Improvement Programme for England's Natura 2000 Sites (IPENS) Planning for the Future

# Site Improvement Plan Somerset Levels & Moors

Site Improvement Plans (SIPs) have been developed for each Natura 2000 site in England as part of the Improvement Programme for England's Natura 2000 sites (IPENS). Natura 2000 sites is the combined term for sites designated as Special Areas of Conservation (SAC) and Special Protected Areas (SPA). This work has been financially supported by LIFE, a financial instrument of the European Community.

The plan provides a high level overview of the issues (both current and predicted) affecting the condition of the Natura 2000 features on the site(s) and outlines the priority measures required to improve the condition of the features. It does not cover issues where remedial actions are already in place or ongoing management activities which are required for maintenance.

The SIP consists of three parts: a Summary table, which sets out the priority Issues and Measures; a detailed Actions table, which sets out who needs to do what, when and how much it is estimated to cost; and a set of tables containing contextual information and links.

Once this current programme ends, it is anticipated that Natural England and others, working with landowners and managers, will all play a role in delivering the priority measures to improve the condition of the features on these sites.

The SIPs are based on Natural England's current evidence and knowledge. The SIPs are not legal documents, they are live documents that will be updated to reflect changes in our evidence/knowledge and as actions get underway. The information in the SIPs will be used to update England's contribution to the UK's Prioritised Action Framework (PAF).

The SIPs are not formal consultation documents, but if you have any comments about the SIP or would like more information please email us at IPENSLIFEProject@naturalengland.org.uk, or contact Natural England's Responsible Officer for the site via our enquiry service 0300 060 3900, or enquiries@naturalengland.org.uk

This Site Improvement Plan covers the following Natura 2000 site(s)

UK9010031 Somerset Levels & Moors SPA

## **Site description**

The Somerset Levels and Moors are located in south-west England and are one of the largest and richest areas of traditionally managed wet grassland and fen habitats in lowland UK.

The SPA is within this area, and covers about 35,000 ha in the floodplains of the Rivers Brue, Parrett, Tone and their tributaries. The majority of the site is only a few metres above mean sea level and drains through a large network of ditches, rhynes, drains and rivers. Flooding may affect large areas in winter depending on rainfall and tidal conditions. Parts of the site in the Brue Valley include areas of former raised peatbog that have now been substantially modified by agricultural intensification and peat extraction. This has created areas of open water, fen and reedbed. The site attracts important numbers of waterbirds (swans, ducks and waders) in winter.

A further detailed description of the area can be found in National Character Area profile 142: Somerset Levels and Moors.

## **Plan Summary**

This table shows the prioritised issues for the site(s), the features they affect, the proposed measures to address the issues and the delivery bodies whose involvement is required to deliver the measures. The list of delivery bodies will include those who have agreed to the actions as well as those where discussions over their role in delivering the actions is on-going.

Priority & Issue	Pressure or Threat	Feature(s) affected	Measure	Delivery Bodies
1 Drainage	Pressure	A037(NB) Bewick's Swan, A050(NB) Wigeon, A052(B) Eurasian teal, A056(NB) Shoveler, A140(NB) Golden Plover, A142(NB) Northern lapwing, Waterbird assemblage	Water levels managed for SPA birds	Environment Agency, Natural England, Parrett IDB, Axe Brue IDB
2 Inappropriate water levels	Pressure	A037(NB) Bewick's Swan, A050(NB) Wigeon, A052(B) Eurasian teal, A056(NB) Shoveler, A140(NB) Golden Plover, A142(NB) Northern lapwing, Waterbird assemblage	Reduce impacts of deep and prolonged flooding	Environment Agency, Internal Drainage Board(s) (IDB), Natural England, Parrett IDB, RSPB, Somerset Wildlife Trust, Landowner(s), National Farmers' Union (NFU), Country Land and Business Association (CLA), Farming & Wildlife Advisory Group (FWAG), The Royal Bath & West of England Society
3 Maintain and upgrade water management structures	Pressure	A037(NB) Bewick's Swan, A050(NB) Wigeon, A052(B) Eurasian teal, A056(NB) Shoveler, A140(NB) Golden Plover, A142(NB) Northern lapwing, Waterbird assemblage	Restore hydrology by upgrading and maintaining water management infrastructure	Environment Agency, Natural England, Parrett IDB

