

Ecological effects of biochar on stream communities

Will Clements

Dept. of Fish, Wildlife & Conservation Biology
Colorado State University



Previous Findings (2014)

Mayflies

BAETIS
DIPHET
DRUDOD
DRUGRA
SERRAT
CINYGM
RHIHAG
PARALEP
AMELET

Stoneflies

CAPNIA
ZAPADA
TAENIO
SWELTS
HESPAC
ISOPERLA
MEGSIG
SKWALA
PTEBAD

Caddisflies

BRAAME
MICRAS
GLOSSO
ARCGRA
LEPIDO
RHYACOP
ALLOYM

Dipterans

CHIRON
TANYTA
ORTHOC
TANYPO
BEZZIA
EMPIDI
CHELIF
PERICO
SIMULI
ANTOCH

Other Taxa

HETCOR
HYDRAC
NEMATO
OLIGOC
POLYCEL

Environmental
Science & Technology

Article

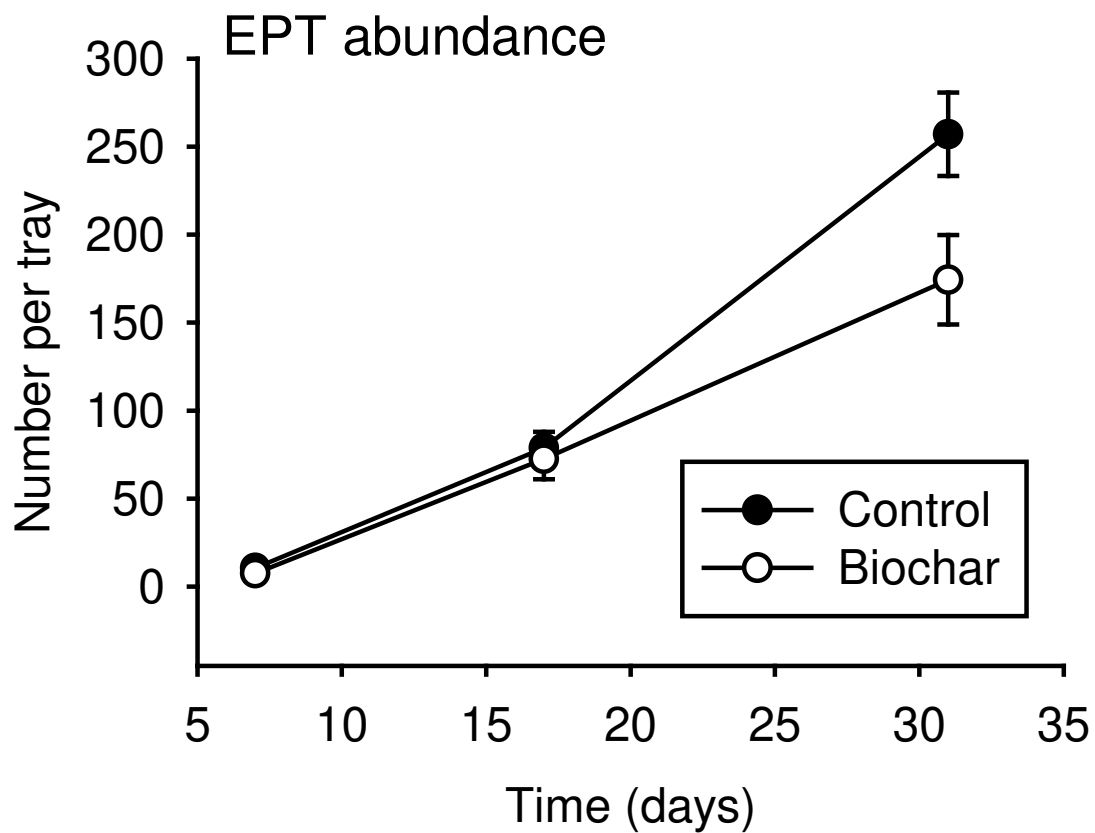
pubs.acs.org/est

Ecological Effects of Biochar on the Structure and Function of Stream Benthic Communities

