

**Residential Wood Combustion Technology Review
Volume 2. Appendices**

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EPA Purchase Order 7C-R285-NASX

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Prepared for:

U.S. Environmental Protection Agency
Office of Research and Development
Washington, D.C. 20460

Abstract

A review of the current states-of-the-art of residential wood combustion (RWC) was conducted. The key environmental parameter of concern was the air emission of particles. The technological status of all major RWC categories was reviewed. These were cordwood stoves, fireplaces, masonry heaters, pellet stoves, and wood-fired central heating furnaces. Advances in technology achieved since the mid-1980's were the primary focus. These study objectives were accomplished by reviewing the published literature and by interviewing nationally recognized RWC experts.

The key findings of the review included: (1) The NSPS certification procedure only qualitatively predicts the level of emissions from wood heaters under actual use in homes, (2) Wood stove durability varies with model and a method to assess the durability problem is controversial, (3) Nationally the overwhelming majority of RWC air emissions are from non-certified devices (primarily from older non-certified woodstoves), (4) New technology appliances and fuels can reduce emissions significantly, (5) The ISO and EPA NSPS test procedures are quite dissimilar and data generated by the two procedures would not be comparable, and, (6) The effect of wood moisture and wood type on particulate emission appears to be real but to be less than an order of magnitude.

Appendix A

Residential Wood Combustion Literature

The following is a list of references related to residential wood combustion technology and air quality impacts. This list constitutes partial fulfillment (review of published literature) of the *EPA: Residential Wood Combustion Technology Review* project funded by the United States Environmental Protection Agency (US EPA).

The references listed within this document have been grouped into six (6) categories. These categories are:

<u>Category</u>	<u>Title</u>	<u>Page</u>
1.	In-Home Emission Studies	A-1
2.	Laboratory Emission and Engineering Studies	A-8
3.	Wood Use and Energy Surveys	A-23
4.	Ambient Air Quality and Health Studies	A-27
5.	Regulatory Reviews	A-43
6.	General or Unclassified Residential Wood Burning Documents	A-47

The content of some referenced documents may fall into more than one of the six categories. In these cases the category representing the predominant subject matter was selected. All documents are listed only once. Within a category the references are arranged in descending chronological order. References within the same year, under one category, are arranged alphabetically by the first author's last name.

CATEGORY #1 — IN-HOME EMISSION STUDIES

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
1	Correll, Robert; Jaasma, Dennis R.; Mukkamala, Yagna	1997	Field Performance of Woodburning Stoves in Colorado during the 1995-96 Heating Season	Department of Mechanical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA; Prepared for the U. S. Environmental Protection Agency, Office of Research and Development, Air Pollution Prevention and Control Division, National Risk Management Research Laboratory, Research Triangle Park, NC (EPA-600/R-97-112) (NTIS PB98-106487)
2	Jaasma, Dennis R.; Stern, Curtis H.; Champion, Mark	1994	Field Performance of Woodburning Stoves in Crested Butte during the 1991-92 Heating Season	Department of Mechanical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA; Prepared for the U. S. Environmental Protection Agency, Office of Research and Development, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC (EPA-600/R-94-061) (NTIS PB94-161270)
3	Barnett, Stockton G.	1993	Summary Report of the In-Home Emissions and Efficiency Performance of Five Commercially Available Masonry Heaters	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Masonry Heater Association
4	Barnett, Stockton G.	1992	In-Home Evaluation of Emissions from a Grundofen Masonry Heater	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for Mutual Materials Company, Bellevue WA; the Masonry Heater Association; and Dietmeyer, Ward and Stroud
5	Barnett, Stockton G.	1992	In-Home Evaluation of Emissions from a Biofire 4x3 Masonry Heater	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for Biofire, Inc.
6	Barnett, Stockton G.; McCrillis, Robert C.; Crooks, Richard B.	1992	Evaluation of Emissions from Masonry Heaters and Masonry Fireplaces in Homes	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC; and Mutual Materials Company, Bellevue, WA (EPA-600/A-93-059) (NTIS PB93-173078)
7	Barnett, Stockton G.	1992	In-Home Evaluation of Emissions from a Tulikivi KTU 2100 Masonry Heater	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Tulikivi Group

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
8	Barnett, Stockton G.; Bighouse, Roger D.	1992	In-Home Demonstration of the Reduction of Woodstove Emissions from the Use of Densified Logs	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Oregon Department of Energy; and the U.S. Environmental Protection Agency, (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-35836 -1)
9	Crouch, J.; Crank, W.	1992	Update on the Crested Butte Woodstove Experiment	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 680-685 (ISBN 0-923204-09-1)
10	Henry, D.	1992	A Comparison and Analysis of the Field and Laboratory Test Data for the Noncatalytic Stoves in the Klamath Falls Field Performance Study	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 593-600 (ISBN 0-923204-09-1)
11	Osterburg, R.	1992	Modeling the Ambient PM ₁₀ Impact of a Woodstove Replacement Program in Crested Butte, Colorado	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards And Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 686-699 (ISBN 0-923204-09-1)
12	Barnett, Stockton G.	1991	In-Home Evaluation of Emissions from Masonry Fireplaces and Heaters	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Western States Clay Products Association, San Mateo, CA
13	Barnett, Stockton G.	1991	In-Home Fireplace Performance: Comparison of a Conventional Fireplace with a Retrofit Firecrest Masonry Insert in the Zagelow Residence, Vancouver, WA	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Mutual Materials Company, Bellevue, WA
14	Barnett, Stockton G.; Fields, Paula G.	1991	In-Home Performance of Exempt Pellet Stoves in Medford, Oregon	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy; Oregon Department of Energy; Tennessee Valley Authority; and Oregon Department of Environmental Quality, (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-04143-2)

CATEGORY #1 — IN-HOME EMISSION STUDIES

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
15	Barnett, Stockton G.; Houck, James E.; Roholt, Robert B.	1991	In-Home Performance of Pellet Stoves in Medford and Klamath Falls, Oregon	Proceedings of the Air & Waste Management Association 84 th Annual Meeting & Exhibition, Vancouver, BC (91-129.3)
16	Houck, James E.; Barnett, Stockton G.; Roholt, Robert B.	1991	In-Home Performance of Residential Cordwood Stoves	Proceedings of the National Bioenergy Conference, Coeur d'Alene, ID, (91-129.3)
17	Jaasma, Dennis R.; Champion, Mark; Gundappa, Mahesh	1991	Field Performance of Woodburning and Coalburning Appliances in Crested Butte During the 1989-90 Heating Season	Department of Mechanical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA; Prepared for the U.S. Environmental Protection Agency, Office of Research and Development, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC; the Town of Crested Butte, Crested Butte, CO; and Colorado Department of Health, Denver, CO (EPA-600/7-91-005) (NTIS PB91- 106921)
18	Barnet, Stockton G.; Roholt, Robert B.; Houck, James E.	1990	1.Field Performance of Best Existing Stove Technology (BEST) Hybrid Woodstoves in Their Second Year of Use 2.Evaluation of a Modified Evacuation Cylinder Particulate Emissions Sampler (MECS)	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Oregon Department of Environmental Quality, Portland, OR
19	Barnet, Stockton G.; Roholt, Robert B.	1990	In-Home Performance of Certified Pellet Stoves in Medford and Klamath Falls, Oregon	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy; and Oregon Department of Environmental Quality, Portland, OR; (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-04143-1)
20	Barnett, Stockton G.; Fesperman, James	1990	Field Performance of Advanced Technology Woodstoves in Their Second Season of Use in Glens Falls, New York, 1990	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for Canada Center for Mineral and Energy Technology, Energy, Mines, and Resources, Canada, Ottawa, Ontario

CATEGORY #1 — IN-HOME EMISSION STUDIES

A-4

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
21	Barnett, Stockton G.	1990	In-Home Evaluation of Emission Characteristics of EPA-Certified High Technology Non-Catalytic Woodstoves in Klamath Falls, Oregon, 1990 — Final Report	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for Canada Center for Mineral and Energy Technology, Energy, Mines, and Resources, Canada, Ottawa, Ontario
22	Dernbach, Sue	1990	Woodstove Field Performance in Klamath Falls, Oregon	Elements Unlimited, Portland, OR; Prepared for the Wood Heating Alliance, Washington, DC
23	Jaasma, Dennis R.; Champion, Mark; Shelton, Jay W.	1990	Woodstove Smoke and CO Emissions: Comparison of Reference Methods with the VPI Sampler	Journal of the Air & Waste Management Association, Vol. 40, No. 6 pp. 866-871
24	Barnett, Stockton G.	1989/ 1990	Final Report — Field Performance of Advanced Technology Woodstoves in Glens Falls, NY, 1988-89, Volume I; and Technical Appendix, Volume II	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the New York State Energy Research and Development Authority; U.S. Environmental Protection Agency; CONEG Policy Research Center, Inc.; Canadian Combustion Research Laboratory; and Wood Heating Alliance (EPA-600/7-90-019a&b) (NTIS PB91-125641 and -125658)
25	Jaasma, Dennis R.; Champion, Mark	1989	Field Performance of Woodburning Stoves in the 1988-89 Heating Season	Department of Mechanical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA; Prepared for the Town of Crested Butte, Crested Butte, CO; Colorado Department of Health, Denver, CO; and the U.S. Environmental Protection Agency, Region 8, Denver, CO
26	Simons, Carl A.; Jones, Stanton K.	1989	Performance Evaluation of the Best Existing Stove Technology (BEST) Hybrid Woodstove and Catalytic Retrofit Device	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Oregon Department of Environmental Quality, Portland, OR
27	Burnet, Paul G.	1988	Performance of Certified Woodstoves under Field Conditions	Transactions of the APCA/EPA International Specialty Conference, PM ₁₀ Implementation Standards, TR-13, San Francisco, CA; Published by the Air Pollution Control Association, Pittsburgh, PA, pp. 664-672

