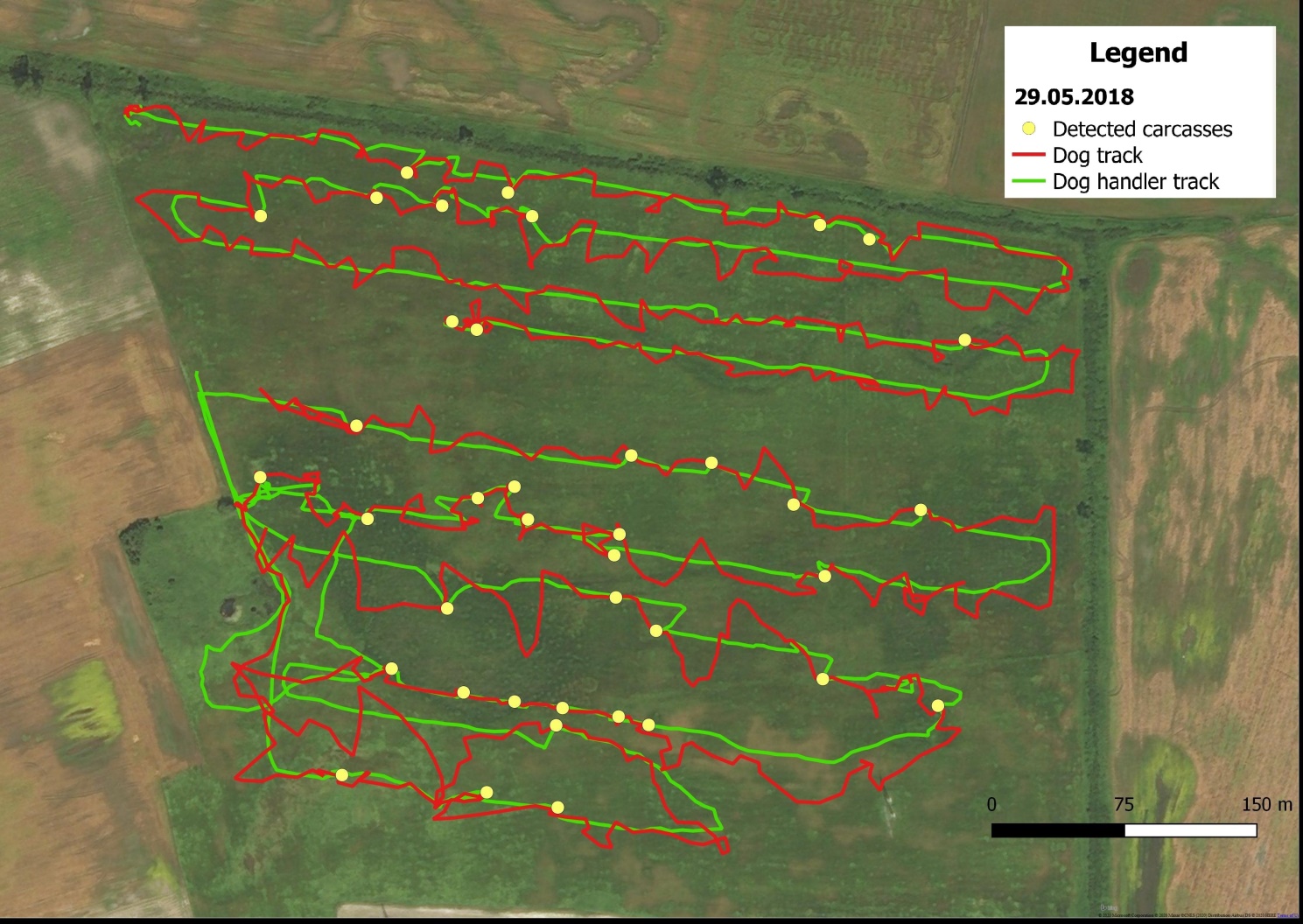
**Fig. S1.** A sample map showing the dog and dog handler tracks and the locations of detected carcasses in a land parcel.



