For answers to all of your farm wildlife enquiries, visit www.farmwildlife.info

See also the RSPB Scotland advisory sheets on:

archaeological interest. sites or those with Avoid floristically diverse

boundary features and overhead wires. Locate scrapes away from

Lots of muddy edges are important – edges should be gently sloping.

way of providing wet features in a field. • Scrapes can be a simple

KEY POINTS





FARMING AND CROFTING FOR WIL

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Midlothian EH28 8LTTel: 0131 472 4000 NFU Scotland, Head Office, Rural Centre - West Mains, Ingliston,

NFUScotland

Tel: 0131 535 4000 Agins Road, Edinburgh EH9 3JG College), King's Buildings, West SAC (Scottish Agricultural



EH4 3TP Tel: 0131 311 6500 25 Ravelston Terrace, Edinburgh RSPB Scotland, Dunedin House, The Advisory Manager,



You can get further information on this and other ways of managing your farm for wildlife from:

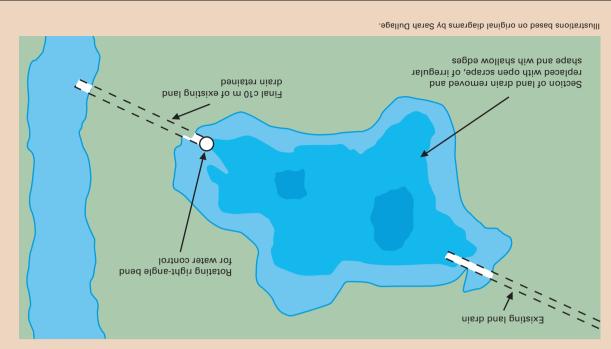


Figure 2. Scrape creation utilising existing land drain - plan view

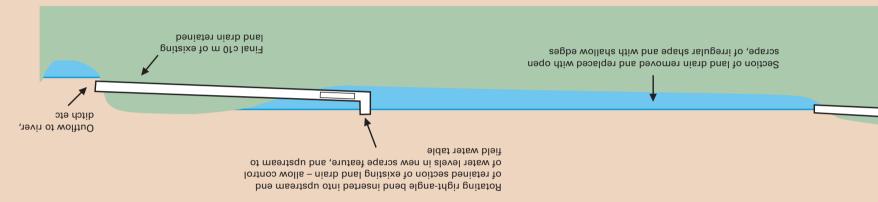


Figure 1. Scrape creation utilising existing land drain - cross-section view



Above: Declining farmland birds, such as lapwings, redshanks and snipe, will benefit from scrape creation. Note the muddy edges on this scrape.

Scrapes are shallow depressions with gently sloping edges, which seasonally hold water. They create obvious infield wet features that are attractive to wildlife.

They can be created on areas of damp grassland, upland in-bye land and on arable reversion on floodplains.

BENEFITS FOR WILDLIFE

Scrapes provide insect-rich areas where birds can feed

They support high densities of nonbiting midge larvae, aquatic insects and around their edges, earthworms. These are important food for wading birds like lapwings and redshanks, and for wader

chicks. Other farmland birds like tree sparrows will also benefit.

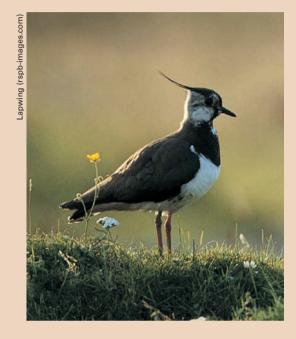
Scrapes should hold water from March to late June, though water levels can recede as the spring progresses. They may dry out by late summer/autumn.