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
28	Elements Unlimited	1988	In-Situ Emission Factors for Residential Wood Combustion Units	Elements Unlimited; Prepared for the Emissions Standards Division, U.S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, NC (EPA-450/3-88-013)
29	OMNI Environmental Services, Inc.	1988	Final Report — Particulate Emission Test, Emission Control System Inspection and Leak Check of the Blaze King "King" in Home PO2 — Dr. John Rau	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Oregon Department of Environmental Quality, Portland, OR
30	Simons, Carl A.; Christiansen, Paul D.; Houck, James E.; Pritchett, Lyle C.	1988	Woodstove Emission Sampling Methods Comparability Analysis and In-Situ Evaluation of New Technology Woodstoves, Task G — Final Report	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy, Pacific Northwest and Alaska Regional Biomass Energy Program, (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-18508-6)
31	Simons, Carl A.; Christiansen, Paul D.; Pritchett, Lyle C.; Enns, Victor; Hayden, A.C.S.	1988	An In-Situ Residential Performance Evaluation of Conventional and New Woodheat Technologies in Whitehorse, Yukon Territory	Proceedings of the 1988 Air Pollution Control Association Meeting, Dallas, TX (88-89.3)
32	Burnet, Paul G.	1987	Field Investigations of Catalytic and Low Emissions Woodstove Particulate Emissions, Efficiency and Safety	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Pittsburgh, PA, U.S. Environmental Protection Agency, pp. 697-706 (EPA-600/9-87-010) (NTIS PB88-113402)
33	OMNI Environmental Services, Inc.	1987	Final Woodstove and Catalytic Combustion Inspections: NCWS Study Homes	Prepared for the Coalition of Northeastern Governors; New York State Energy Research and Development Authority; and the U.S. Environmental Protection Agency

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
34	OMNI Environmental Services, Inc.	1987	Performance Monitoring of Advanced Technology Wood Stoves: Field Testing for Fuel Savings, Creosote Buildup and Emissions, Volume I; and Technical Appendix, Volume II; also Published as: The Northeast Cooperative Woodstove Study	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for New York State Energy Research and Development Authority; CONEG Policy Research Center, Inc.; and U.S. Environmental Protection Agency, Research Triangle Park, NC (EPA-600/7-87-026a&b) (NTIS PB88-140769 and -140777)
35	OMNI Environmental Services, Inc.	1987	An In-Situ Performance Evaluation of the Catalytic Retrofit Devices	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Oregon Department of Environmental Quality, Portland, OR
36	Simons, Carl A.; Christiansen, Paul D.; Pritchett, Lyle C.; Buyerman, Glenn A.	1987	Whitehorse Efficient Woodheat Demonstration	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the City of Whitehorse, Whitehorse, Yukon
37	Houck, James E.	1986	A System to Obtain Time Integrated Woodstove Emission Samples	Proceedings of the 1986 EPA/APCA Symposium on Measurement of Toxic Pollutants, Raleigh, NC; U.S. Environmental Protection Agency (EPA-600/9-86-013) (NTIS PB87-182713)
38	Morgan, S.	1986	Evaluating the Field Performance of High Efficiency and Catalytic Wood Stoves	Proceedings of the 1986 EPA/APCA Symposium on Measurement of Toxic Pollutants, Raleigh, NC, U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-7, Pittsburgh, PA, pp. 713-723 (EPA-600/9-86-013) (NTIS PB87-182713)
39	Ramdahl, T.; Schjoldager, J.; Currie, L.A.; Hanssen, J.E.; Moller, M.	1984	Ambient Impact of Residential Wood Combustion in Elverum, Norway	The Science of the Total Environment Vol. 36, Elsevier Science Publishers B.V., Amsterdam, pp. 81-90

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
40	Barnett, Stockton G.	1981	Determination of Woodstove Efficiency under In-Home Conditions	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by the Oregon Graduate Center, Beaverton, OR (1982), pp. 996-1037
41	Hornig, James F.; Soderberg, Roger H.; Larson, Deborah	1981	Ambient Air Assessment in a Rural New England Village where Wood is the Dominant Fuel	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, pp. 140-153
42	Sanborn, Cedric R.; Poirot, Richard L.; Heil, Gregory A.; Blanchet, Michael A.	1981	Preliminary Analysis of the Ambient Impacts of Residential Woodburning in Waterbury, Vermont	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, pp. 231-241
43	Modera, M.P.; Sonderegger, R.C.	1980	Determination of In-Situ Performance of Fireplaces	Energy Performance of Buildings Group, Energy & Environment Division, Lawrence Berkeley Laboratory, University of California, Berkeley, CA (LBL-10701; UC-95d; EEB-EPB-80-8)
44	PEDCo — Environmental, Inc.	1977	Source Testing for Fireplaces, Stoves, and Restaurant Grills in Vail, Colorado	PEDCo — Environmental, Inc., Kansas City, MO

CATEGORY #2 — LABORATORY EMISSION AND ENGINEERING STUDIES

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
1	Valenti, Joseph C.; Clayton, Russell K.	1998	Emissions from Outdoor Wood-Burning Residential Hot Water Furnaces	Acurex Environmental Corporation, Prepared for the U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC (EPA-600/R-98-017) (NTIS PB98-131980)
2	Hubbard, A.J.	1995	Hazardous Air Emissions Potential from a Wood-Fired Furnace	Combustion Science and Technology, Vol. 108, pp. 297-309
3	McCrillis, Robert C.	1995	Review and Analysis of Emissions Data for Residential Wood-Fired Central Furnaces	Proceedings of the 88 th Annual Air & Waste Management Association Meeting and Exhibit, San Antonio, TX, U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC (95-RP137.04)
4	Tiegs, Paul E.	1995	Design and Operating Factors which Affect Emissions from Residential Wood-Fired Heaters: Review and Update	Proceedings of the 88 th Annual Air & Waste Management Association Meeting & Exhibition, San Antonio, TX (95-RP-137.02)
5	Bighouse, Roger D.; Barnett, Stockton G.; Houck, James E.; Tiegs, Paul E.	1994	Woodstove Durability Testing Protocol	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U. S. Environmental Protection Agency, Office of Research and Development, Office of Environmental Engineering and Technology Demonstration, Washington, DC (EPA-600/R-94-193) (NTIS PB95-136164)
6	Barnett, Stockton G.; Bighouse, Roger D.; Houck, James E.	1993	Final Report — Manufacturers Seminar on Woodstove Stress Testing	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Coalition of Northeastern Governors, Policy Research Center, Washington, DC; and Pacific Northwest and Alaska Regional Biomass Program, Bonneville Power Administration, U. S. Department of Energy, Portland, OR
7	Bighouse, Roger D.; Houck, James E.; Barnett, Stockton G.; McCrillis, Robert C.	1993	Stress Testing of Woodstoves	Proceedings of the 86 th Annual Air & Waste Management Association Meeting & Exhibition, Denver, CO (93-RP-136.05) (EPA-600/A-93-268) (NTIS PB94-120011)

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8	Bighouse, Roger D.; Houck, James E.	1993	Evaluation of Emissions and Energy Efficiencies of Residential Wood Combustion Devices Using Manufactured Fuels	Science Applications International Corporation, Beaverton, OR; Prepared for the Oregon Department of Energy, Salem, OR
9	Houck, James E.; Bighouse, Roger D.	1993	Reduction in Particulate and Carbon Monoxide Emissions from Fireplace and Woodstoves with the Use of Sawdust/Wax Firelogs	Science Applications International Corporation, Beaverton, OR; Prepared for the Hearth Products Association, Washington, DC; and Firelog Manufacturers Association, c/o Canadian Firelog Ltd., Richmond, B.C., Canada
10	Karlsson, M.	1993	Emissions from Wood-Fired Domestic Central Heating Boilers – Load Dependence, (English Translation of Emissioner från vedpannor – lastföihållandets betydelse)	SP Report – Swedish National Testing Institute (SP), Energy Division, p. 48
11	Karlsson, M.; Gustavsson, L.	1993	Characterization of Combustion Emissions from Wood-Fired Domestic Central Heating Boilers, (English Translation of Karaktärisering avrökgaser från vedpannor),	SP Report – Swedish National Testing Institute (SP), Energy Division, p. 49
12	McCrillis, Robert C.; Watts, Randall R.; Zweidinger, Roy B.	1993	Comparison of Residential Oil Furnace and Woodstove Emissions	Proceedings of the 1993 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Durham, NC; Published by the Air & Waste Management Association, VIP-34, Pittsburgh, PA, pp. 213-220
13	McCrillis, Robert C.; Jaasma, Dennis R.	1993	Woodstove Emission Measurement Methods: Comparison and Emission Factors Update	Environmental Monitoring and Assessment, volume 24, pp. 1-12

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
14	Barnett, Stockton G.	1992	Particulate and Carbon Monoxide Emissions from the Use of Hazelnut Logs in a Conventional Masonry Fireplace	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Hazelnut Growers of Oregon, Cornelius, OR
15	Barnett, Stockton G.	1992	Particulate and Carbon Monoxide Emissions from the Use of Palm Branch Logs in a Conventional Masonry Fireplace	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for Clean Burning Fuels, Inc., Tucson, AZ
16	Champion Mark; et al.	1992	Fireplace Smoke and CO Emissions: Comparison of a Field Sampler with Reference Methods	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 536-552 (ISBN 0-923204-09-1)
A-10 17	Nielson, P.A.; Joergensen, V.	1992	Mutagenic Activity in Samples of Emissions from Straw Combustion and Wood Chip Combustion, (English translation of Mutagen aktivitet i prøver af røggas fra halm – g flisfry)	The Danish National Food Regulatory Administration (Levnedsmiddelstyrelsen) Report NEI-DE-744
18	Shelton, Jay W.	1992	Testing of Sawdust-Wax Firelogs in an Open Fireplace	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 553-571 (ISBN 0-923204-09-1)
19	Stroud, T.	1992	Thermal Mass Solid Fuel Technology as a Low-Emission Residential Energy Option	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 572-584 (ISBN 0-923204-09-1)
20	Anonymous	1991	WHA Fireplace Emissions Test Method Procedures	No Publication Information Listed

