

Minneapolis

City of Lakes

Public Health Advisory Committee

Tuesday, May 22, 2012, 6:00 – 8:00 pm

Minneapolis City Hall

350 S 4th Street, Room 132

AGENDA

Agenda Item	Presenter	Time	Committee Action
Welcome and Introductions	John Schrom	6:00-6:05	Approve agenda
PHAC Logistics and Updates Zap Twin Cities Letter Co-chair	John Schrom	6:05-6:20	Approve letter Approval
Health implications of Recreational Fires	Greg Pratt	6:20-7:05	Discussion
Results: Communities Putting Prevention to Work	Kristen Klingler	7:05-7:35	Discussion
Minneapolis Swims: Letter of Support	Karen Soderberg	7:35-7:40	Discussion
Department Updates	Gretchen Musicant	7:40-7:50	Discussion
Information Sharing	All	7:50-8:00	Discussion

Next Meeting: June 26, 2012, Minneapolis City Hall, Room 132

If there are any problems/changes the night of the meeting, please call 612-919-3855.

**City of Minneapolis
Public Health Advisory Committee
2012
5/22/2012**

	Seat	Committee Member First	Committee Member Last	Check-in (Initial)
1	Reich	Julie	Ring	X
2	Gordon	Robin	Schow	
3	Hofstede	Patricia	Hillmeyer	X
4	Johnson	Saeng	Kue	
5	Samuels	Tara	Jenson	
6	Lilligren	Happy	Reynolds-Cook	X
7	Goodman	Karen	Soderberg	X
8	Glidden	Abdullahi	Sheikh	X
9	Schiff	John	Schrom	X
10	Tuthill	Vacant	Vacant	
11	Quincy	Robert	Burdick	X
12	Colvin Roy	Autumn	Chmielewski	
13	Hodges	Dr. Rebecca	Thoman	X
	Mayor's Representative	Vacant	Vacant	
	Minneapolis Public Schools	Julie	Young-Burns	X
	Hennepin County Human Services and Public Health Department	Jonathan	Hanft	X
	U of M School of Public Health	Alan	Lifson	
10	Member at Large	Samira	Dini	X
	Member at Large	Daniel	Brady	X
	Member at Large	Douglas	Limon	
	Urban Health Professional Advisory Committee	Revolving	Revolving	
	Urban Health Agenda Community Advisory Committee Representative	Revolving	Revolving	
	MDHFS Staff	Gretchen	Musicant	X
	MDHFS Staff	Aliyah	Ali	
	MDHFS Staff	Kim	Stringfellow	X
	MDHFS Staff	Becky	McIntosh	X
	Guest, MDHFS	Farhiya	Farah	X
	Guest, MDHFS	Kristen	Klingler	X
	Guest, MN Pollution Control Agency	Greg	Pratt	X

**Minneapolis Department of Health & Family Support (MDHFS)
Public Health Advisory Committee (PHAC)
May 22, 2012**

Ward 1	Julie Ring	X
Ward 2	Robin Schow	
Ward 3	Patricia Hillmeyer	X
Ward 4	Saeng Kue	
Ward 5	Tara Jenson	
Ward 6	Dr. Happy Reynolds-Cook	X
Ward 7	Karen Soderberg	X
Ward 8	Abdullahi Sheikh	X
Ward 9	John Schrom	X
Ward 10	Vacant	
Ward 11	Robert Burdick	X
Ward 12	Autumn Chmielewski	
Ward 13	Dr. Rebecca Thoman	X
Mayor's Representative	Vacant	

MPS	Julie Young-Burns	X
HCHS&PH	Jonathan Hanft	X
U of M SPH	Alan Lifson	
Member at Large	Samira Dini	X
Member at Large	Douglas Limon	
Member at Large	Daniel Brady	X
MDHFS, Commissioner	Gretchen Musicant	X
MDHFS, Staff	Aliyah Ali	
MDHFS, Staff	Becky McIntosh	X
MDHFS, Admin Support	Kim Stringfellow	X
Guest, MN Pollution Control Agency	Greg Pratt	X
Guest, MDHFS	Kristen Klingler	X
Guest, MDHFS	Farhiya Farah	X

John Schrom opened the meeting at 6:05 pm at City Hall and members and guests introduced themselves.

