

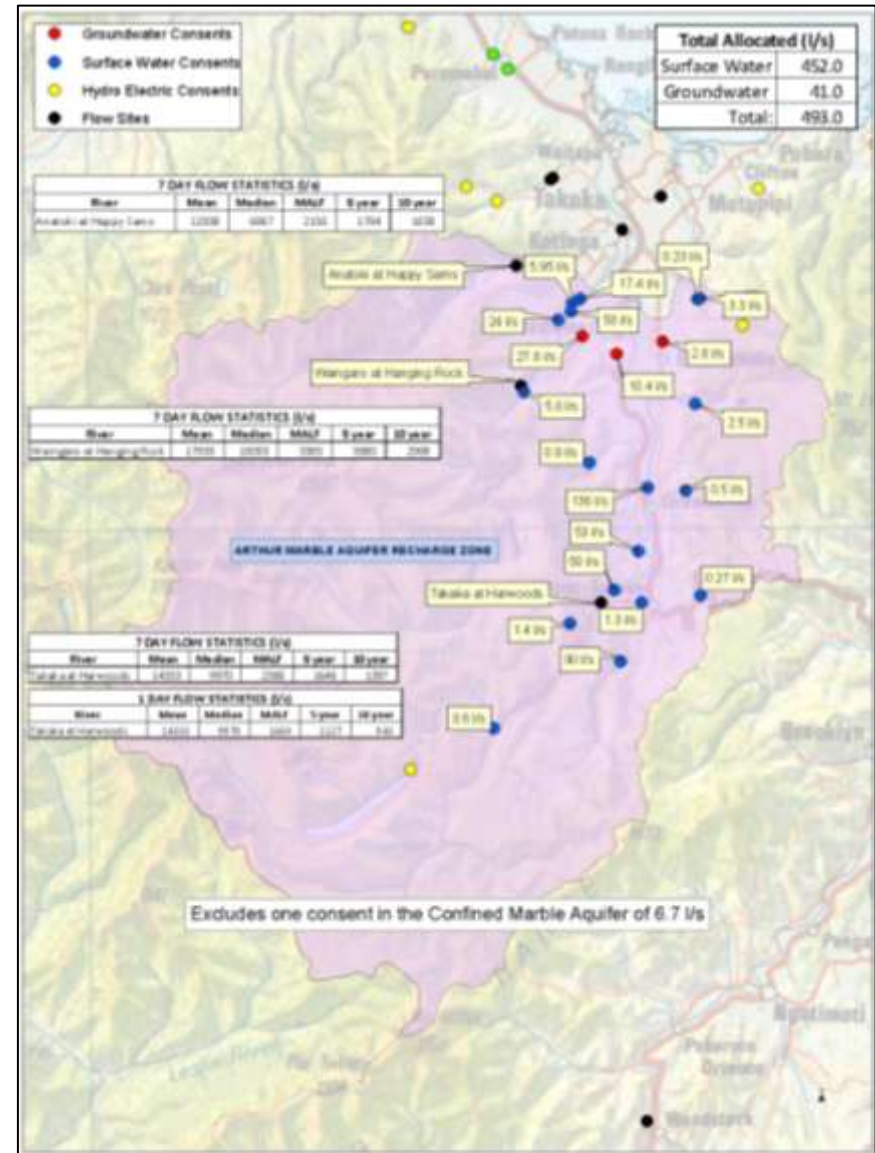


# **Allocation in the AMA Recharge Zone**

**Joseph Thomas /Trevor James /Monique Harvey**  
**24 July 2015**

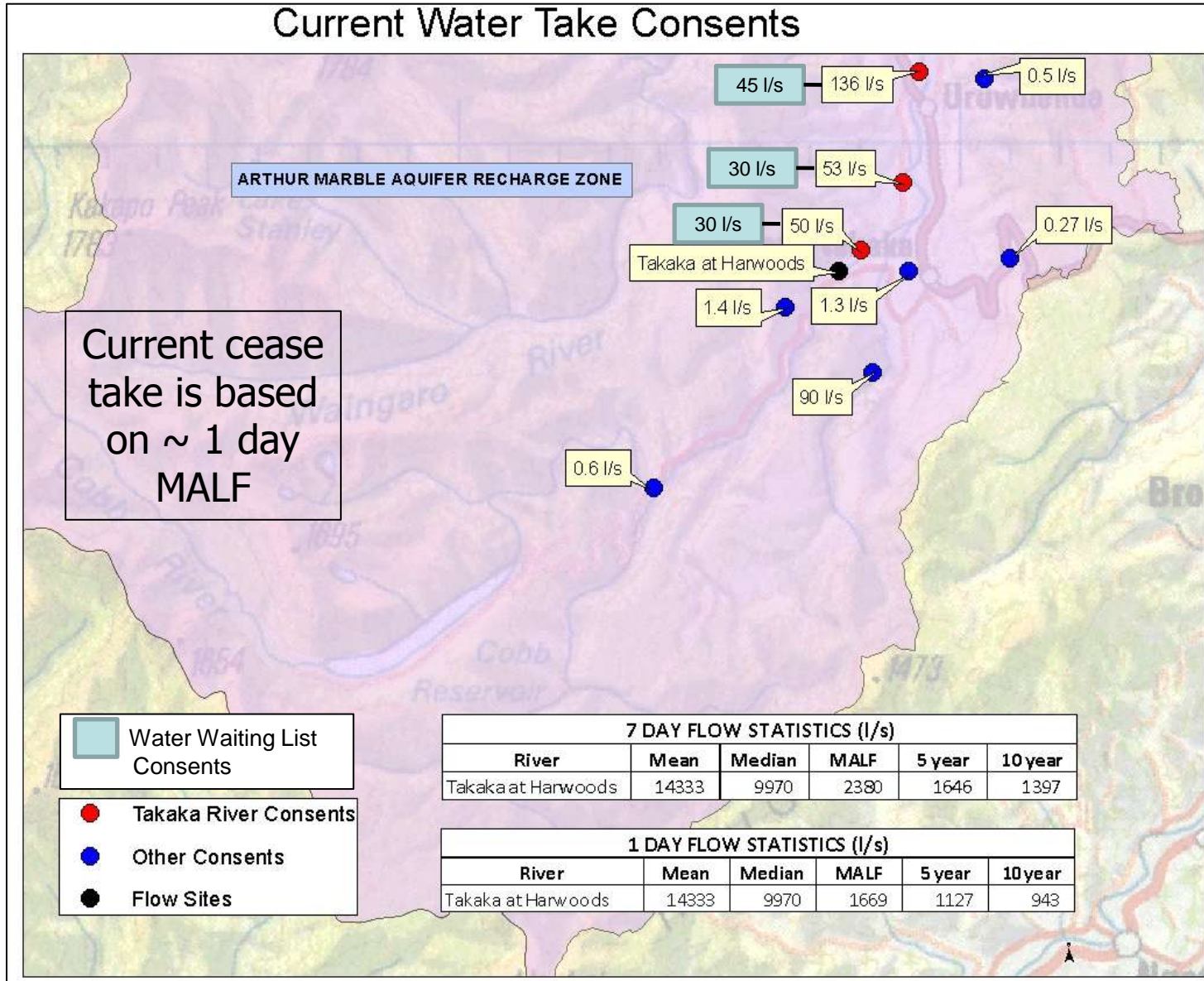
# AMA Recharge Zone - Current Status

- AMA Recharge Zone is a large area.
- Multiple significant rivers/streams.
- The Takaka River goes dry, as do many small streams.
- Complex interactions of recharge source water to Te Waikoropupu Springs.
- Upper Takaka River is an important driver of recharge.
- Current water take consents in Takaka River have had cease take limits for many years.
- Consideration of **existing consents** and impacts is necessary in considering allocation limits for this zone.