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
21	Hayden, A.C.S.; Braaten, R.W.	1991	Reduction of Fireplace and Woodstove Pollutant Emissions through the Use of Manufactured Firelogs	Proceedings of the 84 th Annual Air & Waste Management Association Meeting & Exhibition, Vancouver, B.C.
22	Stern, Curtis H.; Jaasma, Dennis R.	1991	Study of Emissions from Masonry Fireplaces — Final Report	Department of Mechanical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA; Prepared for the Brick Institute of America, Reston, VA
23	anonymous	1990	Continuation of the Design of a 12-Hour Catalytic Furnace	Department of Energy, Mines and Resources, Canada (Contract No. 23216-8-90005/01-SZ)
24	Burnet, Paul G; Houck, James E.; Roholt, Robert B.	1990	Effects of Appliance Type and Operating Variables on Woodstove Emissions, Volume I — Report and Appendices A-C, Volume II — Appendices D-F	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC (EPA-600/2-90-001a&b) (NTIS PB90-151457 and -151465)
25	Karlsson, M.	1990	Emissions from Small Scale Wood Burning – Comparison of Test Methods, (English translation of Emissioner vid småklig vedeldning – jämförelse av provningsmetoder)	Swedish Energy Agency (Statens energiverk) (FBT 90/3, Project Number 276 359)
26	Shelton, Jay W.; Sorensen, Doug; Stern, Curtis H.; Jaasma, Dennis R.	1990	Fireplace Emissions Test Method Development	Shelton Research Inc., Santa Fe, NM; and the Department of Mechanical Engineering, Virginia Polytechnic Institute & State University, Blacksburg, VA; Prepared for the Wood Heating Alliance, Washington, DC, Fireplace Emissions Research Coalition
27	Stern, Curtis H.; Jaasma, Dennis R.; Shelton, Jay W.	1990	Final Report on the Masonry Heater Emissions Test Method Development	Department of Mechanical Engineering, Virginia Polytechnic Institute & State University, Blacksburg, VA; and Shelton Research, Inc., Sante Fe, NM; Prepared for the Wood Heating Alliance, Fireplace Emissions Research Coalition
28	Bushnell, Dwight J.; Haluzok, Charles; Dadkhah-Nikoo, Abbas	1989	Biomass Fuel Characterization: Testing and Evaluating the Combustion Characteristics of Selected Biomass Fuel — Final Report	Department of Mechanical Engineering, Oregon State University, Corvallis, OR; Prepared for the Bonneville Power Administration, Portland, OR (DOE/BP-1363)

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29	Leese, K.E.; Harkins, S.M.	1989	Effects of Burn Rate, Wood Species, Moisture Content and Weight of Wood Loaded on Woodstove Emissions	Research Triangle Institute, Research Triangle Park, NC; Prepared for the U.S. Environmental Protection Agency, Office of Research and Development, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC (EPA-600/2-89/025) (NTIS PB89-196828)
30	Burnet, Paul G.; Simons, Carl A.	1988	Identification of Factors which Affect Combustion Efficiency and Environmental Impacts from Woodstoves, Task D — Final Report	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy, Pacific Northwest and Alaska Regional Biomass Energy Program, (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-18508-4)
31	Hayden, A.C.S.; Braaten, R.W.	1988	Techniques to Reduce the Emissions from Existing Woodburning Appliances	Proceedings of the 1988 Air Pollution Control Association Meeting, Dallas, TX (88-89.1)
32	McCrillis, Robert C.	1988	Effects of Operating Variables on Emissions from Woodstoves	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 835-840 (EPA-600/9-88-015) (NTIS PB90-225863)
33	OMNI Environmental Services, Inc.	1988	Environmental Impacts of Advanced Biomass Combustion Systems — Final Report	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy, Pacific Northwest and Alaska Regional Biomass Energy Program, (Administered by Bonneville Power Administration, Portland, OR)
34	Aiken, M.	1987	Canadian Firelog Ltd. Emission Testing	Air Program, B.C. Research, Vancouver, B.C.; Prepared for Canadian Firelog Ltd., Richmond, B.C.
35	Merrill, Raymond G.; Harris, D. Bruce	1987	Field and Laboratory Evaluation of a Woodstove Dilution Sampling System	U.S. Environmental Protection Agency, Air and Energy Research Laboratory, Research Triangle Park, NC (EPA-600/D-87-216) (NTIS PB87-210381)
36	Shelton, Jay W.; Gay, Larry	1987	Colorado Fireplace Report	Shelton Research, Inc., Sante Fe, NM; Prepared for the Colorado Air Pollution Control Division, Denver, CO

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
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38	Swinton, Michael C.	1987	Residential Combustion Venting Failure a Systems Approach — Final Report — Project 2 — Modifications And Refinements To The Flue Simulator Model	Scandia Consultants Limited, Scandia Sheltair Consortium; Prepared for the Research Division, Policy Development and Research Sector, Canada Mortgage and Housing Corporation
39	Burnet, Paul G.; Edmisten, Norman G.; Tiegs, Paul E.; Houck, James E.; Yoder, Rachel A.	1986	Particulate, Carbon Monoxide, and Acid Emission Factors for Residential Wood Burning Stoves	Journal of the Air Pollution Control Association, Vol. 36, No. 9, pp. 1012-1018
40	Cottone, Lawrence E.; Messer, Edward	1986	Test Method Evaluation and Emission Testing for Rating Wood Stoves	U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC (EPA-600/2-86-100) (NTIS PB87-119897)
41	McCrillis, Robert C.; Merrill, Raymond G.; Westlin, P.R.; Weant, G.E.; Wagoner, D.E.	1986	Comparisons Between MM5, OM7, and Draft ASTM Measurements of Wood Stove Emissions	Proceedings of the 1986 Air Pollution Control Association Annual Meeting (86-74.8) EPA-600/D-86-150) (NTIS PB86-223096)
42	Shelton, Jay W.; Gay, Larry	1986	Evaluation of Low-Emission Wood Stoves — Final Report	Shelton Research, Inc., Sante Fe, NM; Prepared for the California Air Resources Board, Sacramento, CA
43	Tiegs, Paul E.; Burnet, Paul G.	1986	Improving Flue Loss Methods for Measuring Wood Heater Thermal Performance	OMNI Environmental Services, Inc., Beaverton, OR
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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
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46	Energy Task Force of the Urban Consortium for Technology Initiatives	1985	Residential Space Heating with Wood: Efficiency and Environmental Performance	Energy Task Force of the Urban Consortium for Technology Initiatives, Environmental Health and Energy Department, Energy Management Division, Albuquerque, NM
47	McCrillis, Robert C.; Merrill, Raymond G.	1985	Emission Control Effectiveness of a Woodstove Catalyst and Emission Measurement Methods Comparison	Proceedings of the 78 th Annual Meeting of the Air Pollution Control Association, Detroit, MI (EPA-600/D-85-132) (NTIS PB85-218816)
48	OMNI Environmental Services, Inc.	1985	Standard Test Method for Determining the Heat Output Range and Maximum Burn Cycle Duration	OMNI Environmental Services, Inc., Beaverton, OR
49	Shelton, Jay W.; Jaasma, Dennis R.	1985	Critical Assessment of Various Flue Loss Methods for Solid Fuel Heater Efficiency Measurement	Shelton Energy Research, Santa Fe, NM; Presented at the 1985 Annual Meeting of the American Society of Heating, Refrigerating & Air Conditioning Engineers
50	Shelton, Jay W.	1985	ASTM Emissions and Efficiency Tests on Four Stoves	Shelton Energy Research, Santa Fe, NM; Prepared for the Wood Heating Alliance, Washington, DC
51	Shelton, Jay W.	1985	Overview of Efficiency Measuring Methods	Shelton Energy Research, Santa Fe, NM
52	Shelton, Jay W.	1985	Wood Stove Particulate Matter Test Methods and Emissions Factors	Shelton Energy Research Report No. 1185, Santa Fe, NM; Prepared for the Colorado Department of Health, Air Pollution Control Division, Stationary Sources Program
53	Shelton, Jay W.; Barczys, C.	1985	Creosote — The Truth about Green Wood	Shelton Energy Research, Santa Fe, NM

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55	Allen, John M.; Piispanen, William H.; Cooke, Marcus	1984	Study of the Effectiveness of a Catalytic Combustion Device on a Wood Burning Appliance	Battelle — Columbus Laboratories, Columbus, OH; Prepared for the U.S. Environmental Protection Agency, Office of Research and Development, Industrial Environmental Research Laboratory, Research Triangle Park, NC (EPA-600/7-84-046) (NTIS PB84-171545)
56	Lipari, Frank; Dasch, Jean M.; Scruggs, William F.	1984	Aldehyde Emissions from Wood-Burning Fireplaces	Environmental Science & Technology, Vol. 18, No. 5, pp. 326-330
57	Shelton, Jay W.; Graeser, L.; Jaasma, Dennis R.	1984	Sensitivity Study of Traditional Flue Loss Methods for Determining Efficiencies of Solid Fuel Heaters	Shelton Energy Research, Santa Fe, NM; Presented at the 1984 Annual Meeting of the American Society of Mechanical Engineers
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61	Tennessee Valley Authority	1983	Residential Wood Heater Test Report — Phase II Testing, Volume I	Tennessee Valley Authority, Division of Energy Conservation and Rates, Energy Use Test Staff, Chattanooga, TN
62	Barnett, Stockton G.	1982	Woodstove Design and Control Mode as Determinants of Efficiency, Creosote Accumulation, and Condensable Particulate Emissions	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, the Air Pollution Control Association, Louisville, KY, pp. 70-88

