

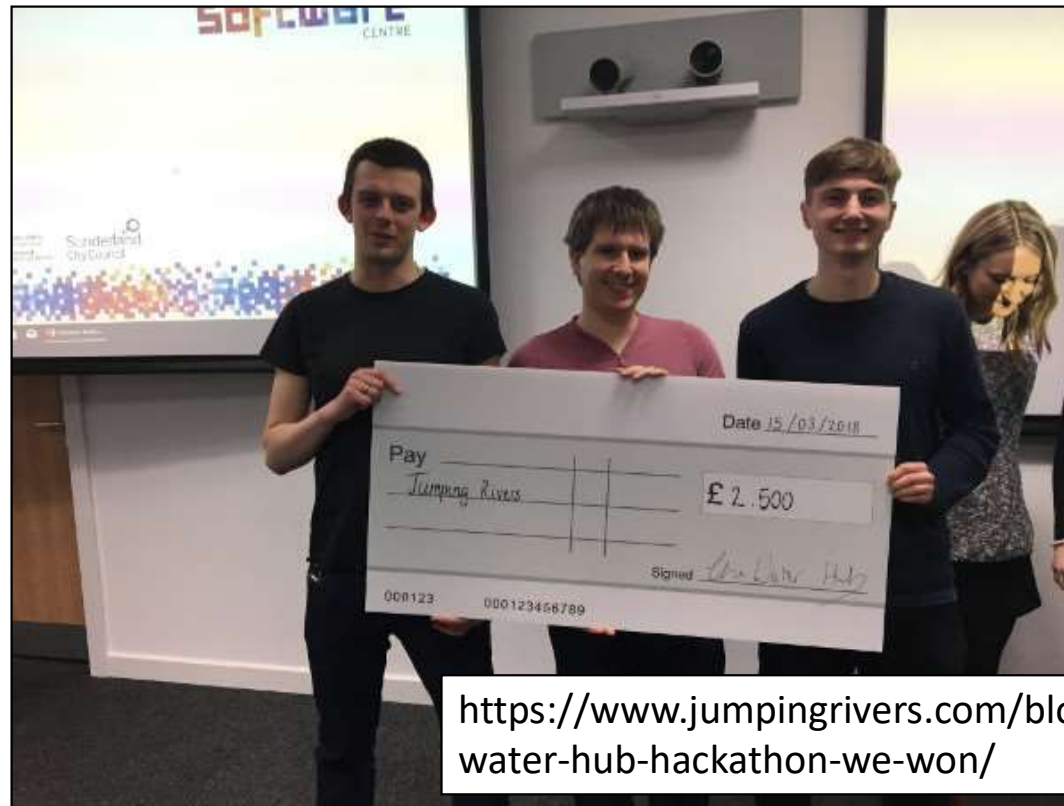


Catchment Data Explorer Enhancements

Investigation for potential improvements
with **Jumping Rivers** and **The Water Hub**

jumping rivers

How we met



<https://www.jumpingrivers.com/blog/the-water-hub-hackathon-we-won/>

The starting point

Catchment Data Explorer Data updated: 15th October 2018


Home Useful Links API Reference Data downloader Help

Northumbria

Northumbria - Summary

River Basin District

The Northumbria river basin district covers an area of 9,000km², extending from Stockton-upon-Tees in the south. It includes parts of Cumbria to the north, the Holy Island and the Farne Islands. Approximately 2.5 million people live in the Tees Valley. The major urban centres of the district are Newcastle and Gateshead. The river basin district has a particularly rich diversity of wildlife and habitats. The management catchments that make up the river basin district include the Tyne, the Great Ouse and coastal waters. These range from industrial urban areas in the north to rural areas in the south. Around 67% of the river basin district is farmed or used for forestry, and on higher ground moorland, management for grouse and forest. The district is also home to the transport equipment and metal sectors. Although agriculture only makes up a small part of the rural economy.



Catchment Data Explorer Data updated: 15th October 2018

Home Useful Links API Reference Data downloader Help Glossary Noticed a problem?

