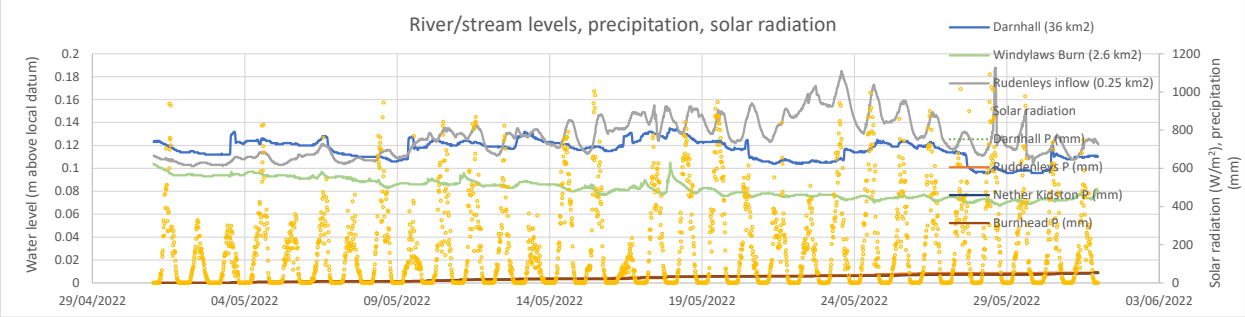
University of Dundee

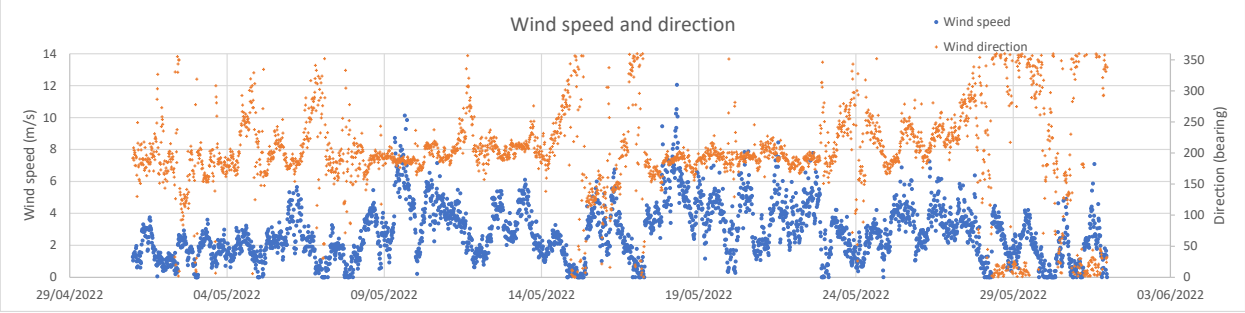
Eddleston Water Project
Monthly weather and hydrology report

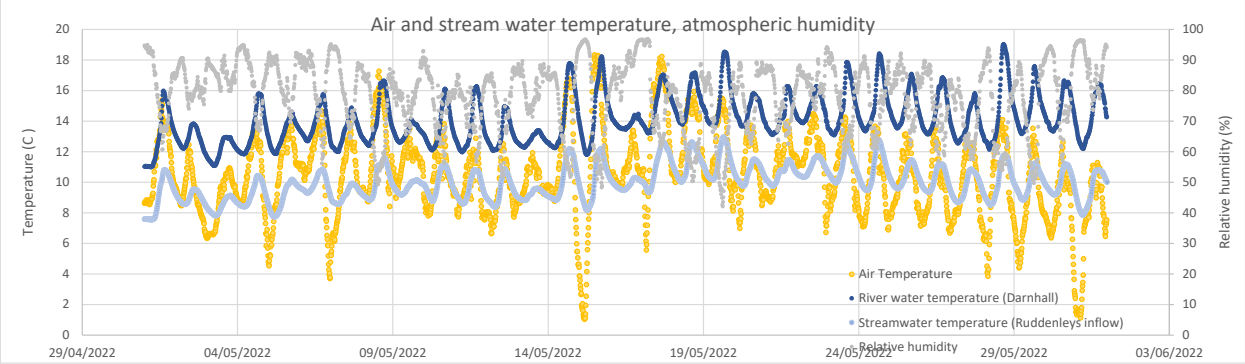
May 2022

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)	4.6	17 @ 20:45			5.8	16				52.8
Precipitation (Craigburn Farm) (mm)	6.6	06 @ 18:00			12.8	6				46.2
Precipitation (Wester Deans) (mm)	4.2	15 @ 22:30			7	24				55.0
Precipitation (Ruddenleys) (mm)	3.2	12 @ 21:00			5.8	24				54.8
Precipitation (Nether Kidston) (mm)	4.4	17 @ 20:45			5.6	16				52.0
Precipitation (Burnhead) (mm)	5.6	17 @ 20:45			7	31				55.8
Runoff depth (Darnhall Mains) (mm)										26.8
Air temperature (Darnhall Mains) (C)	18.2	15 @ 14:30	1.1	15 @ 4:15	13.6	17	7.3	31	10.5	
Relative humidity (Darnhall Mains) (%)									77.9	
Sunshine hours					10.3	19			4.4	133.7







Notes:

The month of May brought significantly warmer air and river water temperatures, with the highest air temperature reaching 18 °C and lowest of 1 °C both on the 15th of the month. River water temperature increased slightly from 11°C up to a peak of 19°C. There were no air frosts.

