

- 1 **Apéndice 1. Variación de la riqueza y abundancia de los escarabajos coprófagos por temporadas y hábitats en la Reserva**
- 2 **Campesina la Montaña, Atlántico, Colombia. Abreviaturas: cultivos (C), potreros (P), cercas vivas (CV), fragmento de bosque (B).**

| Especies                                              | Primeras lluvias |       |       |       | Total | Lluvias |     |     |       | Total | Seca |    |    |     | Total |
|-------------------------------------------------------|------------------|-------|-------|-------|-------|---------|-----|-----|-------|-------|------|----|----|-----|-------|
|                                                       | C                | P     | CV    | B     |       | C       | P   | CV  | B     |       | C    | P  | CV | B   |       |
| <i>Ateuchus</i> sp. 1                                 | 0                | 1     | 35    | 0     | 36    | 1       | 2   | 5   | 0     | 8     | 0    | 0  | 0  | 0   | 0     |
| <i>Canthidium</i> sp.1                                | 8                | 7     | 67    | 168   | 250   | 29      | 0   | 5   | 0     | 34    | 0    | 2  | 0  | 0   | 2     |
| <i>Canthon cyanellus</i> (Harold, 1863)               | 0                | 10    | 5     | 80    | 95    | 0       | 2   | 0   | 8     | 10    | 0    | 0  | 0  | 0   | 0     |
| <i>Canthon juvencus</i> (Harold, 1868)                | 0                | 65    | 59    | 52    | 176   | 21      | 70  | 31  | 53    | 175   | 1    | 1  | 6  | 5   | 13    |
| <i>Canthon lituratus</i> (Germar, 1813)               | 97               | 165   | 392   | 11    | 665   | 26      | 41  | 1   | 0     | 68    | 0    | 1  | 0  | 0   | 1     |
| <i>Canthon</i> aff. <i>morsei</i> (Howden, 1966)      | 0                | 0     | 67    | 1,786 | 1,853 | 0       | 0   | 74  | 1,148 | 1,222 | 0    | 0  | 2  | 156 | 158   |
| <i>Canthon mutabilis</i> (Lucas, 1857)                | 113              | 57    | 1     | 0     | 171   | 30      | 8   | 0   | 0     | 38    | 0    | 0  | 0  | 0   | 0     |
| <i>Canthon septemmaculatus</i> (Latreille, 1811)      | 0                | 58    | 4     | 0     | 62    | 0       | 48  | 1   | 0     | 49    | 0    | 0  | 0  | 0   | 0     |
| <i>Coprophanaeus gamezi</i> (Arnaud, 2002)            | 9                | 22    | 27    | 6     | 64    | 21      | 18  | 16  | 1     | 56    | 0    | 0  | 0  | 0   | 0     |
| <i>Deltochilum guildingii</i> (Westwood, 1835)        | 6                | 11    | 9     | 31    | 57    | 0       | 6   | 5   | 6     | 17    | 0    | 0  | 0  | 1   | 1     |
| <i>Diabroctis cadmus</i> (Harold, 1868)               | 0                | 0     | 1     | 0     | 1     | 0       | 13  | 1   | 0     | 14    | 0    | 0  | 0  | 0   | 0     |
| <i>Dichotomius amicitiae</i> (Kohlmann y Solís, 1997) | 1                | 1     | 0     | 0     | 2     | 0       | 1   | 1   | 0     | 2     | 0    | 0  | 0  | 0   | 0     |
| <i>Dichotomius annae</i> (Kohlmann y Solís, 1997)     | 0                | 2     | 0     | 0     | 2     | 0       | 0   | 0   | 0     | 0     | 0    | 0  | 0  | 0   | 0     |
| <i>Dichotomius costaricensis</i> (Luederwalt, 1935)   | 0                | 0     | 0     | 0     | 0     | 0       | 0   | 1   | 0     | 1     | 0    | 0  | 0  | 0   | 0     |
| <i>Dichotomius</i> aff. <i>agenor</i> (Bates, 1887)   | 59               | 110   | 201   | 66    | 436   | 15      | 12  | 17  | 1     | 45    | 0    | 0  | 0  | 0   | 0     |
| <i>Digintonthophagus gazella</i> (Fabricius, 1787)    | 0                | 2     | 0     | 0     | 2     | 2       | 1   | 0   | 0     | 3     | 0    | 1  | 0  | 0   | 1     |
| <i>Eurysternus impresicollis</i> (Dalman, 1824)       | 16               | 5     | 102   | 36    | 159   | 25      | 60  | 36  | 9     | 130   | 9    | 3  | 9  | 37  | 58    |
