```
1          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69         *AST  504
70
71         Sub-sampling .
72         Chapter  5,   from  Keuhl  .
73
74
75
76         ;
77         DATA  MYDATA  ;
78
79         SEED  =  19997 ;
80
81
82         DO  TRT  =  1 TO  3 ;
83         DO PLOT  =  1 TO  4 ;
84         PPP  =   2.8*RANNOR(SEED ) ;
85         DO PLANT  =  1 TO 6 ;
86
87         WT  =  1.2*  TRT  +  PPP  +   1.8*RANNOR(SEED ) ;
88         WT  = ROUND ( WT ,  .2 ) ;
89         OUTPUT;
90
91         END;
92         END;
93         END;
94
95
96
97         options  ls  =  79  formdlim  = '_';
98
99
100

NOTE: The data set WORK.MYDATA has 72 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.01 seconds
      memory              672.37k
      OS Memory           30372.00k
      Timestamp           12/13/2021 03:43:41 AM
      Step Count                        235  Switch Count  3
      Page Faults                       0
      Page Reclaims                     90
      Page Swaps                        0
      Voluntary Context Switches        17
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


101        proc  glm  data  = mydata ;
102        class trt  plot ;
103        model  wt  = trt    plot( trt )  / ss3 ;
104
105        test   h  =  trt   e  = plot( trt ) ;
106        means    trt  /  lsd  lines    e =  plot( trt ) ;
107
108        * plot nested in trt meaning they are random
109        e = plot (trt) reset the error term . Telling sas to use the error
109      ! df
```

```
110
111         class example
112         proc glm data
113         class spray tree
114         model wt = spray tree(spray)/ ss3 .. tree nested in spray
115         test h= spray e = tree (spray).... reset the error term again
116         means spray / lsd lines e = tree(spray)
117
118         ;
119         run;
```

NOTE: Means from the MEANS statement are not adjusted for other terms in the model. For adjusted means, use the LSMEANS statement.

```
120
121
122         OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
132
```