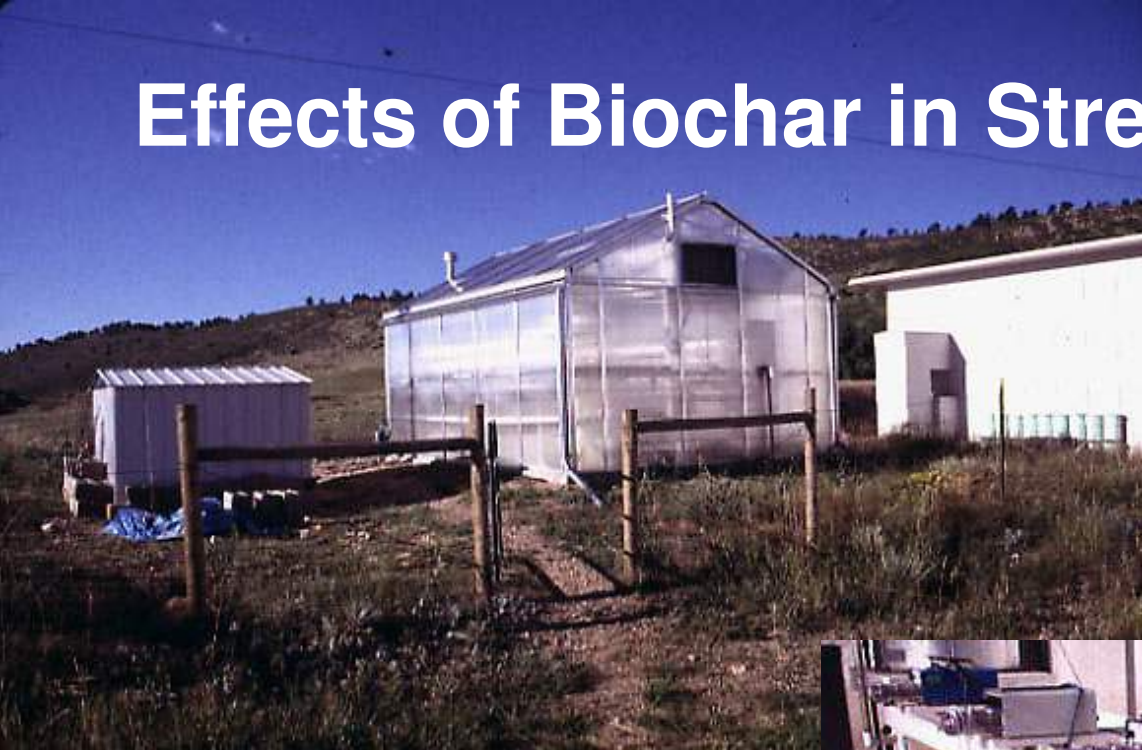
William H. Clements,^{*,†} Ralph G. Stahl, Jr.,[‡] and Richard C. Landis[§]