4 Change in land management	Threat	A037(NB) Bewick's Swan, A050(NB) Wigeon, A052(B) Eurasian teal, A056(NB) Shoveler, A140(NB) Golden Plover, A142(NB) Northern lapwing, Waterbird assemblage	Secure appropriate land management for conservation, by maintaining good working relationships with land owners	Defra, Environment Agency, Internal Drainage Board(s) (IDB), Natural England, RSPB, Somerset Wildlife Trust, Wildfowl and Wetlands Trust, Farming & Wildlife Advisory Group (FWAG)
5 Agricultural management practices	Threat	A037(NB) Bewick's Swan, A050(NB) Wigeon, A052(B) Eurasian teal, A056(NB) Shoveler, A140(NB) Golden Plover, A142(NB) Northern lapwing, Waterbird assemblage	Maintain and improve the 'drove' network, to provide the necessary access for farming activities	Environment Agency, Internal Drainage Board(s) (IDB), Natural England
6 Peat extraction	Pressure	A037(NB) Bewick's Swan, A050(NB) Wigeon, A052(B) Eurasian teal, A056(NB) Shoveler, A140(NB) Golden Plover, A142(NB) Northern lapwing, Waterbird assemblage	Cessation of peat extraction, to curtail adverse impacts	Defra, Developer, Natural England, Somerset County Council, Somerset Wildlife Trust, Upper Brue IDB
7 Public Access/Disturbance	Pressure	A037(NB) Bewick's Swan, A050(NB) Wigeon, A052(B) Eurasian teal, A056(NB) Shoveler, A140(NB) Golden Plover, A142(NB) Northern lapwing, Waterbird assemblage	Minimise disturbance to wintering birds	Environment Agency, Natural England, RSPB, Somerset Wildlife Trust
8 Offsite habitat availability/ management	Threat	A037(NB) Bewick's Swan, A050(NB) Wigeon, A052(B) Eurasian teal, A056(NB) Shoveler, A140(NB) Golden Plover, A142(NB) Northern lapwing, Waterbird assemblage	Improve the knowledge of off-site habitat function and use by the SPA bird assemblage	Natural England, RSPB, Wildlife Trust, British Trust for Ornithology (BTO)

## **Issues and Actions**

This table outlines the prioritised issues that are currently impacting or threatening the condition of the features, and the outstanding actions required to address them. It also shows, where possible, the estimated cost of the action and the delivery bodies whose involvement will be required to implement the action. Lead delivery bodies will be responsible for coordinating the implementation of the action, but not necessarily funding it. Delivery partners will need to support the lead delivery body in implementing the action. In the process of developing the SIPs Natural England has approached the delivery bodies to seek agreement on the actions and their roles in delivering them, although in some cases these discussions have not yet been concluded. Other interested parties, including landowners and managers, will be involved as the detailed actions are agreed and delivered. Funding options are indicated as potential (but not necessarily agreed or secured) sources to fund the actions.

#### 1 Drainage

Excess drainage can result in the problem of low water levels in winter time. This reduces the extent of feeding and roosting sites for SPA birds. Drier soils are detrimental to wetland birds as they rely on the invertebrate assemblages of wet soils for their food. As the soils dry, the invertebrates move deeper into the soil and the soils become too hard for them to probe.

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
1A	Review of existing Water Level Management Plans as stated in the Somerset Levels 20 year plan. Ensure any changes are compatible with the SPA.	Not yet determined	2014-16	Water Level Management Plan	Defra	Parrett IDB	Environment Agency, Natural England, Axe Brue IDB
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#### 2 Inappropriate water levels

Summer flooding and prolonged and deep winter flooding has been a major problem on the Somerset Levels . These events can reduce the extent of feeding and roosting sites for SPA birds. Over areas where the water is too deep, probing birds are unable to reach food sources.

Act	on Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
2A	Seek to incorporate flood risk management into the integrated advice and support provided to assist land managers. Include flood risk management alongside water quality as part of the aims for the local Catchment Sensitive Farming Initiative or its equivalent under NELMS.	£3,000,000	2015-20	England Catchment Sensitive Farming (CSF)	Rural Development Programme (RDPE)	Natural England	Environment Agency, RSPB, Somerset Wildlife Trust, National Farmers' Union (NFU), Country Land and Business Association (CLA), Farming & Wildlife Advisory Group (FWAG), The Royal Bath & West of England Society

