Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
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The Joint Agency Statement on Deer Fencing was published in June 2004 and represents a policy collaboration between the Deer Commission Scotland, Scottish Natural Heritage, Forestry Commission Scotland and the Scottish Government.

Deer fencing, when properly planned for, constructed and maintained, can be an effective way of controlling deer to allow different land-uses to co-exist in close proximity and to protect public safety.

For the purpose of this guidance, a deer fence is defined as a fence of at least 1.8 metres high made with wooden or metal posts to which line wires and/or wire mesh is attached. It is recognised that any fence, including rabbit and stock fences, may have direct affects on wild deer and the wider environment. The Agencies plan to keep under review the need to prepare deer-related guidance inclusive of all fencing types and specifications.

The Joint Statement seeks to promote best practice and to assist both private individuals and public sector agencies in deciding whether to approve and/or financially support deer fencing in situations where fencing is considered more appropriate than culling for achieving required deer densities. It sets out a process for identifying, assessing and mitigating the negative impacts deer fences can have on a number of areas of public interest. The Statement identified high-impact issues in six subject areas and suggested mitigation measures for them:

- public/road safety;
- deer welfare;
- biodiversity;
- landscape and historic environment;
- access; and,
- socio economics.

The Joint Statement sets out clearly the risks and impacts that must be addressed before deer fencing can be approved for public funding. If a fence is funded privately, provided all legal requirements have been met, then the owner may wish to adopt a solution which best suits his/her own needs, following best practice where appropriate Any 'High Impacts' identified by the Joint Statement will require more detailed assessment by the agencies responsible.

This detailed practical guidance is intended to support the *Joint Agency Statement on Deer Fencing* by aiding agency staff and land managers to address any 'high impacts' identified and provide advice on monitoring and potential mitigation.

Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
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Public Safety

Road Traffic Accidents (RTAs) involving deer directly or indirectly are a public safety issue. Collisions with the larger species, red deer in particular, can cause injury to the driver and motorcyclists are vulnerable to impact by any species. Fences can confuse deer that are accustomed to crossing a public road, trapping them on the road and increasing the likelihood of a deer-vehicle collision. Fences can also force many deer to cross a public road in localised areas again increasing the likelihood of a deer-vehicle collision.

The assessment of any public road safety risk associated with a new fence will need to take into account both the characteristics of the road being assessed and seasonal patterns of deer cross movement. For any further information, contact DCS.

Parallel Fencing. Impact that parallel fencing on one side of the road could have on deer movement.		Any new parallel fencing will require a specific maintenance regime to be put in place to control the height of vegetation between the fence and the road edge to ensure adequate visibility on either side of road. As part of the fencing proposal the approaches to all existing, new and planned future deer crossing points of roads must be equipped with warning signs complying with The Traffic Signs Regulations and General Directions. Fencing on one side of the road where deer are used to crossing may require those deer to be culled. Fencing must ensure that deer are not channelled/funnelled to cross roads where visibility is restricted by bends, crests, tall ground cover on and behind verges etc.
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Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
Creation of corridor	Impact of parallel fences close to both sides of a road from which the deer have difficulty escaping.	Parallel fences where deer have access into a corridor will often lead to a high risk of deer/vehicle collision and are considered High Impact.	Parallel fences close to both sides of a road must form part of a closed circuit system i.e. using a physical barrier such as a cattle grid on the road. In this scenario a commitment to regular inspection and maintenance of the fence will be required as any deer entry to the system will result in continuous risk of deer vehicle collisions until such time as an accident occurs or the deer is caught / culled.
Poorly maintained fences	Impact of poorly maintained roadside fencing	Poorly maintained roadside fences can allow deer access to a carriageway and are considered High Impact.	Removal or repair of porous fencing Commitment to annual inspection and maintenance to prevent fence deterioration.
Reducing driver visibility	Impact of Fences on existing sight lines.	The driver's ability to view deer in close proximity to the roadside is critical to allow for appropriate reaction to the potential threat. Fences must be sited and constructed in such a way so as not to interfere with existing sight lines.	Junction visibility splays and widened verges on horizontal curves are examples of engineering measures that provide adequate stopping sight distance in accordance with the speed of traffic using the route. Intrusion into these must be
		Fences that reduce roadside visibility will increase the risk of deer / vehicle collisions and are considered High Impact.	avoided. Further information on minimum available sight distance to the end of a new fence can be sought from DCS or the road authority. The road authority should be consulted during planning. Any new fencing which runs parallel to the road will require a specific maintenance regime to be put in place to control the height of vegetation between the fence and the road edge to ensure adequate visibility on either side of road. The road authority should be consulted

