in length grow to $50 \,\mathrm{cm}$ Треу сап like adults. quickly into eel-

emerge and transform after feeding on tiny organisms, they the riverbed's silt and sand. Up to five years later, follow the current downstream before burrowing into lower reaches. Larvae hatch after three weeks and to spawn in the clean gravel of the Spey's middle and then forsake feeding when they leave the Moray Firth hole in their prey before drawing out blood. They cod, salmon and trout, using their teeth to scrape a Maturing sea lampreys live off fish such as haddock,

biove of 9Jid-9vol A

such as salmon, trout and eel; they also enjoy frogs eat all kinds of fish but prefer those with plentiful fat, its many lochans, ponds and marshy patches. Otters provides water of high quality and abundant food in in Scotland for these agile swimmers. The catchment However, the Spey is one of the best freshwater sites have suffered from destruction of their habitat. undergrowth. In many other parts of Europe, otters large area of little-disturbed waterside with plenty of

which takes in a bns (sgniqqorb) with spraints which it marks its own territory, Every offer needs

səı səp ∀

bed, they can live for over one hundred years. lucky and land on a suitable area of river grows there for almost a year. If they're each one which then harmlessly gills. The fish's skin forms a cyst over trout and attach themselves to the they are inhaled by young salmon and larvae called glochidia. They survive only if which, once fertilised, are squirted out as active conditions. Females produce up to a million eggs provide ideal

old and can live for noo years. Small pearls occasionally form inside the shell **but fishing for**

which can grip hold of almost any surface.

waters of the river. deeper, inaccessible persecution by the also been saved from Many mussels have Countryside Act. the Wildlife & their protection under

waters of the Spey

The soft, clean

helped by Operation Necklace which has highlighted one of the few rivers where they continue to thrive management of rivers and catchments. The Spey is of over-fishing, pollution and poor endangered across Europe as a result

Freshwater pearl mussels are

Spey so that the banks, gravel bars and pools

vitality present a noble challenge.

whose strength and The angler's greatest prize is a spring salmon



of Donald Gorm' who died in 1617 Yfrom Tàladh Dhòmhaill Ghuirm, the 'Lullaby (Strength of the salmon boldest in leaping) * semusl seistd se nieberdd 'e tresM

attracts anglers from all over the world prepared to Scotland's most important salmon fisheries and skills or simply its taste! The Spey supports one of for its indomitable energy, its navigational place in most people's affections, whether The Atlantic salmon holds a special

Asif Aldon A

network of protection throughout the catchment. main tributaries of the river; offering a sinuous In 2003, the SAC was extended to include the candidacy as a Special Area of Conservation (SAC). and its importance further recognised by of Special Scientific Interest (SSSI) in 1998 In recognition, the Spey was notified as a Site

> mussel and sea lamprey. are the Atlantic salmon, otter, freshwater pearl or endangered in a European context - these species in particular, that are rare, threatened The river and its tributaries are home to four

aquatic environment of the highest quality. catchment ... all 3008km2 of it has an unmodified and unpolluted. Accordingly, the above sea level, the river is largely highest of the Cairngorm hills over 1300m Spey flows into the Moray Firth, to the From the rivers' mouth at Spey Bay where the

> river system Protecting a unique

well as many groups of alder trees. exceptional variety of plantlife as mportant and support an below Fochabers, are internationally The shingle habitats of the Spey,

> ridges of the coast. shifting shingle meeting the channels before altering its sandstone, often it runs over approaches the sea, As the river

they take off. The female's

you'll see distinctive white

and are easily alarmed -



(moraine) left by the great ice flows and their melt

valley) of the Spey. The loose rocks and the create the great srath (Gaelic for broad glaciers tore away much of the rock to During the last 2.5 million years, huge

spreads of sands and gravels are the debris

Monadhliath and Cairngorm ranges. peaks to leave the rounded shapes of the

formed. Rain, sun, wind, rivers and ice eroded many Mountains were its outstanding habitats for threatened species Grampian

granite rocks of the years ago, the than 400 million major events. More character to two ewes much of its in Scotland and second longest river The Spey is the

sbnelsi bne sbael AgiH

bank is often chosen to give direct access to the water

for otters

'Operation Necklace'

as well as in many tributaries. spawn throughout most of its length opstructions, mean salmon can flow, and its lack of pollution and The water's fast and relatively even

> (stretches) of the lower river. try their luck along the beats



The River Spey Catchment













A map of the Spey deceives as it informs for it can't show the subtleties of the river's flow, the light and shade of its landscape nor the complex 'web of life' that links water, plants and animals.