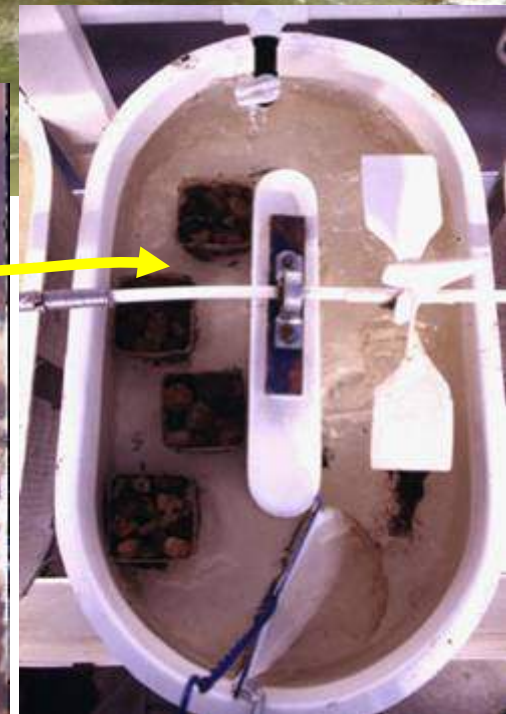
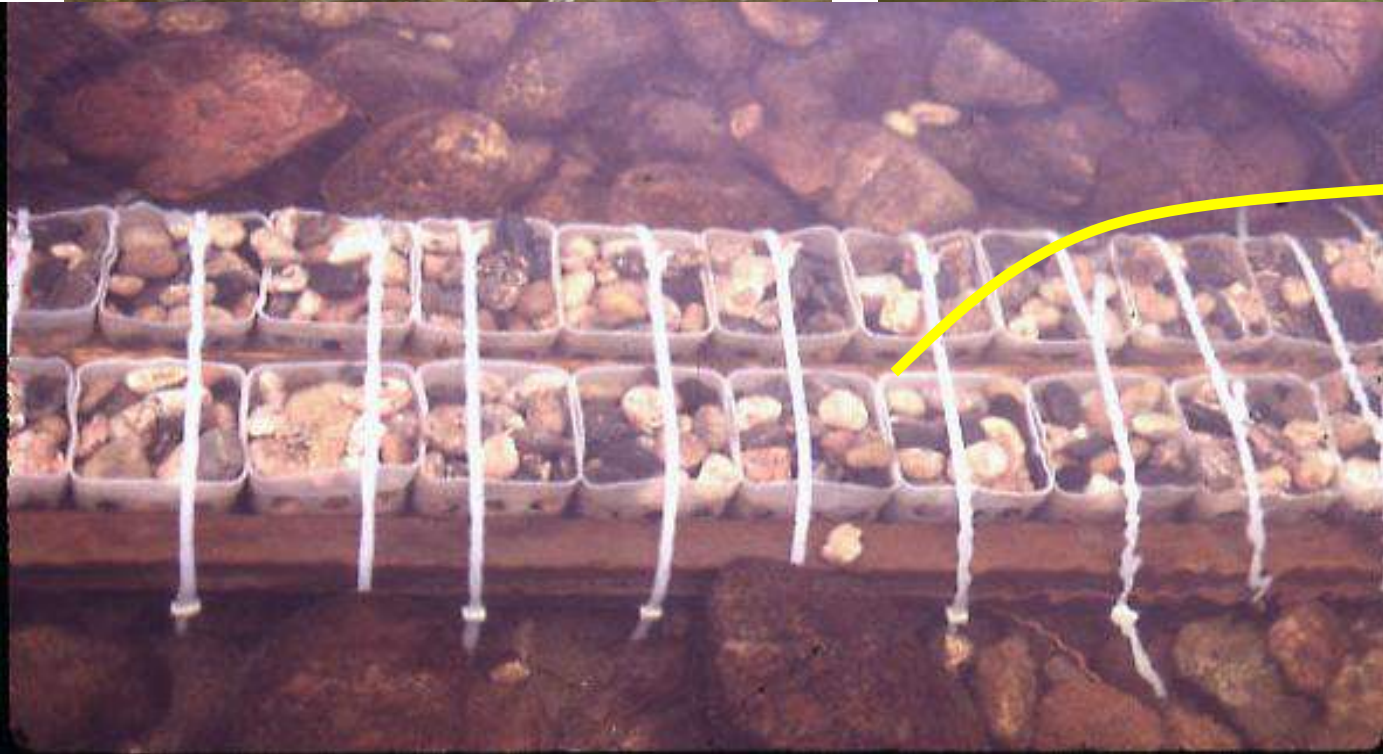
Communities on trays similar to
those in natural substrate