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
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65	Jaasma, Dennis R.	1982	Measurement Techniques and Emission Factors for Hand-Fired Coalstoves	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, the Air Pollution Control Association, Louisville, KY, pp. 129-150
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68	Sanborn, Cedric R.	1982	Characterization of Emissions from Residential Coal Stoves	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, the Air Pollution Control Association, Louisville, KY, pp. 151-160
69	Shelton, Jay W.; McGrath, J.; Lewis, C.	1982	Relative Creosote Accumulation in Double-Wall Mass-Insulated Chimneys vs. Triple-Wall Air-Insulated Chimneys	Shelton Energy Research, Santa Fe, NM
70	Shelton, Jay W.; Graeser, L.	1982	An Investigation of the Effects of Ambient Temperature and Forced Convection on Radiant Stove Efficiency	Shelton Energy Research, Santa Fe, NM; Prepared for the Wood Heating Alliance, Washington, DC; and Brookhaven National Laboratory, Upton, NY
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73	Truesdale, Robert S.	1982	Residential Stove Emissions from Coal and Other Alternative Fuels Combustion	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, Air Pollution Control Association, Louisville, KY, pp. 115-128
74	Allen, John M.; Cooke, W. Marcus	1981	Control of Emissions from Residential Wood Burning by Combustion Modification	Battelle — Columbus Laboratories, Columbus, OH; and the U.S. Environmental Protection Agency, Office of Research and Development, Industrial Environmental Research Laboratory, Research Triangle Park, NC (EPA-600/7-81-091) (NTIS PB81-217655)
75	Allen, John M.	1981	Control of Emissions from Residential Wood Burning by Combustion Modification	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, pp. 167-190
76	Barnett, Stockton G.	1981	The Effects of Woodstove Design on Condensable Particulate Emissions, In-Home Delivered Efficiency, and Creosote Formation Rate	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, pp. 268-269
77	Barnett, Stockton G.; Shea, Damian	1981	Effects of Woodstove Design and Operation on Condensable Particulate Emissions	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 227-266
78	Brandon, Robert J.	1981	Residential Wood Fired Furnaces: Results from a Demonstration of Advanced Designs	Proceedings of Energy from Biomass and Wastes V, Institute of Gas Technology, Chicago, IL
79	Brandon, Robert J.; Murray, D.	1981	Pellet Wood Stokers Evaluation and Testing of Available Systems	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 941-965
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85	Hall, Robert E.	1981	Emissions Assessment of a Standard Wood Stove Comparing Stack versus Dilution Tunnel Sampling	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, p. 270
86	Harper, Jerome P.; Knight, C.V.	1981	Measurement of Wood Heater Thermal and Emissions Performance	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 210-226
87	Hubble, B.R.; Harkness, J.B.L.	1981	Results of Laboratory Tests on Wood Stove Efficiency and Emissions	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, p. 277

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89	Hughes, Thomas W.; DeAngelis, Darryl G.	1981	Emissions from Coal-Fired Residential Combustion Equipment	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 333-348
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91	Jaasma, Dennis R.	1981	Measurements of Chemical Changes Due to Catalysis of Woodstove Effluent	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, pp. 221-230
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99	Roberts, John; Austin, Fred; Rossano, A.T.; Willenberg, Jay	1981	Measuring and Improving the Efficiency of Large Wood-Fired Furnaces — Impact on Emissions and Fuel Use	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1089-1116
100	Rudling, Lars; Bengt, Ahlingt; Lofröth, Goran	1981	Chemical and Biological Characterization of Emissions from Combustion of Wood and Wood-Chips in Small Furnaces and Stoves	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 34-53
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104	Shelton, Jay W.; McGrath, Jane	1981	The Effects of Fuel Moisture Content, Species and Power Output on Creosote Formation	Shelton Energy Research, Santa Fe, NM
105	Shelton, Jay W.; Alfano, Joseph; Buchen, Anthony	1981	The Effects of Creosote on Stovepipe Heat Transfer	Shelton Energy Research, Santa Fe, NM
106	Shelton, Jay W.	1981	Results of the Research on Catalytic Combustion on Wood Stoves	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, p. 278
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108	Shelton, Jay W.; Barczys, Cathleen	1981	Dilution Air for Reducing Creosote	Shelton Energy Research, Santa Fe, NM
109	Short, C.A.	1981	Home Heating with Wood Chips	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 966-983
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114	DeAngelis, D.G.; Ruffin, D.S.; Reznik, R.B.	1980	Preliminary Characterization of Emissions from Wood-Fired Residential Combustion	Monsanto Research Corporation, Dayton, OH; Prepared for the U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC (EPA-600/7-80-040) (NTIS PB80-182066)
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116	Butcher, Samuel S.; Sorenson, Edmund M.	1979	A Study of Wood Stove Particulate Emissions	Journal of the Air Pollution Control Association, Vol. 29, No. 7, pp. 724-728
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CATEGORY #3 — WOOD USE AND ENERGY SURVEYS

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
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2	Energy Information Administration	1995	Housing Energy Consumption and Expenditures 1993	Energy Information Administration, Office of Energy Markets and End Use, Washington, DC (DOE/EIA-0321(93))
3	Energy Information Administration	1995	State Energy Data Report 1993 — Consumption Estimates	Energy Information Administration, Office of Energy Markets and End Use, Washington, DC (DOE/EIA-0214(93))
4	Energy Information Administration	1994	Estimates of U.S. Biofuels Consumption 1992	Energy Information Administration, Office of Energy Markets and End Use, Washington, DC (DOE/EIA-0548(92))
5	Oregon Department of Environmental Quality	1994	Portland — 1993 Oregon Woodheating Survey, Overview Report	Oregon Department of Environmental Quality, Air Quality Division, Portland, OR
6	Sifford, Alex	1994	Residential Biofuel Marketing & Delivery Method Study	Oregon Department of Energy, Salem, OR
7	Energy Information Administration	1993	Housing Energy Consumption and Expenditures 1990; Supplement: Regional	Energy Information Administration, Office of Energy Markets and End Use, Washington, DC (DOE/EIA-0321(90)/S)
8	Energy Information Administration	1993	Housing Energy Consumption and Expenditures 1990	Energy Information Administration, Office of Energy Markets and End Use, Washington, DC (DOE/EIA-0321(90))
9	OMNI Environmental Services, Inc.	1992	Study of Firewood Sources and Costs in Klamath Falls, Oregon and Sandpoint, Idaho	OMNI Environmental Services, Inc. Beaverton, OR; Prepared for the Air & Waste Management Association, Pacific Northwest International Section (PNWIS), Bellevue, WA
10	Energy Information Administration	1991	Estimates of U.S. Biofuels Consumption 1990	Energy Information Administration, Office of Energy Markets and End Use, Washington, DC (DOE/EIA-0548(90))
11	ES Field Services, Inc.	1991	Pocatello Air Quality RWC Device Usage, Survey Results	ES Field Services, Inc.; Prepared for Marketing Research, Boise, ID
12	Kelly, Lou Ellyn; Park, Y.M.	1991	Klamath Falls Wood Heating Survey, 1991	Klamath County Department of Health Services, Klamath Falls, OR; Oregon Department of Environmental Quality, Air Quality Division, Portland, OR

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14	Zamula, William W.	1989	Directorate for Economic Analysis — Room Heating Equipment Exposure Survey — Final Report	U.S. Consumer Product Safety Commission, Washington, DC
15	Greene, William T.; Simons, Carl A.	1988	Estimating the Volume of Residential Wood Burning in the Pacific Northwest and Alaska, Task C — Final Report	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy, Pacific Northwest and Alaska Regional Biomass Energy Program, (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-18508-3)
16	Armitage, Sarah V.	1987	Report on the 1987 Klamath Falls Area Wood Heating Survey	Oregon Department of Environmental Quality, Air Quality Division, Program Planning and Development, OR, Section Report No. 87-11
A-24 17	Steffel, Richard	1986	1986 Missoula Wood-Use Survey — Residential Wood Burning and Pollutant Emissions	Eco-Resource Systems, Missoula, MT; Prepared for the Missoula City-County Health Department, Missoula, MT
18	Cote, William A.; Kaleel, Robert J.	1985	A Survey of Residential Combustion of Wood and Coal in Colorado	TRC Environmental Consultants, Inc. Englewood, CO; Prepared for the U.S. Environmental Protection Agency, Region VIII, Air Programs Branch, Air and Hazardous Materials Division, Denver, CO; and Colorado Department of Health, Air Pollution Control Division, Denver, CO
19	Force, Jo Ellen	1985	Evaluation of Residential Wood Energy Use in Idaho — Final Report	Department of Forest Resources, University of Idaho, Moscow, ID; Prepared for the Idaho Department of Water Resources, Boise, ID
20	Hayden, A.C.S.; Braaten, R.W.	1985	Wood Stove Operation and Advanced Design to Reduce Emissions of Incomplete Combustion Products	Canadian Combustion Research Laboratory, ERL/CANMET, Energy, Mines & Resources Canada, Ottawa, Canada; Prepared for the Northeast Regional Air Pollution Conference, Amherst, MA
21	Oregon Department of Environmental Quality	1985	Medford Area Wood Heating Survey	Oregon Department of Environmental Quality, Air Quality Division, Portland, OR

CATEGORY #3 — WOOD USE AND ENERGY SURVEYS

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
22	Church, Scott; Steffel, Richard; Vallie, Robin; Grenfell, Judy	1984	1983 Wood-Cutting Permit Survey, A Study of Firewood Collection and Storage Patterns among Wood Burners in Missoula, Montana	Environmental Health Division, Missoula City-County Health Department, Missoula, MT
23	Church, Scott; Steffel, Richard; Vallie, Robin	1984	1983 Wood-Cutting Permit Survey	Missoula City-County Health Department, Missoula, MT
24	Energy Information Administration	1984	Estimates of U.S. Wood Energy Consumption 1980-1983	Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy, Washington, DC (DOE/EIA-0341(83))
25	Lippert, Frederick W.; Dungan, Jennifer L.	1983	Residential Firewood Use in the U.S.	Science, Vol. 219, pp. 1425-1427
26	Skog, Kenneth E.; Watterson, Irene A.	1983	Survey Completion Report — Residential Fuelwood Use in the U.S.: 1980-81	U.S. Department of Agriculture; U.S. Forest Service, Forest Products Laboratory, Madison, WI
A-25 27	Martin, Werner; Koenigshofer, Daniel R.	1982	Survey and Analysis of Current European Technologies for Wood Combustion	Integrated Energy Systems, Inc., Chapel Hill, NC; Prepared for the U.S. Environmental Protection Agency, Industrial Environmental Research Laboratory, Research Triangle Park, NC (EPA-600/7-83-006) (NTIS PB83-156729)
28	Simmons Market Research Bureau, Inc.	1982 - present	Simmons Study of Media & Markets	Simmons Market Research Bureau, Inc.
29	Butcher, Thomas A.; Isler, Robert J.	1981	Coal-Oil Mixtures — An Alternative Fuel for the Commercial Markets and Large Residential Markets	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 706-728
30	High, Colin	1981	The Wood Resource and Its Use for Energy in the U.S.	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 670-679