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
2B	Maintain rivers, small watercourses and infrastructure in condition in order to achieve desired water levels on for SPA birds (this action and cost encompasses the whole catchment area as featured in the Somerset Levels Flood Action Plan)	£6,000,000	2015-20	Flood Risk Maintenance Programme: Management Of Vegetation	Environment Agency, Internal Drainage Board (IDB)	Parrett IDB	Environment Agency, Natural England, Parrett IDB, Landowner(s), Axe Brue IDB
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
2C	Restore flood resilient grassland, especially on Curry & Hay Moors via the Farm Recovery Fund and agri- environment schemes.	£50,000	2014-17	Habitat creation / restoration strategy: Other	Defra, Rural Development Programme (RDPE)	Natural England	Landowner(s)
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
2D	Improve telemetry to monitor water levels across the Somerset Levels and Moors SPA. IDBs have installed a number of new monitoring sites in recent years. EA has identified a number of new locations where useful information could be gathered following the winter flooding in 2012/13 and 2013/14.	Not yet determined	2015-20	Water Level Management Plan	Environment Agency, Internal Drainage Board (IDB)	Parrett IDB	Environment Agency, Internal Drainage Board(s) (IDB)

#### 3 Maintain and upgrade water management structures

Old Raised Water Level Area (RWLA) management structures do not hold water, or they are designed to drain the sites. Raised water level areas are key habitats managed specifically for wintering birds.

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Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
3A	Maintenance of Raised Water Level Area (RWLA) structures.	£300,000	2015-20	Rural Development Programme for England (RDPE): Common Agricultural Policy 2014-20 (New Environmental Land Management Scheme)	Rural Development Programme (RDPE)	Natural England	n/a
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
3B	Replace water control structures on priority sites including West Moor, North Moor, Shapwick Heath, Catcott and Burtle.	£300,000	2015-20	Water Level Management Plan	Environment Agency, Internal Drainage Board (IDB)	Parrett IDB	Environment Agency, Natural England

#### 4 Change in land management

Most of the SPA is covered by Higher Level Stewardship agreements and this is important in supporting appropriate habitat management including appropriate livestock levels. Landowners may decide to come out of agreements at the 5 year break point, especially for land that is within the Raised Water Level Area (RWLA) and this is a risk. This could reduce the extent of appropriately managed wet areas important for SPA birds.

Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
4A	Provision of advice by Natural England to improve farming management for SPA birds.	Not yet determined	2015-20	Advice: Education & awareness raising	Natural England	Natural England	RSPB

Action 4B	Action description Where appropriate, secure long term conservation management of land necessary to sustain SPA features (includes land purchase schemes).	Cost estimate £1,400,000	<i>Timescale</i> 2016-25	<i>Mechanism</i> Mechanism not identified / develop mechanism	Funding option EU Life, Natural England, Heritage Lottery Fund (HLF), Voluntary conservation organisation	Delivery lead body Local partnership	Delivery partner(s) Natural England, RSPB, Somerset Wildlife Trust, Wildfowl and Wetlands Trust, Farming & Wildlife Advisory Group (FWAG)
Action <b>4C</b>	Action description Identify solutions to the possible loss of funding from HLS on National Nature Reserve land.	Cost estimate Not yet determined	<i>Timescale</i> 2015-18	<i>Mechanism</i> National Nature Reserve (NNR) management plan	Funding option Rural Development Programme (RDPE)	<i>Delivery lead body</i> Natural England	<i>Delivery partner(s)</i> Defra, Environment Agency
Action <b>4D</b>	Action description Provision of land management advice to landowners by conservation organisations.	<i>Cost estimate</i> £100,000	<i>Timescale</i> 2015-20	<i>Mechanism</i> Partnership agreement	Funding option Working Wetlands (WOW) project	<i>Delivery lead body</i> Local partnership	Delivery partner(s) Internal Drainage Board(s) (IDB), Natural England, RSPB, Somerset Wildlife Trust, Farming & Wildlife Advisory Group (FWAG)

Action 4E	Action description Monitor and investigate trends in SPA bird numbers.	Cost estimate £5,000	<i>Timescale</i> 2016	<i>Mechanism</i> Investigation / Research / Monitoring	<i>Funding option</i> Natural England	<i>Delivery lead body</i> Natural England	<i>Delivery partner(s)</i> RSPB, British Trust for Ornithology (BTO)
	ricultural management practices						
	pility of the land manager to access the						
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
5A	Improve and maintain farmers' access to fields, for the management of wet grasslands.	£100.000	2016-20	Partnership agreement	Not yet determined	Natural England	Environment Agency, Internal Drainage Board(s) (IDB)
Ongoi Action	at extraction ng extraction of peat occurs in two area Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
Ongoi	ng extraction of peat occurs in two area	_					
Ongoin Action 6A	ng extraction of peat occurs in two area <i>Action description</i> Affirm, revoke or modify ongoing	Cost estimate	Timescale	<i>Mechanism</i> Regulation: Other - obtain appropriate	Funding option	<i>Delivery lead body</i> Somerset County	Delivery partner(s)