Item	Discussion	Outcome
Welcome & Introductions	New members Julie Ring, Ward 1 and Dr. Happy Reynolds-Cook, Ward 6, shared professional and personal information about themselves.	
PHAC Logistics and Updates	<p><u>Approve Minutes and Agenda</u> April minutes will be available and approved at the June 26, 2012 meeting.</p> <p>The May 22, 2012 agenda was updated to include discussion of Minneapolis Swims letter of support. No further discussion or changes to the agenda.</p> <p><u>Zap Twin Cities Letter</u> In follow-up to the Zap Twin Cities presentation and discussion at the April 24, 2012 PHAC meeting, the committee approved to write a letter to public works to grant encroachment permits for the ZAP readers. However, after the meeting, the TMO requested that the letter be sent to the council members whose wards the ZAP machines would be placed in. The group approved the letter with changes, to be sent to Councilmembers Hofstede, Goodman and Lillgren. Two changes to the letter include replacing <i>Councilmember Goodman</i> with <i>Gordon</i>, and in the second to last paragraph replacing <i>encourages</i> with <i>recommends</i>. After the meeting it was confirmed that the letter should be address to Councilmember Goodman and not Councilmember Gordon.</p> <p><u>Co-Chair Vacancy</u> Karen Soderberg, Ward 7, expressed interest in filling the committee's vacant position of Co-Chair.</p>	<ul style="list-style-type: none"> • Rebecca Thoman motioned to approve the letter of support for Zap Twin Cities, and seconded by Jonathan Hanft. Following a short discussion including changes to the letter, the letter was approved unanimously, with no members abstaining. • It was unanimously approved that Karen Soderberg will fill the Co-Chair vacancy through 2013.

Health Implications of Recreational Fires	<p>Greg Pratt, Minnesota Pollution Control Agency, provided a presentation regarding the current issue of recreational fires and the health implications. CEAC recommendations to recreational fires will be available to PHAC at the June meeting, at which time PHAC will be making their recommendations that include a public health perspective.</p> <p>For detailed data, go to Minnesota Pollution Control Agency www.pca.state.mn.us.</p>	
Results: Communities Putting Prevention to Work (CPPW)	<p>Kristen Klingler presented on CPPW, now at the end of its two-year federal grant period, which focused on healthy foods and physical activity. For more information go to http://www.minneapolismn.gov/health/cppw/index.htm.</p>	
Minneapolis Swims – Letter of Support	<p>Karen Soderberg will send nomination information to PHAC members so those interested may individually support Minneapolis Swims. Past PHAC actions may be referenced in the nomination.</p>	
Department Updates – Gretchen Musicant	<p><u>Charter Revision</u> In the latest version of the charter revision, discussed at a hearing on May 21, the health department is listed as a charter department. This is an improvement over past drafts which would have made a health department something that was created by City Ordinance and could also be eliminated with a simple majority vote of the Council. The City Charter can only be changed with a 13-0 vote by the Council or through a vote by the public as a ballot measure.</p> <p><u>New City Coordinator</u> Gretchen has met with Paul Aasen, the new City Coordinator. He has a varied and relevant background including a Masters in Public Health.</p> <p><u>Anniversary of North Minneapolis Tornado</u> There was a celebration of North Minneapolis residents and community partners today at UROCK on the one year anniversary of the North Minneapolis Tornado.</p> <p><u>Youth Violence Prevention</u> Picturing Peace event will be held on June 5, 2012, 5:00-6:30 pm, in the City Hall Rotunda, and will be on display through June 18. This is a photography project that explores youth violence, peace, safety and community support for young people.</p>	
Information Sharing	<p><u>Revamp PHAC</u> Members who volunteered to participate on this subcommittee will meet Friday, May 25, 2012 at 1:30 pm. Location TBD.</p>	

Meeting adjourned at 8:15 p.m.

Minutes submitted by Kim Stringfellow and Aliyah Ali.



**Department of Health
& Family Support**

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www.minneapolismn.gov/dhfs

Public Health Advisory Committee

May 17, 2012

Dear Council Members Hofstede, Goodman, and Lilligren:

The City of Minneapolis' Public Health Advisory Committee (PHAC) would like to submit this letter in support of ZAP Twin Cities, a commuter and health benefits initiative of the Downtown Transportation Management Organization, which aims to promote and reward bike commuting.

The role of the committee is to advise the City Council and the Department of Health and Family Support on policy matters affecting the health of Minneapolis residents, and to serve as a liaison between the City and community in addressing health concerns. In this role, our 20-member committee makes every effort to ensure that the concerns addressed and represented reflect the diverse viewpoints and interests of the Minneapolis community as a whole.

Given rising prevalence of obesity, the leading cause of chronic illnesses, we consider the availability of initiatives aimed at encouraging healthy activities, such as biking, to be important factors in the continued health of the Minneapolis community. Zap Twin Cities promotes our commitment in supporting programs that aim to reduce the burden of chronic illnesses and will have great value for downtown employers, creating a free and easy-to-manage wellness opportunity that could potentially reduce health care premiums.

Along with enabling employers to provide robust incentives as part of their wellness policies, ZAP Twin Cities, has significant benefits to downtown employees who commute by bike, including reducing traffic congestion and improving employee health, absenteeism and productivity.

The Public Health Advisory Committee strongly supports Zap Twin Cities and recommends that the necessary encroachment permits be granted for nine new poles and ZAP readers.