Impact type Screening criteria Factors assessed as High Impact Likely Mitigation options	Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
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Deer Welfare

The erection of a fence preventing access to or enclosing areas of ground that deer rely on for forage or shelter may increase the risk of winter mortality through starvation and exposure. Information on the numbers and movement of deer that rely on the area, from which they are to be excluded, is desirable. This knowledge includes both seasonal movement and response to different weather conditions to ensure that there is an understanding of when the area is of most importance to deer.

Removal of Forage and shelter	Impact of removing land from deer or restricting deer access without culling the deer that rely on the area during some part of the year for food and shelter.	Fences that prevent access to or enclose areas of ground that deer rely on for forage or shelter may increase the risk of winter mortality. Increased mortality of deer through starvation and / or exposure is considered High Impact.	A compensatory cull may be required to compensate for the loss of forage and shelter. Providing access to alternative grazing and shelter may reduce the level of compensatory cull required without compromising deer welfare. This approach will require detailed knowledge of deer movement and availability of alternative shelter.*
Displacement of deer	Impact of Culling 'additional' deer from the population without targeting those that rely on the area being fenced off.	Increased mortality of deer through starvation and / or exposure is considered High Impact.	Culling should follow Best Practice and target deer that rely on the area that is being removed.*

^{*}All mitigation should be accompanied by monitoring and responsive management action

ria Factors assessed as High Impact Likely Mitigation	n options
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Biodiversity

The reduction in deer impacts brought about by fencing can have positive effects on biodiversity. However, the Joint Statement recognises that it can also have negative effects as well. These can be direct – such as where the fence itself creates problems for populations of woodland grouse through bird-strike mortality. They can also be indirect, where the consequences of the fence lead to a change in deer impact – such as a reduction in grazing pressure (which can adversely affect some important plant communities).

The Joint Statement describes these potential negative 'High Impacts' as:

- Fencing close to known woodland grouse lek sites
- Fencing in areas identified as core woodland grouse zones by Forestry Commission Scotland.
- Fencing that causes, or is likely to cause, damage to designated sites or other important habitats for example SAC, SPA, SSSIs and UK Biodiversity Action Plan (BAP) habitats through increased or decreased grazing or trampling pressure. This also include European Protected Species (EPS) which occur outwith designated sites in the case of fencing issues this relates principally to otters, wild cats and bats.

Bird-strike	Proposal located in any of the FCS	Increased likelihood of bird-strike (woodland grouse)	Fence re-siting, fence marking and alternative
	core woodland grouse zones or within	is considered High Impact	fence designs may mitigate the negative 'High
	3km of any known woodland grouse		Impacts' where risk of bird-strike is fairly low.
	lek sites	If the proposal meets any of the screening criteria, FCS	
		Guidance note 11 (Deer and Fencing) will apply in the	
		assessment of the proposal.	
Displacement	The fence line significantly obstructs	Damaging impacts on any designated site or UK BAP	Re-siting of the fence, compensatory cull, design
	traditional deer movement (advice	Priority Habitat will be considered High impact	of downfalls or other access for deer through the
	from DCS should be sought)		fenced area.
EPS	Disturbance of European Protected	The felling or disturbance of large old trees which	Fence designs which will avoid any significant
	Species	could be bat roosts, or fencing in likely otter holts or	
		wild cat dens is considered High impact	avoid any otter entanglement hazard; avoiding
			the need to fell large old trees.

Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
Lack of grazing	The fence will reduce grazing on an	A reduction of grazing that would prevent a special	Monitoring of the site will demonstrate whe
Lack of grazing	SAC, SPA, SSSI or an area which		negative effects are beginning to occur.
	contains significant amounts of UK	, ,	negative circus are segmining to secur.
	BAP Priority Habitats.	life of the fence is considered High Impact.	The need to mitigate a lack of grazing may no
		8 1	be immediate. For example a relatively poor an
	'Significant' in this case will mean	In the wider countryside, where UK BAP Priority	infertile pinewood may be able to withstand
	different amounts depending on the	habitats are present, the assessment will focus on targets	decade without grazing before negative effect
	habitat involved. Reference should be	in the Action Plans and includes:	start to appear. On the other hand a lack of
	made to the reasons for a site's		grazing can be damaging on fertile calcareou
	designation as this should highlight	1	grasslands after only 2-4 years.
	the special features requiring protection. For example upland calcareous grassland is typically present in very small patches, so the 'significant' area would be small – whereas for upland heathland the equivalent might be very large.	grasslands	Mitigation for lack of grazing by deer may b possible through replacement grazing by som other suitable herbivore for part or all of th year. It could include cattle, sheep, or population of deer kept at an appropriate density On some sites mechanical means – swiping of scarification might also compensate for a lack of grazing, at least in the short term. On sites where fire is an integral part of the natural disturbances controlled burning may also be an appropriate

Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
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Access and Recreation

The basis of any consideration of access and fencing is the Scottish Outdoor Access Code (SOAC) approved by the Scottish Parliament in 2004. The Joint Statement notes separately that:

The public have general right of responsible access and, in erecting fences, land managers must make adequate provision for public access.

Thus the 'High Impacts' of fences on access are the obstruction of paths or tracks, and the erection of fences in open country without adequate crossing points. This latter point is clearly dependent on the location and use of the area to be fenced, and thus agencies will require applicants to include in their application a statement or plan describing how these requirements will be met. The nature of the access points will need to consider the likely use and type of access undertaken by the public.

Obstruction of public	The criterion to be assessed is simply	A Fencing proposal without an acceptable access plan is	Design of the fence using gates, stiles,
access	whether the proposal meets the	considered High Impact	river crossings that do not obstruct passage
	SOAC standard, taking into account		on water, and appropriate signage to
	local use and circumstances.		indicate the location of the nearest gate in
			open country situations. Where appropriate
			local or user consultation.

Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
impact type	bereening criteria	ractors assessed as ringir impact	Likely willigation options

Landscape (April 2010)

The erection of a deer fence can potentially have both visual impacts on people who view the structure, and landscape impacts on the character of the local landscape. The exclusion of grazing animals from within an enclosure can result in the development of contrasting vegetation patterns within and outside the fenced area. This contrast has the potential to emphasize the visual impact of the fence-line and have a perceptible effect on the recognised landscape character of the local area.

For all deer fence proposals, an assessment of potential landscape and visual impacts is required. This is an integral part of the overall project design process through which mitigation measures can be determined and possible interconnected benefits identified (for example, through re-routeing a fence line or joining separate exclosures to improve landscape impacts there may also be improved habitat linkages and reduced costs). The level of detail in the assessment should be fit for purpose and will depend on the sensitivity and/or complexity of the proposal. A brief assessment, sufficiently recorded to adequately inform the development of the woodland scheme, may be all that is required for straightforward proposals, but for highly complex and sensitive proposals a detailed, fully recorded assessment, informed by specialist advice is more likely to be required. Whatever the level of assessment, this should follow a systematic approach to identifying any key sensitivities, their potential impacts and the scope for mitigating them; this should include consideration of the Screening Criteria, Likely Mitigation Options and Factors assessed as High Impact summarised within this table. It should be borne in mind that during an assessment any adverse landscape impacts of a deer fence should be balanced against the potential longer term environmental/landscape benefits of the project as a whole.