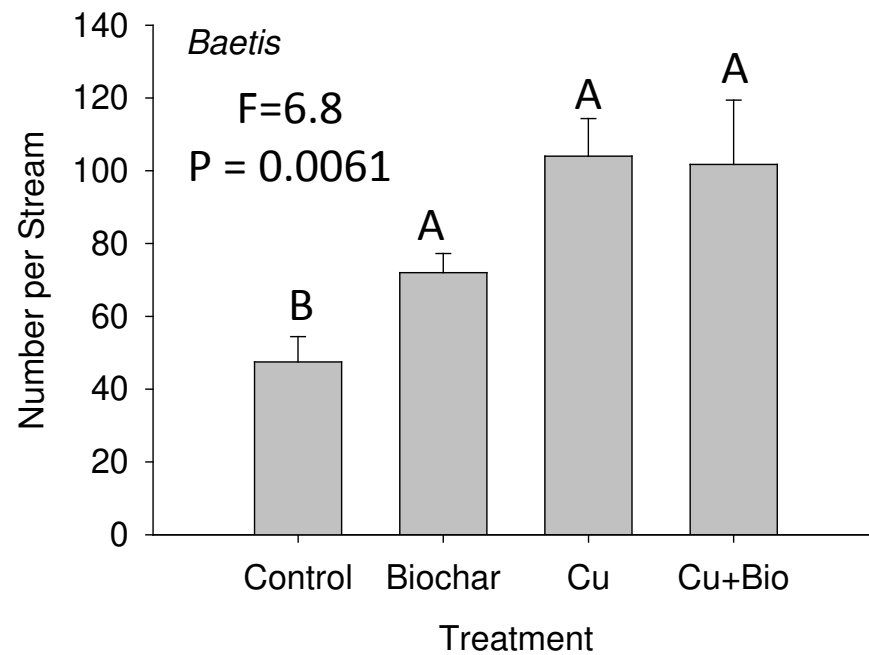
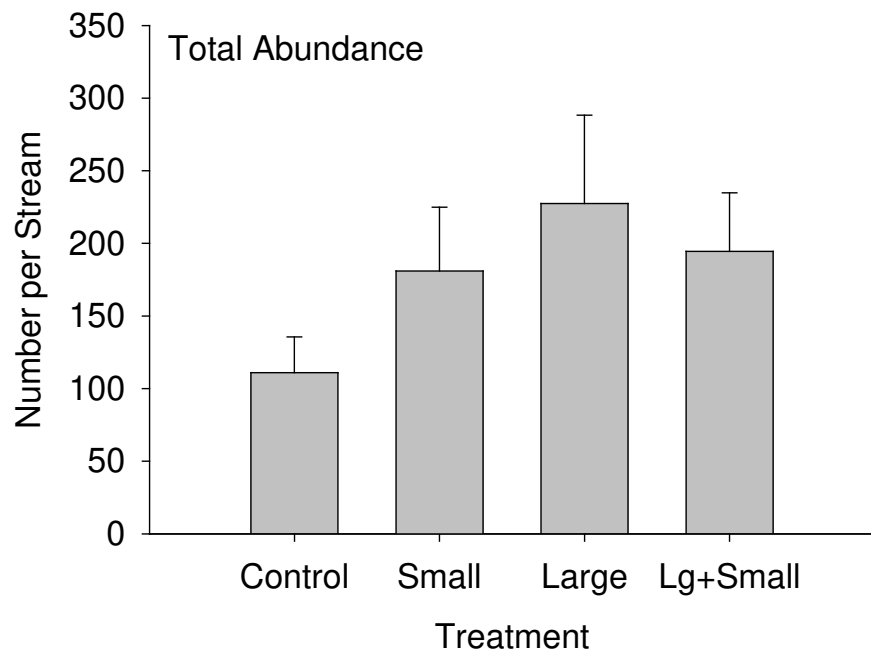


