



Supplementary feeding of Turtle Doves

Information & recommended protocol from Operation Turtle Dove



The Turtle Dove is a migratory bird that winters in West Africa and returns to Europe in spring to breed. Turtle Dove numbers have declined dramatically in the UK and elsewhere across their European breeding range. However, we now know the key problems Turtle Doves have faced and we know what conservation actions are needed to address these. With guidance and help from Operation Turtle Dove, you can play a part in the recovery of this culturally significant bird.

What do Turtle Doves need?

Turtle Doves require three key breeding season resources:

1. **Food:** Turtle Doves feed on the ground, almost entirely on seeds of low growing wild plants or spilt crop seeds. They need sparse vegetation and or patches of open ground to be able to find the seeds.
2. **Nesting habitat:** they nest in dense woody vegetation, particularly tall, dense thorny broadleaved scrub or tall, wide hedgerows.
3. **Accessible water:** such as a shallow-sided pond.

Why is supplementary feeding important?

Research has shown that a loss of suitable and accessible seed food has been the most significant factor in driving the decline of Turtle Doves in the UK. A lack of seed food in the wider countryside has affected both adult and young Turtle Doves. Evidence shows that where birds have access to suitable seed food, this has a positive impact on adult and chick body condition and higher survival of young immediately after leaving the nest.

Plants that produce suitable seeds for Turtle Doves can be encouraged using a variety of measures ([see separate guidance from Operation Turtle Dove](#)). However, in some situations this can be challenging, particularly early in the breeding season.

For this reason, and due to the steep decline in numbers of this bird in the UK, we are now recommending supplementary feeding as a helpful emergency conservation measure in all areas where Turtle Doves still breed.

Providing supplementary food for Turtle Doves when they return to the breeding areas in spring will help to ensure adult birds are able to get into good breeding condition and will help to bridge the gap when native wildflower seed is scarce.

Supplementary feeding can be an important stop gap measure to support the longer term aim of providing forage areas of native wild arable plants. Research has shown that native arable plant seeds provide the best nutritional value for growing Turtle Dove chicks.



Suitable Turtle Dove forage habitat, with native arable plants and areas of bare ground.

Supplementary feeding trials for Turtle Doves showed that feeding – using the methods and protocol described here – is effective and safe, with no evidence of increased risk of disease transmission between birds. Therefore, Operation Turtle Dove recommends that the protocol described here is followed closely to maintain this effectiveness and safety.

Other seed-eating bird species of conservation concern may also benefit from supplementary feeding, possibilities including: Grey Partridge, Skylark, Linnet, Bullfinch, Yellowhammer and Reed Bunting.

What supplementary seed to use

- Operation Turtle Dove only recommends feeding with a mix of suitable seed types, not just a single seed, to provide better nutritional variety.
- The most suitable seed types include: oil seed rape, feed white millet, feed red millet, canary seed, sunflower hearts or other oil-rich seeds of similar size.
- The exact mix can vary, for example due to annual variation in crop availability and pricing but, as a minimum we recommend that any supplementary seed mix for Turtle Doves should contain at least three seed types, with no more than 10% wheat in any mix, and at least 10% of any other single component.
- This should ensure a minimum nutritional balance and quality. Each feeding site will require at least 75kg of the seed mix each year. This will be enough to enable weekly deployment of the supplementary feed for 12 weeks.

Location and management of feed areas

- Supplementary food should be located near to (within 300m of) good Turtle Dove nesting habitat – eg. tall thick hedges or areas of dense thorny scrub. If there is local knowledge of where Turtle Doves are currently breeding, or have nested recently, supplementary food is best placed within 300m of these locations.
- The feeding site must be a bare surface free of vegetation or have vegetation that is short (<15cm) and patchy, including at least 30% (preferably 50-60%) bare areas. Farm tracks and hard-standing are often suitable.
- If the vegetation grows to cover the ground and becomes taller than 15cm before late June, it should be cut back or rotovated.
- If for any reason the original feeding site cannot be maintained throughout the breeding season, eg. because the vegetation becomes too overgrown or there is build up of uneaten seed, then the seed should be moved as short a distance as possible to a location that is suitable.
- Suitable supplementary feeding sites could include stubbles, other fallow or recently established or cultivated areas (including fallow or seed plots), bare or sparsely vegetated tracks, hard standing, very short grass etc. Avoid areas of existing botanical interest.
- The fed area should be a strip 50m long by 5m wide, or similar.
- Feeding stations should be in an open location, and not under tree canopy. On farmland they can be located either in-field or adjacent to field boundaries. Maintaining the supplementary feeding site in the same location through a breeding season is the preferred method.

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When, and how much to feed

- Supplementary feeding for Turtle Doves should be carried out from at least the first week of May to the end of July. Starting earlier (mid-April) and continuing later (up to end of August) can also be beneficial and is recommended wherever possible.
- Seed should be put out each week; spun or scattered to spread it thinly and evenly across the whole feeding site, to avoid creating piles or trails of seed. 6kg of seed per week over a 50m x 5m feeding site is the recommended rate.
- This low rate of seed delivery has been tested and found to be safe for preventing a build up of pathogens. If you want to provide more seed then consider putting in more than one feeding plot.
- If there is a visible build-up of unused food, stop feeding for at least one week to reduce the chance of pathogen build-up.



Farm tracks can make suitable supplementary feeding sites.

Other considerations

- Supplementary feeding for Turtle Doves can now be paid for as part of a Countryside Stewardship agreement (SP9 Species Supplement). Talk to your local Operation Turtle Dove or Natural England advisor for more details.
- If you are in an agri-environment scheme such as Countryside Stewardship you may need to seek permission from Natural England if the area selected for the supplementary feed is within an agreement option. Contact your local Natural England Advisor for more information.
- Seed-eating birds other than Turtle Doves are highly likely to find and use this supplementary food. The presence of other birds should not prevent use by Turtle Doves, and indeed may alert Turtle Doves to the presence of the seed. Trail cameras can be a good way of monitoring what is using your feeding sites.
- If you have any concerns about bird disease in your local area, please contact your local Turtle Dove advisor. Options include moving supplementary feeding areas to a different location or temporarily stopping feeding.

