University of Dundee

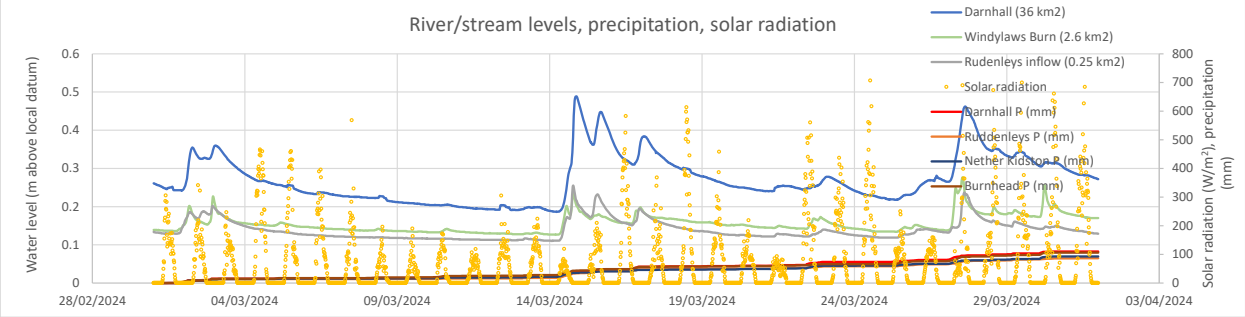
Eddleston Water Project
Monthly weather and hydrology report

