



Char Production - 2016



Char



Biochar at 5% by Volume in Top 6 Inches

Char has much to offer forest owners:

- Resilience to Climate Change Through:

Increased Nutrient Retention

Increased Water Retention

Increased Biological Activity in Soil

- Partial Off-Set of Management (PCT)
Costs

- Fire Hazard Reduction

- Potential Income:

Biochar

Donate to Agricultural Research

Future carbon Market

- Carbon Sequestration

DIY Projects & Ideas | Credit Services | Pro Kits | Store Finder | Order Status | Local Ad

 Products and Services | |  Your Store: **Lakota** |  Sign In or Register | 

Home > Outdoors > Garden Center > Landscaping > Soil & Soil Amendments > Soil Amendments

Black Soil | Model # B100Y | Interest-free financing

2 cu. yd. Tote Premium Organic Biochar

4.5 out of 5 stars | Write the First Review | Questions & Answers (1)



\$899.00 /each

☐ Ship to Home
Estimated Arrive: FEB 28 - MAR 3
[See Shipping Details](#)

☐ Ship to Store **FREE**
Available for Pick Up: MAR 1 - MAR 4

1

OR

FREE SHIPPING ON ORDERS TO THE CONTINENTAL U.S. ONLY. ALASKA & HAWAII ADDL.

