



UPDATE on illegal bird trapping activity in Cyprus

Covering the winter 2020-21 findings of BirdLife Cyprus' continuing monitoring programme for illegal bird trapping in Cyprus.

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Date: July 2021

Contents

Περίληψη.....	3
Summary.....	5
1. Overview of bird trapping in Cyprus.....	6
2. BirdLife Cyprus surveillance programme.....	8
3. Results	10
4. Conclusions.....	13
Bibliography.....	14
Appendix 1.....	15
Appendix 2.....	16
Appendix 3.....	17

Περίληψη

Η παρούσα αναφορά παρουσιάζει τα τελευταία ευρήματα του συνεχιζόμενου προγράμματος παρακολούθησης της παράνομης παγίδευσης πουλιών του Πτηνολογικού Συνδέσμου Κύπρου, για τη χειμερινή περίοδο 2020-21. Επισημαίνεται ότι η αναφορά αυτή έχει ως κύριο στόχο τους υπεύθυνους στα κέντρα λήψης αποφάσεων και τους πολιτικούς, με σκοπό την ενημέρωση, την ευαισθητοποίηση και την κινητοποίηση για πιο αποτελεσματική δράση για αντιμετώπιση αυτού του χρόνιου οικολογικού προβλήματος.

Σημειώνεται ότι τα τελευταία χρόνια για την χειμερινή περίοδο, ο Πτηνολογικός δεν κάνει πλήρη έρευνα πεδίου όπως περιγράφεται στο πρωτόκολλο του προγράμματος παρακολούθησης της παράνομης παγίδευσης πουλιών. Εντούτοις, για να έχει μια ξεκάθαρη εικόνα της κατάστασης της χειμερινής παγίδευσης διενεργεί έρευνα ελέγχου σημείων (spot checks) όπου ένα δείγμα σημείων όπου είχε καταγραφεί, σε προηγούμενα χρόνια, παγίδευση, ελέγχονται για τυχόν παράνομη παγίδευση. Αυτή είναι η όγδοη συνεχόμενη χειμερινή έρευνα πεδίου όπου εφαρμόζεται αυτή η μέθοδος ελέγχου σημείων.

Συνολικά, ελέγχθηκαν 150 τοποθεσίες-σημεία και από αυτά, επτά σημεία καταγράφηκαν ως ενεργά για παράνομη παγίδευση πουλιών. Η ομάδα πεδίου κατέγραψε 15 ενεργές διαδρομές για δίκτυα (διαδρομές σε περιοχές με ακακίες ή άλλη βλάστηση π.χ. πορτοκαλεώνες, ελαιώνες, όπου βρέθηκαν δίκτυα ή ευρήματα ότι γίνεται παγίδευση), με συνολικό μήκος 280 μέτρα.

Παρόλο που δεν είναι δυνατόν να εξαχθούν στατιστικά βάσιμες τάσεις για τα χειμερινά επίπεδα παγίδευσης πουλιών, αφού δεν έγινε πλήρης έρευνα πεδίου όπως περιγράφεται στο πρωτόκολλο του προγράμματος παρακολούθησης του Πτηνολογικού, τα ευρήματα αυτής της χειμερινής περιόδου υποδεικνύουν ότι υπήρξε μια μικρή μείωση στην παγίδευση με δίκτυα σε σύγκριση με την περίοδο 2019-20. Η χειμερινή παγίδευση, ωστόσο, εξαρτάται πολύ από τη μετανάστευση της τζίκλας στην Κύπρο καθώς και τις καιρικές συνθήκες. Τα αποτελέσματα της τηλεφωνικής έρευνας για την κυνηγετική κάρπωση που διεξάγει κάθε χρόνο η Υπηρεσία Θήρας και Πανίδας δείχνουν μείωση κατά 39% στον αριθμό των τζίκλων που σκοτώθηκαν νόμιμα το 2020-21 σε σύγκριση με το 2019-20. Αυτό δείχνει ότι υπήρχαν λιγότερα πουλιά στην Κύπρο, κάτι που θα μπορούσε να εξηγήσει, σε κάποιο βαθμό τουλάχιστον, τα μειωμένα επίπεδα παγίδευσης που καταγράφηκαν από την ομάδα μας αυτόν τον χειμώνα.