| <i>Eurysternus mexicanus</i> (Harold, 1869)           | 2                | 1     | 9     | 17    | 29    | 0       | 6   | 5   | 3     | 14    | 1    | 3  | 2  | 42  | 48    |
| <i>Eurysternus plebejus</i> (Harold, 1880)            | 0                | 0     | 0     | 1     | 1     | 0       | 0   | 0   | 0     | 0     | 0    | 0  | 0  | 0   | 0     |
| <i>Onthophagus landolti</i> (Harold, 1880)            | 1                | 0     | 6     | 11    | 18    | 0       | 2   | 0   | 0     | 2     | 0    | 0  | 0  | 0   | 0     |
| <i>Onthophagus lebasii</i> (Boucomont, 1932)          | 2                | 26    | 104   | 287   | 419   | 19      | 40  | 98  | 115   | 272   | 0    | 0  | 0  | 3   | 3     |
| <i>Onthophagus marginicollis</i> (Harold, 1880)       | 56               | 456   | 683   | 511   | 1,706 | 47      | 105 | 145 | 97    | 394   | 0    | 0  | 0  | 0   | 0     |
| <i>Phanaeus hermes</i> (Harold, 1868)                 | 0                | 0     | 5     | 3     | 8     | 0       | 2   | 8   | 1     | 11    | 0    | 0  | 0  | 0   | 0     |
| <i>Phanaeus prasinus</i> (Harold, 1868)               | 0                | 0     | 1     | 1     | 2     | 0       | 0   | 2   | 0     | 2     | 0    | 0  | 0  | 0   | 0     |
| <i>Pseudocanthion perplexus</i> (LeConte, 1847)       | 0                | 0     | 1     | 0     | 1     | 0       | 0   | 0   | 0     | 0     | 0    | 0  | 0  | 0   | 0     |
| <i>Uroxys boneti</i> (Pereira y Halfpeter, 1961 )     | 0                | 0     | 4     | 233   | 237   | 0       | 0   | 0   | 135   | 135   | 0    | 0  | 0  | 71  | 71    |
| <i>Uroxys deavilai</i> (Delgado y Kohlmann, 2007)     | 213              | 472   | 854   | 1,383 | 2,922 | 417     | 271 | 461 | 449   | 1,598 | 3    | 2  | 3  | 44  | 52    |
| <i>Trichillidium pilosum</i> (Robinson, 1948)         | 0                | 0     | 0     | 1     | 1     | 0       | 0   | 0   | 0     | 0     | 0    | 0  | 0  | 0   | 0     |
| Número de especies                                    | 13               | 18    | 22    | 19    | 27    | 12      | 19  | 19  | 13    | 24    | 4    | 7  | 5  | 8   | 11    |
| Número de individuos                                  | 583              | 1,471 | 2,637 | 4,684 | 9,375 | 653     | 708 | 913 | 2,026 | 4,300 | 14   | 13 | 22 | 359 | 408   |

- 3 **Apéndice 2. Variación de la riqueza y abundancia de los escarabajos coprófagos por**  
 4 **temporadas y hábitats en Corrales de San Luis, Atlántico, Colombia. Abreviaturas: cultivos**  
 5 **(C), potreros (P), cercas vivas (CV), fragmento de bosque (B).**

| Especies                                              | Primeras lluvias |     |     |     | Total | Lluvias |    |    |    | Total | Seca |   |    |    | Total |
|-------------------------------------------------------|------------------|-----|-----|-----|-------|---------|----|----|----|-------|------|---|----|----|-------|
|                                                       | C                | P   | CV  | B   |       | C       | P  | CV | B  |       | C    | P | CV | B  |       |
| <i>Canthidium</i> sp.1                                | 9                | 10  | 86  | 111 | 216   | 5       | 1  | 20 | 1  | 27    | 0    | 0 | 0  | 0  | 0     |
| <i>Canthon cyanellus</i> (Harold, 1863)               | 0                | 2   | 2   | 38  | 42    | 0       | 0  | 0  | 8  | 8     | 0    | 0 | 0  | 0  | 0     |
| <i>Canthon juvenicus</i> (Harold, 1868)               | 1                | 12  | 9   | 74  | 96    | 23      | 19 | 10 | 38 | 90    | 0    | 0 | 0  | 0  | 0     |
| <i>Canthon lituratus</i> (Germar, 1813)               | 115              | 17  | 288 | 15  | 435   | 20      | 1  | 6  | 0  | 27    | 0    | 0 | 0  | 0  | 0     |
