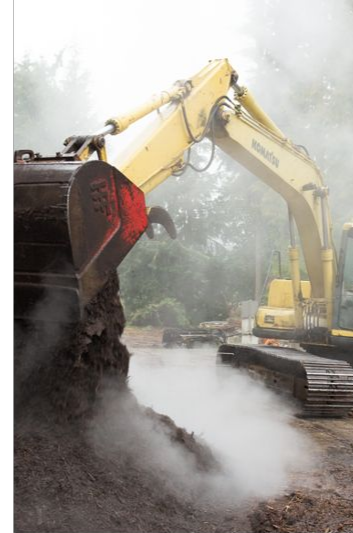




Midnight's Farm Barn North Side.
Farmstand is original milk shed



Midnight's Farm

Lopez Island

- Cheesecake & Wooded Chutney
 - Beef
 - Pork
 - All Farm Meat
 - Yoga @ www.midnightsfarm.com
 - Wood fired Bakery
 - A big farm stand provides the opportunity for you to experience all products
- Facebook & Instagram
@midnightsfarm





**Bin 0 – mixing,
wetting**

Bin 1

Bin 2

Bin 3



Drop Off Fees

For Wood and Yard Debris

Grass
Clippings
are Free



Small
\$5

Cars, compact & full size
pickup trucks & small trailers
0 to 4 yard loads



Medium
\$10

Full size pick ups filled to top of cab,
larger trucks & trailers
4 to 9 yard loads



Large
\$35

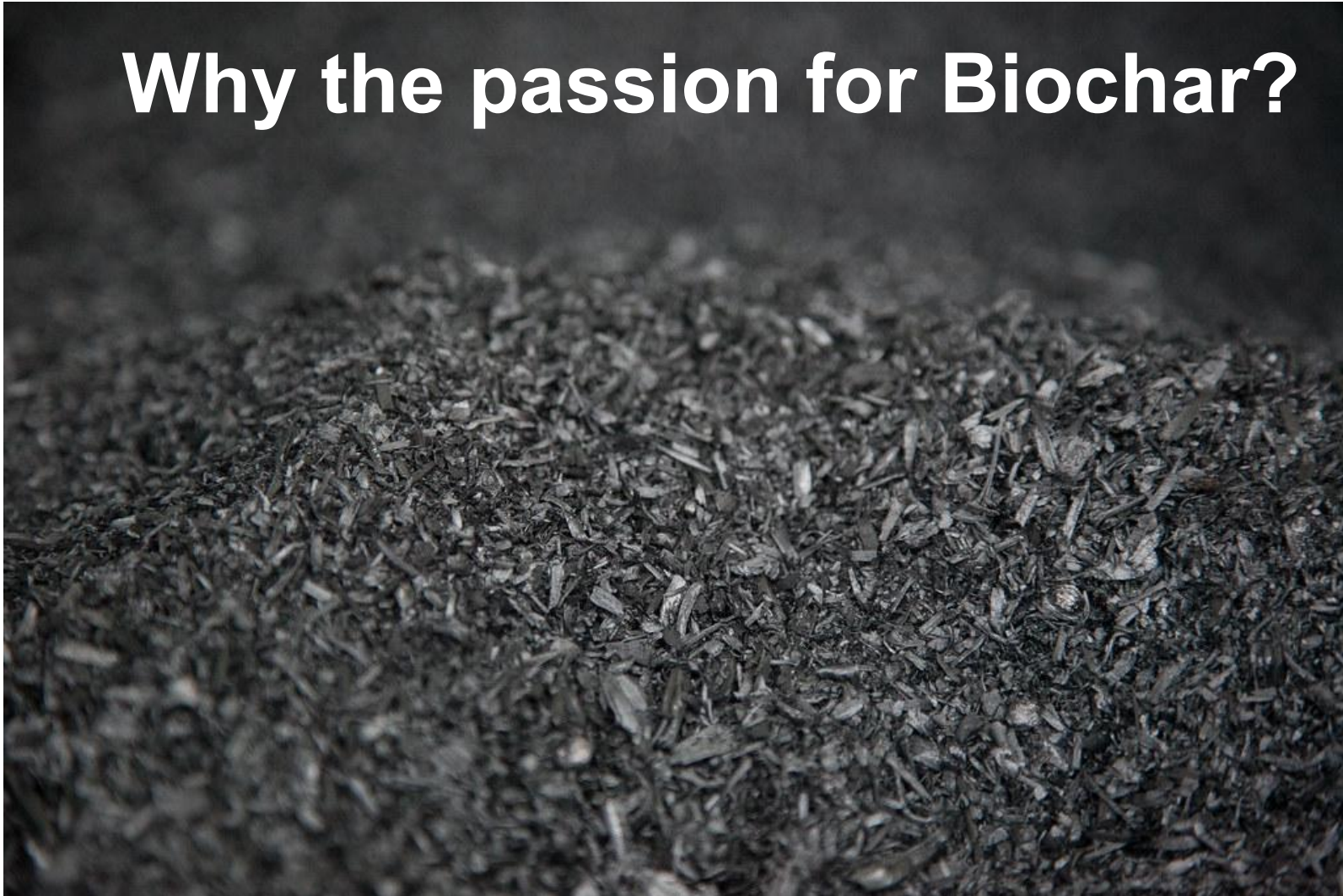
Full size dump trucks & trailers & ANY
TRUCK LOADED WITH AN EXCAVATOR
10 yard or larger loads



