

Slash and/or Biomass Challenges and Opportunities



Oregon Smoke Management Annual Report

2020



"STEWARDSHIP IN FORESTRY"

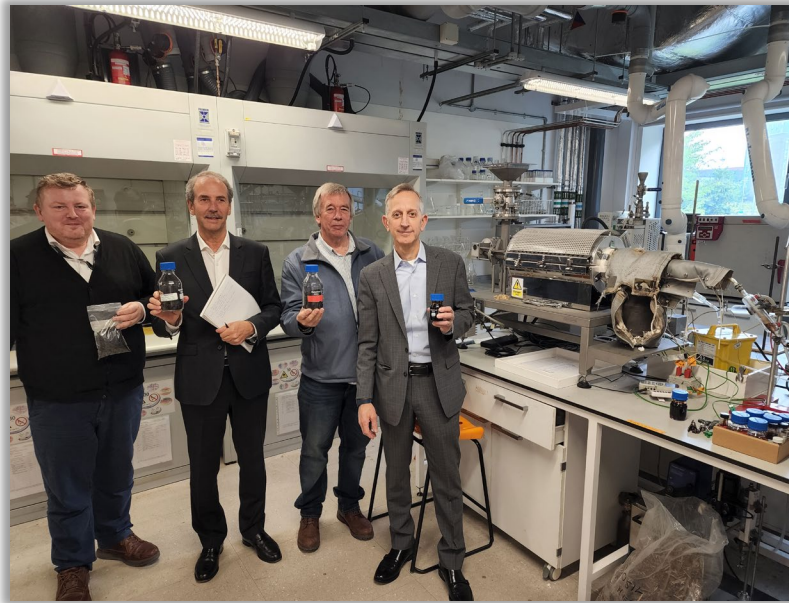
OREGON DEPARTMENT OF FORESTRY
FIRE PROTECTION DIVISION
SMOKE MANAGEMENT AND FUELS

Year	Total No. Units	No. Units Burned	Acres Burned	Tons Burned
2011	3,544	2,880	162,154	1,370,113
2012	3,651	3,092	141,892	1,086,214
2013	3,890	3,104	182,189	1,308,114
2014	4,095	3,492	208,593	1,405,349
2015	3,601	3,101	179,613	1,371,114
2016	3,484	2,928	181,800	1,228,107
2017	3,597	2,868	159,624	1,004,108
2018	4,307	3,388	185,702	1,270,725
2019	3,726	3,319	200,629	1,245,128
2020	3,146	2,287	130,997	863,875
Average	3,704	3,029	173,319	1,215,285

European Union Biofuels Research Lab

Energy and Bioproducts
Research Institute,
Birmingham, UK

Wood Residue (Slash) Biomass Conversion



EBRI Test Lab – Ashton University -
Birmingham, United Kingdom



Com-Kiln Wood Residual Processor



Wood Chips Ready for Processing



Post-Production Green Biocrude

“The Circular Economy”

Wood Residue (slash)
Biomass Conversion



200+ Ton Wood Slash Pile
Ready for Burn

Wood Residue Production Volumes and Values				200 Tons		1,215,285 Tons	
Com-Kiln Off-Take	Practical Use	Per Unit Selling Price	Units	Volume	Gross Revenue	Volume	Gross Revenue
Bio-Crude (Pyrolic Oil)	Oil for Renewable Diesel feedstock	\$2.08	Gallons	16,400	\$34,092	99,653,370	\$207,160,375
2G Biofuel Tax Credit	Oil from Wood Residue (Lignocellulosic)	\$1.01	Gallons	16,400	\$16,564	99,653,370	\$100,649,904
Pyroligneous Acid	Wood vinegar - insecticide & pesticide	\$40.00	Gallons	1,800	\$72,000	10,937,565	\$437,502,600
Biochar	Soil Amendment	\$50.00	Yards	320	\$16,000	1,944,456	\$97,222,800
Gases	Used to power com-kiln gen set	\$0.14	kW	40		243057	
Total Tonnage Gross Revenue					\$138,656		\$842,535,678
CO2e Metric Tons Reduced							-2,200,000
Black Carbon Tons Reduced (PM: > 10, 10 - 2.5, < 2.5)							-35,000