## One Basin CRC PhD's in the Regions: Find out more about projects currently underway Webinar Q&A - 7th May 2025

#	Question	Answer
1	Ref, Title of proposed research project: To Studies Hydraulic Impact and Seasonal Variation of Native Fish Species at River-Crossing Structures and Regulators in the between Australia and Bangladesh Is its possible?	The CRC is open to new proposals from prospective candidates - please make contact with us via our website.
2	Hi Shahin, what crop water demand method will you be using? Ie FAO guidelines or historical and using what irrigation methods?	Hi Gavin, We are undertaking a multi model approach which basically means we are not relying on a single method/model. We use different crop models and FAO-56 method is included. Cheers.
		The irrigation method is based on what is being used in the study area (the common irrigation method is drip irrigation)
3	The aim of the project is to establish seasonal variation and hydraulic factors surrounding Dams weirs, regulator and river-crossing structures in Norwegian aquatic biodiversity on many native fish species migrations will be studied. The study with find the relationship of hydraulic impact of native fish species migration and seasonal variation of river-crossing structures in Norwegian and Bangladesh aquatic biodiversity This acquired knowledge will assist in the development of an appropriate management strategy for the Bangladesh open water fisheries management, fish migration & aquatic ecology. This is expected to result in an increase in fish biodiversity, abundance and yield, and thus, help to meet regional planning objectives of poverty alleviation, food self-sufficiency and economic development of your home country. Later, the knowledge can be applied in Bangladesh fish species.	live answered
4	Shahin - Also are you considering crop water requirements for both full crop production and vine survival only during periods of drought and lower water allocation?	That's a smart question! we started with the potential water demand during future years (regardless of water allocation), but we would probably test some more scenarios like what you mentioned. Cheers.
5	bkghoshbuet7@gmail.com	
6	Shahin - to what extent are you considering water quality with respect to water demand and crop production? - eg lower salinity levels may need less water applied for leachate but also may improve crop viability	Since we are using commercial vineyards as case studies, the considered water quality (in the models) must be equal to the actual condition. But once the models are validated, other water qualities could be tested.
7	Shahin - re crop survival water in droughts - given lifespan of vines - the ability to keep them alive during drought and low allocation volumes is very important for growers and water managers to understand	We acknowledge that water allocation and availibility plays a key role here, but demand is important as well. we will provide reliable estimations on irrigation demand and the results of this study could be integrated with other studies like water allocation to make more robust decisions
8	Hi Ketsy - acknowledging yours is a local project - how and to what extent could your methods be used for basin wide divergent views? There is substantial divergence of basin wide water management views at the moment which (in my view) are limiting the effectiveness of the basin plan	Hi Gavin, great question. It's really hard to say at this point in the research. It would be great to have some learnings that can be applied to other local contexts, but also more broadly. The approach itself acknowledges the effectiveness and sustainability of community-led change, and so maybe that's part of effectively navigating the divergent views
9	A general question, do you feel greater accountability to do research of value to the region where you live because you are living in a smaller community than you might in a capital city campus?	live answered
10	Eco-hydraulic influence is breeding of small fishes, spawning migration, dispersion of hatchlings of small fishes and hydrological and hydraulic changes influence the total process of fish migration.	
11	Do you see opportunities to apply your research or extend it with a focus on challenges elsewhere in the world, including home countries for the international researchers?	live answered
12	How do you as students embedded and connected to a region, reconcile the understandable issues of empathy with your community, and the risk of being captured by an activist agenda with the potentiwl to skew research?	live answered