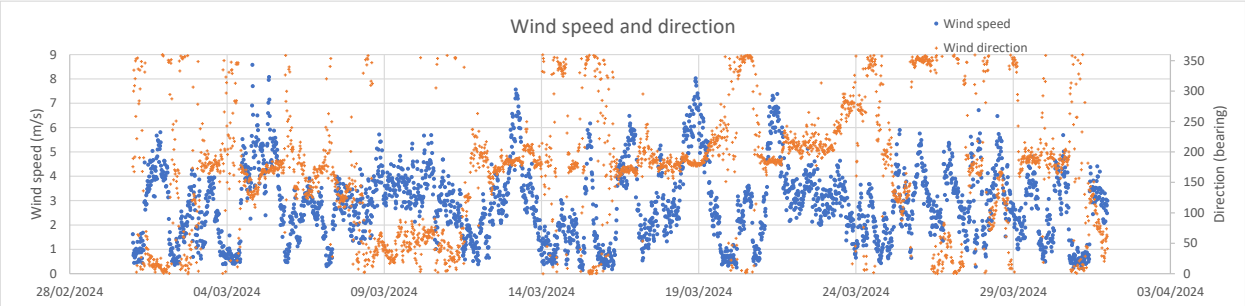
March 2024

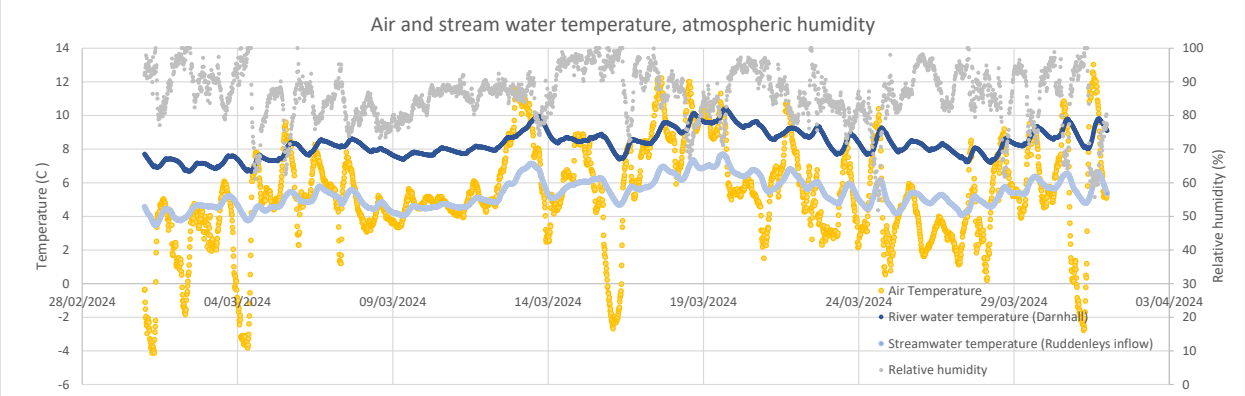
TWEED FORUM

Monthly statistics	Hourly values				Daily values				Month	
	Max	Day/time	Min	Day/time	Max	Day	Min	Day	Average	Total
Precipitation (Darnhall Mains) (mm)	3.6	14 @ 17:15			18.2	14				110.2
Precipitation (Craigburn Farm) (mm)	5.4	14 @ 17:45			22	14				92.2
Precipitation (Wester Deans) (mm)	5.4	14 @ 17:45			22.8	14				91.0
Precipitation (Ruddenleys) (mm)	3.6	14 @ 17:45			16.6	14				86.4
Precipitation (Nether Kidston) (mm)	3.2	30 @ 03:00			15.2	14				92.8
Precipitation (Burnhead) (mm)	4	02 @ 21:30			16.6	27				106.4
Runoff depth (Darnhall Mains) (mm)										84.7
Air temperature (Darnhall Mains) (C)	12.5	31 @ 13:30	-4.0	01 @ 07:45	9.5	17	1.4	1	5.2	
Relative humidity (Darnhall Mains) (%)									86.1	
Daily ETo evapotranspiration (mm)					1.7	19	0.3	15	0.8	26.2
Sunshine hours					7.5	4			2.2	68.0

Rain days (Darnhall, 1.0 mm threshold): *18*

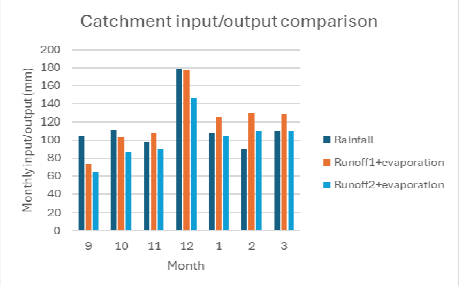


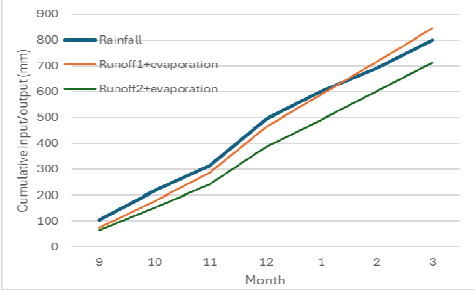




The 3rd-highest rainfall and the 4th-highest temperature since the start of recording in 2011. No flood events.

The monthly runoff depth has been calculated using a new calibration for the weather station site. Two comparisons opposite suggest the runoff2 calibration provides a more reliable assessment of monthly water balance than runoff1. Catchment water deficit rises to 0 in December; likely snow undercatch in February.