If we can be of any further assistance, please don't hesitate to contact Aliyah Ali, MDHFS staff for PHAC at: (612) 673-3861 or aliyah.ali@minneapolismn.gov.

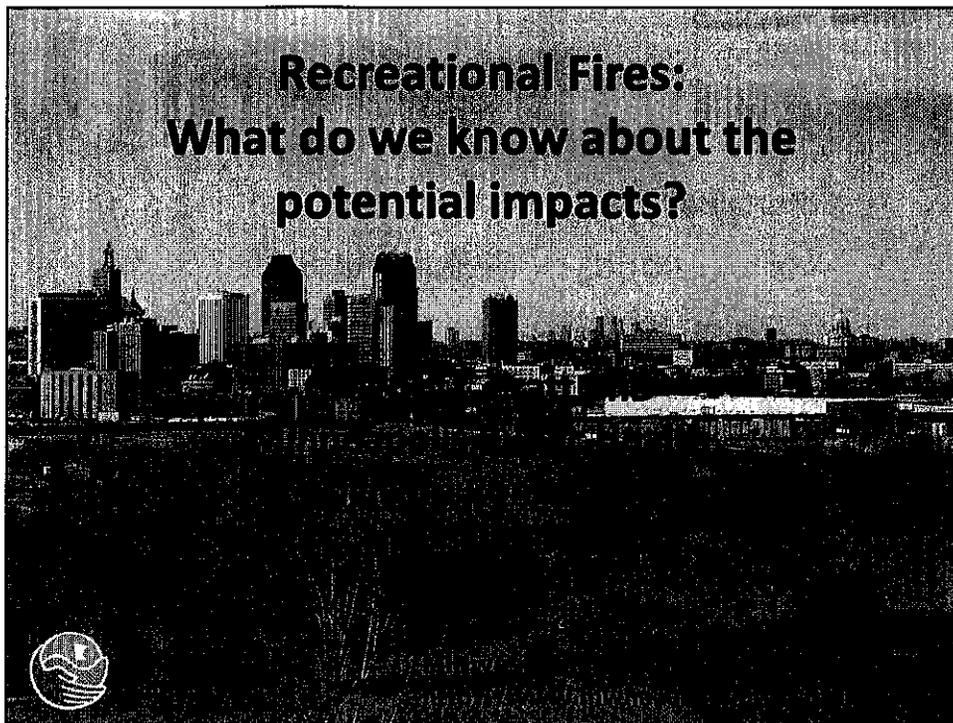
Sincerely,

John Schrom

John Schrom, Chair

City of Minneapolis' Public Health Advisory Committee

Julie Ring	Ward 1
Robin Schow	Ward 2
Patricia Hillmeyer	Ward 3
Saeng Kue	Ward 4
Tara Jensen	Ward 5
Dr. Happy Reynolds	Ward,6
Karen Soderberg	Ward 7
Abdullahi Sheikh	Ward 8
John Schrom	Ward 9
Robert Burdick	Ward 11
Autumn Chmielewski	Ward 12
Dr. Rebecca Thoman	Ward 13
Julie Young-Burns	Minneapolis Public Schools Representative
Jonathan Hanft	Hennepin County Human Services and Public Health Department
Samira Dini	Member at Large
Douglas Limon	Member at Large
Dan Brady	Member at Large



Recreational Fires: What do we know about the potential impacts?