CATEGORY #3 — WOOD USE AND ENERGY SURVEYS

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
31	Petty, P.; Hopp, W.; Chockie, A.	1981	Biomass Energy Utilization in the Pacific Northwest: Impacts Associated with Residential Use of Solid Fuels	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 680-705
32	Strehler, Arno	1981	Energy from Straw and Woodwaste	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 729-745
33	Wainwright, Phyllis Brooks	1981	Wood Energy — The North Carolina Effort	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, pp. 260-265
34	Mediamark Research Inc.	1979 - present	Mediamark Research Household & Personal Appliances, Etc. — Report	Mediamark Research Inc.
35	Bernergård, Leif	Undated	Small-Scale Solid Fuel Combustion in Sweden	National Environmental Protection Board, Solna, Sweden

CATEGORY #4 — AMBIENT AIR QUALITY AND HEALTH STUDIES

A-27

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
1	Houck, James E.	1993	Atmospheric Emissions of Carbon Dioxide, Carbon Monoxide, Methane, Non-Methane Hydrocarbons, and Sub-Micron Elemental Carbon Particles from Residential Wood Combustion	Proceedings of the 86 th Annual Air & Waste Management Association Meeting & Exhibition, Denver, CO (93-RP136.01)
2	Klinedinst, Donna B.; Klouda, George A.; Currie, Lloyd A.; et al.	1993	Radiocarbon Measurements of Extractable Organic Matter from the Integrated Air Cancer Project Study in Roanoke, VA	Proceedings of the 1993 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Durham, NC; Published by Air & Waste Management Association, VIP-34, Pittsburgh, PA, pp. 197-206
3	Lewis, Charles W.; Zweidinger, Roy B.; Claxton, Larry D.; et al.	1993	Source Apportionment of Fine Particle Organics and Mutagenicity in Wintertime, Roanoke	Proceedings of the 1993 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Durham, NC; Published by Air & Waste Management Association, VIP-34, Pittsburgh, PA, pp. 207-212
4	Lewtas, Joellen	1993	Complex Mixtures of Air Pollutants: Characterizing the Cancer Risk of Polycyclic Organic Matter	Environmental Health Perspectives, Vol. 100, pp. 211-218
5	Lewtas, Joellen; Walsh, D.B.; Lewis, C.W.; et al.	1993	The Integrated Air Cancer Project: Overview of Roanoke Study and Comparison to Boise Study	Proceedings of the 1993 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Durham, NC; Published by Air & Waste Management Association, VIP-34, Pittsburgh, PA, pp. 175-184
6	Stevens, R.K.; Hoffman, A.J.; Baugh, J.D.; et al.	1993	A Comparison of Air Quality Measurements in Roanoke, VA, and Other Integrated Air Cancer Project Monitoring Locations	Proceedings of the 1993 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Durham, NC; Published by Air & Waste Management Association, VIP-34, Pittsburgh, PA, pp. 185-189
7	McCrillis, Robert C.; Watts, Randall R.; Warren, Sarah H.	1992	Effects of Operating Variables on PAH Emissions and Mutagenicity of Emissions from Woodstoves	Journal of Air & Waste Management Association, Vol. 42, No. 5, pp. 691-694 (EPA-600/J-92-226) (NTIS PB92-195809)

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
8	Steiber, Raymond S.; McCrillis, Robert C.; Dorsey, James A.; Merrill, Raymond G.	1992	Characterization of Condensable and Semivolatile Organic Materials from Boise Woodstove Samples	Proceedings of the 85 th Annual Air & Waste Management Association Meeting & Exhibition, Kansas City, MO (92-118.03) (EPA-600/A-92-160) (NTIS PB92-206606)
9	Lewis, Charles W.; Stevens, Robert K.; Claxton, Larry D.; Barraclough, Donna; Klouda, George A.	1991	Source Apportionment of Mutagenic Activity of Fine Particle Organics in Boise, Idaho	Proceedings of the 84 th Annual Air & Waste Management Association Meeting & Exhibit (91-131.3)
10	Steiber, Raymond S.; McCrillis, Robert C.	1991	Comparison of Emissions and Organic Fingerprints from Combustion of Oil and Wood	Proceedings of the 84 th Annual Air & Waste Management Association Meeting & Exhibition, Vancouver, BC, pp. 2-10 (91-136.2) (EPA-600/D-91- 152) (NTIS PB91-223222)
11	Anderson, Norman	1989	Final Report — Risk Assessment Document for Residential Wood Combustion Emissions	Environmental Toxicology Program, Environmental Health Unit, Division of Disease Control, Bureau of Health, ME (Appropriation #1310-1012)
12	Rau, John A.	1989	Tracers of Pollution from Wood Burning and Receptor Modeling	Transactions of the International Specialty Conference, Receptor Models in Air Resources Management, San Francisco, CA; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 353-366 (ISBN 0-923204-01-6)
13	Rau, John A.	1989	Do Residential Wood Smoke Particles Lose Organic Carbon during Their Atmospheric Residence Time? — A Receptor Modeling Study	Proceedings of the 82 nd Annual Air & Waste Management Association Meeting & Exhibition, Denver, CO (89-145.5)
14	U.S. Government Interagency Program's Pacific Northwest and Alaska Regional Bioenergy Program	1989	Environmental Impact of Wood Combustion in Residential Woodstoves	Woodstove Research Summaries, U.S. Government Interagency Program's Pacific Northwest and Alaska Regional Bioenergy Program Yearbook, pp. 25-30 (DOE/BP-1179)

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15	U.S. Government Interagency Program's Pacific Northwest and Alaska Regional Bioenergy Program	1989	Environmental Impact of Advanced Biomass Combustion Systems	Woodstove Research Summaries, U.S. Government Interagency Program's Pacific Northwest and Alaska Regional Bioenergy Program Yearbook, pp. 30-32 (DOE/BP-1179)
16	Wolgammott, D. Mitch; Erickson, Spencer L.	1989	Carbon Monoxide in a Wood Burning Community	Proceedings of the 26 th Annual Air & Waste Management Association, Pacific Northwest International Section Meeting & Exhibition, Spokane, WA
17	Burton, Robert M.	1988	Final Design and Field Evaluation of the High Volume PM _{2,5} Virtual Impactor	Proceedings of the 1988 EPA/APCA Symposium on: Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 890-895 (EPA-600/9-88-015) (NTIS PB90-225863)
A-29 18	Cupitt, Larry T.	1988	Transformation of Boise Sources: The Production and Distribution of Mutagenic Compounds in Wood Smoke and Auto Exhaust	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 885-889 (EPA-600/9-88-015) (NTIS PB90-225863)
19	Cupitt, Larry T.	1988	The Integrated Air Cancer Project: Overview and Boise Survey Results	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 799-803 (EPA-600/9-88-015) (NTIS PB90-225863)
20	Currie, L.A.	1988	What Should We Measure? Aerosol Data: Past and Future	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 853-863 (EPA-600/9-88-015) (NTIS PB90-225863)

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
21	Hawthorne, Steven B.	1988	Methoxylated Phenols as Candidate Tracers for Atmospheric Wood Smoke Pollution	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 57-62 (EPA-600/9-88-015) (NTIS PB90-225863)
22	Highsmith, V. Ross	1988	Impact of Residential Wood Combustion and Automotive Emissions on the Boise, Idaho Airshed	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 841-852 (EPA-600/9-88-015) (NTIS PB90-225863)
23	Houck, James E.; Simons, Carl A.; Pritchett, Lyle C.	1988	Estimating Carbon Monoxide Air Quality Impacts from Woodstoves, Task A — Final Report	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy, Pacific Northwest and Alaska Regional Biomass Energy Program, (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-18508-2)
A-30 24	Lewis, Charles W.; Baumgardner, Ralph E.; Stevens, Robert K.; Claxton, Larry D.; Lewtas, Joellen	1988	The Contribution of Woodsmoke and Motor Vehicle Emissions to Ambient Aerosol Mutagenicity	Environmental Science and Technology, Vol. 22, No. 8, p. 968
25	Lewis, Charles W.	1988	Sources of Fine Particle Organic Matter in Boise	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 864-869 (EPA-600/9-88-015) (NTIS PB90-225863)
26	McMullen, Roy G.; Evans, Dallas E.	1988	Fireplaces and Carbon Monoxide Levels in Houston, Texas during Exceedances of the 8-Hour Average Carbon Monoxide Standard 1983 through 1986	Proceedings of the 81 st Annual Air and Pollution Control Association Meeting, Dallas, TX

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
27	Merrill, Raymond G., Jr.	1988	Semivolatile and Condensable Extractable Organic Materials Distribution in Ambient Air and Woodstove Emissions	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 821-827 (EPA-600/9-88-015) (NTIS PB90-225863)
28	Steiber, R.S.	1988	GC/MS Analysis of Woodstove Emissions and Ambient Samples from a Wood Smoke Impacted Area	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 828-834 (EPA-600/9-88-015) (NTIS PB90-225863)
29	Stevens, R.K.	1988	Annular Denuder Results from Boise, ID	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 870-878 (EPA-600/9-88-015) (NTIS PB90-225863)
A-31 30	Watts, R.	1988	Mutagenicity of Organics Associated with PM _{2.5} and PM ₁₀ HiVol Particles from a Wood Smoke Impacted Residential Area	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 879-884 (EPA-600/9-88-015) (NTIS PB90-225863)
31	Zweidinger, Roy	1988	Distribution of Volatile Organic Hydrocarbons and Aldehydes during the IACP Boise, Idaho Residential Study	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 814-820 (EPA-600/9-88-015) (NTIS PB90-225863)
32	Bell, Douglas A.	1987	Non-Aqueous Ion Exchange Chromatography as a Preparative Fractionation Method for Short Term Bioassay Analysis of Wood Smoke Extracts	Proceedings of the 1987 EPA/APCA Symposium: Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 677-684 (EPA-600/9-87-010) (NTIS PB88-113402)