☐ PRODUCT NOT SOLD IN STORES

Char has a Market Value



Japanese Pit Cone



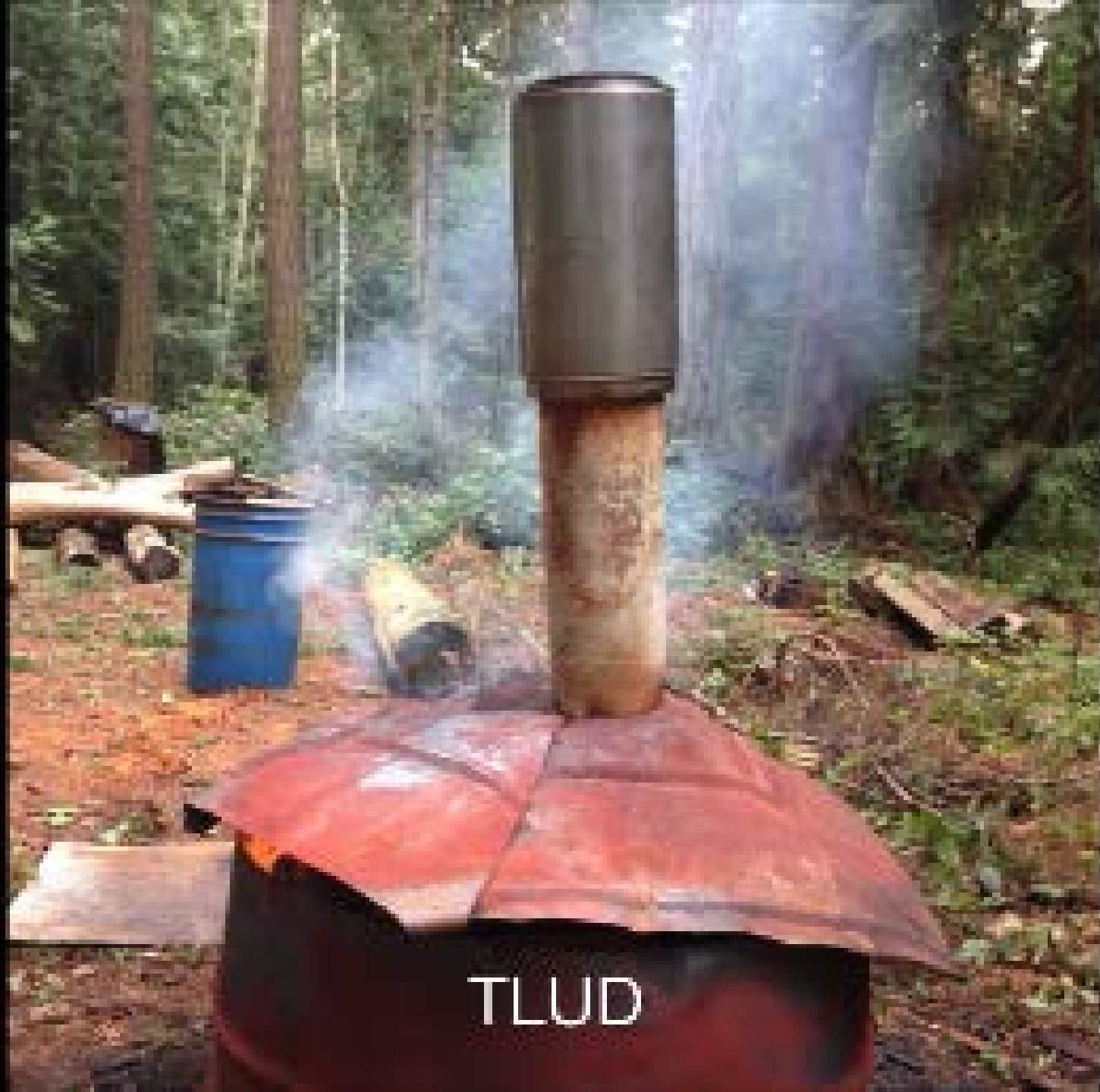
Japanese Cone Pit



Retort



Return



TLUD





Cylinders of Various Sizes
Lid Fits Inside Cylinder



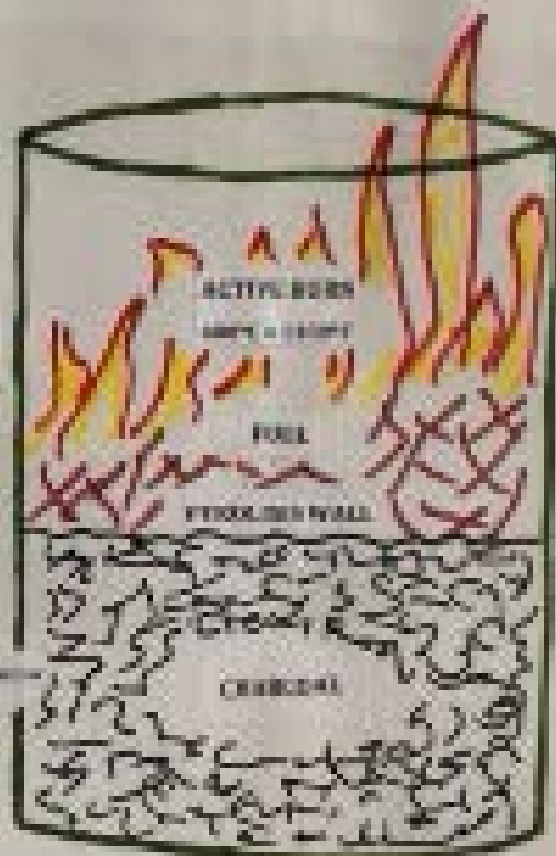
First Stage - Volatile Gases Burn



MAKING CHARCOAL WITH A MEDIUM CYLINDER FILM

SCENE 1

Heat releases volatile
gases from fuel, which
ignite and combine to form



SCENE 2

Heat is absorbed by
the walls, the gas and the
pyrolysed wall and the
charcoal is used



Start Fire against Interior Wall



Create a Draft to get Fire Started



No Smoke = Hot, Clean Burn



Seal Bottom Edge



Blue Smoke = Temperature Too Low



Adding Fuel



Trimming Fuel to Fit in Cylinder







White Smoke = Steam, Low Temperature



Brown Smoke = Methane, Temperature Too Low
Adding too much Fuel at Once





Methane Being Consumed by Fire



Strive for a Clean Burn



Continue Adding Fuel until Cylinder is Full of Char



Cylinder Full of Char



Remove Large, Unburned Pieces from Top of Cylinder



Prepare Lid and Quenching Water



Quenching



Place Lid



Seal Lid with Dirt





Stop all Steam Leaks



No Oxygen = No Fire



Seal Bottom Edge



Leave Sealed Cylinder for Two Days



Lifting Cylinder Off Char



The Yield



Crushing Char with Tractor

A close-up, top-down view of a shovel digging into a large pile of dark, granular material. The shovel's metal head is partially buried in the material, and its wooden handle extends downwards. The material has a rough, clumpy texture with some lighter-colored specks. The background is a vast, uniform expanse of the same material, stretching to the edges of the frame.

Crushed Char



Always Wear a Dust Mask



Finished!