character

Changes to landscape A proposed fence in a landscape character type sensitive to this kind of development. Key characteristics of such landscapes include:

- large scale landscape;
- openness and sense of exposure;
- simple/ undifferentiated vegetation cover, or rock formations and outcrops;
- steep slopes or flat ground (rather than undulating ground or landform edges);
- lack of, or few, existing built elements or:

After assessment of the Screening criteria and incorporation of appropriate Mitigation options in the design, high impacts could potentially occur where the proposed fence:

- becomes a key characteristic of the landscape;
- contrasts to the existing characteristics of the landscape;
- changes the intrinsic landscape character of the area, including its openness, sense of exposure and simplicity of land cover;
- contrasts to the lie of the land and seems incongruous as a built element;
- reduces the sense of wildness of the landscape.

Review the appropriate LCA² for the local area (and, where available, HLA³) and consider the design of the fence line to:

- Avoid siting fences across open and exposed areas, instead routeing fence lines along concave breaks of slope, crossing ridges through low points.
- Create an exclosure outline that relates to the scale and shape of the landform (e.g. avoiding small isolated blocks in large scale moorland areas), and follows edges/divisions of vegetation pattern (allowing 'natural' woodland margins to expand over time).

Refer to the 'Guidelines for Landscape and Visual Impact Assessment' The Landscape Institute and Institute of Environmental Management and Assessment (Spon Press, 2002)

² Landscape Character Assessments (LCA) by SNH available to view and download from their web-site SNH Publications: http://www.snh.org.uk/pubs/default.asp

³ Historic Land-use Assessment (HLA) by HS/RCAHMS available to review on the HLAMAP web-site: http://jura.rcahms.gov.uk/HLA/start.jsp

Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
	sense of 'wildness' (see also screening criteria for 'Landscape and scenic value of designated landscapes and wild land' section below).		 In areas more dominated by a distinct pattern of land-use and/or field enclosure (such as stone walls or clusters of buildings) route the fence to follow these defining elements. Manage grazing to prevent significant contrasts of vegetation developing between the inside and outside of the exclosure, and trampling along fence lines. Avoid running fencelines across steep slopes, particularly perpendicular to the contours.
Visual resource, including visibility, key views and visual composition	 A proposed fence within a visually sensitive landscape that would be: visible from an extensive area; seen in key views, including: from within or from the edge settlements; from a public road or footpat from popular viewpoints; or from areas popular for recreation, such as along the coast, loch-sides or watercourses; within an area of visual composition that contains few visual elements or has an indistinct arrangement of elements. 	distinctive focal feature or; where the fence has a dominating or defining influence on views, including where it contrasts to the characteristic arrangement of visual elements within views.	Assessment of predicted visual impacts may be informed by visualisations, such as computer-generated wireline diagrams. Potential mitigation measures (not all will be appropriate for all landscapes) include: • Route the fence within or near the edge of woodland; • Locate the fence away from key viewpoints and routes providing sequential views (roads and footpaths); • Route the fence within depressions and off skylines so that it is backclothed within key views; • Route the fence along distinct linear features (such as the concave break of slope or an existing hedgerow) and avoid areas that do not contain existing linear features; • Select a visually less prominent design of fence (for example, using horizontal wires rather than netting for the upper half), or