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
33	Braaten, R.W.	1987	Effects of Retrofit to Reduce Emissions from Existing Wood Stoves	Proceedings of the 1987 EPA/APCA Symposium: Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 685-690 (EPA-600/9-87-010) (NTIS PB88-113402)
34	Claxton, Larry D.	1987	The Mutagenicity of Ambient and Source Samples from Woodsmoke Impacted Air Sheds	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 591-596 (EPA-600/9-87-010) (NTIS PB88-113402)
35	Cupitt, Larry T.	1987	IACP Emission: Transformations and Fate	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 597-604 (EPA-600/9-87-010) (NTIS PB88-113402)
36	Greene, William T.; Freeburn, Scott A.	1987	Preliminary Health Effects Evaluation for Pollutants Generated by Field Burning, Slash Burning, and Residential Wood Combustion	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Oregon Department of Environmental Quality, Eugene, OR
37	Highsmith, V. Ross	1987	The Collection of Neighborhood Air Samples Impacted by Residential Wood Combustion in Raleigh, NC and Albuquerque, NM	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 562-572 (EPA-600/9-87-010) (NTIS PB88-113402)
38	Houck, James E.	1987	The Contribution of Residential Wood Combustion of Respirable and Inhalable Particulate Concentrations in Missoula, Montana	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 691-696 (EPA-600/9-87-010) (NTIS PB88-113402)
39	Khalil, M.A.K.; Rasmussen, R.A.; Rau, John A.	1987	Air Pollution from Residential Wood Burning: A Case Study in Olympia, WA	Proceedings of the 80 th Annual Air Pollution Control Association Meeting, New York, NY (87-101.1)

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40	Klouda, George A.	1987	The Source Apportionment of Carbonaceous Products by Micro-Radiocarbon Measurements for the Integrated Air Cancer Project (IACP)	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 573-578 (EPA-600/9-87-010) (NTIS PB88-113402)
41	Lewtas, Joellen	1987	Overview of the Integrated Air Cancer Project	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 555-561 (EPA-600/9-87-010) (NTIS PB88-113402)
42	Merrill, Raymond G.	1987	Progress toward Identifying Source Specific Tracers	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 585-590 (EPA-600/9-87-010) (NTIS PB88-113402)
43	Merrill, Raymond G.; Brusick, David	1987	Mutagenicity and Toxicity of Residential Wood Combustion Residue Samples	U.S. Environmental Protection Agency, Air and Energy Engineering Laboratory, Research Triangle Park, NC; and Hazelton Laboratories of America, Kensington, MD
44	Schonburn, Michael; et al.	1987	Options for Reducing Emissions from Wood Burning Units in the Denver Metropolitan Area	Denver Metropolitan Air Quality Council, Denver, CO; and Colorado University, Denver Graduate School of Public Affairs, Denver, CO
45	Zweidinger, Roy	1987	Volatile Organic Hydrocarbon and Aldehyde Composition in Raleigh, NC during the 1985 Woodsmoke Study	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants; U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 579-584 (EPA-600/9-87-010) (NTIS PB88-113402)
46	Bell, D.A.; Kamens, R.M.; Claxton, Larry D.; Lewtas, Joellen	1986	Photoreaction of Wood Smoke Particles: Destruction and Creation of Mutagens in Sunlight	Proceedings of the 79 th Annual Air Pollution Control Association Meeting, Minneapolis, MN
47	Buchanan, James W.; Shutian, Li; Calloway, Clifton	1986	A Refinement of the Potassium Tracer Method for Residential Wood Smoke	Proceedings of the 79 th Annual Air Pollution Control Association Meeting, Minneapolis, MN (86-77.6)

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48	Buchanan, James W.	1986	A Refinement of the Potassium Tracer Method for Residential Wood Smoke	Proceedings of the 1986 EPA/APCA Symposium on Measurement of Toxic Pollutants, Raleigh, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-7, Pittsburgh, PA, pp. 748-754 (EPA-600/9-86-013) (NTIS PB87-182713)
49	Edgerton, S.A.; Khalil, M.A.K.; Rasmussen, R.A.	1986	Source Emission Characterization of Residential Wood-Burning Stoves and Fireplaces: Fine Particle/Methyl Chloride Ratios for Use in Chemical Mass Balance Modeling	Environmental Science and Technology, Vol. 20, No. 8, pp. 803-807
50	Gebhart, D. Howard; Anderson, Stephen R.	1986	A Study Design for Characterization of Residential Wood Combustion Impacts in Suburban Settings Case Study: Fort Collins, Colorado	Proceedings of the 79 th Annual Air Pollution Control Associations Meeting, Minneapolis, MN (86-74.3)
51	Kleindienst, Tadeusz E.; Shepson, Paul B.; Edney, Edward O.; Claxton, Larry D.; Cupitt, Larry T.	1986	Wood Smoke: Measurement of the Mutagenic Activities of Its Gas- and Particulate-Phase Photooxidation Products	Environmental Science and Technology, Vol. 20, No. 5, pp. 493-501
52	Kleindienst, T.E.; Shepson, P.B.; Edney, E.O.	1986	Mutagenic Activities of Wood Smoke Photooxidation Products	U.S. Environmental Protection Agency, Atmospheric Sciences Research Laboratory, Research Triangle Park, NC (EPA-600/3-86-049) (NTIS PB86-239837)
53	Klouda, George A.; Currie, L.A.; Donahue, D.J.; Jull, A.J.T.; Naylor, M.H.	1986	Urban Atmospheric ¹⁴ CO and ¹⁴ CH ₄ Measurements by Accelerator Mass Spectrometry	Radiocarbon, Vol. 28, No. 2A, pp. 625-633
54	Leese, K.E.; McCrillis, Robert C.	1986	Integrated Air Cancer Project, Source Measurement	Proceedings of the 79 th Annual Air Pollution Control Association Meeting, Minneapolis, MN (EPA-600/D-86-152) (NTIS PB86-222924)
55	OMNI Environmental Services, Inc.	1986	Effects of Thermal Stress on Catalytic Combustion Performance — Volume I	OMNI Environmental Services, Inc.; Prepared for the Matsushita Battery Industrial Co., Ltd., Osaka, Japan

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
56	Rau, John A.	1986	Residential Wood Combustion Aerosol Characterization as a Function of Size and Source Apportionment Using Chemical Mass Balance Modeling	Ph. D. Dissertation, Oregon Graduate Center, Chemical, Biological, and Environmental Sciences Department, Beaverton, OR
57	Edgerton, Sylvia A.	1985	Gaseous Tracers in Receptor Modeling: Methyl Chloride Emission from Wood Combustion	Ph. D. Dissertation, Oregon Graduate Center, Environmental Science Department, Beaverton, OR
58	Environmental Research & Technology, Inc.	1985	Air Quality Monitoring and Control for the City of Fort Collins — Volume IV: Results of the 1984-1985 Winter Residential Wood Combustion Study	Prepared for the City of Fort Collins Community Development Department Planning Division, Fort Collins, CO
59	Inoye, Daniel	1985	Estimation of Carbon Monoxide and Particulate Emissions from Woodburning Devices in the Fresno/Clovis Metropolitan Area	No Publication Information Listed
60	Kamens, Richard M.; Bell, Douglas A.; Dietrich, Andrea; Perry, Jean; Goodman, Randall; Claxton, Larry D.; Tejada, Sylvestre	1985	Mutagenic Transformations of Dilute Wood Smoke Systems in the Presence of Ozone and Nitrogen Dioxide. Analysis of Selected High-Pressure Liquid Chromatography Fractions from Wood Smoke Particle Extracts	Environmental Science and Technology, Vol. 19, No. 1, pp. 63-69
61	Rau, John A.; Huntzicker, James J.	1985	Size Distribution and Chemical Composition of Residential Wood Smoke	Proceedings of the 78 th Annual Air Pollution Control Association Meeting, Detroit, MI (85-43.3)
62	Stapleton, Jim	1985	Air Pollution Due to Residential Space Heating in the Mid-Hudson Valley	Hudsonia Limited, Bard College, Annandale, NY; Prepared for the Central Hudson Gas and Electric Corp., Poughkeepsie, NY
63	Core, John E.; Cooper, John A.; Neulicht, Roy M.	1984	Current and Projected Impacts of Residential Wood Combustion on Pacific Northwest Air Quality	Journal of the Air Pollution Control Association, Vol.31, No. 2, pp. 138-143

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64	Currie, Lloyd A.; Klouda, George A.; Voorhees, Kent J.	1984	Atmospheric Carbon: The Importance of Accelerator Mass Spectrometry	Nuclear Instruments and Methods in Physics Research, Vol. 233 [B5], No. 2, pp. 371-379
65	Department of Ecology, State of Washington	1984	Residential Wood Stove Emissions in Yakima and Olympia	State of Washington Department of Ecology, Olympia, WA
66	Duker, D.C.; Levaggi, D.A.; Umeda, T.; DeMandel, R.E.; Perardi, T.E.	1984	Measurements of a Carbon Monoxide Cloud in San Jose, California	Proceedings of the 77 th Annual Air Pollution Control Association Meeting, San Francisco, CA (84-87.4)
67	Kamens, Richard M.; Rives, Glenn D.; Perry, Jean M.; Bell, Douglas A.; Paylor, R. Flynn; Goodman, Randall G.; Claxton, Larry D.	1984	Mutagenic Changes in Dilute Wood Smoke as It Ages and Reacts with Ozone and Nitrogen Dioxide: An Outdoor Chamber Study	Environmental Science and Technology, Vol. 18, No. 7, pp. 523-530
68	Zak, B.D.; Einfeld, W.; Church, H.W.; Gay, G.T.; Jensen, A.L.; Trijonis, J.; Ivey, M.D.; Homann, P.S.; Tipton, C.	1984	The Albuquerque Winter Visibility Study Vol. 1 Overview and Data Analysis	U.S. Department of Energy, Sandia Report (SAND84-0173/1 DE84 014356)
69	Hytönen, S.; Alfheim, I.; Sorsa, M.	1983	Effect of Emissions from Residential Wood Stoves on SCE Induction in CHO Cells	Mutation Research, Vol. 118, pp. 69-75
70	Kelly, Mary E.	1983	Sources and Emissions of Polycyclic Organic Matter (POM)	U.S. Environmental Protection Agency, Research Triangle Park, NC (EPA-450/5-83-010b) (NTIS PB84-144153)
71	Ramdahl, Thomas	1983	Retene-A Molecular Marker of Wood Combustion in Ambient Air	Nature, Vol. 306, No. 8, pp. 580-582