Με βάση τις καταγραφές του Πτηνολογικού για την άνοιξη, φθινόπωρο και χειμώνα, εκτιμάται, συντηρητικά, ότι για το 2020 συνολικά, γύρω στις 406,000 πουλιά μπορεί να θανατώθηκαν από την παράνομη παγίδευση σε ολόκληρη την Κύπρο, σε σύγκριση με τις 610,000 χιλιάδες πουλιά που εκτιμούμε ότι σκοτώθηκαν το 2019. Αυτή η συνολική μείωση οφείλεται κυρίως στη μείωση της παγίδευσης με δίκτυα για το φθινόπωρο 2020, ιδιαίτερα εντός της Βρετανικής Βάσης Δεκέλειας όπου τα τελευταία χρόνια έχει καταγραφεί μια σημαντική μείωση. Εντός της Κυπριακής Δημοκρατίας τα τελευταία χρόνια καταγράφονται αυξομειώσεις σε σχέση με τα επίπεδα παγίδευσης με δίκτυα ενώ η χρήση ξόβεργων φαίνεται να παρουσιάζει αύξηση. Πιστεύουμε ότι αυτό οφείλεται στις χαλαρώσεις του νόμου που έχουν υπερψηφιστεί τα τελευταία χρόνια από την Κυπριακή Βουλή, και ιδιαίτερα στη νέα πρόνοια για εξώδικο πρόστιμο 200 ευρώ μόνον για τα αδικήματα της παράνομης παγίδευσης

με ξόβεργα ή της θανάτωσης με κυνηγετικό όπλο μέχρι και 50 πουλιών από μια λίστα 14 ειδών πουλιών.

Τα έξοδα αυτής της χειμερινής έρευνας καλύφθηκε , από το NABU (BirdLife στη Γερμανία) και το RSPB (BirdLife στο Ηνωμένο Βασίλειο).

Summary

This report presents the latest findings of the on-going BirdLife Cyprus surveillance programme on illegal bird trapping, relating to the winter 2020-21 season. It is highlighted that this report is mainly aimed at top decision makers and politicians, with the aim of informing, raising awareness and generating momentum for more effective action to tackle this chronic ecological problem.

It is worth noting that for the last eight winter seasons BirdLife has not undertaken a complete survey following its standard survey protocol. However, in order to have a reliable insight into the winter trapping situation a spot check exercise has been undertaken, whereby a sample of previously recorded trapping sites is checked for bird trapping activity.

Overall, 150 locations were checked and out of these, seven sites were found to be active with illegal bird trapping. The field team recorded 15 active net rides for mist netting (cleared “runs” in acacia plantations or other habitats e.g. orchards, olive trees, either holding nets or where there was clear evidence of preparation for the setting and/or use of nets), which summed up to a length of 280 metres.

Although it is not possible to draw conclusions about the long-term trends for winter trapping activity, since the standard monitoring protocol of BirdLife Cyprus is not followed for the winter, the findings from this season’s survey suggested a slight decrease in winter mist-netting activity in Cyprus compared to winter 2019-20. Winter trapping however, is very dependent on migration of Song thrush to the island as well as the weather. The hunting bag statistics published by the Game and Fauna service showed a 39% reduction in the number of Song thrushes killed legally in 2020-21 compared to 2019-20. This suggests that there were in fact a lot fewer thrushes overwintering in Cyprus, which could explain, at least in part, the reduced levels of trapping our field team recorded this winter.