Precipitation at Darnhall Mains was 71% of the avrage from the 11 preceding years. From 6 recording rain gauges, the 1-hour maxima over the month spanned four different dates, pointing to localised convective showers as typically found in spring. None of the amounts was extreme. Stream levels in the main stem at Darnhall and on the Windlyaws Burn remained within a c. 4 cm band through the entire month, while a greater range was observed at the Ruddenleys inflow and may be partly attributable to weed growth effects. After several months of runoff being close to precipitation, this month the runoff is c. 50% of precipitation as evapotranspiration increases. A reduction in this figure is expected in June.

All data subject to revision through a process continual review and quality assurance. Report prepared Rebekah Egan and approved by Andrew Black.

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

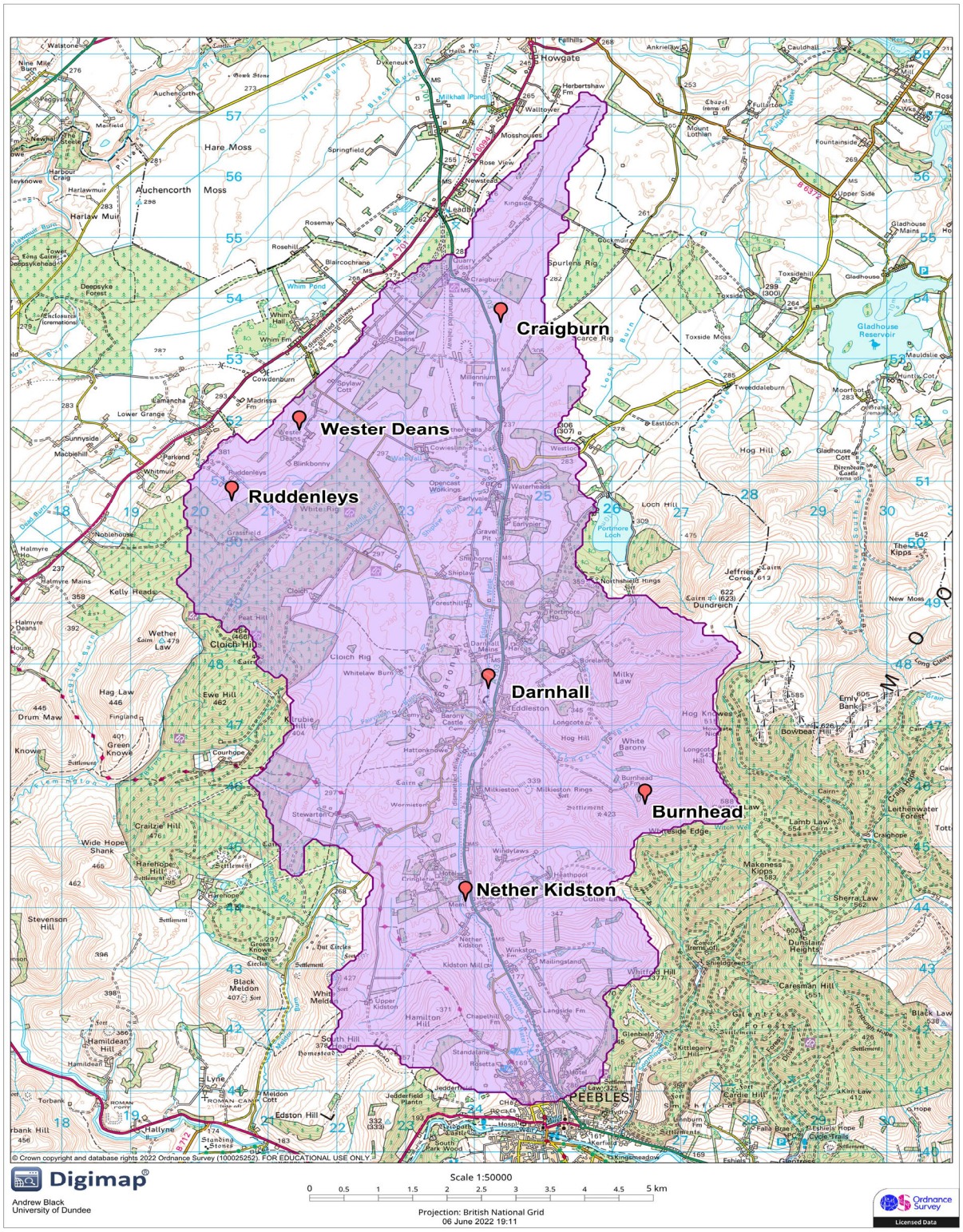
The Scottish Government
Riaghaltas na h-Alba

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/