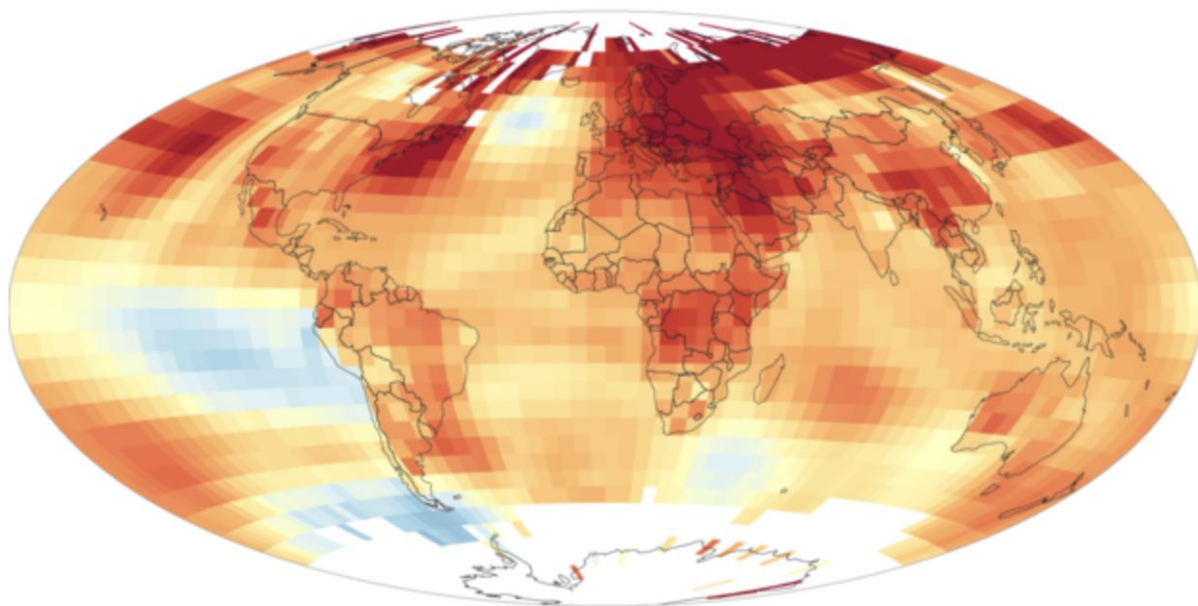




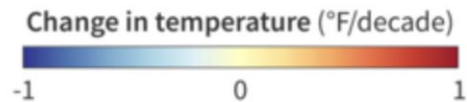
Why the passion for Biochar?