Environment Agency


Search

Northumbria


River Basin District

Summary

- Download Classification Data
- Download Measures Data
- Download Reasons for not Achieving Good Data
- Download Objectives Data
- Download water body to protected area links data



Filter



Cycle 2

Quantitative status	Chemical status		
	Good	Poor	Good
	9	7	3

and objectives for surface water bodies (number of water bodies with failed deadlines (blue shaded cells))

High	Total	Chemical status		Total	Extended Deadline
		Fail	Good		
2	125	0	345	345	
0	3	0	1	1	
0	240	0	28	28	Extended Deadline
0	0	0	0	0	
2	374	0	374	374	

<https://environment.data.gov.uk/catchment-planning/RiverBasinDistrict/3/Summary>

<https://environment.data.gov.uk/catchment-planning/RiverBasinDistrict/3>

Total	Poor	Good	Total
9	5	3	8
0	0	0	0
1	0	2	2
			0
			10

The Data

reasons_for_not_achieving_good_RBD_3.csv [Read-Only] - Excel

http://environment.data.gov.uk/catchment-planning/ReasonsForNotAchievingGood/496255

	A	B	C	D	E	F	G	H	I	J
	River Basin District	Management Catchment	Operational Catchment	water body	Water body id	Water body type	Classificati	Cycle	Classification Status	Classification Level
46	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	North Low from Berrington Burn to N Sea	GB10302107324	River	2016	2	Good	Element
48	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	North Low from Berrington Burn to N Sea	GB10302107324	River	2016	2	Moderate	Element
50	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	Rennington Burn from Source to N Sea	GB10302207636	River	2016	2	Poor	Element
57	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	Ross Low from Source to Eldwick Burn	GB10302207647	River	2016	2	Poor	Element
68	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	Fenham Burn Catchment (to N Sea)	GB10302207649	River	2016	2	Moderate	Element
69	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	Annstead Burn from Source to N Sea	GB10302207708	River	2016	2	Poor	Element
75	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	Embleton Burn form Source to N Sea	GB10302207637	River	2016	2	Poor	Element
82	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	Newlands Burn Catchment (trib of Waren Burn)	GB10302207643	River	2016	2	Poor	Element
83	Northumbria	Northumberland Rivers	Berwick to Alnmouth Coast	South Low from Source to Haggerston Bridge	GB10302107322	River	2016	2	Moderate	Element
89	Northumbria	Northumberland Rivers	Blyth	Seaton Burn from Source to Tidal Limit	GB10302207619	River	2016	2	Poor	Element
96	Northumbria	Northumberland Rivers	Blyth	Sleek Burn / Hepscott Burn Source to Tidal Limit	GB10302207623	River	2016	2	Moderate	Element
154	Northumbria	Northumberland Rivers	Wansbeck	Wansbeck from Bothal Burn to North Sea	GB10302207706	River	2016	2	Moderate	Element
209	Northumbria	Northumberland Rivers	Coquet Upper	Foxton Burn Catchment (trib of Wreigh Burn)	GB10302207667	River	2016	2	Poor	Element
250	Northumbria	Tees	Tees Middle	Sudburn Beck from Source to Langley Beck	GB10302507227	River	2016	2	Moderate	Element
260	Northumbria	Tees	Tees Middle	Langley Beck from Source to Sudburn Beck	GB10302507231	River	2016	2	Moderate	Element
271	Northumbria	Tees	Tees Middle	Tees from River Greta to River Skerne	GB10302507219	River	2016	2	Good	Element
280	Northumbria	Tees	Saltburn Coast	Kilton Beck from Middle Gill Beck to North Sea	GB10302507195	River	2016	2	Moderate	Element
281	Northumbria	Tees	Saltburn Coast	Kilton Beck from Middle Gill Beck to North Sea	GB10302507195	River	2016	2	Moderate	Element
289	Northumbria	Tees	Saltburn Coast	Saltburn Gill Catch trib of North Sea	GB10302507196	River	2016	2	Moderate	Element
297	Northumbria	Tees	Saltburn Coast	Skelton Beck Catch (Saltburn) trib of North Sea	GB10302507197	River	2016	2	Moderate	Element
299	Northumbria	Tees	Saltburn Coast	Skelton Beck Catch (Saltburn) trib of North Sea	GB10302507197	River	2016	2	Moderate	Element
389	Northumbria	Tees	Skerne	Skerne from Demons Beck to Tees	GB10302507259	River	2016	2	Poor	Element
419	Northumbria	Tees	Leven Northumbria	Grange Beck Catchment (trib of Leven)	GB10302507186	River	2016	2	Moderate	Element
420	Northumbria	Tees	Leven Northumbria	Grange Beck Catchment						
428	Northumbria	Tees	Leven Northumbria	Leven from Source to						
434	Northumbria	Tees	Leven Northumbria	Tame from Source to						
435	Northumbria	Tees	Leven Northumbria	Tame from Source to						

