MEDIA RELEASE



Release date, Thursday 24th March 2022 - Mackay QLD

Breaking down barriers to help increase fish populations

Almost half of the fish species in the Mackay Whitsunday region can live in both freshwater and saltwater environments. They move between these habitats for a variety of reasons including to feed, reproduce and avoid predators. Ideally, fish should be able to move freely and easily between different habitats. Unfortunately, barriers like dams, weirs, road crossings and other man-made structures can prevent or inhibit the movement of fish throughout the catchment.

This is a concern for the fish population, and locally important species such as barramundi, sea mullet, mangrove jack, jungle perch, tarpon and long-finned eels, which are significantly affected if they're unable to access breeding and feeding habitats. In many cases the fish are unable to complete their life cycle and sustain a healthy and resilient population.

Reef Catchments, with funding from the Australian Government's Reef Trust, contracted local fish experts at Catchment Solutions to update a fish barrier prioritisation report from 2015. The current study identifies 9,738 potential fish barriers, more than doubling the number found in 2015 (3974). Only a small fraction of the increase was attributed to new barriers, with the bulk resulting from the use of better satellite imagery, improved stream mapping and addition of wetlands to the study area.

This study not only identifies the locations of barriers, but also includes an analysis to rank the barriers in order of importance for fish passage. The barrier ranking process determined the extent to which barriers affected the sustainability of fish communities, with barriers top ranked having the worst impact on fish communities.

Key criteria included:

- the available habitat upstream from the barrier,
- the size of streams,
- proportion of intensive land use in the sub-catchment,
- number of barriers downstream,
- distance from the estuary, stream flow, habitat condition,
- and the physical characteristics of the barrier.

Reef Catchments Conservation and Communities Officer Carlos Bueno said that the purpose of the prioritisation was to identify key sites for investment, which is an ongoing priority for Reef Catchments and local governments.

The updated report identifies Stafford's Crossing (O'Connell River), Vitanza Road (Saltwater Creek), Marklands Wetlands, Flaggy Rock and Andromache Weirs, and many others, as top priority for remediation. The next step is fixing the highly ranked barriers to improve fish movement and habitat availability.

Catchment Solutions Fisheries Ecologist Trent Power said that the current prioritisation took a big leap forward in terms of being able to remotely identify barriers to fish passage. This will help Reef Catchments, Mackay and Whitsunday Regional Council and other catchment groups focus their funding on sites which will deliver the greatest benefit to local fish stocks.

- ENDS -

For the full reporting document please visit https://reefcatchments.com.au/projects/fish-barriers/. FOR MORE INFORMATION. Please contact:

Carlos Bueno
Project Officer - Conservation and Communities
Reef Catchments
Email: carlos.bueno@reefcatchments.com

Ph: (07) 4968 4200