RECENT TEMPERATURE TRENDS (1993-2022)



1993-2022

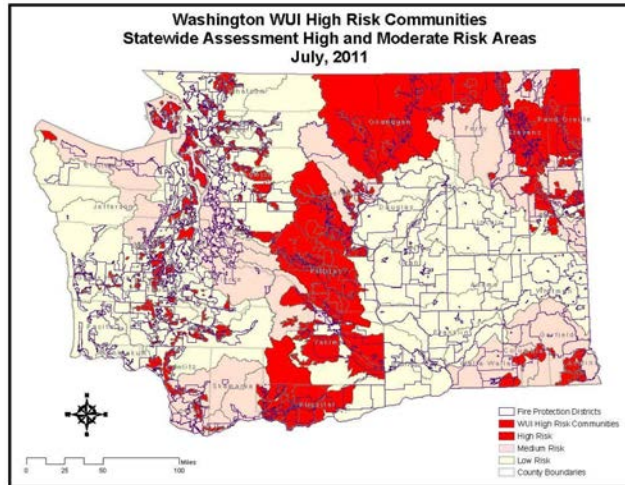


NOAA Climate.gov
Data: NCEI

Soil Health Benefits



Excess Woody Biomass & Wildfire Risk



Scary Big Woodchip Piles





We have the equipment to size and handle biochar feedstocks

Synergy between Compost and Biochar



Charged &
Charging

Who doesn't like to burn stuff

& We Wanted:

Reliable clean burn
Continuous feed operation
To utilize our excess wood chips
Ability to use the heat