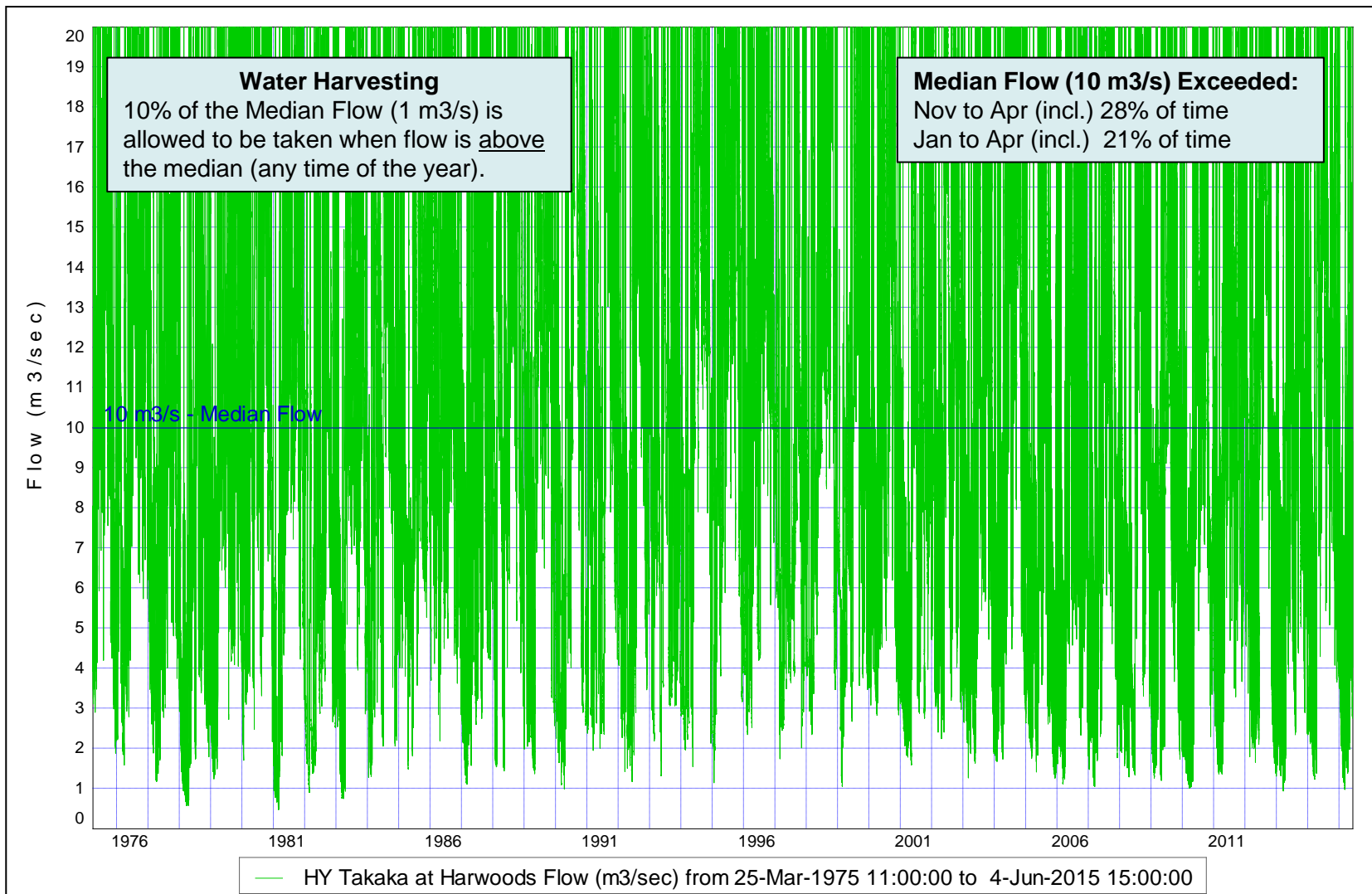


# Upper Takaka River – Above Drying Zone

## Current Water Take Consents



# Water to Storage Plan Provision – Upper Takaka

