Sum Sq Mean Sq F value Pr(>F)
Blk        3  0.35472  0.118241   1.9223  0.1622
Treatment  6  0.22852  0.038087   0.6192  0.7126
Residuals 18  1.10720  0.061511
> mod_Mutasa_c<-lm(log(NyamhosvaLow)~Blk+C1+C2+C3+C4+C5+C6,data=GrainFe)
> anova(mod_Mutasa_c)
Analysis of Variance Table

Response: log(NyamhosvaLow)
          Df Sum Sq Mean Sq F value Pr(>F)
Blk        3  0.35472  0.118241   1.9223  0.1622
C1         1  0.11739  0.117388   1.9084  0.1840
C2         1  0.04158  0.041578   0.6759  0.4217
C3         1  0.05268  0.052680   0.8564  0.3670
C4         1  0.01308  0.013077   0.2126  0.6503
C5         1  0.00237  0.002366   0.0385  0.8467
C6         1  0.00143  0.001435   0.0233  0.8803
Residuals 18  1.10720  0.061511
```