Impact type	Screening criteria Fa	ctors assessed as High Impact	Likely Mitigation options
Landscape and scenic	Designated landscapes		route and design the fence to extend along existing boundary walls or hedges; • Avoid visibility of multiple fence-lines within a local area (same or mixed type of fence), including parallel lines; • Route the fence to avoid key sightlines from sensitive viewpoints.
value of designated landscapes and wild land	A proposed fence within an area designated for its landscape and scenic value, including: National Park (NP); National Scenic Area (NSA); local landscape designation included within development plans (now described as Local Landscape Areas in the 2010 Scottish Planning Policy). Or, a proposed fence within a non-designated area, but of recognised value (eg popular for visitors/local recreation) including areas with the potential for recreation (such as parks, hill tops historic monuments and loch-sides).	of the Screening Criteria and incorporation of appropriate Mitigation Options in the design, high impacts could potentially occur if the fence has significant adverse impacts on the special character or qualities of the landscape, or how these are experienced (for example, obstructing or detracting from views to existing focal features or landmarks). Specifically, within a National Park or National Scenic Area (in line with Scottish Planning Policy, paragraphs 137-138, February 2010) high impacts would occur where the integrity of the area or qualities for which it has been designated would be adversely affected.	 Mitigation measures should specifically address landscape and visual impacts that would affect the qualities for which these areas are valued. Avoidance; for example, omitting or rerouteing a fence so that it is not within or visible from the area of recognised landscape and scenic value. Modifying the route and/or design of the fence so that, while it may be visible from the area of recognised landscape and scenic value, it does not affect the special qualities for which it is valued.
	Wild land A proposed fence within or visible from an area of wildness (see also 'Changes to landscape character' section above) including within Search Areas for Wild	the wild land quality of an area, including its margins. High impacts could potentially occur	It is difficult to mitigate the impacts of fences on areas of wildness/wild land if they are visible, although the overall magnitude of adverse impact may be reduced, eg by: Locating a fence so that it has only local

Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
	Land as part of SNH Policy States 'Wildness in Scotland's Countryside areas identified by Local Authorities. Guidance on assessing impacts wildness is provided in the SNH Postatement and Interim Guidance 'Assessing the Impacts on Wild Land	on olicy Note interior of a wild land area; would result in considerable change to an area visited by people for the experience of its wildness qualities; would result in a significant loss, or extensive change, to a marginal area with wildness	 impacts at the margins of an area with wildness qualities; Replacing an existing fence with a new fence to a sensitive design may have less adverse impacts. A fence creates a very large exclosure which allows the establishment/repair of native vegetation over a wide extent and natural range that appears 'wild' and, on assessment of relative benefit, has greater positive impacts than the negative impacts of the fence itself.

⁴ 'Wildness in Scotland's Countryside' SNH Policy Statement (July 2002) available to view and download from SNH web-site: http://www.snh.org.uk/strategy/pd02c.asp

Impact type	Screening criteria	Factors assessed as High Impact	Likely Mitigation options
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Historic Environment

A deer fence can have a potential impact on the historic environment, and specifically the setting of ancient monuments and the integrity of archaeological sites along the chosen fence line. Changing grazing patterns can also have an adverse effect on or damage cultural heritage features.

Archaeological sites	Fencing that detracts from the	Fence line proposed within 100m of a:	If triggered for detailed assessment,
and cultural heritage	integrity or setting of cultural	site in the Inventory of Gardens and Designed	mitigation measures will be determined
features	heritage, Scheduled Monuments,	Landscapes	from that appraisal.
	other archaeological sites or historic	Scheduled Monument	
	landscape features.	 curtilage of a listed building 	If a detailed assessment is not triggered,
		 other formally recognised and significant historic sites 	then to minimise its impact the fence line
		and/or cultural landscapes	should be positioned to:
			 avoid Scheduled Monuments, other
		and / or will detract significantly from:	archaeological and historic sites and
		 the setting of archaeological and historic sites and 	features
		features	Conserve the integrity of their setting
		• a significant cultural landscape (e.g. battlefield site,	and allow inter-visibility of
		area of prehistoric field systems, or post-medieval	demonstrably linked, significant
		clearance settlements)	archaeological and historic sites.
		Trigger for detailed assessment:	
		Fence line proposed within or near to any of the above	
		features will require consultation with the appropriate	
		authority for determination of the need for a detailed	
		assessment. N.B. fence line proposals that are considered	
		likely to have an adverse affect on Scheduled Monuments are	
		unlikely to be approved.	