The map does show a river, 157km (98 miles) long, surging from the high moorland of the Monadhliath (Grey Mountains) and meandering through the lands of Badenoch, Strathspey and Speyside before rushing into the Moray Firth.

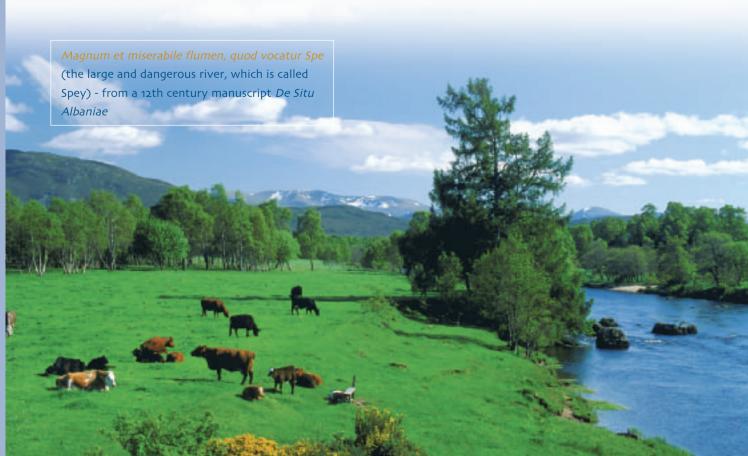
The river's name is Celtic, probably meaning

hawthorn stream but perhaps describing its frothing

swiftness. It's a river that conjures many other pictures too - of salmon, whisky, ospreys or otters; of

canoeing, fishing or pinewoods: or simply everchanging waters.

The Spey offers all these pleasures and more. It's a river to savour, remember and respect.





mokay

Cairingorms

sportscotland

The following publications are all available for download as pdf files from www.snh.org.uk/spey

The River Spey Catchment Management Plan River works on the Spey and its Tributaries: Who to contact and how to proceed

The Economic Impact of Water-related Recreation in the River Spey Catchment 2003

An Investigation of the Scope for Improved Farm Water and Waste Management in the Spey Catchment The Spey Catchment leaflet

For hard copies and further information please contact:

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Timber, floods and fishing

In 1539, the first recorded consignment of timber from Strathspey was floated down the river to Speymouth. Over the next 350 years or so, large areas of Caledonian pine forest were felled to build ships and houses. Much went south by sea but Garmouth and Kingston later became shipbuilding ports in their own rights.

Increasing road transport demanded that the Spey be bridged and Telford's arch at Craigellachie is the most graceful of any

> structure. It still stands, having escaped damage in the 'Muckle Spate' (big flood) of 1829 that devastated much of Strathspey and

The chain-operated ferry across the River Spey at Boat of Garten served travellers until a bridge was built in 1899.

The River Spey

Project 2001-2004

The Spey is such an important

only natural that everyone

Catchment Steering Group.

resource for so many people, it's

Speyside including many of the other

bridges. Flooding remains a problem today when flash storms turn the river and its tributaries into torrents.

by the collation of guidance on river engineering and an educational resource to raise awareness of the importance of the river community has also been produced.

When the river runs through it; Water resources and flooding

There are times when the river runs riot. Snow melt or prolonged rainfall cause the hillsides to flow with water, burns and culverts to boil and the Spey to

spill out onto the floodplain.

Tonnes of water pass through the catchment each year; the long term average flow (measured at a gauging station in the lower catchment), is 65 'cumecs' - or 65 cubic metres per second ... that's about one hundred and thirty seven thousand pints every second!

The river changes its course constantly but spates can change it dramatically; sometimes overnight; carving, scouring, moving, depositing.

A complex system of automatic monitoring is in place to enable flood-warnings to be issued to farmers and other residents of impending flood risk.



estates along the Spey was

floated, or rafted, down the Spey

Craigellachie Bridge – Scotland's first cast iron bridge – he took local advice



isitors from Iceland, feed across the flooded meadow at Ruthven on the Insh

recognises the need to ensure its future protection. In 1999 a group of key agencies and authorities (Moray & Highland Councils, Scottish Natural Heritage, The

Two years ... and a partnership application to the Highlands and Island Special Transitional Fund later, the River Spey Project began.

Spey District Fishery Board & The Scottish

Environment Protection Agency) started to consider how best to develop a more integrated approach to its management. They combined to form the Spey

One of the main outcomes from the project has been a Catchment

Management Plan. The plan provides a timely stepping-stone for the measures included under the Water Framework legislation makes it a requirement to have

Directive. This new European integrated management and protection of water quantity,

quality and physical habitat.