Based on BirdLife Cyprus field data gathered for spring, autumn and winter seasons, it can be estimated that in 2020 as a whole, around 406,000 birds could have been killed across the whole island, in comparison to the 2019 estimate of 610,000 birds. This overall reduction is attributed to a reduction in mist net trapping in autumn 2020, particularly in the Sovereign Base Areas, where a substantial reduction in trapping has been recorded. Within the Republic of Cyprus, the trapping levels have been fluctuating over the past few years in regards to mist netting while trapping with limesticks has shown an increase. We believe that this can be attributed to relaxations in the law approved by the Cyprus parliament, and especially the on-the-spot fine amendment which means a fine of only 200 euro being issued for the offences of illegal trapping with limesticks or the killing with shotgun of up to 50 birds from a list of 14 specific bird species.

The costs for this winter’s survey were covered by NABU (BirdLife in Germany), and the RSPB (BirdLife in UK).

1. Overview of bird trapping in Cyprus

Trapping with non-selective methods (mist nets and limesticks) and the trade of wild birds have been prohibited since 1974 under Cyprus legislation, when the 'Protection and Development of Game and Wild Birds Law of 1974 (39/1974)' was introduced¹. Moreover, in 1988 Cyprus ratified the 1979 Bern Convention on the Conservation of European Wildlife and Natural Habitats, adopting a long list of birds as protected, including the Blackcap (*Sylvia atricapilla*), hence prohibiting the killing (hunting) and consumption of Blackcaps (Blackcaps are the main target species of illegal bird trapping in autumn in Cyprus). With Cyprus joining the EU in 2004, EU Birds Directive (2009/147/EC, formerly 79/409/EEC) was transposed into Cyprus Law N. 152(I)/2003, prohibiting anew the use of non-selective methods including mist nets, limesticks and calling devices, as well as the possession of trapping equipment, trapped birds and the trading and eating of trapped birds.

Historically, trapped birds – mostly Blackcaps - were a food supplement for what were mostly poor island inhabitants living off the land. The practice of bird trapping in Cyprus has been recorded in historical documents from the Middle Ages and even earlier times. However, trapping as practiced in Cyprus today bears no relation to historical 'tradition'.

Nowadays, bird trapping in Cyprus is widespread and extensive, contributing to the large-scale killing of hundreds of thousands of migratory and wintering birds. Survey records show that 157 bird species have been found trapped in mist nets or on limesticks, of which 82 are listed as conservation priority species under the EU Birds Directive and/or by BirdLife International². This is a clear indication of the non-selective nature of these methods. This illegal activity has become a profitable business controlled to a large extent by the 'big' trappers who are often also involved in organised crime. The Cyprus Game & Fauna Service estimated this illegal business to be valued in the order of 15 million euros per year³.

Apart from the extensive use of non-selective methods for illegal bird trapping in Cyprus, organised trappers nowadays use illegal electronic calling devices that imitate the calls of migratory birds. These calling devices are normally operated at night, luring the birds into the trapping sites and hence increasing the illegal catch. A recent academic study undertaken in Cyprus has shown that the use of electronic calling devices (song playback) is highly effective in luring birds towards trapping sites (Sebastianelli M. *et al* 2020). The findings of this study showed that playback not only increased the number of individuals of target species captured by six to eight times, but also significantly increased bycatch. The study authors concluded that: *'Our findings thus show that in contrast to popular belief that tape lures are a selective trapping*

¹ The specific articles of Law 39/1974 that prohibited the trapping and trade of wild birds include: Article 10 ('prohibition of hunting etc. of certain bird species', without including the blackcap either in the protected or the game species), Article 14 ('prohibition of offering game or wild birds in restaurants etc.') and Article 15 ('prohibition of the use of light projectors, traps, luring methods, limesticks and flushing of birds).

² BirdLife Cyprus 'List of birds recorded trapped in mist nets and on limesticks' found [here](#).

³ Game and Fauna Service (17th March 2010), Position paper presented at the Committee of Environment of the Cyprus House of Parliament during a discussion to change the legislation on the protection and management of wild birds and game species

method, they also lead to increased captures of non-target species, which can include species of conservation concern’.