| <i>Canthon</i> aff. <i>morsei</i> (Howden, 1966)      | 0                | 1   | 12  | 70  | 83    | 0       | 0  | 17 | 32 | 49    | 0    | 0 | 1  | 17 | 18    |
| <i>Canthon mutabilis</i> (Lucas, 1857)                | 26               | 12  | 8   | 1   | 47    | 24      | 17 | 11 | 9  | 61    | 0    | 0 | 0  | 0  | 0     |
| <i>Canthon septemmaculatus</i> (Latreille, 1811)      | 83               | 68  | 220 | 73  | 444   | 31      | 6  | 39 | 9  | 85    | 0    | 0 | 0  | 0  | 0     |
| <i>Coprophanaeus gamezi</i> (Arnaud, 2002)            | 24               | 8   | 15  | 34  | 81    | 1       | 0  | 4  | 5  | 10    | 0    | 0 | 0  | 0  | 0     |
| <i>Deltotilum guildingii</i> (Westwood, 1835)         | 0                | 1   | 6   | 13  | 20    | 1       | 0  | 0  | 9  | 10    | 0    | 0 | 0  | 0  | 0     |
| <i>Diabroctis cadmus</i> (Harold, 1868)               | 2                | 6   | 1   | 1   | 10    | 0       | 0  | 0  | 0  | 0     | 0    | 0 | 0  | 0  | 0     |
| <i>Diabroctis</i> sp.1                                | 0                | 0   | 0   | 1   | 1     | 0       | 0  | 0  | 0  | 0     | 0    | 0 | 0  | 0  | 0     |
| <i>Dichotomius amicitiae</i> (Kohlmann y Solís, 1997) | 1                | 0   | 0   | 0   | 1     | 0       | 0  | 0  | 0  | 0     | 0    | 0 | 0  | 0  | 0     |
| <i>Dichotomius annae</i> (Kohlmann y Solís, 1997)     | 0                | 1   | 0   | 0   | 1     | 0       | 0  | 0  | 0  | 0     | 0    | 0 | 0  | 0  | 0     |
| <i>Dichotomius costaricensis</i> (Luederwalt, 1935)   | 1                | 0   | 0   | 0   | 1     | 0       | 0  | 0  | 0  | 0     | 0    | 0 | 0  | 0  | 0     |
| <i>Dichotomius</i> aff. <i>agenor</i> (Bates, 1887)   | 132              | 120 | 325 | 353 | 930   | 1       | 2  | 14 | 8  | 25    | 0    | 0 | 0  | 0  | 0     |
| <i>Digintonthophagus gazella</i> (Fabricius, 1787)    | 11               | 17  | 7   | 0   | 35    | 2       | 2  | 1  | 0  | 5     | 0    | 0 | 5  | 0  | 5     |
| <i>Eurysternus impresicollis</i> (Dalman, 1824)       | 7                | 1   | 21  | 5   | 34    | 3       | 5  | 19 | 27 | 54    | 2    | 4 | 0  | 1  | 7     |
| <i>Onthophagus landolti</i> (Harold, 1880)            | 11               | 2   | 44  | 77  | 134   | 0       | 1  | 0  | 0  | 1     | 0    | 0 | 0  | 0  | 0     |
| <i>Onthophagus lebasii</i> (Boucomont, 1932)          | 0                | 4   | 64  | 67  | 135   | 23      | 5  | 73 | 23 | 124   | 0    | 0 | 0  | 2  | 2     |
| <i>Onthophagus marginicollis</i>                      | 2                | 2   | 45  | 27  | 1,2   | 7       | 9  | 1  | 1  | 36    | 0    | 0 | 0  | 0  | 0     |

|                                                   |             |             |           |           |           |             |             |             |             |           |   |   |        |        |    |
|---------------------------------------------------|-------------|-------------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|-----------|---|---|--------|--------|----|
| (Harold, 1880)                                    | 6<br>0      | 8<br>5      | 6         | 1         | 72        | 7           | 7           | 7<br>3      | 7           | 4         |   |   |        |        |    |
| <i>Phanaeus hermes</i> (Harold, 1868)             | 4           | 0           | 22        | 11<br>0   | 13<br>6   | 1           | 0           | 0           | 1<br>2      | 13        | 0 | 0 | 0      | 0      | 0  |
| <i>Phanaeus prasinus</i> (Harold, 1868)           | 0           | 0           | 12        | 48        | 60        | 0           | 0           | 0           | 7           | 7         | 0 | 0 | 0      | 0      | 0  |
| <i>Pseudocanthion perplexus</i> (LeConte, 1847)   | 3           | 0           | 0         | 0         | 3         | 0           | 0           | 0           | 0           | 0         | 0 | 0 | 0      | 0      | 0  |