reasons_for_not_achieving_good

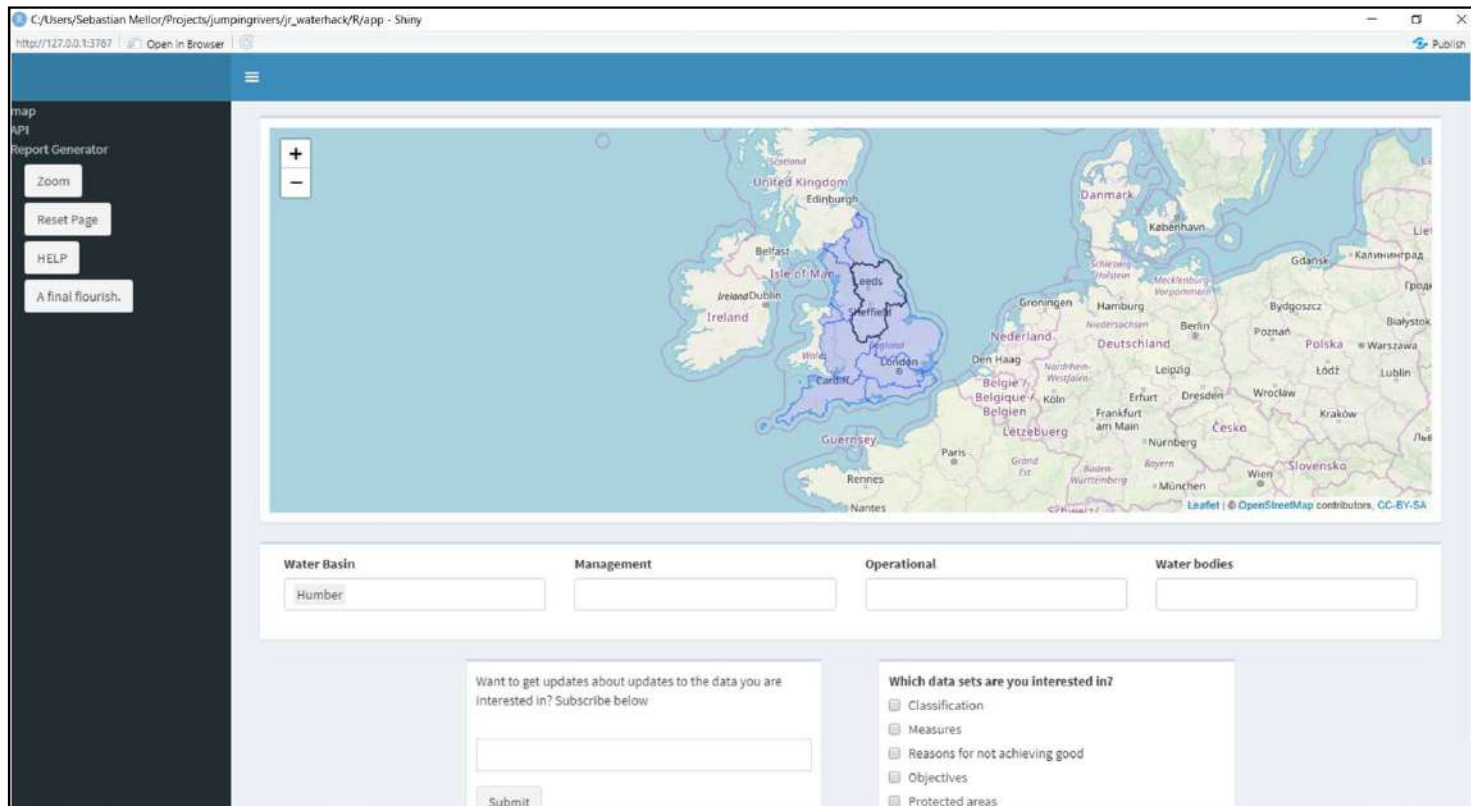
66 of 1314 records found

<https://environment.data.gov.uk/catchment-planning/RiverBasinDistrict/3/ReasonsForNotAchievingGood?item=all&format=csv>

The Catchment Data Explorer Enhancements

- User friendly search options, e.g., combined catchment boundaries
- RNAG's more prominent
- Easy flow to actions to address RNAG's
- Links to partner's websites and publications, e.g. storymaps
- Easy flow through to Data

What we made



What is already out there?

