

Biochar Kiln Demonstration



Friday March 31, 2023

12:00pm – 3:00pm

Young Public Library

Free and open to the public

An in-person demonstration and discussion to raise awareness about making and using biochar. Weather and fire restrictions permitting.

WORKSHOP GOAL: Raise awareness about biochar and demonstrate biochar production using a flame-cap kiln.

EVENT DESCRIPTION: Biochar are charcoal particles mixed with soil. Participants will learn about building and using a portable flame cap kiln for making biochar. Details such as burn permits, fire safety, water source, and lighting and quenching the fire are discussed. Benefits and challenges of using biochar include: raising awareness about biochar; creating markets; feedstock properties and variability; and matching biochar qualities to specific applications. Uses for biochar include:

- Hazardous fuels reduction in forests and wildland urban interface communities, and yard waste;
- A soil amendment for improving water retention and nutrient availability;
- Contaminant adsorption for dairies, landfills or mining;
- Production of bioenergy fuels including syngas and bio-oil; and
- Direct carbon sequestration: the half-life of a biochar molecule is 1,000 years.

AUDIENCE: Free and open to the public. Hazardous fuel reduction managers and volunteers, gardeners and composters, ranchers, landfill & waste management industry, non-industrial private forest lands, state, county, tribal and federal lands, mining companies, turf industry, sawmills, horticulture and agriculture industry.

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In partnership and with special thanks to:
**Young Public Library and the
Pleasant Valley Fire Department
Young, AZ**