**MODEL RESULTS**

**RESPIRATION**

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 0.076903 0.016002 27.370863 4.806 4.97e-05 \*\*\*

Water\_content 0.046475 0.007615 40.919731 6.103 3.11e-07 \*\*\*

Clay -0.017313 0.024367 9.447961 -0.711 0.4946

BIX -0.076658 0.015196 43.915041 -5.045 8.35e-06 \*\*\*

Aridity -0.015340 0.029325 16.210314 -0.523 0.6080

BIX:Aridity 0.107864 0.022287 42.437574 4.840 1.75e-05 \*\*\*

Clay:Aridity -0.157267 0.061295 8.083260 -2.566 0.0331 \*

**R2 = 0.98**

General Dominance Statistics:

General Dominance Standardized Ranks

set1 0.06633081 0.11090578 2

set2 0.03886190 0.06497749 5

set3 0.05480671 0.09163737 4

set4 0.05899963 0.09864798 3

set5 0.03311852 0.05537450 6

set6 0.34596497 0.57845689 1

Components of sets:

set1 : Water\_content

set2 : Clay

set3 : BIX

set4 : Aridity

set5 : BIX:Aridity

set6 : Clay:Aridity

**MICROBIAL BIOMASSES**

Estimate Std. Error df t value Pr(>|t|)

(Intercept) -2.1167 0.3619 11.5584 -5.848 9.13e-05 \*\*\*

TC 1.5942 0.6021 47.9740 2.648 0.01093 \*

Peak\_B -1.1765 0.3517 47.1952 -3.345 0.00162 \*\*

Water\_content 0.7807 0.3548 9.4654 2.200 0.05387 .

C\_N -0.7123 0.4589 46.8186 -1.552 0.12737

Silt -0.7603 0.4450 7.7390 -1.709 0.12716

Clay 0.7998 0.5028 14.0456 1.591 0.13391

PO43 0.8780 0.4191 12.3501 2.095 0.05742 .

Peak\_C 0.4901 0.2968 37.1016 1.651 0.10711

**R2 = 0.91**

General Dominance Statistics:

General Dominance Standardized Ranks

set1 0.16376652 0.20053088 3

set2 0.06816352 0.08346572 5

set3 0.20469265 0.25064463 1

set4 0.03276086 0.04011543 6

set5 0.01810851 0.02217373 8

set6 0.18989803 0.23252873 2

set7 0.11293742 0.13829103 4

set8 0.02633731 0.03224985 7

Components of sets:

set1 : TC

set2 : Peak\_B

set3 : Water\_content

set4 : C\_N

set5 : Silt

set6 : Clay

set7 : PO43

set8 : Peak\_C

**GLA**

Estimate Std. Error df t value Pr(>|t|)

(Intercept) -3.0917 0.9459 10.8508 -3.269 0.00761 \*\*

Water\_content 2.7119 0.8680 24.3420 3.124 0.00456 \*\*

SR -2.7188 0.9104 36.3695 -2.986 0.00503 \*\*

Soil\_Temp 4.6600 1.3286 12.2407 3.507 0.00420 \*\*

C\_N -2.8163 0.8928 39.5483 -3.154 0.00307 \*\*

altitude -1.3774 0.6861 9.0296 -2.008 0.07552 .

pH -2.6969 1.3360 21.5017 -2.019 0.05616 .

TC 2.4273 1.0586 35.6558 2.293 0.02786 \*

**R2 = 0.75**

General Dominance Statistics:

General Dominance Standardized Ranks

set1 0.22585311 0.35393072 1

set2 0.06303780 0.09878551 5

set3 0.04803571 0.07527598 6

set4 0.08142756 0.12760381 3

set5 0.01163089 0.01822658 7

set6 0.13508588 0.21169087 2

set7 0.07305707 0.11448654 4

Components of sets:

set1 : Water\_content

set2 : SR

set3 : Soil\_Temp

set4 : C\_N

set5 : altitude

set6 : pH

set7 : TC

**FOS**

Estimate Std. Error df t value Pr(>|t|)