But the River Spey Project hasn't just been about planning; its also about doing.

Over the past three years, gaps in knowledge have been filled by studies of economics and farm waste,



shifting gravels at Spey Bay

This allows stock to be moved and in extreme conditions, houses to be

evacuated in advance.

Over the years, much bank protection work has taken place. Rock

armouring has smoothed curves, turning the river and keeping it where people want it to be. Dredging has cleared channels and re-dug the pools filled with spate gravels. These actions to 'contain' have often contributed to subsequent flooding problems. We now know the extent of impacts on the river and the important species that live in and around it and river works are regulated.

More often than not, there's a time and a place (and a way), which will minimise damage to the river. To help people through the tricky process and put them in contact with the right people for advice, we've published a 'Riverworks code'.

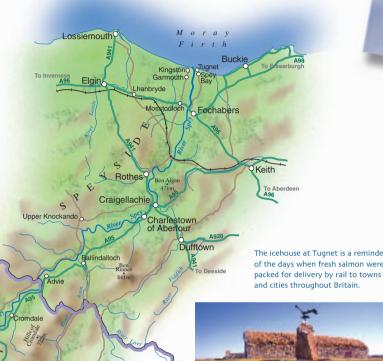


The Spey is an upland river and the run-off in its

And it doesn't only go in ...

The catchment is more than just a home to the special creatures and habitats we've mentioned ... and more than just a glorious backdrop for our pleasure. The river is a drain for acidified rainfall, for summer floods, for washed-out salts and silts from our roads and for treated sewage and trade effluent.

> With much of the catchment floodplain being agricultural land, we needed to find out whether modern farming was a threat to water quality and if so, how things could be improved.



The Farm Water and Waste Study audited a selection of farms throughout the catchment and found that there was much to be commended in the way they are run. It also identified a few, small changes in management, which could make a big difference.

But it doesn't only go in to the river considerable quantities of water are also taken from the catchment resource; In the upper catchment there are large dams diverting water as part of hydro schemes. Water is drawn for domestic supply from a loch high in the Cairngorms and also from a large well-field on the riverbank, near Fochabers, in the lower catchment. Near Aviemore, water is drawn from the River Druie to service a large fish farm.

Famously, the catchment is the home of a thriving whisky industry. The water of the Spey and its

tributaries are used both as an ingredient and in the process. Around 30 malt whisky distilleries produce their own distinctive 'drams' of uisge beatha from the Spey waters.

Surface water is drawn directly from the river or from small tributary burns as a coolant; It passes through the distillery and then most of it goes back into the river system - perhaps a few degrees warmer - downstream. This 'uplift' of the water temperature is also closely regulated.



The water drawn from springs by each distillery is largely responsible for the subtle variations in the taste of individual malt whiskies

Working waters

1 km and

SHE PIEM

Like many other great rivers, the

Spey and its tributaries play their part in the local economy. Nature conservation and outdoor recreation are increasingly valuable means of generating income from naturalists, photographers, painters, anglers, water sports enthusiasts and walkers. A network of paths and routes such as the Speyside Way long distance route encourage

exploration of the area.

A recent study determined that visitors undertaking water related recreation in the Spey catchment, (principally angling, sailing and canoeing) spent around £13.5m in 2003 and supported over 400 jobs.

Fishing has long been an economic mainstay of the riverside communities, generating significant income for the area, and providing employment. With an

increase in the popularity of outdoor recreation in recent years, together with changes in legislation, we're all facing new challenges in the management of our shared resource.

Part of a park

Tourism is big business and with the designation of the Cairngorms as Scotland's second National Park, the special features of the area are likely to reach an even wider following.

The Park covers 3816 km² and includes two thirds of the River Spey Catchment within its boundary including the majority of the important upper tributaries; the Rivers Avon, Feshie, Tromie and

The Park was established with four specific aims;

- to conserve and enhance the natural and cultural heritage of the area
- to promote the sustainable use of the natural
- to promote the understanding and enjoyment of the Park and
- to promote the sustainable economic and social development of the area's communities.

Once again, the Catchment Management Plan has started to address some of these issues and provides a few blocks for the Park Authority to

build upon in developing their National Park Plan.

Over to our children ...

We wanted to make sure that the young people of Moray, Badenoch and Strathspey, who live in the catchment, understand their cultural and natural heritage and so another output of the project has been 'Riverbanks'.

'Riverbanks' are boxes of books, videos, fact sheets and images explaining everything about the catchment; its history and who and what lives here. We included things like feathers and rocks, bird rings, fishing nets and music to help people appreciate the rivers influence on their lives.