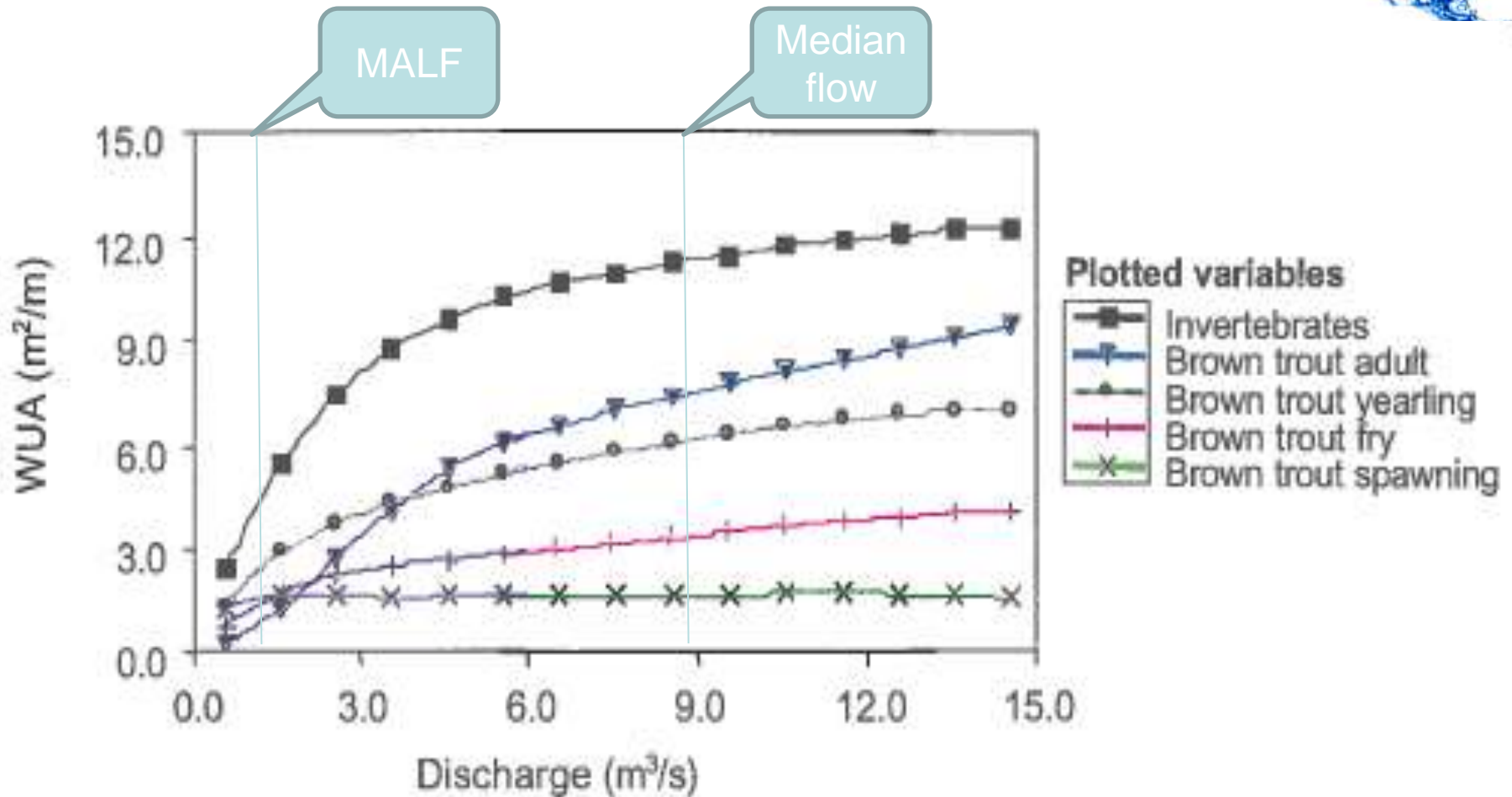


# Ecological Values of Takaka River from Harwood's to Lindsay's Bridge

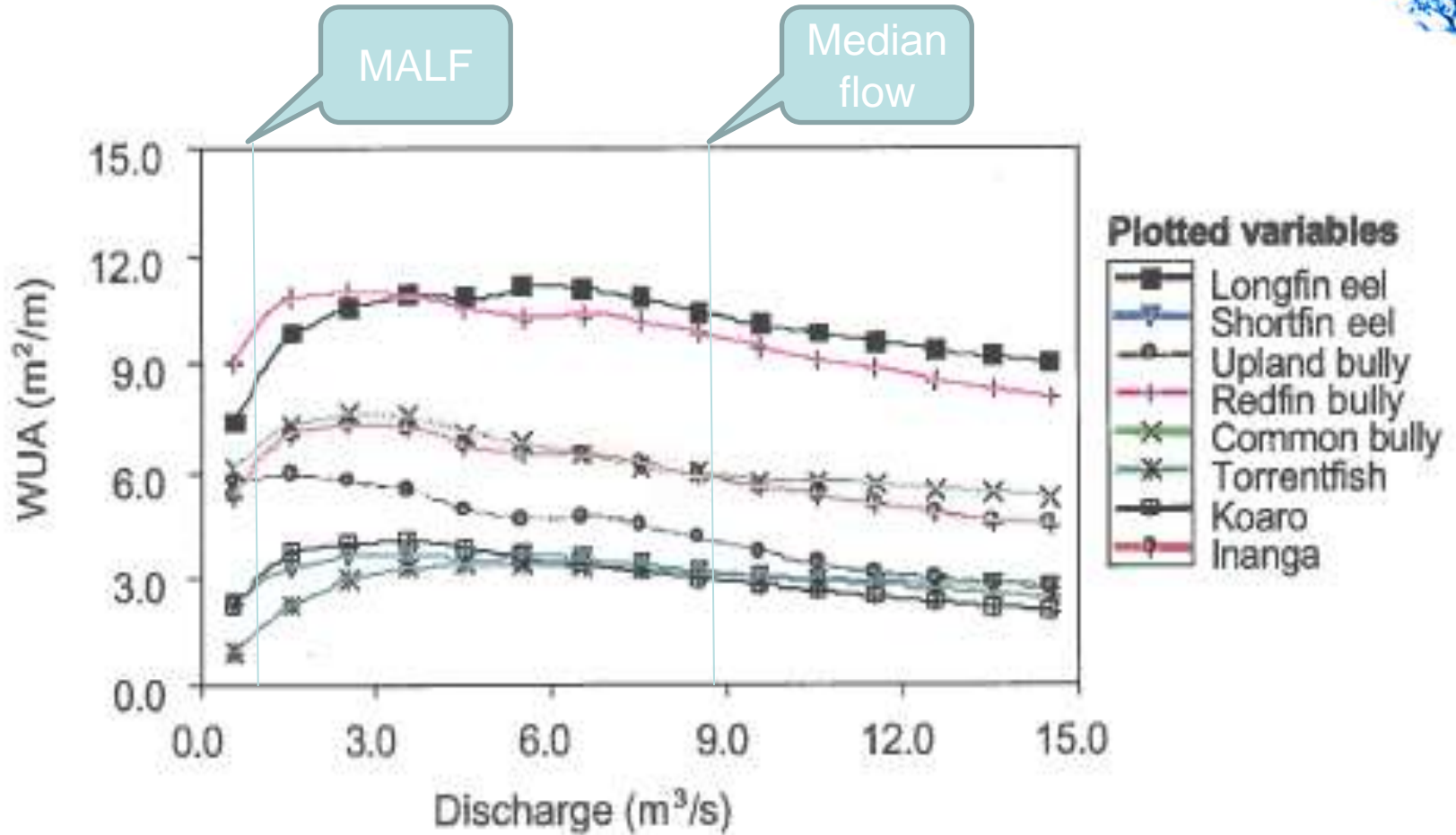


- **Brown trout – “regionally significant”**
- **Native fish**
  - IBI = 38 (“very good”) & RiVAS = “moderate significance”
  - surveys over the last 10-20 years show low native fish abundance and diversity

