

Banting ALK, Taylor MK, Vinebrooke RD, Carli CM, Poesch MS. Assisted colonization of a regionally native predator impacts benthic invertebrates in fishless mountain lakes. Conservation Science and Practice. 2020;e344.

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DATA & FILE OVERVIEW

File List (files found within DATA_Bantingetal.zip) :

- 1) R_Script_Banting_etal.R --> All analyses performed in the publication are combined into this one R script
- 2) games.howell.R --> This function produces results from Games-Howell post-hoc tests. Run this from your working directory when prompted in R.
- 3) pairwise.adonis.R --> This function produces results for multilevel comparison using Adonis. Run Pairwise.adonis function from your working directory when prompted in R.
- 4) env.csv --> environmental predictor variables and data collected for each lake, categorized by lake group (fishless, nonnative, native)
- 5) taxa_diversitymeasures.csv --> density values (individuals·m⁻²) for 50 littoral invertebrate families (rare taxa included, zooplankton excluded), categorized by lake group (fishless, nonnative, native)
- 6) taxa.csv --> density values (individuals·m⁻²) for 26 common (present in >10 % of lakes) littoral invertebrate (rare taxa and zooplankton excluded), categorized by lake group (fishless, nonnative, native)
- 7) RAW_taxa_2015_2016.xlsx --> raw count data collected from 202 sample sites at 36 alpine and sub-alpine lakes (including zooplankton) (RAW_taxa_2015_2016.xlsx);

**DATA-SPECIFIC INFORMATION FOR:
[env.csv]**

Lake name abbreviation for 'env.csv' & 'taxa.csv'	Lake name or number code
259	259
355	355
DRU	Drummond
ELI	Eli (B642)
GOA	Goat
GRA	Grace (Allenby)
LFA	Lower Fatigue
LMA	Lower Martin
LNA	Lower Nasswald
UDE	Upper Devon
UFA	Upper Fatigue
UMA	Upper Martin
UNA	Upper Nasswald
BFI	Big Fish
BRO	Black Rock
DEE	Deer/Pipestone

ELK	Elk
LFI	Little fish
LTW	Lower Twin
MOO	Moose
MYS	Mystic
SAW	Sawback
UTW	Upper Twin
BAD	Badger
BAK	Baker
BOU	Bourgeau
EGY	Egypt
HDO	Howard Douglas
HEL	Helen
HID	Hidden
KAU	Kaufmann
PTA	Ptarmigan
RED	Redoubt
ROC	Rockbound
TAL	Talc
UCO	Upper Consolation

Variable category	'env.csv' abbreviations	Variable description
ID	lake	Name or coding of lake
Treatment variable	treatment	Lake group categories
Lake location /morphometry	utm.e	Easting (E; NAD 83)
	utm.n	Northing (N; NAD 83)
	elev	Elevation (m)
	depth	Depth (m)
	lk.area	Lake area (ha)
	catch.area	Catchment area (ha)
	perim	Perimeter (m)
Water chemistry	jul	Julian Day (day of sampling)
	w.tmp	Water temperature (°C)
	do	Dissolved oxygen (mg/L)
	cond	Conductivity (µS/cm)
	ph	pH
Substrate (% composition)	cl	Clay
	sdgl	Sand/Gravel
	pb	Pebble
	cb	Cobble
	bd	Boulder
Habitat (% occurrence)	wd	Woody debris
	am	Aquatic macrophytes