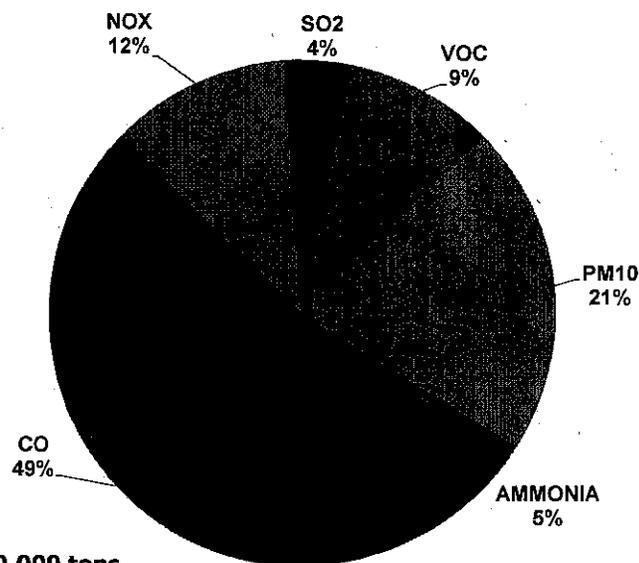
Air Pollutants

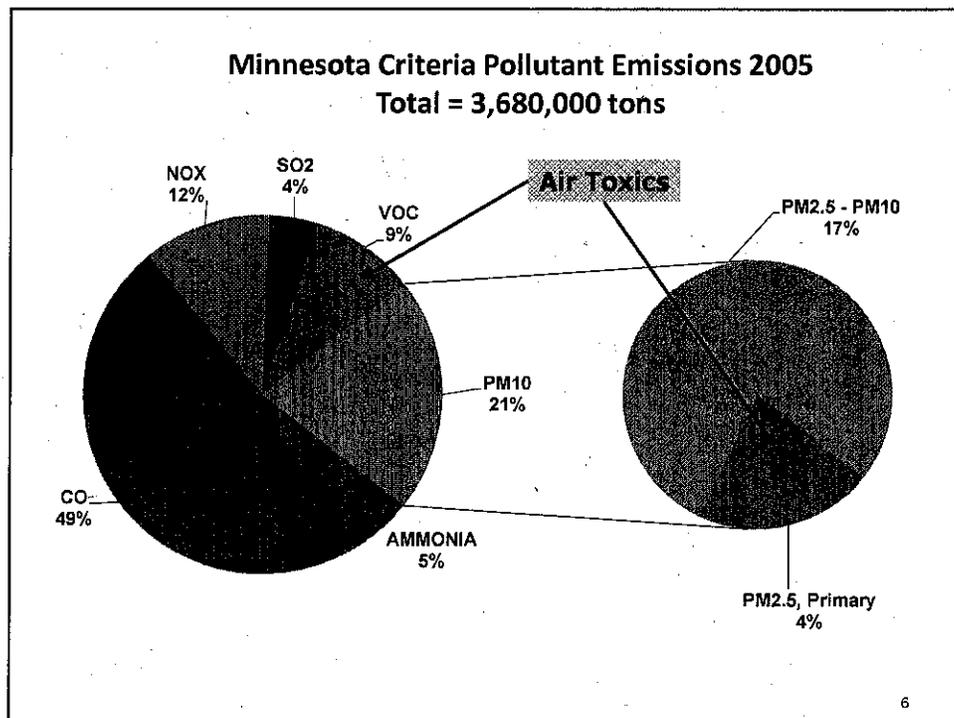
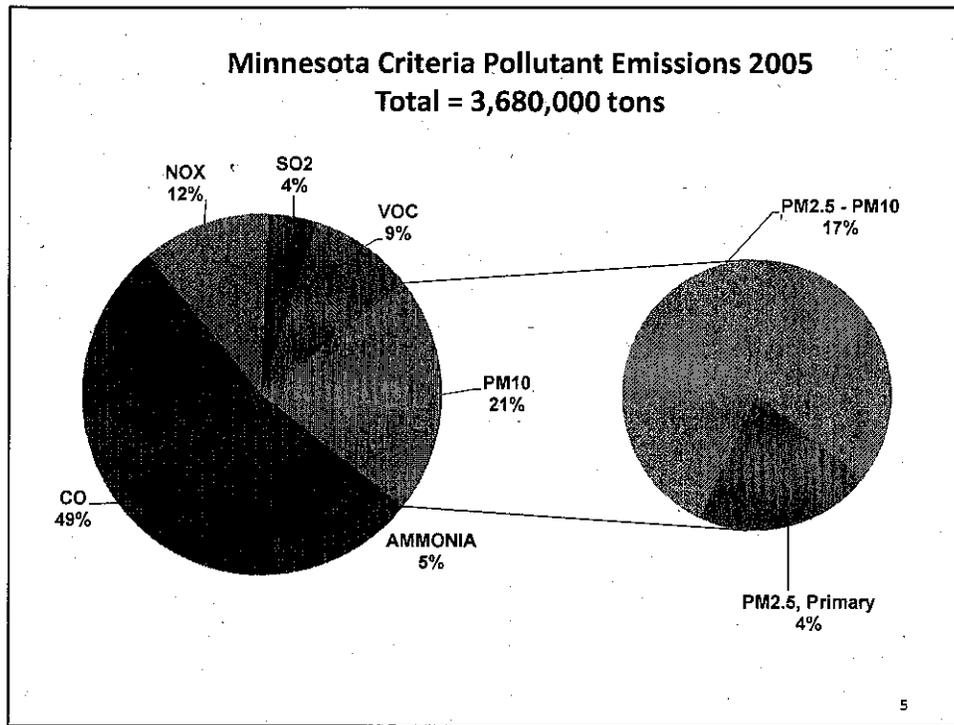
- **Criteria Pollutants (6):**
 - CO, SO₂, NO₂, O₃, Pb, Particulate Matter (PM₁₀ & PM_{2.5})
- **Air Toxics (1000s):**
 - Metals, Inorganics, VOCs, Semivolatiles (PAHs, dioxins)
 - 188 HAPs regulated in 1990 CAAAs
- **Others:**
 - CO₂, Heat, Noise, Water Vapor