Catchment Data Downloader

Environment Agency
Home
Catchment Data Downloader

1 selected area
384 water bodies

Northumbria (384)

River

Aglionby Beck Catchment (Trib of Black Burn)

Water body Classifications
Classification data for the selected water bodies

Filters

Year Select all

- 2016
- 2015
- 2014
- 2013
- 2012
- 2011
- 2010

Cycle Select all

- Cycle 1
- Cycle 2

Classification Item Select all Advanced

- Overall
- Ecological (overall)
- Ecological (elements)
- Chemical (overall)
- Chemical (elements)
- Quantitative (overall)
- Quantitative (elements)

Data preview (First 10 rows)

Water Body ID	Year	Cycle	Classification Item
GB103023075390	2	2014	Zinc
GB103023075390	2	2016	Hydromorphological Supporting Elements
GB103023075390	2	2015	Other Pollutants
GB103023075390	2	2014	Phosphate

<https://environment.data.gov.uk/catchment-planning/data-download/#/.....>

Interactive Catchment Explorer


Interactive catchment explorer - x +

← → ↻ Not secure | ribblelifetogether.org/catchment-map/?Area=Ribble

6. ? Tell us what you think about this webpage

data you would like access to and why.

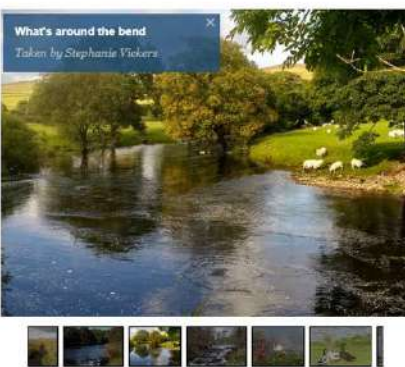
Ribble Catchment
Click on a sub-catchment



© Environment Agency, © OS Open Rivers

Overall river condition: ● Good ● Moderate ● Poor

What's around the bend
Taken by Stephanie Vickers

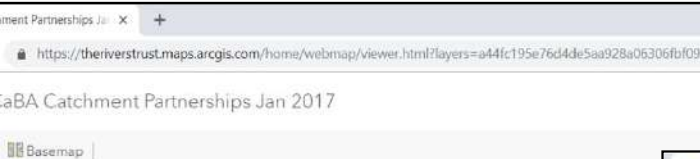


Organisations that operate in this area

Catchment Sensitive Farming	Website
Environment Agency	Website
Forest of Bowland AONB	Website
Forestry Commission	Website
Lancashire County Council	Website

<http://ribblelifetogether.org/catchment-map/?Area=Ribble>

CaBA Data Package



OS Open Rivers with CaBA Partnership ID 2017

Showing 139,172 of 139,172 rows

FID_WatercourseLink	name1	Identifier	startNode	endNode	form	flow	fictitious
70338		33B79E1E...	8207006E...	31B00016...	...	...	...
70339		77350961...	33E5...	...	...	...	...
70340		20E43C79...	209F...	...	...	...	...
70341	Catch-o-pe...	208693FD...	39D...	...	...	...	...
70342	Eye Water	2B4B4FAE...	693...	...	...	...	...
70343	Eye Water	74C3ACD6...	2CC...	...	...	...	...
70344	Eye Water	9A6AA52A...	C22...	...	...	...	...

https://caba-therivertrust.opendata.arcgis.com/datasets/6416a6f3d61a44c0bd9cfd6ba5a42c57_0?....

WFD River Status 2016

https://therivertrust.maps.arcgis.com/home/webmap/viewer.html?layers=4cff14f14acc41d2ac7c2a6b1e200c10

Home WFD River Status 2016

Details Basemap

Print Measure Find address or place

WFD River Status 2016 (Features: 4108, Selected: 0)

EA_WB_ID	COUNTRY	RBD_NAME	AREA_NAME	MNCAT_NAME	OPCAT_NAME	WB_ID	WB_NAME
GB108044009790	England	South West	Wessex	Dorset	West Dorset Rivers	GB108044009790	Char
GB108044009550						GB108044009550	Bride
GB107041011980						GB107041011980	Aldingbourne Rife
GB107041071700						GB107041071700	Farrin Rife

<https://therivertrust.maps.arcgis.com/home/webmap/viewer.html?layers=a44fc195e76d4de5aa928a06306fbf09>

<https://therivertrust.maps.arcgis.com/home/webmap/viewer.html?layers=4cff14f14acc41d2ac7c2a6b1e200c10>

Story Maps

Putting canals back on the map - X +

← → ↻ <https://canalrivertrust.maps.arcgis.com/apps/MapJournal/index.html?appid=537fe924ce624c339b44fd6947110a20> ☆ ↶ ↷ 👤 ⋮

As presented at Esri UK Annual Conferenc... Canal & River Trust

Putting canals back on the map with Open Data

Our GIS

Our Team

Our main GIS asset are the team of eight dedicated GIS Specialists who support 1600 colleagues, 11 partnerships and 100's of volunteers.

Our Data

As an organisation we have a broad range of interests and responsibilities and our data holdings reflect this, with a broad gamut of Canal & River Trust data and third party data

The Software

Data is one thing but information is quite another.