| <i>Uroxys boneti</i> (Pereira y Halffter, 1961)   | 0           | 0           | 0         | 1         | 1         | 0           | 4           | 1           | 1<br>2      | 17        | 0 | 0 | 0      | 2      | 2  |
| <i>Uroxys deavilai</i> (Delgado y Kolhmann, 2007) | 1<br>3      | 4<br>4      | 14<br>7   | 53<br>1   | 73<br>5   | 5<br>3      | 2           | 1<br>7<br>8 | 2<br>0<br>8 | 44<br>1   | 1 | 0 | 5      | 5<br>7 | 63 |
| Número de especies                                | 1<br>7      | 1<br>8      | 19        | 20        | 25        | 1<br>4      | 1<br>3      | 1<br>4      | 1<br>6      | 19        | 2 | 1 | 3      | 5      | 6  |
| Número de individuos                              | 7<br>0<br>3 | 6<br>1<br>1 | 1,7<br>45 | 1,8<br>94 | 4,9<br>53 | 2<br>6<br>5 | 1<br>6<br>2 | 5<br>6<br>6 | 4<br>2<br>5 | 1,4<br>18 | 3 | 4 | 1<br>1 | 7<br>9 | 97 |

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- 7 **Apéndice 3. Variación de la riqueza y abundancia de los escarabajos coprófagos por**
- 8 **temporadas y hábitats en la Reserva Bijibana, Atlántico, Colombia. Abreviaturas: cultivos**
- 9 **(C), potreros (P), cercas vivas (CV), fragmento de bosque (B).**

| Especies                                         | Primeras lluvias |             |         |          | To tal    | Lluvias     |        |         |          | To tal    | Seca |   |     |        | To tal |
|--------------------------------------------------|------------------|-------------|---------|----------|-----------|-------------|--------|---------|----------|-----------|------|---|-----|--------|--------|
|                                                  | C                | P           | C V     | B        |           | C           | P      | C V     | B        |           | C    | P | C V | B      |        |
| <i>Ateuchus</i> sp. 1                            | 0                | 0           | 0       | 1        | 1         | 6           | 0      | 0       | 0        | 6         | 0    | 0 | 0   | 0      | 0      |
| <i>Canthidium</i> sp.1                           | 15               | 4<br>5      | 14<br>4 | 13       | 21<br>7   | 4<br>0      | 1<br>0 | 12<br>6 | 20       | 19<br>6   | 2    | 0 | 1   | 2      | 5      |
| <i>Canthon aequinoctialis</i> (Harold, 1868)     | 0                | 0           | 0       | 22<br>7  | 22<br>7   | 1           | 1      | 0       | 22<br>9  | 23<br>1   | 0    | 0 | 0   | 1<br>6 | 16     |
| <i>Canthon cyanellus</i> (Harold, 1863)          | 0                | 1           | 7       | 6        | 14        | 0           | 1      | 9       | 8        | 18        | 0    | 0 | 0   | 0      | 0      |
| <i>Canthon juvenecus</i> (Harold, 1868)          | 9                | 1<br>0      | 84      | 29<br>5  | 39<br>8   | 2<br>9      | 1<br>8 | 16<br>2 | 67<br>9  | 88<br>8   | 5    | 0 | 2   | 5      | 12     |
| <i>Canthon lituratus</i> (Germar, 1813)          | 88               | 5<br>1      | 11<br>0 | 31       | 28<br>0   | 3<br>5      | 1<br>8 | 0       | 0        | 53        | 0    | 0 | 0   | 0      | 0      |
| <i>Canthon</i> aff. <i>morsei</i> (Howden, 1966) | 0                | 0           | 8       | 20<br>87 | 2,0<br>95 | 4           | 5      | 30      | 12<br>01 | 1,2<br>40 | 2    | 1 | 0   | 8<br>5 | 88     |
| <i>Canthon mutabilis</i> (Lucas, 1857)           | 35<br>6          | 2<br>6<br>8 | 90      | 1        | 71<br>5   | 1<br>4<br>7 | 4<br>4 | 12      | 0        | 20<br>3   | 1    | 0 | 0   | 0      | 1      |
| <i>Canthon septemmaculatus</i> (Latreille, 1811) | 21<br>9          | 9<br>3      | 10<br>1 | 6        | 41<br>9   | 1<br>3<br>9 | 8<br>8 | 56      | 0        | 28<br>3   | 0    | 0 | 0   | 0      | 0      |