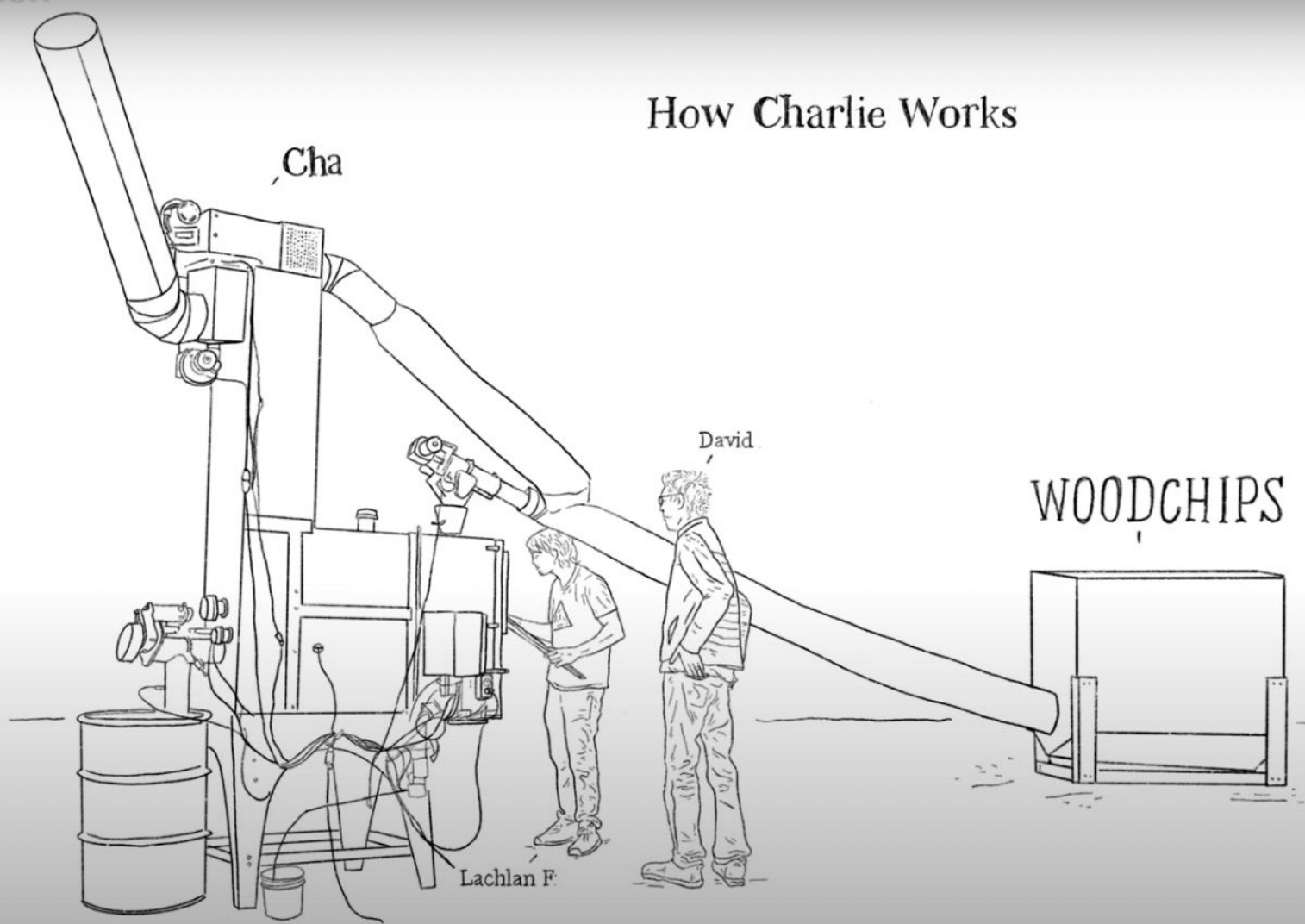


