Better estimates of functional trait diversity are likely to be key in resolving this matter. In this study we selected a general set of traits to encompass the major axes of variation in ecological strategy in both terrestrial and riparian communities. Further investigation of traits specific to flow-response strategies is warranted (Merritt et al. 2010). Rooting traits, in particular, while difficult to obtain, but capture important information about riparian plant ecological strategy (Stromberg 2013). The importance of intraspecific variation is also being increasingly recognised in functional ecology (Violle et al. 2012). Again, this data is time-consuming and expensive to obtain, especially for traits such as seed mass, which can not be collected for all species simultaneously.

Interactions between env variables?

Belowground traits, categorical data types that allow multiple category membership (Pavoine)

The traits I chose must have been at least half way decent at capturing variation in ecological response to hydrological conditions.

Intraspecific variation

What are the implications for conservation?

Are environmental flows likely to be a useful tool in conservation in this landscape?

Depends how they’re structured – to generate disturbance or to simulate a modelled pre-development flow regime. Interesting to note that species richness actually \*increased\* in response to increased regularity imposed by dams (and there was no corresponding increase in exotic spp. to account for the extra richness).

Are there perhaps some sensitive systems where multifunctionality is naturally low?

Relationships between spp rich, FDis, FRic and exotic abundance?

Significant log relationship with spp. richness (steep at low exotic abundance)

Can’t really say much about whether exotics are the cause of reduced spp. richness or whether they’re both passengers of the same processes.

Nothing significant with FDis or FRic. Not really that much data at high exotic abundance…

**Catford et al is the only paper that did something remotely similar for hydrology. WEEDS**

44 - Macfadyena.unguiscati, lantana camara (ex = 0.418, FRic.SES = -0.191, FDis.SES = 1.012)

21 - Macfadyena.unguiscati (ex = 0.476, FRic.SES = -0.106, FDis.SES = 1.022)

31 – Macfadyena.unguiscati, lantana camara (ex = 0.582, FRic.SES = -0.134, FDis.SES = 1.328)

32 - Macfadyena.unguiscati, leucaena (ex = 0.863, FRic.SES = -0.326, FDis.SES = 0.416)