Location

The location of scrapes will depend on many factors, including:

- Soil type
- The presence of existing damp areas in a field
- Existing land drain locations
- Field boundaries and other features such as overhead wires
- Existing flora and fauna, SSSI designations and archaeological features

Impermeable soils will be best suited to scrape creation. If surface soils are impermeable, for example clays and silts, ensure scrape depth does not break through to permeable soils below. On permeable soils, for example peat, if the water table in the soil is high, creating scrapes will 'break through' to the water, creating obvious in field wet features. Scrapes are also useful if raising the water table within the field itself is not possible, perhaps because it would cause impacts on a neighbour's land. When locating scrapes all of the above factors need to be considered. Locate scrapes at least 100 m from field boundaries such as hedges and woodland, and away from overhead lines, to help increase their attractiveness to ground-nesting wader species. Fields over 3 ha are best. Avoid areas with apparent existing floristic diversity – these may already be good wildlife habitats – and also take advice about features of landscape, historical or archaeological importance, as scrapes may not be appropriate in some situations. Scrapes can be created on slight slopes. See notes under 'Spoil'.



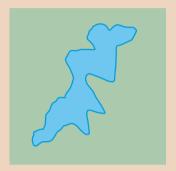
Scrape depth, shape and size

Scrapes need to be shallow, though not with a uniform depth across the whole area. Deeper areas towards the middle of the scrape should be no more than c45 cm. These deeper areas may stay damp even in drier periods. The most important part of the scrape is the edge, and the more edge there is on a scrape the greater the feeding area it offers. Edges should be kept gently sloping and very shallow. A scrape can be any shape, although an irregular outline creates a much greater edge effect than a regular one, so a linear scrape that winds across the field is better than a 'round' scrape (see diagrams right). However, on some sites a linear scrape may be unpractical and a round scrape can be used instead.

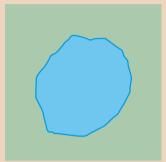


Picture 1: Linear scrape with muddy edges

Scrapes can vary in size depending on the field size and the location. The suggested minimum size of a scrape is approximately 20 m². Three of these per hectare would represent a good level of habitat provision.







More edge effect

More edge effect

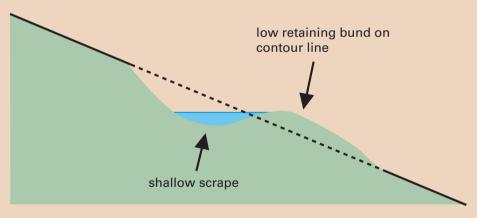
Less edge effect

Management of the sward in the field may also be a factor when deciding on scrape design. If mowing is used, keep the scrape layout simple. Shallow scrapes can be 'mown through'.

Spoil

The scrape must be kept open. Spoil from the newly created scrape should be spread thinly across the surrounding field surface. If spoil is piled in a 'bund' alongside the scrape, it should be kept very low. Scrapes can be created on slight slopes, in which case follow the contours of the slope, and use the spoil to create a low retaining bund on the downhill side of the scrape (see diagram below).

Figure 2. Creating a scrape on a slight slope



In and out flows

Creating scrapes where water levels can be controlled will be beneficial. Scrapes can be created along ditch lines where they are fed from the ditch (see picture 2), or it may be possible to divert a supply of water to feed the scrape.



Picture 2: Scrape created by blocking a ditch with a simple concrete dam, then excavating a shallow scrape behind the dam, using the ditch as a water source.

Providing an outflow with a control sluice will allow levels in the scrape to be controlled. Figures 1 and 2 illustrate creating a scrape by using an existing land drain.

Field and scrape management

Once the scrape is created, it is important to manage the surrounding area to maintain the effectiveness of the scrape. Graze the field and scrape area, ideally with cattle (picture 3), to create a varied sward structure (predominantly short but with scattered rushes and tussocks). During the bird breeding season, use the minimum number of stock necessary to create this target sward structure.





Picture 3: Belted Galloway grazing next to a newly-created scrape as part of a wet grassland management programme

Allowing cattle access to the scrape will puddle the edges and keep marginal vegetation short. This will help to maintain good open wader feeding areas.