

Renumf90 parameter file beef

DATAFILE

example10.dat

TRAITS

7

#yw

FIELDS_PASSED TO OUTPUT

WEIGHT(S)

RESIDUAL_VARIANCE

751.13

EFFECT

4 cross alpha

#cg

EFFECT

14 cov

#AOB

EFFECT

1 cross alpha

#animal

RANDOM

animal

OPTIONAL

mat

FILE

example10.ped

(CO)VARIANCES

438.9 -35.8

-35.8 73.24

EFFECT

15 cross alpha

#sire-herd

RANDOM

diagonal

(CO)VARIANCES

242.12

Model

Y = CG + AOD + animal + maternal + sire-herd + e

Fixed effect = CG , AOD

Random effect = Animal, Maternal , Sire-herd

Variance componets

Animal = 438.9

Maternal = 73.24

Cov animal,maternal = -35.8

Sire-herd = 242.12

Residual = 751.13

Columns in example10.dat

1 animal

8 sire

2 CG_BW

9 dam

3 CG_WW

10 herd

4 CG_YW

11 age_BW

5 BW

12 age_WW

6 WW

13 age_YW

7 YW

14 AOD

15 sireXherd

16 YOBS

RENUMF90 parameter file

DATAFILE

example10.dat

TRAITS

7 #yw
 FIELDS_PASSED TO OUTPUT

WEIGHT(S)

RESIDUAL_VARIANCE

751.13

EFFECT

4 cross alpha #cg

EFFECT

14 cov #AOB

EFFECT

1 cross alpha #animal

RANDOM

animal

OPTIONAL

mat

FILE

example10.ped

(CO)VARIANCES

438.9 -35.8**-35.8 73.24**

EFFECT

15 cross alpha #sire-herd

RANDOM

diagonal

(CO)VARIANCES

242.12**BLUPF90 parameter file**

DATAFILE

renf90.dat

NUMBER_OF_TRAITS

1

NUMBER_OF_EFFECTS

5

OBSERVATION(S)

1

WEIGHT(S)

EFFECTS: POSITIONS_IN_DATAFILE NUMBER_OF_LEVELS

TYPE_OF_EFFECT[EFFECT NESTED]

2 3130 cross

3 1 cov

4 43299 cross

5 43299 cross

6 3098 cross

RANDOM_RESIDUAL_VALUES

751.13

RANDOM_GROUP

3 4

RANDOM_TYPE

add_animal

FILE

renadd03.ped

(CO)VARIANCES

438.90 -35.800

-35.800 73.240

RANDOM_GROUP

5

RANDOM_TYPE

diagonal

FILE

(CO)VARIANCES

242.12

RENUMF90 parameter file YW

DATAFILE

example10.dat

TRAITS

7 #yw
FIELDS_PASSED TO OUTPUT

WEIGHT(S)

RESIDUAL_VARIANCE

751.13

EFFECT

4 cross alpha #cg

EFFECT

14 cov #AOB

EFFECT

1 cross alpha #animal

RANDOM

animal

OPTIONAL

mat

FILE

example10.ped

(CO)VARIANCES

438.9 -35.8

-35.8 73.24

EFFECT

15 cross alpha #sire-herd

RANDOM

diagonal

(CO)VARIANCES

242.12

Multiple trait RENUMF90 parameter file – BW WW YW

DATAFILE

example10.dat

TRAITS

5 6 7 # bw ww yw
FIELDS_PASSED TO OUTPUT

WEIGHT(S)

RESIDUAL_VARIANCE

22.92 28.79 85.95

28.79 207.58 180.90

85.95 180.90 488.42

EFFECT

2 3 4 cross alpha #cg

EFFECT

14 14 14 cov #AOB

EFFECT

1 1 1 cross alpha #animal

RANDOM

animal

OPTIONAL

mat

FILE

example10.ped

(CO)VARIANCES

32.79 -7.22 -11.07 -8.59 -0.35 -0.68

-7.22 258.06 87.66 4.55 21.57 29.92

-11.07 87.66 194.34 4.54 23.12 26.67

-8.59 4.55 4.54 46.91 0.60 -0.08

-0.35 21.57 23.12 0.60 132.24 29.95

-0.68 29.92 26.67 -0.08 29.95 132.65

EFFECT

15 15 15 cross alpha #sire-herd

RANDOM

diagonal

(CO)VARIANCES

9.61 3.42 2.36

3.42 224.03 148.26

2.36 148.26 242.12