| <i>Coprophanæus gamezi</i>                       | 10               | 2           | 4       | 2        | 18        | 0           | 3      | 4       | 0        | 7         | 0    | 0 | 0   | 0      | 0      |

|                                                       |           |             |           |           |           |             |             |           |           |           |        |        |        |             |         |
|-------------------------------------------------------|-----------|-------------|-----------|-----------|-----------|-------------|-------------|-----------|-----------|-----------|--------|--------|--------|-------------|---------|
| (Arnaud, 2002)                                        |           |             |           |           |           |             |             |           |           |           |        |        |        |             |         |
| <i>Deltochilum guildingii</i><br>(Westwood, 1835)     | 15        | 0           | 5         | 19        | 39        | 4           | 1           | 1         | 0         | 6         | 0      | 0      | 0      | 0           | 0       |
| <i>Dichotomius aff. agenor</i><br>(Bates, 1887)       | 30        | 5           | 27        | 12        | 74        | 3           | 0           | 4         | 1         | 8         | 0      | 0      | 0      | 0           | 0       |
| <i>Digintonthophagus gazella</i><br>(Fabricius, 1787) | 0         | 0           | 0         | 0         | 0         | 0           | 0           | 0         | 0         | 0         | 0      | 0      | 5      | 0           | 5       |
| <i>Eurysternus impresicollis</i><br>(Dalman, 1824)    | 63        | 2<br>4      | 54        | 21<br>7   | 35<br>8   | 4<br>8      | 1<br>3      | 29        | 13<br>3   | 22<br>3   | 3<br>9 | 9      | 9      | 1<br>3<br>1 | 18<br>8 |
| <i>Eurysternus mexicanus</i><br>(Harold, 1869)        | 0         | 1           | 6         | 15        | 22        | 3           | 2           | 0         | 4         | 9         | 1<br>9 | 2      | 4      | 2<br>1      | 46      |
| <i>Eurysternus plebejus</i><br>(Harold, 1880)         | 1         | 0           | 0         | 4         | 5         | 0           | 0           | 0         | 1         | 1         | 0      | 0      | 0      | 0           | 0       |
| <i>Malagoniella astyanax</i><br>(Olivier, 1789)       | 0         | 0           | 1         | 0         | 1         | 0           | 0           | 0         | 0         | 0         | 0      | 0      | 0      | 0           | 0       |
| <i>Onthophagus crinitus</i><br>(Harold, 1869)         | 0         | 0           | 2         | 36<br>9   | 37<br>1   | 0           | 0           | 0         | 28        | 28        | 0      | 0      | 0      | 1           | 1       |
| <i>Onthophagus landolti</i><br>(Harold, 1880)         | 5         | 1<br>0      | 5         | 25<br>8   | 27<br>8   | 3           | 0           | 1         | 7         | 11        | 0      | 0      | 0      | 1           | 1       |
| <i>Onthophagus lebasii</i><br>(Boucomont, 1932)       | 33        | 3           | 12        | 67<br>3   | 72<br>1   | 1<br>5      | 4           | 37        | 58        | 11<br>4   | 0      | 0      | 1      | 7           | 8       |
| <i>Onthophagus marginicollis</i><br>(Harold, 1880)    | 36<br>8   | 1<br>5<br>9 | 41<br>1   | 17<br>1   | 1,1<br>09 | 1<br>8      | 1<br>2      | 29        | 1         | 60        | 0      | 1      | 1      | 0           | 2       |
| <i>Pseudocanthos perplexus</i><br>(LeConte, 1847)     | 0         | 6           | 1         | 0         | 7         | 0           | 1           | 0         | 0         | 1         | 0      | 0      | 0      | 0           | 0       |