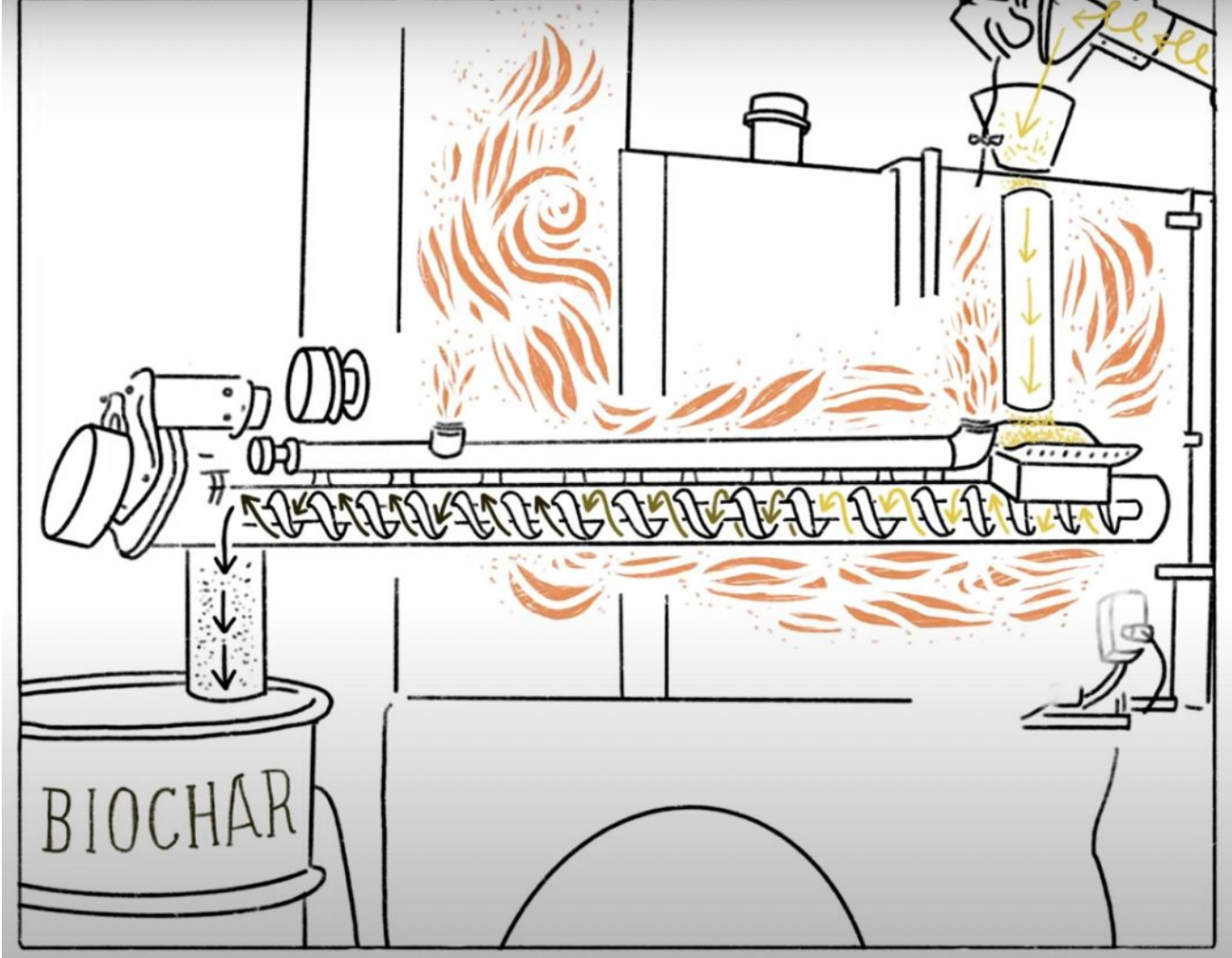
“Charlie”