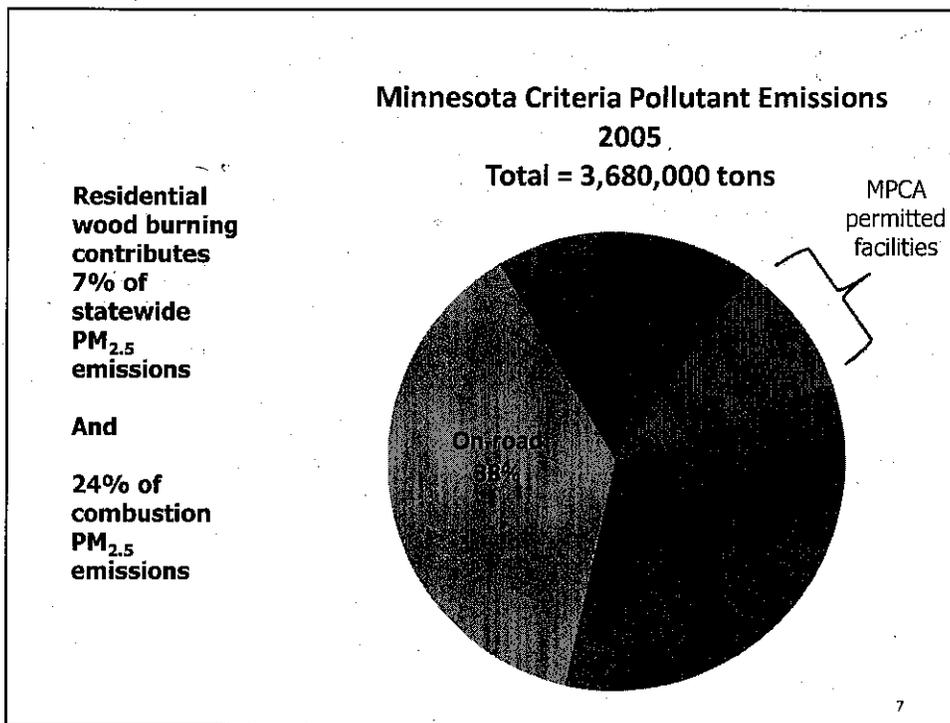
Important Air Pollutants from Recreational Fires

- **Criteria Pollutants (6):**
 - CO, SO₂, NO₂, O₃, Pb, Particulate Matter (PM₁₀ & PM_{2.5})
- **Air Toxics (1000s):**
 - Metals, Inorganics, VOCs, Semivolatiles (PAHs, dioxins)
 - 188 HAPs regulated in 1990 CAAAs
- **Others:**
 - CO₂, Heat, Noise, Water Vapor

Minnesota Criteria Pollutant Emissions 2005







Area & Mobile Source Subcategories

On Road Mobile Sources	Nonpoint (Area) Sources	
<p>Cars</p> <p>Buses</p> <p>Trucks</p>	<p>Agricultural Field Burning</p> <p>Agricultural Pesticide Use</p> <p>Agricultural Production - Animal Waste</p> <p>Agricultural Production - Fertilizer Application</p> <p>Agriculture Production - Crops, Tilling</p> <p>Animal Cremation</p> <p>Asphalt Paving</p> <p>Auto body Refinishing</p> <p>Commercial and Consumer Products Usage</p> <p>Commercial Cooking</p> <p>Domestic Animals - Waste Emissions</p> <p>Dry Cleaners</p> <p>Fluorescent Lamp Breakage</p> <p>Fluorescent Lamp Recycling</p> <p>Gasoline Service Stations</p> <p>Gasoline Trucks in Transit</p> <p>Grain Elevators</p> <p>Graphic Arts</p> <p>Hospital Sterilization</p> <p>Human Cremation</p>	<p>Human Perspiration</p> <p>Industrial Processes: Construction</p> <p>Industrial Surface Coating</p> <p>Mineral Processes: SIC 32</p> <p>Paved Roads</p> <p>Petroleum Bulk Stations/Terminals: Breathing</p> <p>Refrigeration</p> <p>Residential Fossil Fuel Combustion</p> <p>Residential Wood Burning</p> <p>Solvent Cleaning</p> <p>Stationary Fuel Combustion, Commercial/Institutional</p> <p>Stationary Source Fuel Combustion, Industrial</p> <p>Structure Fires</p> <p>Surface Coatings - Architectural</p> <p>Swimming Pools</p> <p>Tank/Drum Cleaning</p> <p>Traffic Markings</p> <p>Unpaved Roads</p> <p>Waste Disposal, Open Burning</p> <p>Waste Incineration</p> <p>Wild Animals - Waste Emissions</p>
Off Road Mobile Sources		
<p>Lawn & Garden Equipment</p> <p>Off Road Vehicles (e.g., ATVs)</p> <p>Snowmobiles</p> <p>Boats</p> <p>Planes</p> <p>Trains</p> <p>Construction Equipment</p> <p>Farm Equipment</p>		

