DATA PROC MIX;

INPUT TMT $ REP YLD;

CARDS;

|  |  |  |
| --- | --- | --- |
| F | 1 | 28.5 |
| D | 1 | 29.1 |
| A | 1 | 32.1 |
| B | 1 | 33.1 |
| E | 1 | 31.1 |
| C | 1 | 32.4 |
| E | 2 | 31 |
| B | 2 | 29.5 |
| C | 2 | 29.4 |
| F | 2 | 24.8 |
| D | 2 | 33 |
| A | 2 | 30.6 |
| D | 3 | 30.6 |
| E | 3 | 28.8 |
| F | 3 | 21.7 |
| C | 3 | 30.8 |
| A | 3 | 31.9 |
| B | 3 | 30.1 |
| C | 4 | 33.1 |
| A | 4 | 30.4 |
| B | 4 | 28.8 |
| D | 4 | 31.4 |
| F | 4 | 26.7 |
| E | 4 | 31.9 |
| B | 5 | 29.9 |
| F | 5 | 25.8 |
| E | 5 | 30.3 |
| A | 5 | 30.3 |
| C | 5 | 33.5 |
| D | 5 | 32.3 |
| A | 6 | 30.8 |
| C | 6 | 29.7 |
| D | 6 | 27.4 |
| E | 6 | 29.1 |
| B | 6 | 30.7 |
| F | 6 | 21.4 |

;

\*A=(NH4)2SO4, B=NH4NO3, C=CO(NH2)2, D=Ca(NO3)2, E=NaNO3, F=NONE;

RUN;

\*ANOVA FOR RANDOMIZED COMPLETE BLOCK WITH LSMEANS and t-test;

Title1'The influence of fertilizer source on yield of pecan';

Title2'Yield in Kg/tree';

Title3'ANOVA using the residual as the error term';

PROC MIXED;

CLASS TMT REP;

MODEL YLD=TMT;

RANDOM REP;

LSMEANS TMT/DIFF;

RUN;

PROC GLM;

CLASS TMT REP;

MODEL YLD=TMT REP;

MEANS TMT/LSD DUNCAN;

RUN;