Residential Wood Combustion Summary of Measures (DRAFT)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
2						Fuel Restrictions					Curtailment Programs		Incentive Programs		Other Program Features		Fireplaces					Wood Burning Heaters						Indoor Hydronic Heaters		
3																														
4	Agency	State	Ordinance/ Reg/Rule #	Title	Is Rule SIP-Approved?	Defines seasoned wood with moisture content limit	Requires Sellers to label seasoned wood	Prohibits sale of unseasoned wood	Prohibits use of unseasoned wood	Prohibits burning waste, plastic, paint, etc.	State/local agency prohibits burning when unhealthy ambient levels projected	State/local agency discourages burning when unhealthy ambient levels projected	Tax Incentives to change out high-emitting devices	State/local agency provides funds to change out high-emitting devices	Seller of wood burning devices must provide public awareness Information	20% Opacity (Ringelmann #1) and/or Zero Visible Emission Limit	New Fireplaces must meet Phase 2 qualified emission limits	All fireplaces in new developments must meet EPA-qualified Phase 2 qualified emission limits	Limit # fireplaces/ acre in new developments	Remove/ Replace non-EPA qualified fireplaces upon sale	Remove/ Replace non-EPA qualified fireplaces upon deadline	All new devices must be EPA-Certified	New Stoves go beyond EPA-Certified	Prohibit solid wood burning devices in new construction	Limit # devices/acre in new developments	Remove/replace non-EPA certified devices on upon sale	Remove/replace non-EPA certified devices on deadline	All Newly installed Devices must meet EPA Outdoor Wood-fired Hydronic Heater standards	Limit # device/acre	Restrictions on additional solid fuel burning devices
6	**Region 1**																													
7	State of Connecticut	**CT**								X																				
8	State of Maine	**ME**								X																				
9	State of Massachusetts	**MA**								X				X																
10	State of New Hampshire	**NH**								X				X																
11	State of Rhode Island	**RT**								X																				
12	State of Vermont	**VT**								X																				
13																														
15	**Region 2**																													
16	New York State Department of Environmental Conservation	**NY**	**6 CRR-NY 247**	Outdoor Wood Boilers					X	X				X		X														
17	New York City	**NY**	**NYC AC §24-149.1**	Outdoor Wood Boilers		For fireplaces																								
18	New Jersey Department of Environ	**NJ**	**NJAC 7:27-3**	Control and Prohibition of Smoke from Combustion of Fuel	**Yes**											X														
19																														
20																														
22	**Region 3**																													
23	State of Delaware	**DE**	DE Admin Code 1114	Visible Emissions	**Yes**											X														
24	State of Delaware	**DE**		State of Delaware AQI Website	**No**							X																		
25	District of Columbia	**DC**	Municipal Reg DC Register	open burning ban	**Yes**							X																		
26	State of Maryland	**MD**	COMAR 26.11.07	Open Fires	**Yes, Reg. .01-.05**					X	X																			
27	State of Maryland	**MD**	COMAR 26.11.09.11	Control of Particulate Matter from Small Wood Boilers	**No**																							X		
28	Allegheny County Health Department	**PA**	Article XXI §2105.50	Open Burning	**Yes**	Requires use of clean wood. See "Definitions" below.	No	No	Requires use of clean wood. See "Definitions" below.	Allows only clean wood, natural gas or propane, charcoal, commercially available fire logs, paraffin logs, and wood pellets.	Yes. §2105.50.a.3. prohibits open wood burning on "Air Quality Action Days,"* except for commercial preparation of food.	Yes. See weblink to "Support Information."		N/A. ACHD conducted a Bounty Program for woodstoves and OWB, but it does not apply to open burning. See link below.	No	20% opacity is not a direct requirement of the Open Burning regulation, but Article XXI opacity limit can be invoked as part of nusiance provisions.													
29	Allegheny County Health Department	**PA**	Article XXI §2104.09	Outdoor Wood Fired Boilers	**Yes**	Requires use of clean wood. See Definitions, below.	No	No	Yes. Requires use of clean wood. See Definitions, below.	Allows only clean wood, wood pellets, home heating oil, natural gas or propane.	Yes. Use of OWB is prohibited on "Air Quality Action Days."*	Yes. See weblink to "Support Information."	No	Yes. OWB's were included in the ACHD Bounty Program. See link below.	Yes. Subsection j requires seller to provide buyer with coy of Article XXI, §2104.09.	Yes. 2104.09.i.3 references visible emission limits of 2104.01.a which includes 20% limit.															