For information and advice on scheduled monuments, consult Historic Scotland; for all other sites, consult the relevant local authority (Sites and Monuments Record). Information on the location of cultural heritage sites and monuments can also be found at www.pastmap.org.uk

For a project requiring a detailed assessment reference should be made to 'Guidelines for Landscape and Visual Impact Assessment (Second Edition) (see Landscape above).

mpact type Screening criteria	Factors assessed as High Impact	Likely Mitigation options
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Socio-economic Factors

Increased public involvement in preparing development plans is a key priority for Scottish Ministers (Scottish Planning Policy 15: Planning for Rural Development). The public and particularly communities, have an increasing wish to be engaged in and to influence developments which have a significant effect on their area. Significant developments should not happen 'out of the blue' but rather they should be well planned and sensitive to local circumstances. There will be clear overlap with other categories – in particular access and road safety

Engagement with local	Poor or non-existent engagement	Proposals which will impact negatively and significantly	Engagement should involve recognition		
communities, businesses	mechanisms	on communities, business viability, employment and	of local issues and sensitivities including:		
and neighbouring land		neighbouring land owners/managers without their	local businesses, employment, loss of		
owners/managers.		knowledge will be regarded as potentially high impact.	traditional skills, current or potential deer		
			damage to residential property,		
			significant impacts on recognised tourist		
			corridors and issues of road safety.		
			 Early community liaison & 		
			communication in place		
			Early, collaborative approach to deer management planning.		
			management planning.		
			• Clear simple statements of plans and timescales.		
			 Assessment of costs and benefits 		
			where such information is available.		
			Consideration of local sourcing of		
			supplies and labour.		

Checklist

This form is designed to provide an initial check on the issues that need to be addressed when considering a specific fencing proposal. Using this checklist, it is possible to identify whether there are 'high' impact implications associated with a proposed fence. If any of the tick boxes are marked 'Yes', then a detailed assessment of that aspect will be required before appropriate mitigation is considered, as outlined in accompanying guidance.

Public Safety	YES	NO
Will the proposed fence, or a combination of the proposed fence and topography increase the likelihood of deer being funnelled onto public transport routes?		
NOTES		I
Will the proposed fence run parallel to public transport routes for more than 50 m? NOTES		
Will the proposed fence impact on existing driver sight lines? NOTES		
Deer Welfare	YES	NO
Deci Wellare	ILO	110
Will the proposed fence require deer to be culled to prevent any welfare issue from arising? NOTES		
Biodiversity	YES	NO
Is the proposed fence within any of the FCS core woodland zones?		
NOTES		
Is the proposed fence within 3km of any known woodland grouse lek sites?		
NOTES	1	T
Will the proposed fence line affect a designated site (SAC, SPA or SSSI) or UK BAP Priority Habitats? Is it on a designated site or will it impact on how deer use a site?		
NOTES		
Access and Recreation	YES	NO
Is there an acceptable access plan accompany the fencing proposal?		
NOTES		
Landscape and historic environment	YES	NO
Is the fencing proposal out of keeping with the landscape character e.g. in prominence, location or scale?	TES	NO
NOTES	ı	I
Can the fence line be viewed from publicly accessible vantage points such as settlement edge, roads, recognised footpaths or recognised viewpoints?		
NOTES	•	•
Will the fencing proposal affect the integrity of an area designated for its landscape qualities or the integrity of undesignated areas of land with wild land qualities?		
NOTES	1	
Is the fence line proposed within or near to a: Site in the Inventory of Gardens and Designed Landscapes, Scheduled Monument or the curtilage of a listed building,		
NOTES		