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72	Beck, Barbara D.	1982	Prediction of the Pulmonary Toxicity of Respirable Combustion Products from Residential Wood & Coal Stoves	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, the Air Pollution Control Association, Louisville, KY, pp. 264-280
73	Imhoff, Robert E.	1982	Final Report on a Study of the Ambient Impact of Residential Wood Combustion in Petersville, AL	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, the Air Pollution Control Association, Louisville, KY, pp. 161-188
74	Johnston, Ralph E.; Arkell, Donald R.	1982	A Preliminary Analysis of the Impact of Residential Wood Combustion Emissions on Ambient Carbon Monoxide Levels	Lane Regional Air Pollution Authority, Eugene, OR
75	Kamens, Richard M.	1982	An Outdoor Exposure Chamber to Study Wood Combustion Emissions under Natural Conditions	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, the Air Pollution Control Association, Louisville, KY, pp. 207-225
76	Klouda, George A.	1982	Estimating the Impact of Atmospheric Carbonaceous Particulates on Urban and Rural Environments by Radiocarbon Measurements	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, the Air Pollution Control Association, Louisville, KY, pp. 189-206
77	Lipfert, Frederick W.	1982	A National Assessment of the Air Quality Impacts of Residential Firewood Use	Proceedings of the Residential Wood & Coal Combustion — Specialty Conference, the Air Pollution Control Association, Louisville, KY, pp. 226-239
78	Allwine, K.J., Jr.	1981	Assessment of the Long-Range Transport of Residential Woodstove Fine Particulate Emissions for Two Future U.S. Energy Scenarios	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 398-414
79	Barnard, Barry L.	1981	Regulating Residential Biomass Combustion in the Tennessee Valley Region	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1216-1228

CATEGORY #4 — AMBIENT AIR QUALITY AND HEALTH STUDIES

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
80	Benton, Gary; Miller, Don Paul; Reimold, Mary; Sisson, Richard	1981	A Study of Occupant Exposure to Particulates and Gases from Woodstoves in Homes	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 456-468
81	Bohac, Charles; Duncan, Joseph R.; Beeman, Larry E.	1981	Residential Wood Combustion Issues for the Tennessee Valley	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, p. 274
82	Brimblecombe, Peter	1981	Environmental Impact of Fuel Changes in Early London	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1-11
83	Carlson, James H.	1981	Residential Wood Combustion in Missoula, Montana: An Overview of Its Air Pollution Contributions, Health Effects, and Proposed Regulatory Solutions	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 539-550
84	Colome, Steven D.; Spengler, John D.	1981	Residential Indoor and Matched Outdoor Pollutant Measurements with Special Consideration of Wood-Burning Homes	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 435-455
85	Cooper, John A.	1981	Chemical and Physical Methods of Apportioning the Contributions of Emissions from Residential Solid Fuels to Reductions in Air Quality	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 349-364
86	Currie, L.A.; Klouda, George A.; Gerlach, R.W.	1981	Radiocarbon: Nature's Tracer for Carbonaceous Pollutants	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 365-385

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
87	DeCesar, Richard T.	1981	The Quantitative Impact of a Residential Wood Combustion and Other Vegetative Burning Sources on the Air Quality in Medford, Oregon	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 551-565
88	Greene, W.T.; Tombleson, B.J.	1981	Institutional and Regulatory Approaches to Control Residential Wood Burning Emissions	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1229-1252
89	Hornig, James F.; Soderberg, Roger H.; Larsen, Deborah; Parravano, Carlo	1981	Ambient Air Assessment in Rural Village and Small Town Locations in New Hampshire where Wood Is an Important Fuel	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 506-519
90	Imhoff, Robert E.; Manning, Justice A.; Cook, William M.; Hayes, Timothy L.	1981	Preliminary Report on a Study of the Ambient Impact of Residential Wood Combustion in Petersville, Alabama	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 520-538
91	Jacobs, Philip; Snowden, Bunch	1981	Health Costs of Residential Wood Combustion	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 657-669
92	Kelsey, Morris I.; Kraybill, H.F.; Helmes, C. Tucker, Sigman, Caroline C.	1981	A Data Base of Organic Pollutants that Have Been Evaluated for Carcinogenicity and Mutagenicity	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 577-605
93	Kosel, Peter H.	1981	Pollution and Fireplaces in California	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, pp. 242-251
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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
95	Kowalczyk, J.F.; Greene, W.T.	1981	New Techniques for Identifying Ambient Air Impacts from Residential Wood Heating	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 469-494
96	Lawther, P.J.	1981	Historic Changes in Air Pollution in Great Britain	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 566-576
97	Lewtas, Joellen	1981	Comparison of the Mutagenic and Potentially Carcinogenic Activity of Particle Bound Organics from Wood Stoves, Residential Oil Furnaces, and Other Combustion Sources	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 606-619
A-40 98	Lim, K.J.; Lips, H.I.	1981	Overview of Emissions from Wood Combustion	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, p. 273
99	Lipfert, Frederick W.	1981	An Assessment Methodology for the Air Quality Impact of Residential Wood Burning	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 415-434
100	Machlin, Paula R.	1981	Residential Solid Fuels in the Environmental Protection Agency Region VIII States	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1197-1215
101	Martin, Werner	1981	European Experiences and Activities in Assessing the Environmental Impacts from Wood Combustion	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1180-1196

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
102	Meyer, H. Robert	1981	The Contribution of Residential Wood Combustion Local Airshed Pollutant Concentrations	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 386-397
103	Morris, Gregory	1981	Health Effects of Residential Wood Combustion — The Implications of Environmental Stochasticity	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 648-656
104	Mors, Terry A.; Blair, Terence T.; Cole, Robert H.	1981	Regulatory Options for Controlling Emissions from Combustion of Wood in Residential Applications	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1253-1271
105	Murphy, Dennis J.; Buchan, Roy M.; Fox, Douglas G.	1981	Ambient Particulate and Benzo (α) Pyrene Concentrations from Residential Wood Combustion, in a Mountain Resort Community	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 495-505
106	Santodonato, Joseph; Basu, Dipak; Bruce, Robert	1981	Multimedia Human Exposure to Polycyclic Aromatic Hydrocarbons and Their Association with Cancer Risk	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 620-647
107	Schwengels, Paul; Bohac, Charles; Krickenberg, Kit	1981	An Integrated Environmental Assessment of Biomass Energy Development in the Tennessee Valley	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, p. 272
108	Cooper, John A.	1980	Environmental Impact of Residential Wood Combustion Emission and Its Implications	Journal of the Air Pollution Control Association, Vol. 30, No. 8, pp. 855-861
109	Davis, Briant L.	1980	Composition and Sources of Airborne Particulate Matter Observed in Wintertime at Missoula, Montana	Prepared for the Montana State Department of Health and Environmental Science, Missoula, MT

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
110	Harris, Howard W.	Undated	An Investigation of Elevated Carbon Monoxide and Nephelometer Data in a Portland Residential Neighborhood Affected by Wood Smoke	Oregon Department of Environmental Quality, Portland, OR
111	Hornig, James F.; Soderberg, Roger H.; Barefoot, Aldos C., III	Undated	Woodsmoke Analysis: Vaporization Losses of PAH from Filters and Levoglucosan as a Distinctive Marker for Woodsmoke	Proceedings for the Eighth International Symposium on Polynuclear Aromatic Hydrocarbons: Mechanisms, Methods and Metabolism, Wilmington, DE, pp. 561-568
112	Lao, R.C.; Thomas, R.S.; Lanoy, M.; Lee, S. Win	Undated	Investigation of PAH and Polychlorinated Organic Pollutant Emissions from Wood Combustion Sources	Laboratory Services Division, Air Pollution Control Directorate, Environment Canada, Ottawa, Canada, pp. 745-755
113	Weston, Roy F.	Undated	Particulate Emissions from Residential Wood Combustion — Final Report	Roy F. Weston Co., West Chester, PA; Prepared for Northeast Regional Biomass Program, CONEG Policy Research Center, Inc.

CATEGORY #5 — REGULATORY REVIEWS

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
1	U.S. Environmental Protection Agency	1996 1993 1992 1983	Emission Factor Documentation for AP-42 Section 1.9, Residential Fireplaces, and Section 1.10, Residential Wood Stoves	U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Office of Air and Radiation, Research Triangle Park, NC, (Section 1.9 EPA-450/4-82-004, and Section 1.10 EPA-450/4-82-003)
2	Collier, David L.	1995	Medford And Klamath Falls, Oregon — Success in Controlling Residential Wood Combustion — Possible Implications of New Particulate Matter Standard	Proceedings of an International Specialty Conference, Particulate Matter: Health and Regulatory Issues; Published by Air & Waste Management Association, Pittsburgh, PA, VIP-49, Pittsburgh, PA, pp. 776-788
3	Appel, J.	1992	Current Limitations and Future Prospects of Residential Wood Combustion Controls in the Pacific Northwest	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 614-624 (ISBN 0-923204-09-1)
4	Hough, M.; et al.	1992	Progress to Achieve Residential Wood Combustion PM ₁₀ Emission Reductions in Medford, Oregon as Determined by Compliance Surveys and Ambient Monitoring	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 637-645 (ISBN 0-923204-09-1)
5	Manderino, L.	1992	An Integrated Community Approach to Reducing Residential Woodsmoke: Innovative Funding of Control Strategies	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 716-729 (ISBN 0-923204-09-1)
6	Maykut, N.; Fry, S.	1992	Woodsmoke Control in the Puget Sound Region	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 625-636 (ISBN 0-923204-09-1)

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
7	Morris, A.; et al.	1992	An Integrated Community Approach to Reducing Residential Woodsmoke: Community Analysis and Education	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 700-715 (ISBN 0-923204-09-1)
8	OMNI Environmental Services, Inc.	1992	Residential Wood Combustion Control Measures for the Pocatello PM ₁₀ Nonattainment Area	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Environmental Protection Agency, Region X, Seattle WA
9	Ono, D.; Taylor, W.	1992	Town of Mammoth Lakes Air Quality Regulations	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 657-668 (ISBN 0-923204-09-1)
10	Pettingill, D.; et al.	1992	Evaluation of Washoe County, NV Control Strategies for Reducing Emissions from Residential Woodburning	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 646-656 (ISBN 0-923204-09-1)
11	Shwayder, P.	1992	Burning Wood — A Political Perspective: Case Studies from the Denver Region	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 669-679 (ISBN 0-923204-09-1)
12	Stapp, S.; Harley, R.	1992	An Effective Woodburning Control Program: Albuquerque/Bernalillo County, New Mexico, USA	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 730-740 (ISBN 0-923204-09-1)
13	Stoneman, C.; Pace, T.	1992	Technical Guidance for Residential Wood Combustion: Reasonably and Best Available Control Measures	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 601-613 (ISBN 0-923204-09-1)