(Intercept) -2.4217 0.3402 5.7883 -7.117 0.000454 \*\*\*

SOM 3.9182 0.8688 45.3664 4.510 4.55e-05 \*\*\*

Litter 1.3187 0.4263 25.1054 3.094 0.004802 \*\*

PO43 -3.7087 0.6145 8.6102 -6.036 0.000232 \*\*\*

BB 2.2058 0.6803 46.7365 3.242 0.002190 \*\*

Clay -2.9745 0.7586 11.7605 -3.921 0.002108 \*\*

Silt 1.6177 0.5237 5.9344 3.089 0.021729 \*

**R2 = 0.71**

General Dominance Statistics:

General Dominance Standardized Ranks

set1 0.22208487 0.35261279 1

set2 0.08328740 0.13223864 4

set3 0.12839352 0.20385538 2

set4 0.12274067 0.19488014 3

set5 0.04230701 0.06717249 5

set6 0.03101302 0.04924057 6

Components of sets:

set1 : SOM

set2 : Litter

set3 : PO43

set4 : BB

set5 : Clay

set6 : Silt

**LEU**

Estimate Std. Error df t value Pr(>|t|)

(Intercept) -6.0611 0.3266 11.4516 -18.561 6.66e-10 \*\*\*

TC 2.7121 0.3655 15.0177 7.419 2.13e-06 \*\*\*

pH 3.4298 0.5047 16.2063 6.796 4.02e-06 \*\*\*

C\_N -2.9380 0.8161 27.5298 -3.600 0.00124 \*\*

**R2 = 0.84**

General Dominance Statistics:

General Dominance Standardized Ranks

set1 0.39167290 0.49719238 1

set2 0.36289716 0.46066425 2

set3 0.03319925 0.04214337 3

Components of sets:

set1 : TC

set2 : pH

set3 : C\_N

**PHE**

Estimate Std. Error df t value Pr(>|t|)

(Intercept) -0.7487 1.5151 16.5698 -0.494 0.62770

LTC\_LTN -4.1917 1.3513 47.5725 -3.102 0.00323 \*\*

TC 5.5316 1.6617 25.4117 3.329 0.00267 \*\*

SOM -4.5886 1.5889 42.0745 -2.888 0.00610 \*\*

Water\_content 4.3380 1.2257 15.3082 3.539 0.00289 \*\*

Peak\_B 2.6622 1.1029 32.1771 2.414 0.02165 \*

E4.E6 0.5601 0.2577 49.4710 2.174 0.03452 \*

HIX 1.5347 0.9187 36.8307 1.671 0.10329

Soil\_Temp 2.7436 1.8008 8.8525 1.524 0.16252

**R2 = 0.66**

General Dominance Statistics:

General Dominance Standardized Ranks

set1 0.09932115 0.20324850 2

set2 0.14676252 0.30033140 1

set3 0.04279879 0.08758245 5

set4 0.04866349 0.09958383 4

set5 0.08415868 0.17222036 3

set6 0.02003721 0.04100367 7

set7 0.01669874 0.03417191 8

set8 0.03022800 0.06185788 6

Components of sets:

set1 : LTC\_LTN

set2 : TC

set3 : SOM

set4 : Water\_content

set5 : Peak\_B

set6 : E4.E6

set7 : HIX

set8 : Soil\_Temp

**XYLCBH**

Estimate Std. Error df t value Pr(>|t|)