Real-time data available at: https://hydro-data.dundee.ac.uk/eddleston

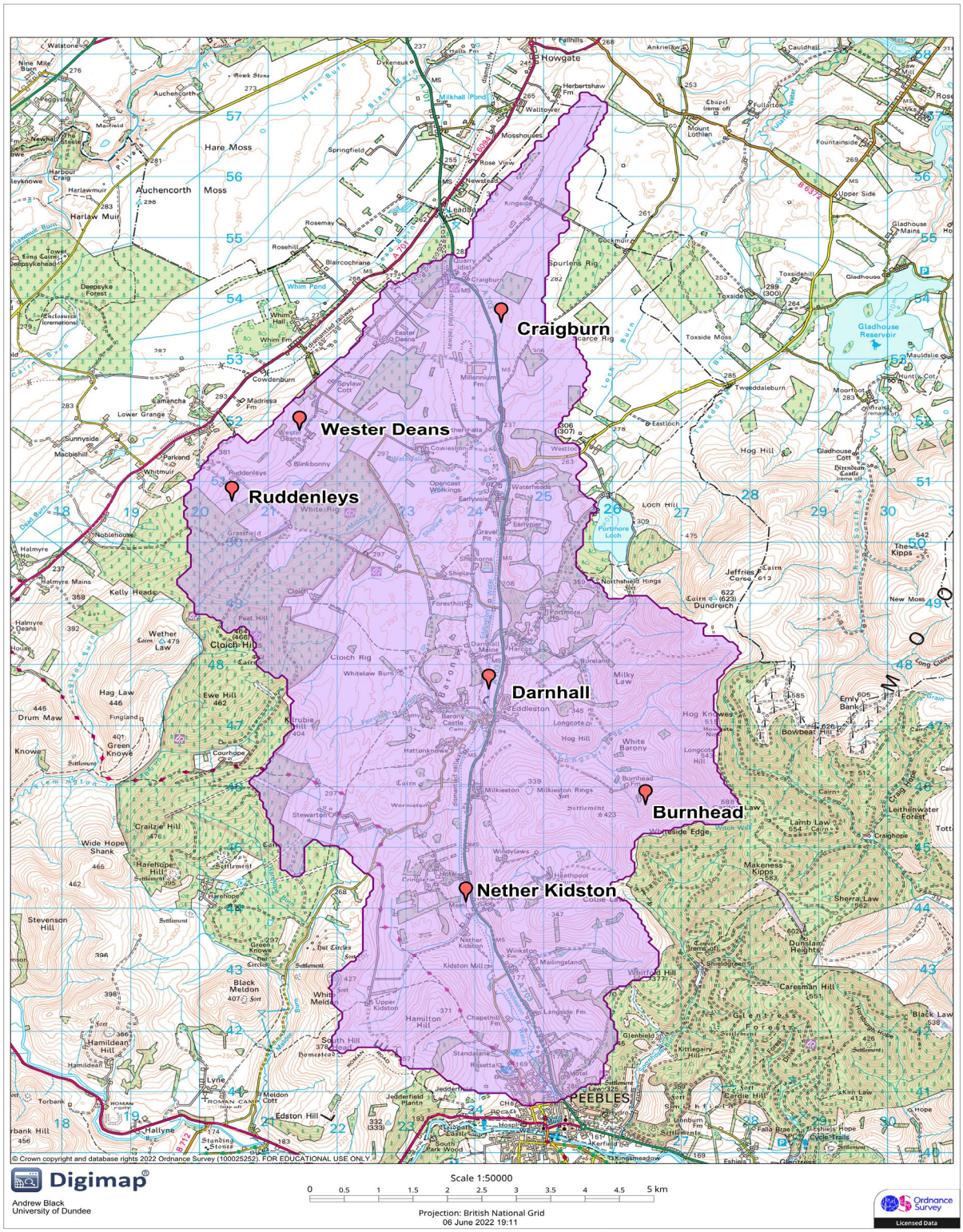
The Scottish Government

Interreg North Sea Region Building with Nature

BGS British Geological Survey

SEPA Scottish Environment Protection Agency

Forestry and Land Scotland | Coilltearachd agus Fearann Alba



The Eddleston Water Project

Funded by the Scottish Government, Interreg and the Scottish Environment Protection Agency (SEPA), this project aims to reduce flood risk and restore the Eddleston Water for the benefit of the local community and wildlife.

The project involves river re-meandering, the planting of over 300,000 trees and the creation of new wetlands. This should slow the speed and impact of floodwaters as well as creating new wildlife habitat, such as improved spawning for salmon. Our project partnership is closely monitoring the results, including any reduction in flood risk for downstream communities.

The project is a partnership initiative led by Tweed Forum, with the Scottish Government, SEPA and University of Dundee. Other key partners include British Geological Survey, Nature Scot, Scottish Borders Council, the Forestry Commission, National Farmers' Union of Scotland, the Tweed Foundation, Forest Carbon and the Woodland Trust. Tweed Forum works closely with landowners and the local community so that everyone can contribute ideas and follow the project's progress.

For more information, see: https://tweedforum.org/our-work/projects/the-eddleston-water-project/