These calling devices can often be heard easily from hundreds of metres away from trapping sites at night, highlighting the extensive use of calling devices and their intensity within the trapping areas.

This report presents the results for winter 2020-21 survey. It should be noted that during winter the illegal trappers target mainly wintering Song thrushes (*Turdus philomelos*), in contrast to spring and autumn seasons, when the main target species are Blackcaps (*Sylvia atricapilla*) and other migrant songbirds. Trapped birds are either served as expensive ambelopoulia ‘delicacies’ in local restaurants or are sold and used for home consumption.

2. BirdLife Cyprus surveillance programme

BirdLife Cyprus is a non-profit NGO working for the protection and conservation of birds, their habitats and wider biodiversity, and is the Partner of BirdLife International in Cyprus. With support from the RSPB (BirdLife in UK), and NABU (Birdlife in Germany), BirdLife Cyprus has undertaken a systematic surveillance programme of illegal bird trapping in Cyprus since autumn 2002, providing a long record of trapping activity and giving the NGO a very good measure of expertise on the issue. The surveillance programme follows a 'Bird Trapping Monitoring Protocol' that was developed by BirdLife Cyprus and the RSPB, in consultation with the Cyprus Game & Fauna Service and the British Sovereign Base Area (SBA) police at the start of the programme. Figure 1 shows the main areas of bird trapping; monitoring is concentrated in the two areas (numbered 1 and 2) where extensive trapping takes place:

1. Kokkinochoria area (Eastern Larnaca/Famagusta area) – this area also includes the Dhekelia Eastern Sovereign Base (ESBA) area), and
2. Ayios Theodoros and Maroni area (Western Larnaca).