30	Commonwealth of Pennsylvania	**PA**	25 PA Code Section 123.14	Outdoor wood-fired Boilers	**Yes**																									
31	State of Virginia	**VA**	2VAC5 - 30	open burning ban	**Yes**																									
32	State of West Virginia	**WV**	Rule 6	open burning ban	**Yes**																									
33																														
35	**Region 4**																													
36	Alabama	**AL**	**None**																											
37	Florida	**FL**	**None**																											
38	Georgia	**GA**	**None**																											
39	Kentucky	**KY**	**None**																											
40	Mississippi	**MS**	**None**																											
41	North Carolina	**NC**	**None**																											
42	South Carolina	**SC**		SC Model Ordinance for Outdoor Hydronic Heaters	**No**					x		x				x	x	x		x						x				
43	Tennessee	**TN**	**None**			+++																								
44						+																								
45																														
47	**Region 5**																													
48	State of Indiana	**IN**	**326 IAC 4-3**	Outdoor Hydronic Heater	**No**																									
49																														
50																														
52	**Region 6**																													
53	Arkansas	**AR**	**None?**																											
54	Louisiana	**LA**	**None?**																											
55	New Mexico	**NM**	**None?**																											
56	Oklahoma	**OK**	**None?**																											
57	Texas	**TX**	**None?**																											
58																														
59																														
61	**Region 7**																													
62	Iowa	**IA**	**None**																											
63	Kansas	**KS**	**None**																											
64	Missouri	**MO**	**None**																											
65	Nebraska	**NE**	**None**																											
67	**Region 8**			Sale and Installation of Wood-Burning Appliances and the use of Certain Wood-Burning Appliances During High Pollution Days																										
68	State of Colorado	**CO**	**Reg. 4**																											
69	*PM_{10} Maintenance Areas*																													
70	Denver Metro	**CO**	PM10 Redesignation Request &I Maintenance Plan	Residential Wood Smoke Reduction Rule																										
71	Aspen	**CO**	PM10 Redesignation Request &I Maintenance Plan	Residential Wood Smoke Reduction Rule																										

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72	Canon City	CO	PM10 Redesignation Request &I Maintenance Plan	Residential Wood Smoke Reduction Rule																										
73	Steamboat Springs	CO	PM10 Redesignation Request &I Maintenance Plan	Residential Wood Smoke Reduction Rule																										
74	Telluride	CO	PM10 Redesignation Request &I Maintenance Plan	Residential Wood Smoke Reduction Rule																										
75	Pagosa Springs	CO	PM10 Redesignation Request &I Maintenance Plan	Residential Wood Smoke Reduction Rule																										
76	Lamar	CO	PM10 Redesignation Request &I Maintenance Plan	Residential Wood Smoke Reduction Rule																										
77																														
78	State of Montana - statewide	MT	None																											
79	Missoula County	MT	PM10 SIP	Residential Wood Smoke Reduction Rule																										
80	Lincoln County	MT		Residential Wood Smoke Reduction Rule																										
81	Flathead County/Columbia Falls/Kalispell PM_{10} NAA	MT		Residential Wood Smoke Reduction Rule																										
82	Sanders County	MT		Residential Wood Smoke Reduction Rule																										
83	Silver Bow County	MT		Residential Wood Smoke Reduction Rule																										
84																														
85	State of North Dakota	ND	None																											
86	State of South Dakota	SD	None																											
87																														
88	State of Utah - statewide	UT		Emission Standards: General Burning																										
89	Davis, Salt Lake, Utah Counties	UT		Residential Fireplaces and Stoves	Final Approved 2006																									
90	Box Elder, Cache, Davis, Salt Lake, Tooele, Utah, Weber Counties	UT		Solid Fuel Burning Devices	Not approved																									
91																														
92	State of Wyoming	WY	None																											
93	Sheridan County PM_{10} NAA	WY																												
94																														
95																														
97	**Region 9**																													
98	State of Arizona Revised Statute	AZ	11-871	Emissions control;no burn;exemptions;penalty.	Yes																									
99	State of Arizona Revised Statute	AZ	11-875	Clean Burning Fireplace Ordinance	No																									
100	Maricopa County	AZ	P-26	Residential Wood burning Restriction	No																									
101																														
102																														
103	Bay Area AQMD	CA	6.3	Wood Burning Devices	No	20%	X		X	X	Nov - Feb when $PM_{2.5}$ levels >35 µg/m3				X	20%	X	X				X								
104	Butte County AQMD	CA	207	Wood Burning Devices	Yes	20%				X					X		X	X				X								