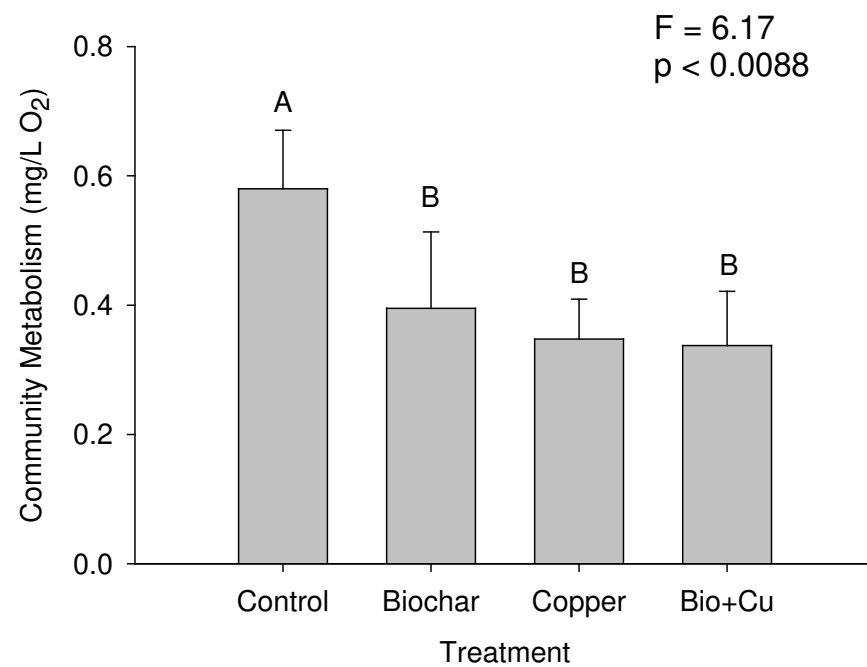
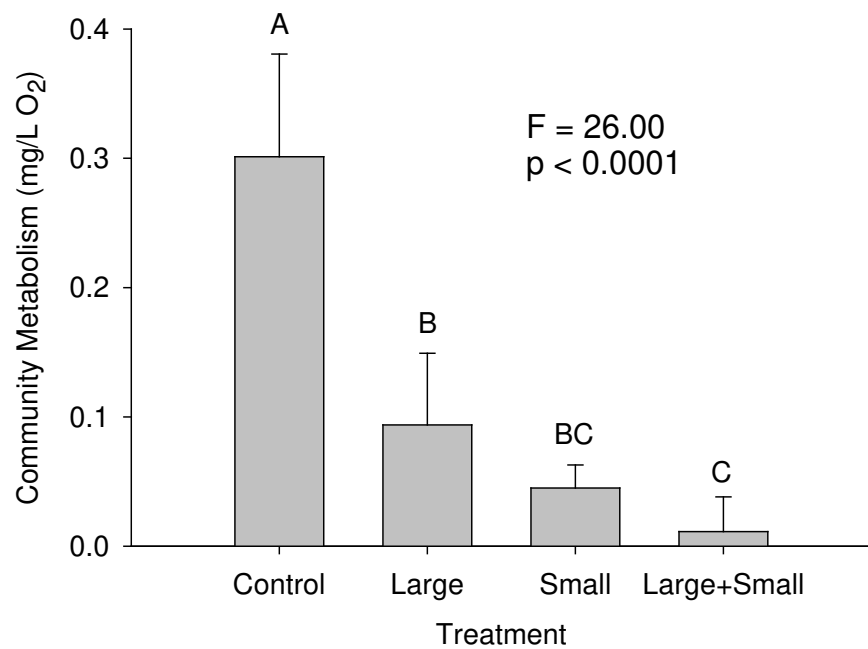
Effects of Biochar in Stre

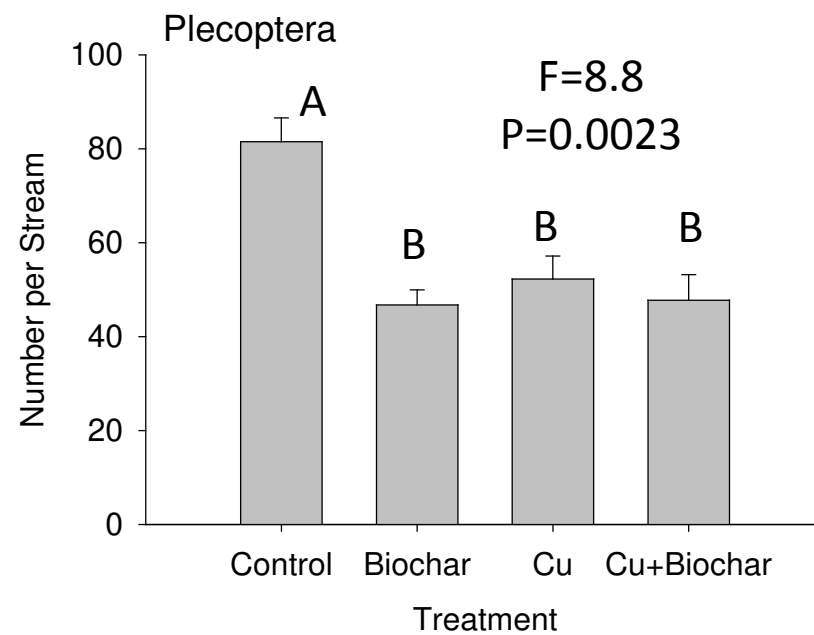
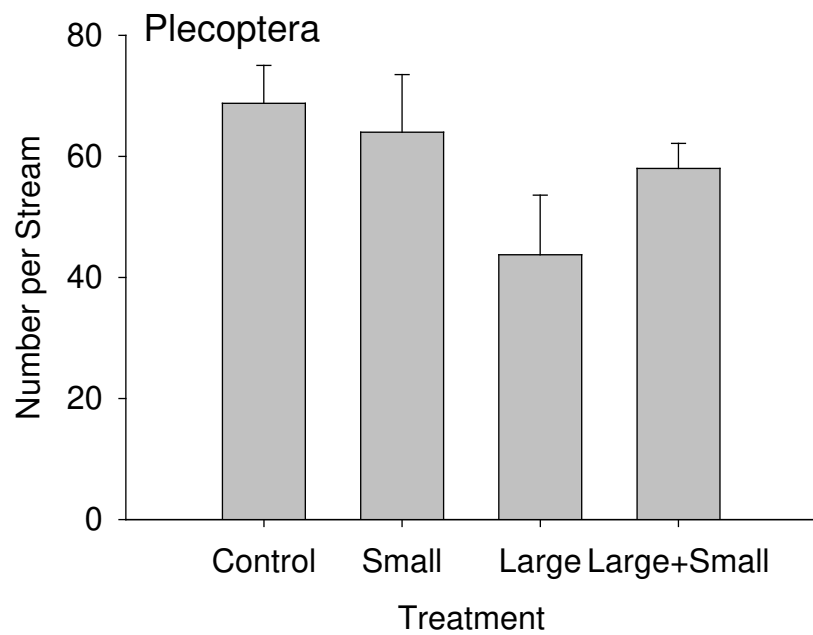








