OPTIONS PS= **64** LS=**78** NODATE PAGENO=**1**;TITLE "EXEMPLO DE PIMENTEL GOMES";

**DATA** FAT3x3x3;

input

TRAT$ A B C REP BL RESP;

CARDS;

111 1 1 1 1 1 37

112 1 1 2 1 2 60.2

113 1 1 3 1 3 28.3

121 1 2 1 1 2 57.6

122 1 2 2 1 3 66.6

123 1 2 3 1 1 42.6

131 1 3 1 1 3 66.8

132 1 3 2 1 1 68.4

133 1 3 3 1 2 76

211 2 1 1 1 3 32.6

212 2 1 2 1 1 33.5

213 2 1 3 1 2 42.8

221 2 2 1 1 1 45.7

222 2 2 2 1 2 63.4

223 2 2 3 1 3 63.4

231 2 3 1 1 2 58.2

232 2 3 2 1 3 71.1

233 2 3 3 1 1 49.7

311 3 1 1 1 2 56.6

312 3 1 2 1 3 41.3

313 3 1 3 1 1 36.2

321 3 2 1 1 3 50.2

322 3 2 2 1 1 47.4

323 3 2 3 1 2 69.1

331 3 3 1 1 1 59

332 3 3 2 1 2 59.4

333 3 3 3 1 3 55.4

111 1 1 1 2 4 29.3

112 1 1 2 2 5 39.1

113 1 1 3 2 6 24.3

121 1 2 1 2 5 19.5

122 1 2 2 2 6 41.8

123 1 2 3 2 4 37

131 1 3 1 2 6 55.1

132 1 3 2 2 4 64.4

133 1 3 3 2 5 66

211 2 1 1 2 6 37

212 2 1 2 2 4 28.6

213 2 1 3 2 5 27.7

221 2 2 1 2 4 61.3

222 2 2 2 2 5 63

223 2 2 3 2 6 50.8

231 2 3 1 2 5 53.4

232 2 3 2 2 6 56.8

233 2 3 3 2 4 52.8

311 3 1 1 2 5 30.5

312 3 1 2 2 6 36.9

313 3 1 3 2 4 35.2

321 3 2 1 2 6 67.2

322 3 2 2 2 4 55.4

323 3 2 3 2 5 49.5

331 3 3 1 2 4 56.2

332 3 3 2 2 5 43.2

333 3 3 3 2 6 69.5

;

\*COM CONFUNDIMENTO, BLOCOS DE TAMANHO 9;

**proc** **glm**;

class A B C REP BL ;

model RESP =BL A B C A\*B A\*C B\*C A\*B\*C /SS1 ;

**run**;\*C B\*C A\*B\*C ;

**run**;

The GLM Procedure

Class Level Information

Class Levels Values

A 3 1 2 3

B 3 1 2 3

C 3 1 2 3

REP 2 1 2

BL 6 1 2 3 4 5 6

Number of Observations Read 54

Number of Observations Used 54

EXEMPLO DE PIMENTEL GOMES 2

Dependent Variable: RESP

Sum of

Source DF Squares Mean Square F Value Pr > F

Model 29 9237.39259 318.53078 5.10 <.0001

Error 24 1498.33556 62.43065

Corrected Total 53 10735.72815

R-Square Coeff Var Root MSE RESP Mean

0.860435 15.86136 7.901307 49.81481

Source DF Type I SS Mean Square F Value Pr > F

BL 5 1628.330370 325.666074 5.22 0.0022

A 2 42.508148 21.254074 0.34 0.7148

B 2 5251.404815 2625.702407 42.06 <.0001

C 2 160.380370 80.190185 1.28 0.2952

A\*B 4 1069.295185 267.323796 4.28 0.0094

A\*C 4 622.106296 155.526574 2.49 0.0700

B\*C 4 165.049630 41.262407 0.66 0.6251

A\*B\*C 6 298.317778 49.719630 0.80 0.5820