| <i>Uroxys boneti</i> (Pereira y<br>Halfpeter, 1961 )  | 0         | 0           | 0         | 0         | 0         | 0           | 0           | 6         | 3         | 9         | 0      | 0      | 2      | 0           | 2       |
| <i>Uroxys deavilai</i> (Delgado y<br>Kolhmann, 2007)  | 1         | 3           | 27        | 45<br>0   | 48<br>1   | 1<br>0<br>4 | 4<br>4      | 84<br>4   | 76<br>9   | 17<br>61  | 2<br>4 | 1      | 3      | 1<br>0      | 38      |
| Número de especies                                    | 14        | 1<br>5      | 19        | 20        | 22        | 1<br>6      | 1<br>6      | 15        | 15        | 22        | 7      | 5      | 9      | 1<br>0      | 14      |
| Número de individuos                                  | 1,2<br>13 | 6<br>8<br>1 | 1,0<br>99 | 4,8<br>57 | 7,8<br>50 | 5<br>9<br>9 | 2<br>6<br>5 | 1,3<br>50 | 3,1<br>42 | 5,3<br>56 | 9<br>2 | 1<br>4 | 2<br>8 | 2<br>7<br>9 | 41<br>3 |

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**Apéndice 4. Variación de los parámetros ambientales por hábitats y temporadas en RCM, CSL y RB con máximos y mínimos. Entre paréntesis, promedio y desviación estándar. Temperatura del suelo (T.S), precipitación (Prec), humedad del suelo (H.S), temperatura ambiente (T.A), humedad ambiente (H.A), cobertura vegetal (C.V), compactación del suelo (C.S) e intensidad lumínica (I.L).**

| Sitios                        |     | Variables ambientales     |                          |                          |                           |                          |                         |                       |         |
|-------------------------------|-----|---------------------------|--------------------------|--------------------------|---------------------------|--------------------------|-------------------------|-----------------------|---------|
|                               |     | T.S                       | T.A                      | H.S                      | H.A                       | I.L                      | C.S                     | C.V                   | Pr ec   |
| Temporada de primeras lluvias |     |                           |                          |                          |                           |                          |                         |                       |         |
| RC M                          | C   | 44.5-27.1<br>(33.7 ±3.9)  | 41.1-30.6<br>(34.5±2.5)  | 15-7<br>(8.06±0.5)       | 65-32<br>(49.7±7.8)       | 659-62.1<br>(260±204.6)  | 330-80<br>(227.5±80)    | 60-0<br>(13.9±53)     | 17<br>7 |
|                               | P   | 41.7-2.2<br>(29.4±3.7)    | 36.6--28.4<br>(32.2±1.4) | 29-10<br>(18.1±1)        | 68-28.4<br>(45.0±12.6)    | 383-7 (150-106.7)        | 450-180<br>(280±98.9)   | 70-0<br>(6.75±20.7)   | 17<br>7 |
|                               | C V | 33.2-25.9<br>(29.5 ± 1.8) | 33.4-24.4<br>(30.4±1.5)  | 19-8<br>(13.4±1.5)       | 93.2-24.4<br>(53.6±22.3)  | 89.8-1.05<br>(28.2±26.6) | 450-130<br>(292±101.7)  | 98-0<br>(38.6±36.3)   | 17<br>7 |
|                               | B   | 32.9-23.5<br>(2.63±2.0)   | 33.5-28.2<br>(30.4±1.1)  | 20-9<br>(13.7±1.8)       | 100-28.8<br>(56.7±24.5)   | 14-0.6<br>(4.8±4.2)      | 450-100<br>(226±84.8)   | 98-0<br>(77.7±23.1)   | 17<br>7 |
| CS L                          | C   | 41.3-29.4<br>(33.7±3.4)   | 36.1-29.2<br>(32.8±1.9)  | 39.4-12.7<br>(22.8-10.6) | 81.3-58.6<br>(68.7±8.2)   | 1066-12.67<br>(322±422)  | 280-80<br>(199±49.1)    | 95-0<br>(11.2±28..2 ) | 22<br>6 |
|                               | P   | 37.1-27.8<br>(32.1±3)     | 36.2 28.6<br>(31.7±2.2)  | 18.6-12<br>(17.3±1.7)    | 84.8-50.7±<br>(71.8-11.4) | 1120-11.1<br>(134±261)   | 350-100<br>(234±76.5)   | 98-0<br>(16±35)       | 22<br>6 |
|                               | C V | 36.2-28.8<br>(31.1±1.9)   | 34.7-29.3<br>(31.7±1.5)  | 15.1-13.2<br>(14.1±0.9)  | 81.2-61<br>(71.4±6)       | 34.6-19.6<br>(80.6±78.6) | 350-180<br>(264±67.3)   | 100-0<br>(29.7±36.5)  | 22<br>6 |