# Takaka River at Harwood's Invertebrates and trout

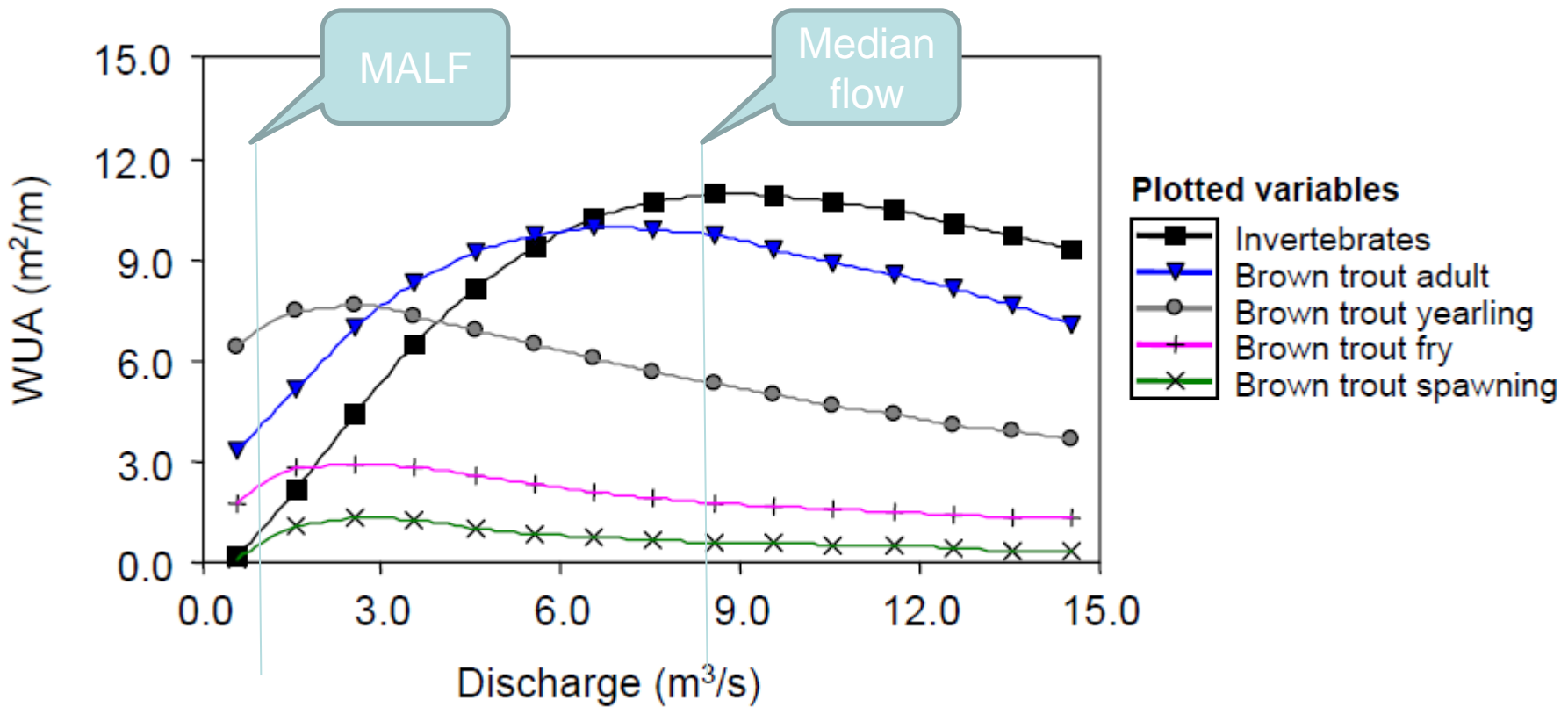


# Takaka River at Harwood's Native Fish



# Takaka River at