- combined heat and biochar (CHAB) continuous pyrolysis machine
- Modified Rocket Char 301 from Highplains Biochar



How Charlie Works





CREATING BIOCHAR LOCALLY

On Midnight's Farm
Youtube Channel



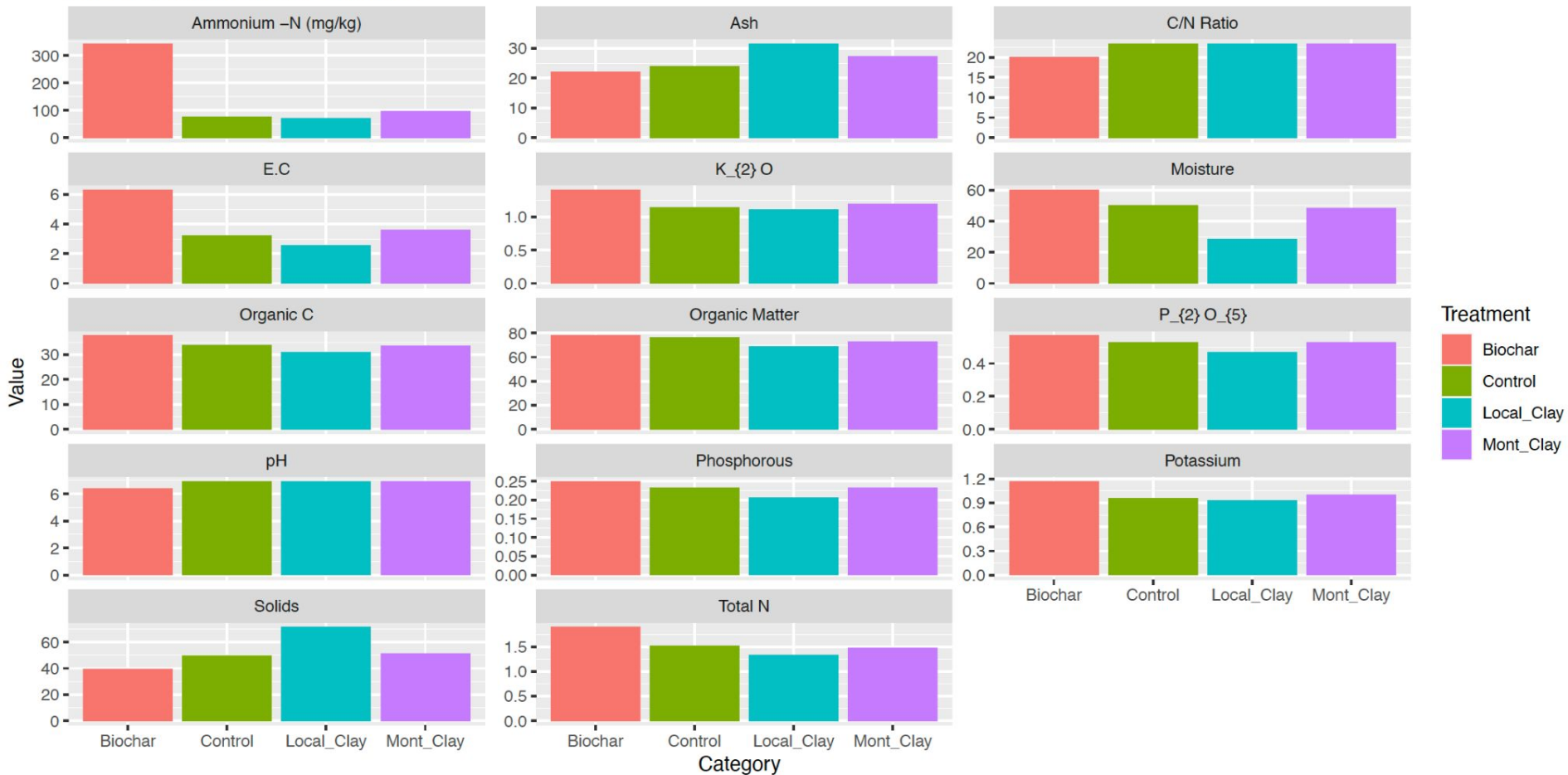


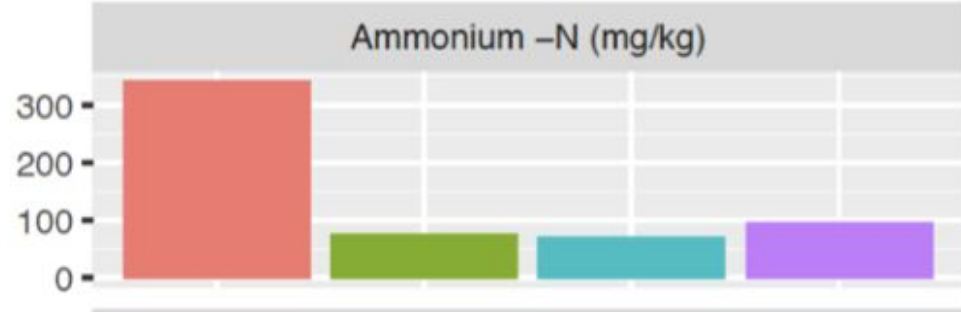
Investigating the elasticity of biochar: manure handling, compost feedstock, soil amendment and carbon storage.

Investigating the Addition of Clay to Feedstocks for Increased Nutrient Density and Carbon Stabilization in Compost

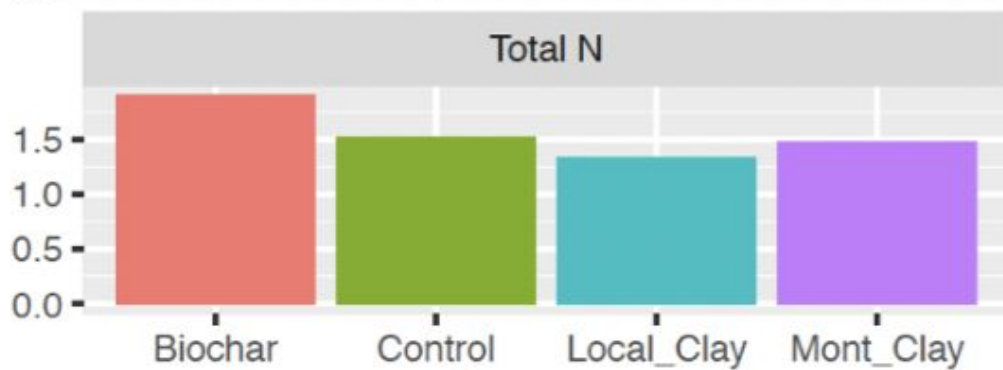


Bar Graph with Multiple Variables





Treatment



Potting Mix Recipe

3 parts compost fines

2 parts aged wood fines

1 part biochar

Amended with all purpose
8-2-4 fertilizer





← Local Clay

Biochar →



Treatment	Germination percent
Local	60.2 %
Control	71.3 %
Mont. Clay	47.4 %
Biochar	75.5 %



← Mont. Clay

Control →



- Multiple synergies between Biochar and Compost
- Compost as method of “charging” biochar.
- Biochar as a promising solution for the excess woody biomass
- There is a need for small (farm) scale biochar production technology
- It is much easier to have a hypothesis than to get the results that support it

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