|                               | B   | 30.1-26.5<br>(27.8±0.94)  | 31.4-27.7<br>(29.4±1.1)  | 18.4-18.3<br>(18.35±0.5) | 92.6-70.6<br>(80.7±6.8)   | 39.3-2.02<br>(17.8±11.1) | 320-120<br>(243±62.7)   | 95-25<br>(65.9±1.4)   | 22<br>6 |
| RB                            | C   | 41.2-3.6<br>(33.5±8.1)    | 40.2-24<br>(33.1±3.4)    | 19-16.4<br>(17.7±1.3)    | 83.1-41<br>(55±10.8)      | 839-59.2<br>(330±150)    | 330-100<br>(180±61.5)   | 80-0<br>(16.5±27.7)   | 16<br>9 |
|                               | P   | 43.3-25.2<br>(32.8±4.6)   | 43.2-28.6<br>(34±3.8)    | 18.8-12.3<br>(15.5±3.3)  | 74.9-27<br>(51.2±14.7)    | 1063-16.2<br>(422±14.7)  | 350-150<br>(243±63.5)   | 100-0<br>(32.1±42)    | 16<br>9 |
|                               | C V | 30-24<br>(27.4±1.8)       | 35.8-32<br>(33.6±1)      | 13.1-5 ( 9.5±2.3)        | 63-50<br>(54.1±3.2)       | 95.8-12.2<br>(46.3±28.2) | 450-150<br>(305±113)    | 85-0<br>(21.2±33.2)   | 16<br>9 |
|                               | B   | 29.5-21.5<br>(25.4±2.5)   | 36.1-26.9<br>(32.2±2.8)  | 17.7-10<br>(14.5±3.4)    | 81-45<br>(61.6±13.3)      | 37.6-4.3<br>(15.1±7.3)   | 330-150<br>(246±58.2)   | 100-40<br>(78.6±22.8) | 16<br>9 |
| Temporada de lluvias          |     |                           |                          |                          |                           |                          |                         |                       |         |
| RC M                          | C   | 29.3-26.7<br>(27.9±0.7)   | 34.7-23.6<br>(29.0±2.6)  | 12.5-3.0<br>(7.8±2.79)   | 93.1-52.3<br>(78.6±11)    | 82.3-6.4<br>(38.5±23.5)  | 450-156.6<br>(288±79.7) | 53-0 (4.9±14)         | 55<br>4 |
|                               | P   | 31.7-25.9<br>(27.4±1.9)   | 40.4-24.4<br>(30.9±4)    | 36.3-6.3<br>(19.4±8.49)  | 97.2-47.3<br>(72.8±12.8)  | 70.7-1.45<br>(17.3±20.7) | 416-193<br>(289-80)     | 44-0<br>(12.4±12.6)   | 55<br>4 |
|                               | C V | 28-25<br>(26.7±0.6)       | 32.1-23<br>(28.4±2.1)    | 23-1.5<br>(8.6±4.9)      | 91.3-55.3<br>(79.3±9.8)   | 18.6-1.5<br>(4.1±3.9)    | 450-183<br>(321±82)     | 70-15<br>(41.8±15.4)  | 55<br>4 |
|                               | B   | 27-25.6<br>(26.3±0.4)     | 32.8-24.2<br>(28.5±2.1)  | 27.3-6.6<br>(16.6±5.9)   | 98.3-70.2<br>(84.6±9.2)   | 2.46-0.28<br>(0.89±0.53) | 410-126<br>(281±83)     | 92.8-58<br>(79±9.9)   | 55<br>4 |
| CS L                          | C   | 29.3-26.7<br>(28±0.7)     | 34.7-23.6<br>(29.0±2.6)  | 12.5-3<br>(7.8±2.7)      | 93.1-52.3<br>(78.6±11)    | 82.3-6.4<br>(38.5±23.5)  | 450-156<br>(288±79.9)   | 53-0<br>(4.9±13.9)    | 51<br>8 |
|                               | P   | 31.7-25.9<br>(27.5±1.6)   | 40.4-24.2<br>(30.9±8.4)  | 36.3-6.3<br>(19.4±8.4)   | 97.2-47.3<br>(72.8±12.8)  | 70.7-1.45<br>(17.1±20.7) | 416-193<br>(289±80.3)   | 44-0<br>(12.4±12.6)   | 51<br>8 |
|                               | C V | 28.0-25.5<br>(26.7±0.6)   | 32.1-23<br>(28.4±2.1)    | 23-1.5<br>(8.6±4.99)     | 91.3-55.3<br>(79.3±3.9)   | 18.6-1.5<br>(4.1±3.9)    | 450-183<br>(321±82.1)   | 20-15<br>(41.8±15.4)  | 51<br>8 |
|                               | B   | 28-25.3<br>(26.7±0.6)     | 32.1-23<br>(28.4±2.1)    | 23-1.5<br>(8.6±4.9)      | 91.3-55.3<br>(79.3±9.8)   | 18.6-1.5<br>(4.1±3.9)    | 450-183<br>(321±82.1)   | 70-15<br>(41.8±15.4)  | 51<br>8 |

|                |        |                          |                          |                         |                          |                          |                       |                      |         |
|----------------|--------|--------------------------|--------------------------|-------------------------|--------------------------|--------------------------|-----------------------|----------------------|---------|