Lindsay's Bridge

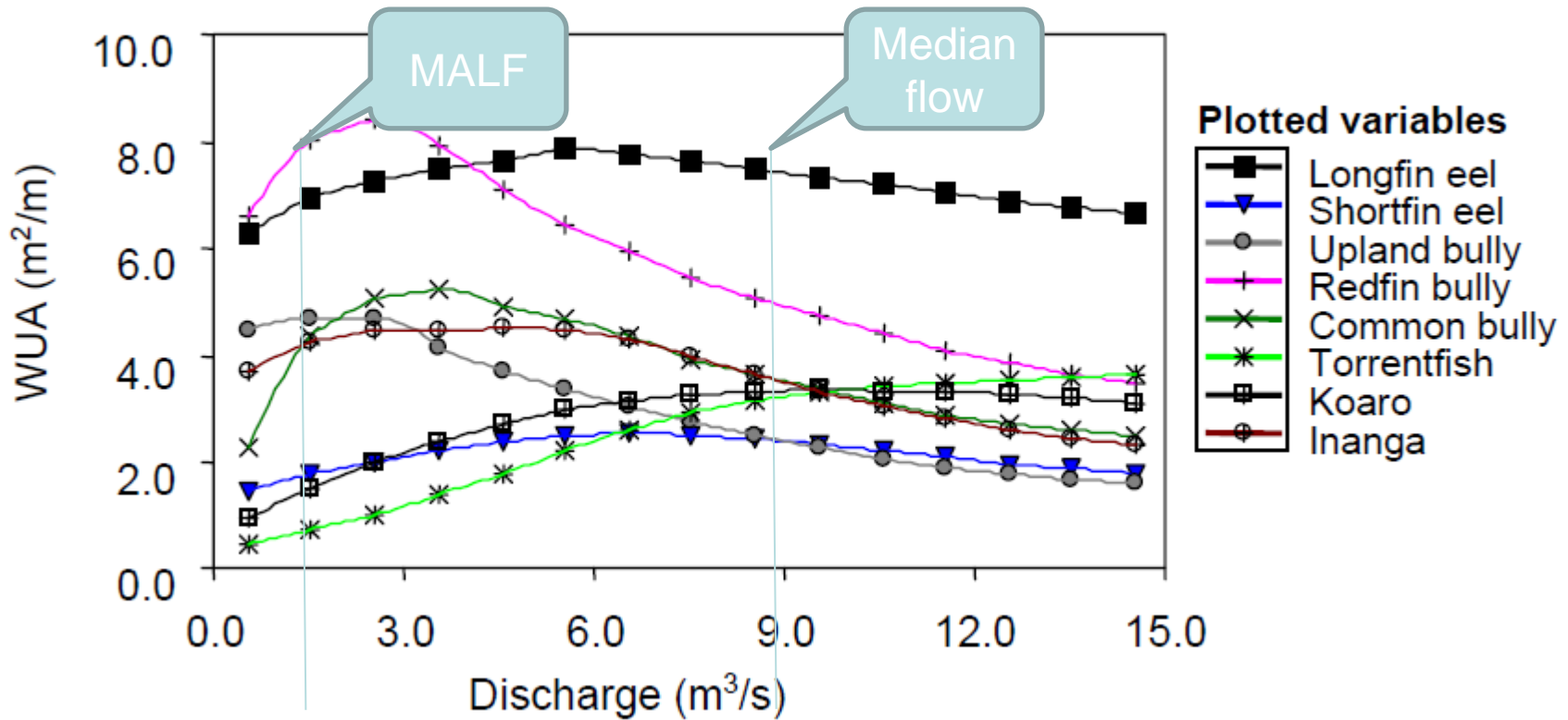
## Invertebrates and trout



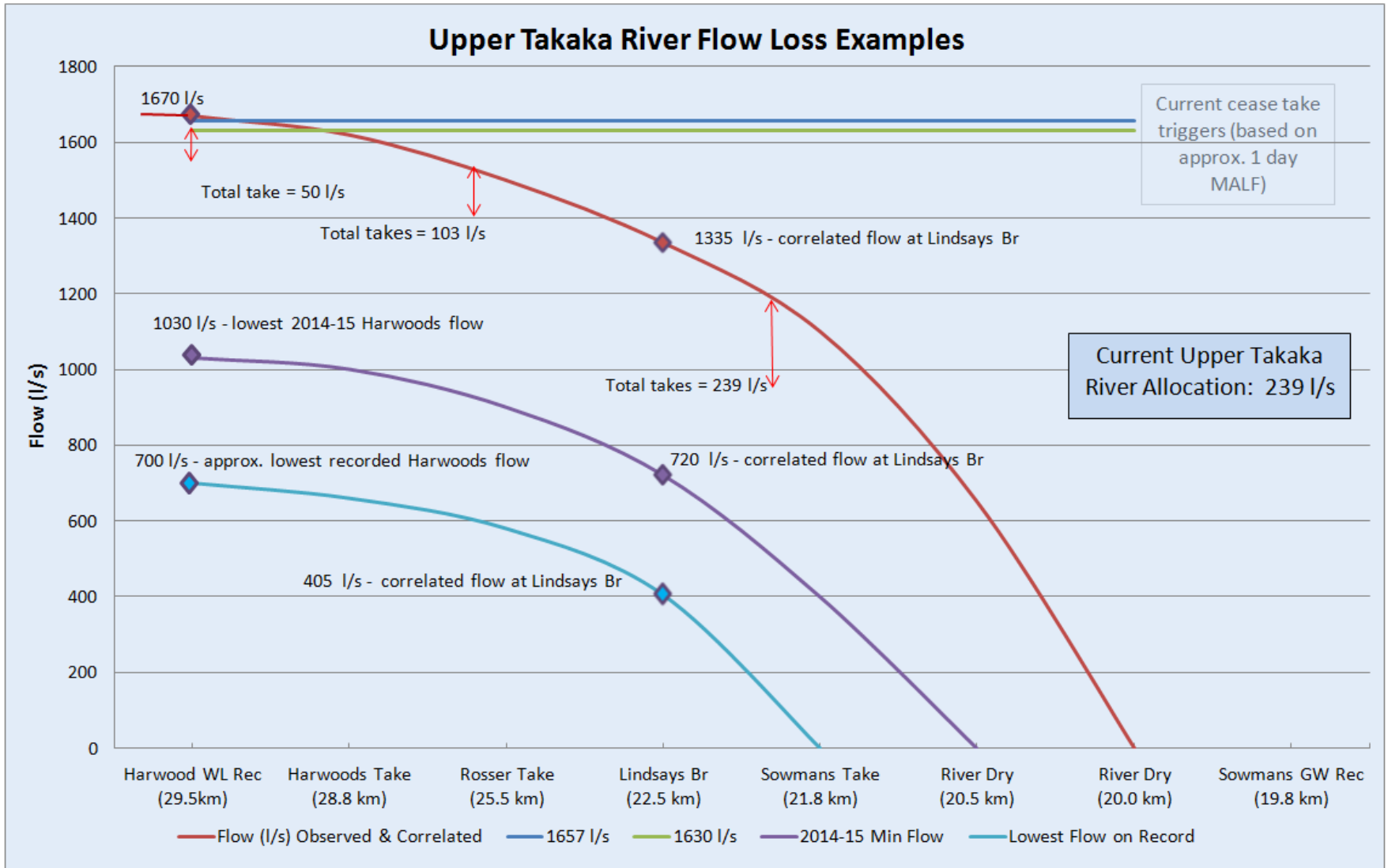


# Takaka River at Lindsay's Bridge

## 8 native fish



# Upper Takaka River Flow Losses Scenarios



# Upper Takaka River Flow Losses Scenarios

## Upper Takaka River Flow Loss Examples