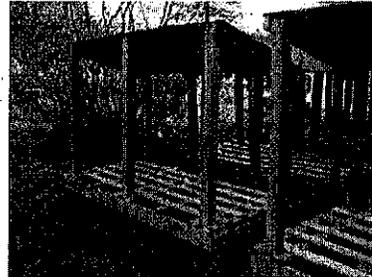
Factors in Combustion Emissions

- ✓ **Fuel type**
 - Solid
 - Liquid
 - Gas
- ✓ **Fuel condition**
 - Wet vs dry
 - Density
- ✓ **3-T's**
 - Time
 - Temperature
 - Turbulence

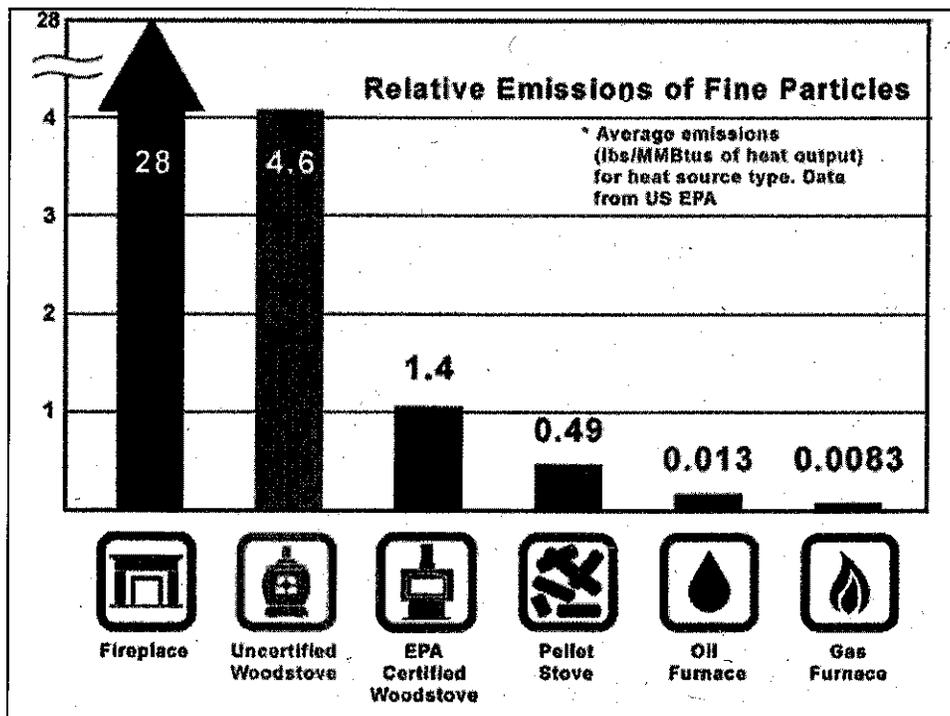
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Split, Stack, Cover and Store



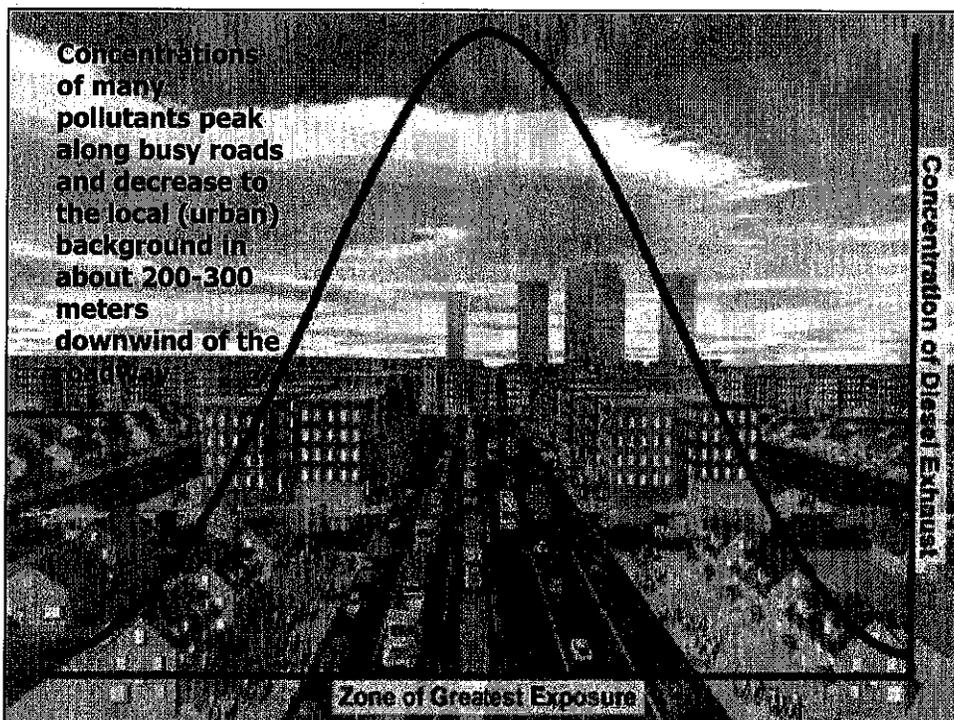
Adapted from EPA



- Particle aggregation
- Larger size particles (fewer particles)
- More complete combustion
- Pollution control equipment
- Plume dispersion