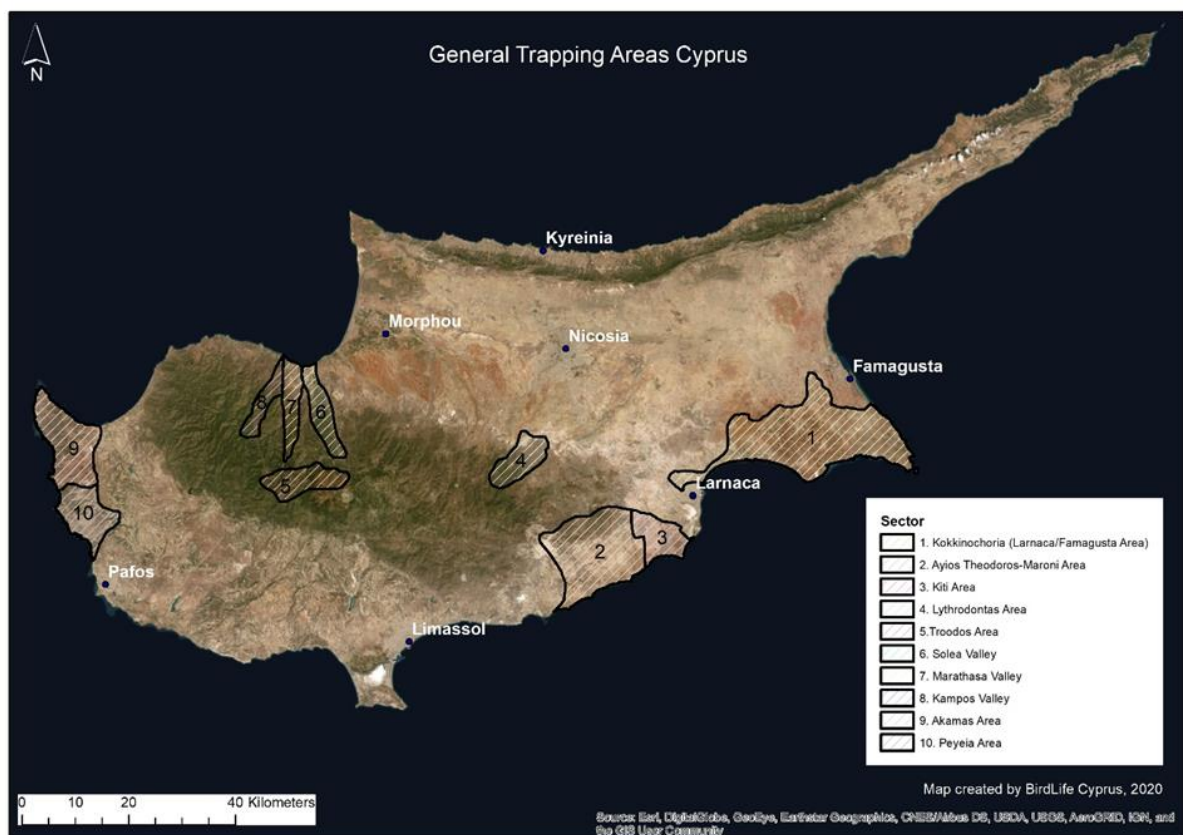


Figure 1. Map of Cyprus showing the main trapping areas

Although trapping is also an issue in other areas of Cyprus, the survey efforts focus on these two main areas due to resource limitations and because they hold the highest trapping activity.

It is worth noting that BirdLife Cyprus did not undertake a complete field survey for the winter 2020-21 season as described in its monitoring protocol⁴, but rather a 'spot check' exercise. This is the eighth consecutive winter season that BirdLife Cyprus has used this simpler survey method, primarily due to limited resources (To see data from prior to 'spot check' exercise go to Appendix 3) This method involves undertaking spot checks at trapping sites, randomly selected and stratified to ensure a representative coverage of areas under the SBA Administration and the Republic of Cyprus, in order to get an overall picture of winter trapping.

The project is undertaken in close co-operation with the Game & Fauna Service and the SBA Police. When trapping paraphernalia is found, the BirdLife Cyprus team contacts and reports them to the relevant enforcement authorities. It should be noted that the BirdLife Cyprus observers never confront suspected trappers and never remove trapping paraphernalia.

BirdLife Cyprus would like to express its particular thanks to RSPB (BirdLife in UK) for supporting the project financially since the beginning in 2002. Furthermore, BirdLife Cyprus would like to thank NABU (BirdLife in Germany) for their financial support since 2013 onwards. Finally, BirdLife Cyprus would like to thank the volunteer that helped in the monitoring survey and the gathering of the field data.

⁴ For more information regarding the surveillance programme of BirdLife Cyprus, read the latest autumn 2020 trapping report [here](#).

3. Results

- Field survey: the winter 2020-21 spot check survey of trapping sites was carried out from mid-January till the beginning of February, with 13 days of field work in total. As already stated, BirdLife Cyprus did not undertake a complete survey following the standard survey protocol for this season, in order to utilise limited resources on awareness raising and other campaigning activities as well. However, in order to have an insight into the winter trapping situation a spot check exercise was undertaken, checking about 25% of the trapping sites where mist netting activity had been detected in the past⁵, as well as some sites which Committee Against Bird Slaughter (CABS) had found activity in the previous winter season. The sites were randomly selected for this exercise in order to cover both the Republic of Cyprus (covering both Ayios Theodoros & Maroni and East Larnaca & Famagusta areas) and the Dhekelia Sovereign Base Area - SBA. All trapping locations were reported to the relevant enforcement authorities, either the SBA Police Anti-poaching unit or the Cyprus Game & Fauna Service, depending on the location of the finds.
- Summary of field findings: In total, 150 locations were checked, 111 within the Republic of Cyprus and 39 within the Dhekelia Sovereign Base Area (SBA) – **seven active mist netting sites** were detected, as well as **three active limestick sites**. The field team recorded **15 active net rides** for mist netting (cleared “runs” in acacia plantations or other habitats e.g. orchards, olive trees, either holding nets or where there was clear evidence of preparation for the setting and/or use of nets), which summed up to a **length of 280 metres** (nine rides were classified as ‘Active No Net’ rides⁶ and six rides were classified as ‘Prepared’⁷).
- Winter trapping activity: While it is not possible to use the field data to draw any statistically reliable long term trends for winter trapping activity (since the standard monitoring protocol has not been carried out for the last seven winter seasons i.e. since 2013) – the field data suggest a slight decrease in winter trapping activity recorded compared to the previous winter.