7 Pul	blic Access/Disturbance						
	alking and other activities can cause a becific NNRs.	ppreciable disturl	bance to SPA bi	rds. Priority sites includ	le Raised Water le	vel Areas, droves not desi	gnated as access routes,
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
7 C	Manage public access to reduce disturbance to SPA bird populations.	£10,000	2016-20	Advice: Access Strategy	Natural England	Natural England	Environment Agency, RSPB, Somerset Wildlife Trust
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
7A	Commission a study on the sources, risks and impact of disturbance on the Levels SPA and produce a visitor management plan		2015	Investigation / Research / Monitoring	Not yet determined	Natural England	RSPB, Somerset Wildlife Trust
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
7B	Raise awareness of disturbance to SPA bird populations.	£10,000	2016-20	Advice: Education & awareness raising	Environment Agency, Natural England, Voluntary conservation organisation	Natural England	Environment Agency, RSPB, Somerset Wildlife Trust
	site habitat availability/ manager						
	is a limited understanding of how the S Stuary. There is for example limited						Bay and other parts of the
Action	Action description	Cost estimate	Timescale	Mechanism	Funding option	Delivery lead body	Delivery partner(s)
0 4	Identify officite babitate and man the	£5.000	2016 10	Investigation /	Notural	Notural England	DODD Wildlife Truck

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8A	Identify off-site habitats and map the £5,000 wider ecological network that supports the integrity of the SPA including the flyway between the site and the Severn Estuary.	2016-19	Investigation / Research / Monitoring	Natural England	Natural England	RSPB, Wildlife Trust, British Trust for Ornithology (BTO)

## Site details

The tables in this section contain site-relevant contextual information and links

Ourself size of a stress of	
Qualifying features	
#UK Special responsibility	
Somerset Levels & Moors SPA	A142(NB) Vanellus vanellus: Northern lapwing
	A037(NB) Cygnus columbianus bewickii: Bewick swan
	A140(NB) <i>Pluvialis apricaria</i> : European golden plover
	A052(NB) Anas crecca: Eurasian teal
	Waterbird assemblage
Site location and links	
Somerset Levels & Moors SPA	
Area (ha) 6388.49 Grid reference ST394417	Map link
Local Authorities	Somerset
Site Conservation Objectives	European Site Conservation Objectives for Somerset Levels & Moors SPA
European Marine Site conservation advice	<u>n/a</u>
Regulation 33/35 Package	<u>n/a</u>
Marine Management Organisation site plan	<u>n/a</u>

#### Water Framework Directive (WFD)

The Water Framework Directive (WFD) provides the main framework for managing the water environment throughout Europe. Under the WFD a management plan must be developed for each river basin district. The River Basin Management Plans (RMBP) include a summary of the measures needed for water dependent Natura 2000 sites to meet their conservation objectives. For the second round of RBMPs, SIPs are being used to capture the priorities and new measures required for water dependent habitats on Natura 2000 sites. SIP actions for non-water dependent sites/habitats do not form part of the RBMPs and associated consultation.

Somerset Levels & Moors SPA	
River basin	South West RBMP
WFD Management catchment	South & West Somerset
WFD Waterbody ID (Cycle 2 draft)	GB108052015230, GB108052015450, GB108052015482, GB108052015682, GB108052021150, GB108052021181, GB108052021200

## Overlapping or adjacent protected sites

Site(s) of Special Scientific Interest (SSSI)	
Somerset Levels & Moors SPA	West Sedgemoor SSSI
	Wet Moor SSSI
	Catcott Edington & Chilton Moors SSSI
	Curry & Hay Moors SSSI
	West Moor SSSI
	Southlake Moor SSSI
	Moorlinch SSSI
	Kings Sedgemoor SSSI
	Westhay Moor SSSI
	Tealham & Tadham Moors SSSI
	Shapwick Heath SSSI
	Westhay Heath SSSI
National Nature Reserve (NNR)	
Somerset Levels & Moors SPA	Shapwick Heath NNR
	Somerset Levels NNR
	Westhay Moor NNR
Ramsar	
Somerset Levels & Moors SPA	Somerset Levels & Moors

Special Areas of Conservation (SAC) and Special Protection Areas (SPA)

n/a

Somerset Levels & Moors SPA

12/14

Version	Date	Comment
1.0	04/11/2014	