Lots of ultrafine particles with PICs emitted in the breathing zone

PIC — product of incomplete combustion

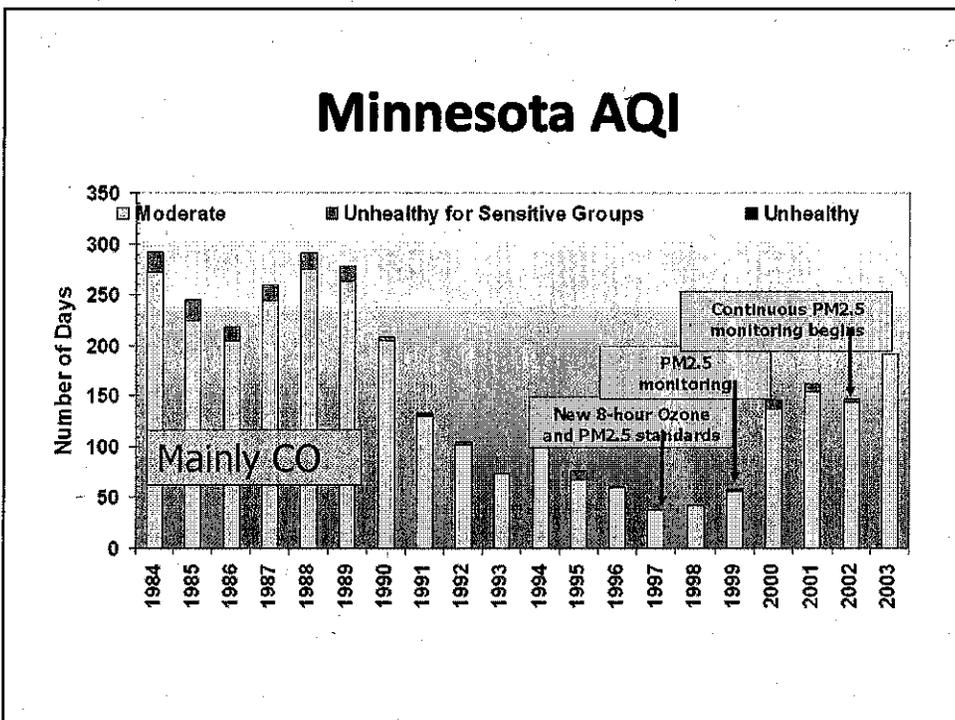
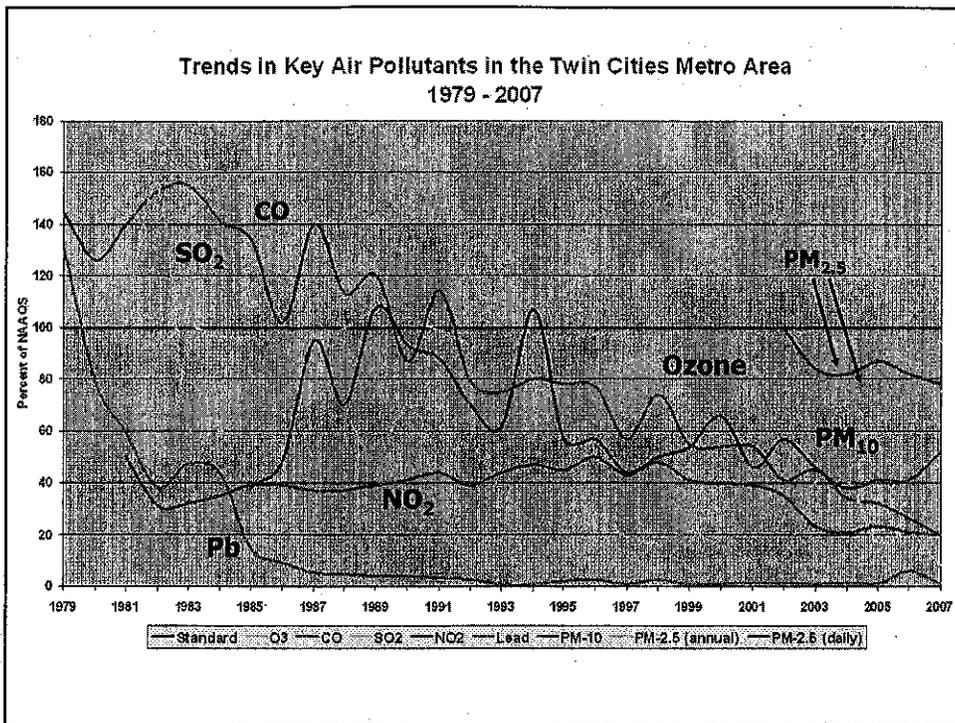


