

SUPPLEMENTARY MATERIAL

Supplementary I.- Analysis of Variance Table of (Linear mixed model fitted by REML (A) population density estimated by minimum number alive index (B) population density estimated by active burrows count) type 3 with Satterthwaite approximation for degrees of freedom.

| (A) | Sum Sq | Mean Sq | Num DF | Den DF | F. value | Pr(>F) |
|------------------|-----------|---------|--------|---------|----------|---------------|
| Species | 39.01 | 39.014 | 1 | 263.985 | 1.196 | 0.27515 |
| District | 9.69 | 3.231 | 3 | 5.999 | 1.081 | 0.425543 |
| Season | 74.11 | 24.703 | 3 | 263.985 | 8.267 | 2.818e-05 *** |
| Human | 32.76 | 16.382 | 2 | 5.999 | 5.482 | 0.044250 * |
| Species:District | 230.07 | 76.690 | 3 | 263.985 | 25.665 | 1.332e-14 *** |
| Species:Season | 11.54 | 3.846 | 3 | 263.985 | 1.287 | 0.279187 |
| Species:Human | 493.76 | 246.878 | 2 | 263.985 | 82.622 | < 2.2e-16 *** |
| R2m | R2c | | | | | |
| 0.5166417 | 0.6136288 | | | | | |

| (B) | Sum Sq | Mean Sq | Num DF | Den DF | F. value | Pr(>F) |
|------------------|-----------|---------|--------|---------|----------|---------------|
| Species | 1.53 | 1.53 | 1 | 263.985 | 2.838 | 0.09334 . |
| District | 17.89 | 5.96 | 3 | 5.999 | 1.951 | 0.2227762 |
| Season | 28.18 | 9.39 | 3 | 263.985 | 3.073 | 0.0282500 * |
| Human | 61.39 | 30.70 | 2 | 5.999 | 10.043 | 0.0121721 * |
| Species:District | 298.90 | 99.63 | 3 | 263.985 | 32.598 | < 2.2e-16 *** |
| Species:Season | 7.07 | 2.36 | 3 | 263.985 | 0.771 | 0.5111397 |
| Species: Human | 1370.81 | 685.41 | 2 | 263.985 | 224.247 | < 2.2e-16 *** |
| R2m | R2c | | | | | |
| 0.6782104 | 0.7633563 | | | | | |

Signif.codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Supplementary II.- Body measurements of small Indian mongoose and the grey mongoose trapped from four districts of the Pothwar Plateau (Analysis was done by using R-software and significant differences were found at 0.001 level).

| Species | District | Sex | Body weight (g) | Body length (cm) | Tail length (cm) | Total length (cm) | Ear length (cm) |
|----------------|------------|--------------|---------------------|-------------------|-------------------|-------------------|------------------|
| SIM (n=72) | Attock | M | 488.44±3.23 | 30.61±0.15 | 25.88±0.08 | 56.52±0.20 | 3.43±0.05 |
| | | F | 478.00±2.03 | 28.93±0.28 | 25.40±0.48 | 54.33±0.56 | 3.28±0.48 |
| | Chakwal | M | 462.78±11.13 | 32.03±1.19 | 25.96±1.02 | 57.99±2.24 | 3.40±0.18 |
| | | F | 436.0±15.14 | 30.20±0.30 | 24.77±0.53 | 54.97±0.81 | 3.25±0.08 |
| | Rawalpindi | M | 435.11±16.77 | 32.94±0.61 | 25.60±2.44 | 58.34±0.13 | 3.51±0.97 |
| | | F | 356.89±6.52 | 28.42±0.58 | 22.30±0.91 | 50.72±1.47 | 3.05±0.05 |
| Jhelum | M | 434.44±12.51 | 31.95±1.12 | 26.59±0.10 | 58.29±1.35 | 3.56±0.10 | |
| | F | 403.78±30.41 | 28.50±0.28 | 24.21±1.63 | 52.71±1.91 | 3.20±0.13 | |
| Average | | | 436.93±13.99 | 30.45±0.58 | 25.09±0.46 | 55.47±0.99 | 3.33±0.05 |
| GM (n=72) | Attock | M | 1056.67±25.20 | 41.71±0.33 | 39.57±0.33 | 81.28±0.64 | 4.80±0.15 |
| | | F | 835.89±8.31 | 39.01±0.18 | 36.83±0.25 | 75.84±0.08 | 3.84±0.36 |
| | Chakwal | M | 1156.11±108.05 | 42.27±0.89 | 40.01±0.64 | 82.27±1.52 | 4.72±0.18 |
| | | F | 820.0±6.06 | 36.83±1.09 | 34.93±0.69 | 71.76±1.78 | 3.86±0.08 |
| | Rawalpindi | M | 1039.22±13.40 | 42.32±0.20 | 40.56±0.18 | 82.63±0.51 | 4.95±0.08 |
| | | F | 820.11±10.36 | 38.89±0.15 | 36.70±0.08 | 75.57±0.13 | 3.76±0.03 |
| Jhelum | M | 898.56±20.80 | 41.83±0.89 | 39.50±0.43 | 81.36±1.24 | 4.72±0.18 | |
| | F | 821.45±16.01 | 38.66±0.56 | 36.40±0.46 | 75.21±0.94 | 3.76±0.03 | |
| Average | | | 931.0±23.58 | 40.18±0.69 | 38.07±0.69 | 78.23±1.45 | 4.29±0.18 |

Supplementary III.-**Burrows association of two mongoose species with plants in Pothwar Plateau.**

| Plants Species | Small Indian mongoose (n=150) | | Grey Mongoose (n=141) | |
|----------------------------|-------------------------------|---------|-----------------------|---------|
| | Active Burrows | Percent | Active Burrows | Percent |
| <i>Ziziphus nummularia</i> | 75 | 50% | 46 | 33% |
| <i>Prosopis juliflora</i> | 27 | 18% | 32 | 23.7% |
| <i>Capparis deciduas</i> | 21 | 14% | 30 | 21.3% |
| <i>Z. mauritiana</i> | 7 | 4.7% | 9 | 6.38% |
| <i>Dalbergia Sissoo</i> | 7 | 4.7% | 0 | 0 |
| <i>Calotropis procera</i> | 4 | 2.7% | 13 | 9.23% |
| <i>Cannabis sativa</i> | 4 | 2.7% | 0 | 0 |
| <i>Ricinus communis</i> | 3 | 2.0% | 4 | 2.84% |
| <i>Melia azedarach</i> | 2 | 1.2% | 2 | 1.42% |
| <i>Acacia modesta</i> | 0 | 0 | 2 | 1.42% |
| <i>Adhatoda vasica</i> | 0 | 0 | 2 | 1.42% |
| <i>Morus alba</i> | 0 | 0 | 1 | 0.71% |