(Intercept) -0.071551 0.052989 47.450701 -1.350 0.183323

L\_TN 0.077856 0.054812 47.259028 1.420 0.162051

HIX 0.025529 0.007815 31.570905 3.266 0.002626 \*\*

Aridity 0.117713 0.085580 46.830058 1.375 0.175528

C\_N -0.053163 0.014602 47.439537 -3.641 0.000670 \*\*\*

Soil\_Temp 0.079326 0.023698 16.996389 3.347 0.003819 \*\*

E4.E6 0.006034 0.002429 46.677021 2.484 0.016619 \*

Silt -0.067635 0.025447 12.014522 -2.658 0.020856 \*

FB -0.098543 0.026691 47.996438 -3.692 0.000568 \*\*\*

TC 0.128750 0.026488 46.646800 4.861 1.36e-05 \*\*\*

L\_TN:Aridity -0.218970 0.084588 47.953397 -2.589 0.012716 \*

Aridity:Silt 0.105741 0.039694 10.408433 2.664 0.022997 \*

**R2 = 0.69**

General Dominance Statistics:

General Dominance Standardized Ranks

set1 0.068931342 0.125142070 4

set2 0.071544474 0.129886107 3

set3 0.057157278 0.103766732 5

set4 0.027016446 0.049047268 8

set5 0.046270693 0.084002577 7

set6 0.002966601 0.005385744 11

set7 0.021140506 0.038379735 10

set8 0.026952261 0.048930742 9

set9 0.072253396 0.131173126 2

set10 0.047069475 0.085452732 6

set11 0.109522217 0.198833166 1

Components of sets:

set1 : L\_TN

set2 : HIX

set3 : Aridity

set4 : C\_N

set5 : Soil\_Temp

set6 : E4.E6

set7 : Silt

set8 : FB

set9 : TC

set10 : L\_TN:Aridity

set11 : Aridity:Silt

**ALPHABETA**

Estimate Std. Error df t value Pr(>|t|)

(Intercept) -14.1157 3.7952 14.5348 -3.719 0.002158 \*\*

Silt -2.2440 1.1426 4.1850 -1.964 0.117870

L\_TN 10.5885 3.1343 28.0146 3.378 0.002159 \*\*

HIX -2.8498 1.9508 7.6600 -1.461 0.183823

Soil\_Temp 4.2260 1.4455 10.0895 2.924 0.015074 \*

C\_N 28.2819 9.7613 27.7308 2.897 0.007268 \*\*

SR -6.3316 2.5038 14.4143 -2.529 0.023682 \*

FB -0.1939 1.4083 26.6825 -0.138 0.891528

PO43 0.8349 1.1391 4.5403 0.733 0.499621

Water\_content 7.0849 1.4043 21.2758 5.045 5.19e-05 \*\*\*

SO42 2.8336 1.8412 27.7824 1.539 0.135127

Aridity 11.8466 6.4940 17.2642 1.824 0.085471 .

E4.E6 0.4820 0.2036 16.8446 2.367 0.030192 \*

BIX -0.5492 3.6559 8.8654 -0.150 0.883959

LTC\_LTN 1.3964 0.7658 24.7521 1.823 0.080348 .

Litter -2.0505 0.9495 14.8360 -2.159 0.047611 \*

BB -1.6496 0.8975 28.4074 -1.838 0.076537 .

SOM -2.3494 1.1465 26.6814 -2.049 0.050404 .

NH4 1.0468 0.6712 26.5685 1.560 0.130662

C\_N:Aridity -40.0626 11.7715 26.2586 -3.403 0.002147 \*\*

PO43:Aridity -10.9201 5.9143 24.6734 -1.846 0.076869 .