⁵ Because of a noted increase in limestick trapping during the autumn 2020 season, we also included several limestick trapping sites in our survey this winter season. In the past limestick trapping sites were not included in the survey as trapping with limesticks happened mainly during the autumn and spring seasons.

⁶ Active No Net : A net ride that from the evidence found e.g. bird feathers, blood stains, thrown pebbles, indicates that illegal activity was taking place the previous night / morning but no net is present *in situ*.

⁷ Prepared: A net ride that is clearly ready to be used but there is no evidence e.g. bird feathers, blood stains, thrown pebbles, to suggest illegal activity was taking place the previous night / morning.

- Table 1 summarizes the field data for the winter surveys that BirdLife Cyprus has undertaken since 2007, when winter monitoring begun. Compared to the winter 2019-20 season, it is evident that trapping has decreased slightly.

Table 1. Summary of winter field data of mist netting activity from 2013-14 onwards

	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Total locations/points checked	87	90	73	108	100	126	180	150
Total active net rides (m)	1067	1415	627	765	183	617	302	280
Mist nets <i>in situ</i> (no)	53	48	15	15	0	5	1	0

- Trapping under different jurisdictions for winter 2020-21:
 - For Republic areas, 11 active net rides for mist netting were detected after checking 111 locations, summing up to a length of 200 meters. Two locations where limestick trapping was taking place were also detected.
 - For the SBA areas, four active net rides for mist netting were detected after checking 39 locations, summing up to a length of 80 meters⁸. One location where limestick trapping was taking place was also detected.
- Enforcement:

BirdLife Cyprus reported the active trapping sites detected during the survey to the relevant competent authorities.

 - SBA Police anti-poaching unit feedback:
 - All sites were placed under observation, however nothing further was detected by the SBA police.
 - Game & Fauna Service:
 - No official feedback was received from the Game and Fauna Service; however, we have some unofficial feedback from wardens who checked locations that we reported to them directly. At one location two mistnets and a calling device were confiscated.

⁸ Joint monitoring was carried out on three different occasions with the assistance of SBA police. On the 21/1/21 we checked 11 locations. On the 29/1/21 we checked 11 locations. On 5/2/21 we checked 17 locations of which two sites were active and one was prepared.

Death estimate for the whole of 2020:

- During spring 2020, from the limesticks that were found during the survey, it was estimated that **110** birds could have been killed. However this does not accurately represent the number of birds killed, as the majority of sites which our field team located was based on evidence of glue and feathers but did not have set limesticks and not set limesticks (BirdLife Cyprus, October 2020 report).
- During autumn 2020, it was estimated that just under **400,000** birds could have been killed across the whole of Cyprus (BirdLife Cyprus, March 2021 report).
- The levels of winter 2020-21 mist netting activity recorded by BirdLife Cyprus (see above) suggest that trapping was at a similar level compared to last year. As the method for the winter survey is not the same as autumn, it is not possible to establish an accurate death estimate comparable to that of the autumn. It is however possible to estimate the number of birds killed in nets/net rides that were found active during our spot check survey. This is therefore conservatively estimated to be around **5,550** birds. It is highlighted though that this number would be significantly higher for the whole of Cyprus.
- **Therefore, it is conservatively estimated that during the whole of 2020, just under 406,000 birds could have been illegally trapped and killed across Cyprus.**

4. Conclusions

BirdLife Cyprus undertook a spot check exercise in January and February 2020 for a period of 13 days in total, checking 150 locations in total. These locations were randomly selected from the complete list of trapping sites where mist netting activity has been detected in the past during our full survey programme, as well as other locations found by CABS members in the previous season. Out of these 150 locations, seven active mist netting sites were recorded. The findings included 15 active net rides for mist netting, which summed up to a length of 280 metres.