| RB             | C      | 33.1-25.9<br>(29±1.7)    | 37.6-26.3<br>(31.9±3.1)  | 37.9-5.5<br>(19.2±11.2) | 82.8-47<br>(66.6±10.5)   | 61.2-2.2<br>(33.1±15.6)  | 410-110<br>(259±100)  | 17-0 (3.3-6.1)       | 94<br>7 |
|                | P      | 82.5-26.8<br>(32.4±12)   | 36.4-27.4<br>(32.8±2.9)  | 39-5.3<br>(20.5±9)      | 91.8-51.1<br>(67.9±11.6) | 62.9-0.55<br>(24.5±22.9) | 450-170<br>(305±965)  | 51-0<br>(14.5±17.3)  | 94<br>7 |
|                | C<br>V | 30.1-26.8<br>(28.3±0.9)  | 35.5-26.2<br>(31±2.3)    | 45.9-10<br>(16±11.8)    | 82-56.9<br>(70.6±7.6)    | 9.1-0.6<br>(2.8±2)       | 450-173<br>(341±79.1) | 50-14<br>(27.7±8.8)  | 94<br>7 |
|                | B      | 376-25.6<br>(44.1±78.2)  | 32.8-26<br>(29.4±2.2)    | 26.8-8.5<br>(94.4±59.7) | 94.4-59.7<br>(77.7±10)   | 16.5-0.16<br>(1.8±3.5)   | 450-186<br>(276±63.8) | 98-59<br>(84.5±10.7) | 94<br>7 |
| Temporada seca |        |                          |                          |                         |                          |                          |                       |                      |         |
| RC<br>M        | C      | 43-28<br>(33.8±2.8)      | 40.3-26.7<br>(33.4±26.7) | 6-0 (1.2±1.6)           | 70.3-39.6<br>(52.3±8.3)  | 37-4.8<br>(19±9.1)       | 550-350<br>(495±60.4) | 12-0<br>(0.7±2.6)    | 0       |
|                | P      | 43.2-26.2<br>(30.5±4)    | 35.3-27.4<br>(31.9±1.7)  | 11.3-0<br>(4.4±3.3)     | 71.1-22.9<br>(55.9±6.4)  | 50.2-3.9<br>(15.9±13.2)  | 550-300<br>(466±97.8) | 20-0<br>(4.6±5.9)    | 0       |
|                | C<br>V | 32.2-25.1<br>(30.3±1.5)  | 37.9-26.5<br>(33.7±2.9)  | 9.7-0<br>(3.2±2.7)      | 73-39.4<br>(50.4±8)      | 45.3-4.5<br>(18.±12.4)   | 450-330<br>(335±123)  | 37.6-3<br>(12.2±9.4) | 0       |
|                | B      | 31.4-27.4<br>(29.2±1.2)  | 36-24.9<br>(30.2±3.1)    | 43-0<br>(6.1±9.1)       | 82.8-43.7<br>(61.2±10.6) | 33.8-1.3<br>(9.8±8.8)    | 450-330<br>(335±123)  | 68-15<br>(43.7±16.8) | 0       |
| CS<br>L        | C      | 39.2-31.9<br>(36.2±1.8)  | 40.3-28.6<br>(34.1±2.6)  | 13.6-0<br>(2.5±3.5)     | 70.3-39.6<br>(53.3±8.2)  | 51.5-9.9<br>(30.5±12.5)  | 550-333<br>(478±82.9) | 68-15<br>(43.7±16.8) | 0       |
|                | P      | 44-30<br>(34.7±3.5)      | 35.3-26.5<br>(31.8±2.3)  | 13-0<br>(4.5±4.1)       | 78.9-53<br>(60.6±7.4)    | 49.8-8.6<br>(21.1±11.2)  | 550-450<br>(500-51.2) | 40-0<br>(10.9±12.2)  | 0       |
|                | C<br>V | 39.8-32.8<br>(36±1.99)   | 40.9-26.3<br>(32.8±3.9)  | 13.3-0<br>(4.6±4.2)     | 81.1-43.3<br>(60.8±11.2) | 40.2-7.1<br>(25.6±8.2)   | 550-450<br>(500±51.2) | 41.6-2<br>(12.2±9.9) | 0       |
|                | B      | 34.6-25.4<br>(32±2.3)    | 36.9-28.1<br>(33.4±2.5)  | 12-0<br>(4.8±2.5)       | 72.6-47.1<br>(56.4±7.4)  | 37-3.7<br>(18.5±10.1)    | 450-330<br>(422±42.9) | 50-0<br>(20±15)      | 0       |
| RB             | C      | 40-29.7<br>(33.9±2.3)    | 40.3-28.2<br>(33.3±2.9)  | 10-0<br>(4.3±3.2)       | 73.3-41.3<br>(58±8.9)    | 69-8.7<br>(36.7±19.1)    | 550-206<br>(459±114)  | 12-0<br>(2±3.6)      | 0       |
|                | P      | 43-31.1<br>(34.7±6.4)    | 50.3-29.9<br>(36.9±6.4)  | 8.6-0<br>(3.3±3.5)      | 76.4-23.2<br>(51.7±16.6) | 63.1-4.8<br>(30.4±20.7)  | 550-330<br>(490±67.1) | 25-0<br>(5.2±6.8)    | 0       |
|                | C<br>V | 35.6-27.4<br>(30.2±2.1)  | 41.8-26.5<br>(34.2±4.1)  | 9.3-0.6<br>(4.6±2.5)    | 74.8-33.4<br>(54.6±12.1) | 27.5-2.9<br>(6.4±5.2)    | 550-206<br>(458±108)  | 42-0<br>(24±11.6)    | 0       |
|                | B      | 29.4-25.9<br>(27.6±25.9) | 41-28.1<br>(33.7±3.5)    | 12.3-0<br>(4.8±3.4)     | 72.6-37<br>(53.4±10.8)   | 11.4-0.98<br>(4.4±2.89)  | 450-220<br>(377±81)   | 79-24<br>(52.1±17.4) | 0       |

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