105	Great Basin Unified APCD	CA	431	Particulate Emissions	Yes	20%		X		X	when PM10 levels reach 130 µg/m³	when PM_{10} levels reach 100µg/m³			X	20% or No. 1 on Ringelmann Chart	X	X	1 EPA-certified appliance and 1 pellett fueled wood heater per single family dwelling; no solid fuel burning appliance in new multi-unit residential dev. But can have 1 pellet fueled wood heater per dwelling; no solid fueled burning appliance in commerical dwellings	X	X	X			1 EPA-certified appliance and 1 pellett fueled wood heater per single family dwelling; no solid fuel burning appliance in new multi-unit residential dev. But can have 1 pellet fueled wood heater per dwelling; no solid fueled burning appliance in commerical dwellings	x				
106	Kern County APCD	CA	416.1	Wood Burning Heaters and Wood Burning Fireplaces	Yes																									
107	Mammoth Lakes	CA	8.30	Particulate Emissions Regulations	Yes	20%		X		X	when PM10 levels reach 130 µg/m³	when PM10 levels reach 100 µg/m³			X	20% or No. 1 on Ringelmann Chart	X	X	1 EPA-certified appliance and 1 pellett fueled wood heater per single family dwelling; no solid fuel burning appliance in new multi-unit residential dev. But can have 1 pellet fueled wood heater per dwelling; no solid fueled burning appliance in commerical dwellings	X	X	X			1 EPA-certified appliance and 1 pellett fueled wood heater per single family dwelling; no solid fuel burning appliance in new multi-unit residential dev. But can have 1 pellet fueled wood heater per dwelling; no solid fueled burning appliance in commerical dwellings	X				
108	Placer County APCD	CA	225	Wood Burning Appliances		20%			X	X					X	20% or No.1 on Ringelmann Chart	X	X	Single family dwelling 1 wood burning appliance that meets 7.5 g/m3 of PM per hours for a non-catalytic wood burning appliance.			X			Single family dwelling 1 wood burning appliance that meets 7.5 g/m3 of PM per hours for a non-catalytic wood burning appliance.	X				
109	Sacramento Metropolitan AQMD	CA	417	Wood Burning Appliances	Yes	20%	X			X					X		X	X				X								
110	Sacramento Metropolitan AQMD	CA	421	Mandatory Episodic Curtailment of Wood and Other Solid Fuel Burning	Yes						Nov - Feb Stage 1 - $PM_{2.5}$ level 31-35 µg/m³; Stage 2 - $PM_{2.5}$ level-35 µg/m³	$PM_{2.5}$ level 25-31 µg/m3)																		

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111	San Joaquin Unified AQMD	CA	4901	Wood Burning Fireplaces and Wood Burning Heaters	Yes	20%	X			X	Level 1 Episodic $PM_{2.5}$ 20-65 $\mu g/m^3$			X	X		X		1 fireplace where density is < 2 dwelling units/acre; no fireplaces where density is > than 2 dwelling units/acre			X			2 heaters per dwelling unit with a density equal or less than 2 dwellings/acre;	X				
112	South Coast AQMD	CA	445	Wood Burning Devices	Yes	20%		X		X	Nov-Feb No burn during mandatory curtailment				X		X	X				X								
113																														
114	Yolo-Solano	CA	2.4	Wood Burning Appliances		20%		X		X					X		X	X				X								
115																														
116	State of Hawaii	HI																												
117	State of Nevada	NV																												
118	Washoe County Health District	NV	040.051	Wood Stove/Fireplace Insert Emissions	No	20%	X		X	X	Stage 1 -PM_{10} level reaches 150 $\mu g/m^3$				X	20% or No. 2 on Ringelman Chart		X	Single family dwellings within Wood Stove/Fireplace Control Area with one dwelling/acre - I fireplace; Multi family or Commercial 1/acre			X			Single family dwellings within Wood Stove/Fireplace Control Area with one dwelling/acre - I wood stove;Multi family or commercial - 1 wood stove/acre	X				
119	Washoe County Health District	NV	040.052	Hydronic Heaters		20%			X	X	X					20% or No. 1 on Ringelman Chart														
120																														
121																														
122																														
123																														
124																														
125	Region 10																													
126																														
127	State of Alaska	AK		$PM_{2.5}$ Final Regulations					Dry wood required Oct. 1 - Mar. 31	X					http://burnwise.alaska.gov/	YES - more stringent during air episodes						X								
128	Fairbanks	AK	2015.1					X	Dry Wood Required September 1 - March 31	X	X	X		X	X	X						X	X							
129	State of Idaho	ID								X	http://www.deq.idaho.gov/air-quality/burning/burn-restrictions-and-bans.aspx	X	http://www.legislature.idaho.gov/idstat/Title63/T63CH305SECT63-3022C.htm	Tax break for new wood stoves		X														
130	State of Oregon	OR	340-262-0400	Heat Smart Rule						X	X											X				http://www.oregon.gov/deq/AQ/Pages/HeatSmart/HeatSmart.aspx					
131	Oakridge	OR		http://www.lrapa.org/downloads/publications/Appendix_F1_-_Oakridge_Ordinance.pdf						X	X					X														
132	Lakeview (Page 53)	OR	X	Particulate Matter (PM...) Advance Action Plan							X			X																
133	Klamath County	OR	Chapter 406	Curtailment Ordinance						X	X			X	X	X														
134	Spokane Regional Clean Air Agency Regulation	WA	Reg 1 Article 8	Solid fuel burning device standard		20%			X	X	Same as State of WashingtonRegulation Chapter 173-433 WAC					20%	X	X				X								
135	State of Washington	WA	173-433WAC	Solid fuel burning devices		20%			X	X	http://apps.leg.wa.gov/RCW/default.aspx?cite=70.94.473			X	http://apps.leg.wa.gov/RCW/default.aspx?cite=70.94.483	20%	X	X				X								
136	Puget Sound Clean Air Agency	WA	Article 13	Wood Stove Rule						X	X			X	X	20% or No. 1 on Ringelman Chart	X					X								
137																														