**Fig. S2.** Falco detecting a dead pheasant hen and destroyed nest under the mowed vegetation.



**Fig. S3.** Chain curtain in use (attached between the tractor and the blades).

**Table S1.** Distribution of different species in the total number of detected carcasses in two different habitat types, in Hungary (May-June, 2018). \*In case of pheasant and quail one occasion in leguminous vegetation relates to the destruction of an entire clutch, for both.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species | Cultivation | | Total cases | Proportion % |
| Leguminous | Meadow |
| sand lizard *Lacerta agilis* | 13 | 64 | 77 | 51.67 |
| grass snake *Natrix natrix* | 1 | 7 | 8 | 5.37 |
| Eurasian skylark *Alauda arvensis* | 2 | 2 | 4 | 2.68 |
| common pheasant\* *Phasianus colchicus* | 2 | 1 | 3 | 2.01 |
| common quail\* *Coturnix coturnix* | 2 | 0 | 2 | 1.34 |
| European brown hare *Lepus europaeus* | 4 | 4 | 8 | 5.37 |
| roe deer *Capreolus capreolus* | 2 | 3 | 5 | 3.36 |
| common vole *Microtus arvalis* | 8 | 6 | 14 | 9.40 |
| mound-building mouse *Mus spicilegus* | 3 | 1 | 4 | 2.68 |
| striped field mouse *Apodemus agrarius* | 1 | 1 | 2 | 1.34 |
| unidentified rodent *Rodentia* | 10 | 1 | 11 | 7.38 |
| unidentified remain | 7 | 4 | 11 | 7.38 |
| Total | 55 | 94 | 149 | 100 |

**Table S2.** Observed parameters during searches with a carcass detection dog after mowing in various vegetated types, Hungary (May-June, 2018). Morning and afternoon searches were carried out within the time range from 9:21 to 13:31 and 16:25 to 20:10, respectively.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Date of search | Cultivation | Size of searched field (ha) | Time of searching | Number of detected items/100 ha  (carcass, remains or nest) | | | | |
| Total | Mammals | Birds | Reptiles | Unidentified |
| 02.05.2018 | leguminous | 9.6 | afternoon | 52.08 | 10.42 | 31.25 | 10.42 | 0 |
| 03.05.2018 | leguminous | 13 | morning | 15.38 | 7.69 | 0 | 7.69 | 0 |
| 04.05.2018 | leguminous | 2.2 | morning | 0 | 0 | 0 | 0 | 0 |
| 28.05.2018 | meadow | 4.6 | morning | 260.87 | 130.43 | 0 | 130.43 | 0 |
| 28.05.2018 | meadow | 5.5 | morning | 181.82 | 36.36 | 0 | 145.45 | 0 |
| 28.05.2018 | meadow | 5.5 | morning | 254.55 | 18.18 | 18.18 | 181.82 | 36.36 |
| 29.05.2018 | meadow | 8 | morning | 137.50 | 37.50 | 0 | 87.50 | 12.50 |
| 29.05.2018 | meadow | 12 | afternoon | 233.33 | 33.33 | 16.67 | 175.00 | 8.33 |
| 30.05.2018 | meadow | 9 | morning | 211.11 | 0 | 0 | 211.11 | 0 |
| 17.06.2018 | leguminous | 20 | afternoon | 95.00 | 40.00 | 10.00 | 30.00 | 15.00 |
| 17.06.2018 | leguminous | 2.2 | afternoon | 681.82 | 545.45 | 45.45 | 45.45 | 45.45 |
| 19.06.2018 | leguminous | 2.6 | afternoon | 538.46 | 230.77 | 0 | 192.31 | 115.38 |
| Total |  | 94.2 |  | 158.17 | 46.71 | 9.55 | 90.23 | 11.68 |