Despite the fact that statistically reliable trends cannot be drawn from the winter survey data, the field data indicate a slight decrease in mist netting this winter compared with the 2019-20 winter season.

The winter trapping season tends to fluctuate each year according to the number of Song thrushes, the target species for winter trapping, which come to Cyprus to overwinter. This winter the number of Song thrushes wintering in Cyprus was, the evidence suggests, much reduced. This is evident from our birdwatching records for January/February 2020 as well from the hunting bag statistics for the hunting season of 2020-21 which the Game and Fauna service published in May 2020 ([see here](#)). This document shows that 39% fewer Song thrush were legally shot in 2020-21 compared to 2019-20, which suggests that there were fewer Song thrushes wintering in Cyprus this winter compared to last. According to the bag stats, during the 2018-2019 winter season, when we detected increased levels of trapping, more than 2.5 million Song thrushes were legally shot. In winter 2020-21, where trapping was reduced, just over 600,000 Song thrush were legally shot.

Based on the field data gathered by BirdLife Cyprus during spring 2020, autumn 2020 and the winter 2020-21 seasons, it is conservatively estimated that about 406,000 birds could have been killed across the whole of Cyprus in 2020. This is a decrease from the estimated number of birds killed during 2019, a positive result overall. This decrease can mostly be attributed to a significant reduction in mistnet trapping in autumn 2020. For another year, positive progress was noted in the Dhekelia Sovereign Base Area with mist netting levels dropping a further 8% compared to last year's levels. Mist net trapping levels also dropped within the Republic, however these levels have been fluctuating over the past few years and an increase in limestick trapping has been noted within the Republic. We believe this can be attributed to relaxations in the law approved by the Cyprus parliament, and especially changes to the on-the-spot fine amendment which mean a fine of only 200 euro being issued for the offences of illegal trapping with limesticks or the killing with shotgun of up to 50 birds from a list of 14 specific bird species.

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Appendix 1

The following key assumptions are applied for the estimation of the birds killed:

- 12 metres is the assumed average length for a mist net.
- 20 birds are caught per 12-m net per day (Magnin, 1986).
- 0.5 birds are caught per limestick per day.
- 40 days is the duration of the trapping period for winter seasons.
- 50% scaling down factor – applied for spring and winter seasons to account for a lower number of migrating birds passing via Cyprus compared to the autumn
- Net ride categories 'ANN' (Active No Nets), 'ASN' (Active Set Nets) and 'AUN' (Active Unset Nets) nets are assumed that they are active every day during the trapping season (read Appendix 1 for details on net ride classification).
 - Note: Net ride category 'P' (Prepared) is not taken into account for the estimation of numbers of birds killed anymore, following the recommendation of BTO science experts (BTO report, July 2015) to revise slightly the equation.

Using the above assumptions the bird death toll is estimated as follows for winter:

For nets = [(Total length of ANN+AUN+ASN rides)] / (average length of a net) x (20 birds per net per day) x (length of trapping season in days) x (50% scaling down factor)
= $166/12 \times 20 \times 40 = 11,067 \times 50\%$
= 5,534

For limesticks = (Total number of limesticks found) x (0.5 birds per limestick per day) x (length of trapping season in days) x (50% scaling factor)
= $2 \times 0.5 \times 40 = 40 \times 50\%$
= 20

Estimated number of birds killed in both nets/netrides and on limesticks found during our survey = 5,554

Appendix 2

Survey data for winter 2020-21

Details of the active trapping sites detected during the winter 2020-21 survey

Confidential Information. Only provided upon approval of request.

Appendix 3

Summary of winter field data of mist netting activity from 2007-08 to 2012-13.

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Total squares surveyed	44	44	81	53	39	38
Total active net rides (m)	497	804	3830	936	616	384
Mist nets <i>in situ</i> (no)	22	3	31	11	34	14