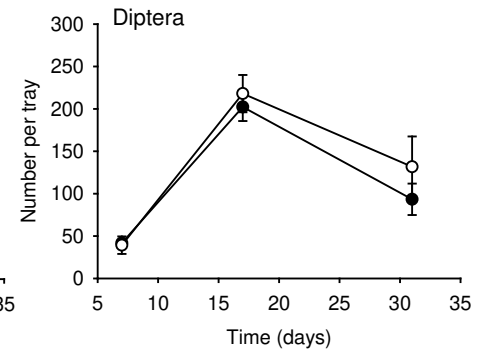
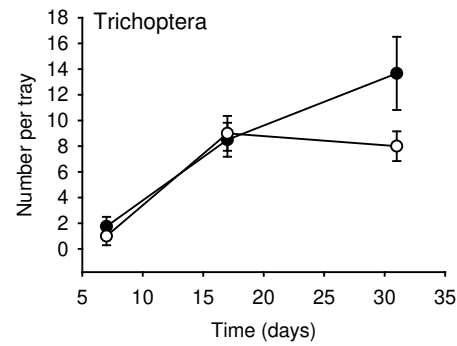
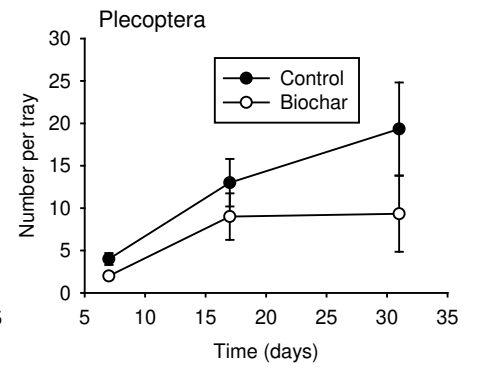
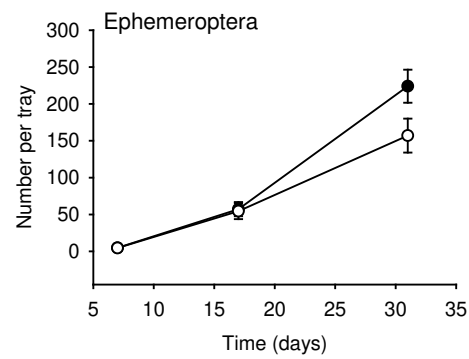




Objectives of the 2016 Study

- Assess effects of Biochar on survival and community composition in the field
- Quantify potential effects of leachates from biochar materials





Questions and Suggestions?