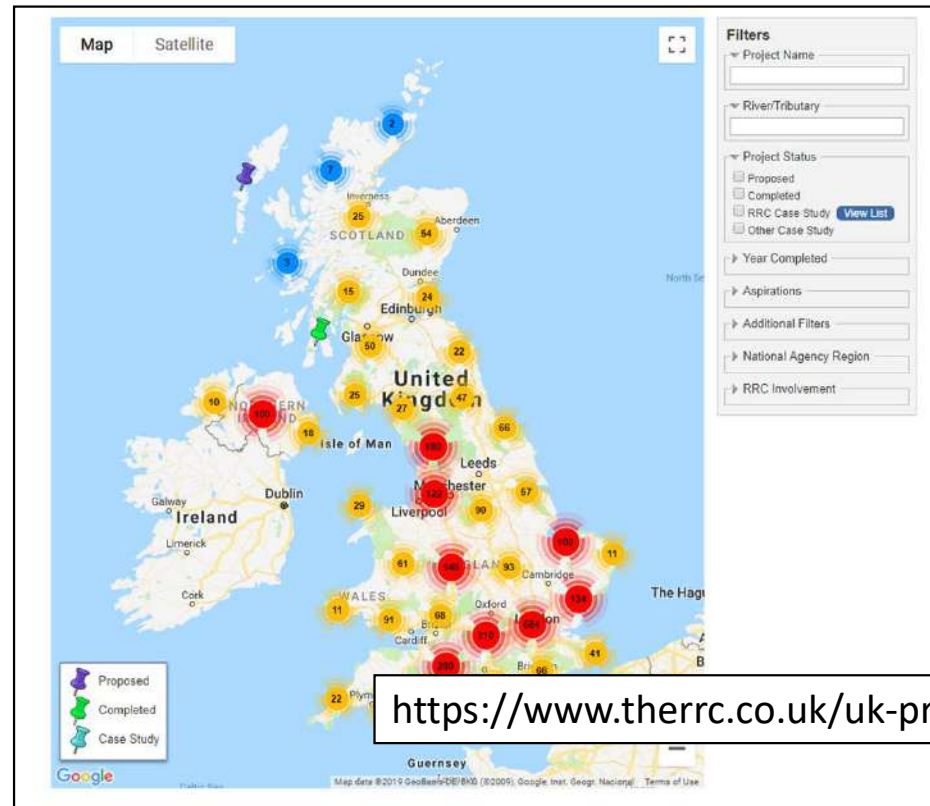
The Canal and River Trust has a mature GIS system which has formed a fundamental component of the organisations business delivery methodology for over 15 years.

The ArcGIS platform has allowed us to explore and develop a range bespoke GIS tools that have fundamentally changed the organisation and how it is able to manage its obligations and maximise efficiency.

There are a number of key areas where GIS has been critical in

<https://canalrivertrust.maps.arcgis.com/apps/MapJournal/index.html?appid=537fe924ce624c339b44fd6947110a20>

River Wiki



CDE Experiments

- Customisable/personalised boundaries and Water Body selection
- RNAG's more prominent for your area of interest
- Links to publications, e.g., Story Maps, Plans, Actions, Ideas, Articles
- Actions to address RNAG's visible on the map
- Easy access to third party data
- Partners and organisations for each catchment
- Easy flow through Visualisation to Data to Evidence to Action

'CDE+' Demo

The screenshot shows a web browser window with the URL <https://connect.jumpingrivers.cloud/cde-enhanced/demo/>. The page title is "Catchment Data Explorer - Enhancements". A dark header bar contains the text "Catchment Data Explorer Enhancements" and a blue button labeled "About this demo". Below the header, there is a light blue box with the text "Read the *About* dialog, leave some feedback." The main content area features a paragraph: "The Catchment Data Explorer *Enhanced* helps you explore and download information about the water environment. You can find catchments and water bodies of interest using a map or searching by name. You can also view summary information about catchments, and follow links to other useful sites." Below this paragraph are three links: "192 Water Bodies", "15 Reasons for Not Achieving Good", and "32 On-going activities". A search bar is present with the placeholder text "Waterbody, region, postcode, local authority". Below the search bar is a map of the region around Watford, Slough, and Romford. The map includes a legend with the following items: Grayscale, Streets, Satellite, (region) River Basin Districts, (region) Management Catchments, and (region) Operational Catchments. A text box at the bottom right of the screenshot contains the URL: <https://connect.jumpingrivers.cloud/cde-enhanced/demo/>.

Feedback

Info and demo: <http://goo.gl/Lj8FpS>

Email: cde-feedback@jumpingrivers.support