L\_TN:Aridity -18.0715 4.6347 28.9006 -3.899 0.000528 \*\*\*

HIX:Aridity 8.6386 3.5391 7.6656 2.441 0.041779 \*

SO42:Aridity -2.8867 2.3651 26.5345 -1.221 0.232987

Aridity:Litter 4.6042 1.4857 26.3594 3.099 0.004577 \*\*

Aridity:BIX 2.8552 4.5211 7.6742 0.632 0.546041

SR:Aridity 9.3433 4.3304 16.5037 2.158 0.046013 \*

**R2 = 0.92**

**ALPHABETA TOTA JUNTA (ordenada per general dominance; els vermells són els del set de variables 2):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| General | Dominance | Standardized | Ranks |  |
| set-04 | 0.140077 | 0.311626 | 1 | Stemp |
| set-01 | 0.098477 | 0.21908 | 2 | Silt |
| set-06 | 0.079096 | 0.234026 | 1 | HIX:Aridity |
| set-09 | 0.072827 | 0.162017 | 3 | Aridity |
| set-03 | 0.064441 | 0.190664 | 2 | C\_N:Aridity |
| set-06 | 0.061969 | 0.137862 | 4 | SR |
| set-05 | 0.055092 | 0.122563 | 5 | C\_N |
| set-05 | 0.051646 | 0.152807 | 3 | L\_TN:Aridity |
| set-10 | 0.050568 | 0.149619 | 4 | SR:Aridity |
| set-09 | 0.037695 | 0.111529 | 5 | BIX:Aridity |
| set-08 | 0.025323 | 0.074924 | 6 | Litter:Aridity |
| set-02 | 0.019906 | 0.044284 | 6 | L\_TN |
| set-01 | 0.017611 | 0.052107 | 7 | FB |
| set-04 | 0.016054 | 0.0475 | 8 | PO43:Aridity |
| set-10 | 0.010879 | 0.024203 | 7 | E4.E6 |
| set-03 | 0.008084 | 0.017985 | 8 | HIX |
| set-14 | 0.006452 | 0.014355 | 9 | SOM |
| set-08 | 0.00613 | 0.013636 | 10 | SO42 |
| set-07 | 0.001606 | 0.004753 | 9 | SO42:Aridity |
| set-11 | -0.00063 | -0.00141 | 11 | LTC\_LTN |
| set-15 | -0.00145 | -0.00323 | 12 | NH4 |
| set-12 | -0.00293 | -0.00651 | 13 | Litter |
| set-13 | -0.0041 | -0.00912 | 14 | BB |
| set-02 | -0.00606 | -0.01793 | 10 | PO43 |
| set-07 | -0.02128 | -0.04735 | 15 | WC |

***Faig la dominance per separate perquè sinó em peta l’ordinador:***

***ALPHABETA 1)***

General Dominance Standardized Ranks

set1 0.0984771294 0.219080147 2

set2 0.0199058800 0.044284223 6

set3 0.0080841688 0.017984692 8

set4 0.1400768649 0.311626266 1

set5 0.0550923756 0.122562932 5

set6 0.0619693408 0.137861982 4

set7 -0.0212837411 -0.047349523 15

set8 0.0061295825 0.013636362 10

set9 0.0728270487 0.162016913 3

set10 0.0108791784 0.024202696 7

set11 -0.0006336764 -0.001409727 11

set12 -0.0029253472 -0.006507963 13

set13 -0.0040987124 -0.009118325 14

set14 0.0064524577 0.014354657 9

set15 -0.0014497950 -0.003225331 12

Components of sets:

set1 : Silt

set2 : L\_TN

set3 : HIX

set4 : Soil\_Temp

set5 : C\_N

set6 : SR

set7 : Water\_content

set8 : SO42

set9 : Aridity

set10 : E4.E6

set11 : LTC\_LTN

set12 : Litter

set13 : BB

set14 : SOM

set15 : NH4

***ALPHABETA 2)***

General Dominance Statistics:

General Dominance Standardized Ranks

set1 0.017610948 0.052106550 7

set2 -0.006059152 -0.017927570 10

set3 0.064440553 0.190664061 2

set4 0.016053932 0.047499715 8

set5 0.051645673 0.152807095 3

set6 0.079095891 0.234025672 1

set7 0.001606414 0.004752993 9

set8 0.025322667 0.074923667 6

set9 0.037694572 0.111529152 5

set10 0.050568049 0.149618665 4

Components of sets:

set1 : FB

set2 : PO43

set3 : C\_N:Aridity

set4 : PO43:Aridity

set5 : L\_TN:Aridity

set6 : HIX:Aridity

set7 : SO42:Aridity

set8 : Aridity:Litter

set9 : Aridity:BIX

set10 : SR:Aridity