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
14	Davis, Bob	1989	Guidance Document for Residential Wood Combustion Emission Control Measures	U.S. Environmental Protection Agency Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, NC, (EPA-450/2-89-015) (NTIS PB90-130444)
15	Butler, Alan T.	1988	Control Of Woodstoves by State Regulation as a Fine Particulate Emission Control Strategy	Transactions of the APCA/EPA International Specialty Conference, PM ₁₀ Implementation Standards, TR-13, San Francisco, CA; Published by the Air Pollution Control Association, Pittsburgh, PA, pp. 654-663
16	Hough, Merlyn	1988	Oregon's Approach to Reducing Residential Woodsmoke as Part of the PM ₁₀ Strategy	Transactions of the APCA/EPA International Specialty Conference, PM ₁₀ Implementation Standards, TR-13, San Francisco, CA; Published by the Air Pollution Control Association, Pittsburgh, PA, pp. 646-653
17	Westlin, Peter R.	1987	The Environmental Protection Agency's Accreditation Program for Wood Heater Testing Laboratories	Proceedings of the 1987 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, U.S. Environmental Protection Agency, Pittsburgh, PA, pp. 707-711 (EPA-600/9-87-010) (NTIS PB88-113402)
A-45 18	Gay, Robert; Shah, Jitendra	1986	Technical Support Document for Residential Wood Combustion	NERO and Associates, Inc., Portland, OR; Prepared for the U.S. Environmental Protection Agency, Office Of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, NC, (EPA-450/4-85-012) (NTIS PB97-149538)
19	Jenkins, Pamela G.	1986	Wood Smoke: Emissions, Impacts, and Reduction Strategies.	Washington Department of Ecology, Air Program, Olympia, WA
20	Radian Corporation	1986	Evaluation of Emission Limit Formats for Residential Woodburning Appliances	Radian Corporation, Research Triangle Park, NC; Prepared for the U.S. Environmental Protection Agency, Emission Standard and Engineering Division, Research Triangle Park, NC (DCN no. 86-231-020-25-04)
21	Radian Corporation	1986	Wood Load Effect on Particulate Emissions from Residential Woodburning Appliances	Radian Corporation, Research Triangle Park, NC; Prepared for the U.S. Environmental Protection Agency, Emission Standard and Engineering Division, Research Triangle Park, NC (DCN no. 86-231-020-25-02)

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23	Braaten, R.W.; Hayden, A.C.S.	1984	Status of Canadian Standard for Efficiency and Emissions of Domestic Wood-Fired Appliances	Canadian Combustion Research Laboratory, ERL/CANMET, Energy, Mines & Resources Canada, Ottawa, Canada
24	Grotheer, Wayne E.	1984	Overview of Control Strategies for Residential Wood Combustion	Proceedings of the 77 th Annual Air Pollution Control Association Conference, San Francisco, CA (84-70.1)
25	Carlsson, Sten-Åke	1981	Residential Wood Combustion in Sweden — Environmental Aspects and Regulations	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1160-1165
26	Greene, William T.; Tomleson, Barbera J.	1981	Institutional and Regulatory Approaches to Control Residential Wood Burning Emissions	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, p. 271
27	Hall, R.E.	1981	EPA's Research Program for Controlling Residential Wood Combustion Emissions	Proceedings of the Wood Heating Seminars 1980/1981, Wood Heating Alliance, Washington DC, pp. 44-63
28	Sundström, Lars	1981	Method for Measuring Heat Output and Efficiency on Wood Heating Appliances and Results from Tests on Ten Woodstoves and Fireplaces	Proceedings of the 1981 International Conference on Residential Solid Fuels, Environmental Impacts and Solutions, Portland, OR; Published by Oregon Graduate Center, Beaverton, OR (1982), pp. 1038-1054
29	Hall, Robert E.; DeAngelis, Daryl G.	1980	EPA's Research Program for Controlling Residential Wood Combustion Emissions	Journal of the Air Pollution Control Association, Vol. 30, No. 8, pp. 862-867

CATEGORY #6 — GENERAL OR UNCLASSIFIED RESIDENTIAL WOOD BURNING DOCUMENTS

<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
1	Anonymous	1994	Fuelwood Plant Demonstrates Use of Clean, Renewable Fuel for Heating and Cooling	Arbor Day, Nebraska City, NE, p. 7
2	Tiegs, Paul E.; Vaughan, Patrick; Bighouse, Roger D.	1993	Spillage of Combustion Byproducts from Woodstoves Operated in Negative Pressure Environments	OMNI Environmental Services, Beaverton, OR; Prepared for Bonneville Power Administration, Resource Management Residential Department (DE-AP79-92BP60576-M001)
3	Walsh, Debra; Warren, Sarah; Zweidinger, Roy; et al.	1993	Mutagenicity of Indoor Air in Boise, Idaho and Roanoke, Virginia	Proceedings of the 1993 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Durham, NC; Published by Air & Waste Management Association, VIP-34, Pittsburgh, PA, pp. 190-196
4	Broome, F.	1992	The Development of Clean-Burning Noncatalytic Manufactured Fireplaces	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 585-588 (ISBN 0-923204-09-1)
5	Bushway, Stephen	1992	The New Woodburner's Handbook — A Guide to Safe, Healthy & Efficient Woodburning	Capitol City Press Fast Printing, Storey Communications, Inc., Pownal, VT
6	CONEG Policy Research Center	1992	Pamphlet — How to Burn Wood Right — Choosing and Using Your Wood Stove in Today's Environment	CONEG Policy Research Center, New York State Energy Research and Development Authority
7	Myren, A., Jr.	1992	The Development of the Clean Burning Inside-Out Flame in Noncatalytic Woodstoves	Transactions of the A&WMA/EPA International Specialty Conference, PM ₁₀ Standards and Nontraditional Particulate Source Controls, Volume II, TR-22; Published by Air & Waste Management Association, Pittsburgh, PA, pp. 589-592 (ISBN 0-923204-09-1)
8	Barnett, Stockton G.	1991	Report to the City of Fresno, California on the Implications of a Project that Measured Masonry Fireplace and Heater Emissions in Homes	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the City of Fresno, CA; Prepared for the Masonry Institute and Western States Clay Products Association, San Mateo, CA

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
9	California Air Resources Board	1991	Woodburning Handbook — How to Burn More Efficiently in Your Stove or Fireplace and Produce Less Air Pollution	California Air Resources Board, Sacramento, CA
10	Melcon, Daniel	1989	Pellet Primer — An Introduction to Heating with Wood Pellets	Biomass Publications of America, Portland, OR
11	Barden, Albert; Hyytiäinen, Heikki	1988	Finnish Fireplaces — Heart of the Home	Building Book Ltd., Finland
12	Evans, Robert J.; Milne, Thomas A.	1988	Relevancy of Wood Pyrolysis Chemistry to Wood Stove Emissions	Chemical Conversion Research Branch, Solar Energy Research Institute, Golden, CO; Presented at the 1988 American Chemical Society National Summer Meeting, Denver, CO
13	Greene, William T.	1988	Cost/Benefit Analysis of Mitigation Measures for Minimizing Environmental Impacts of Residential Wood Combustion, Task F — Final Report	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy, Pacific Northwest and Alaska Regional Biomass Energy Program, (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-18508-7)
14	Greene, William T.; Simons, Carl A.; Houck, James E.	1988	Mitigation Measures for Minimizing Environmental Impacts from Residential Wood Combustion, Task E — Final Report	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the U.S. Department of Energy, Pacific Northwest and Alaska Regional Biomass Energy Program, (Administered by the Bonneville Power Administration, Portland, OR) (DOE/BP-18508-5)
15	Highsmith, V. Ross	1988	Influence of Residential Wood Combustion Emissions on Indoor Air Quality of Boise, Idaho Residences	Proceedings of the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-10, Pittsburgh, PA, pp. 804-813 (EPA-600/9-88-015) (NTIS PB90-225863)
16	Peacock, Richard D.	1987	Wood Heating Safety Research: An Update	Fire Technology, Vol. 223, No. 4, pp. 229-312
17	Wilson, Pamela L.; Funck, James W.; Avery, Robert B.	1987	Fuelwood Characteristics of Northwestern Conifers and Hardwoods — Research Bulletin 60	Forest Research Laboratory, College of Forestry, Oregon State University, Corvallis, OR

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<u>#</u>	<u>AUTHOR</u>	<u>DATE</u>	<u>TITLE</u>	<u>PUBLICATION INFORMATION</u>
18	Chase, Craig L.	1986	Pacific Northwest and Alaska Bioenergy Program Glossary	U.S. Government Interagency Program, Department of Energy, Bonneville Power Administration, Portland, OR
19	Harris, Robert A.; McMinn, James W.; Payne, Fred A.	1986	Calculating and Reporting Changes in Net Heat of Combustion of Wood Fuel	Forestry Products Journal, Vol. 36, No. 6, pp. 57-60
20	Humphreys, Mallory P.	1986	Residential Wood Combustion Impacts on Indoor Carbon Monoxide and Suspended Particulates	Proceedings of the 1986 EPA/APCA Symposium on Measurement of Toxic Pollutants, Raleigh, NC; U.S. Environmental Protection Agency; Published by the Air Pollution Control Association, VIP-7, Pittsburgh, PA, pp. 736-747 (EPA-600/9-86-013) (NTIS PB87-182713)
21	OMNI Environmental Services, Inc.	1986	Compendium of Environmental and Safety Regulations and Programs Affecting Residential Wood Heating Appliances	OMNI Environmental Services, Inc., Beaverton, OR; Prepared for the Bonneville Power Administration, Portland, OR
22	Canadian Wood Energy Institute	1985	Conference Proceedings of the Firewood 85	Canadian Wood Energy Institute
A-49 23	Hartman, M.W.; Rives, G.D.	1985	Literature Review and Survey of Emissions from Residential Wood Combustion and Their Impact	Radian Corporation, Research Triangle Park, NC; Prepared for the U.S. Environmental Protection Agency, Office of Research and Development, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC (EPA-600/2-85-047) (NTIS PB85-197820)
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