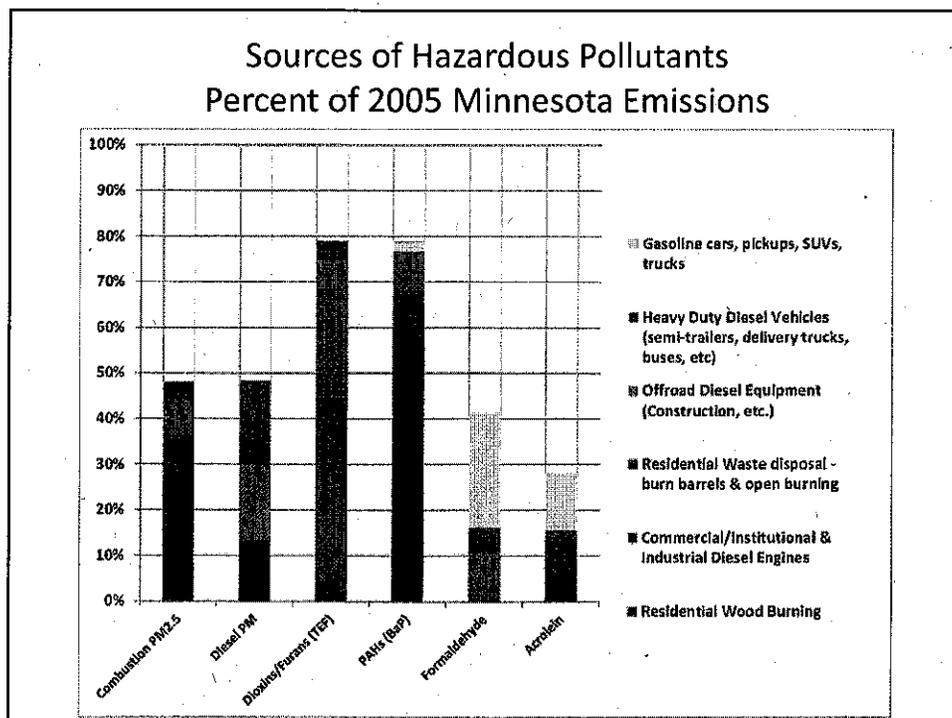
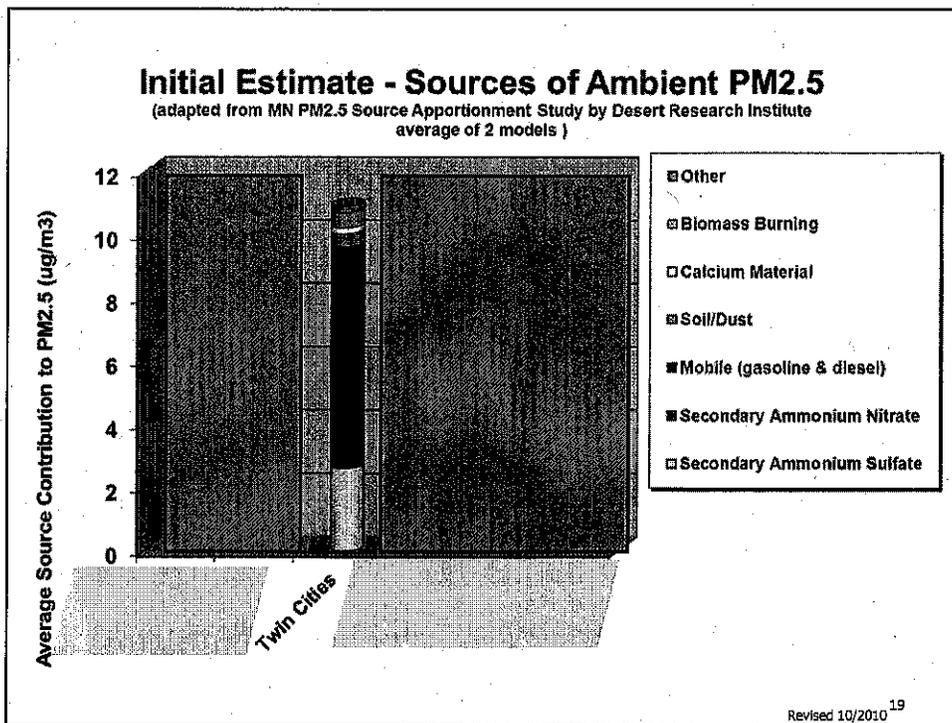
2 Ways to Get Information on Air Concentrations

- **Monitoring**
- **Modeling**

Monitoring

- **Advantages**
 - Best information at monitor site
("gold standard")
- **Disadvantages**
 - Expensive
 - Time-consuming
 - Limited species
 - Limited locations

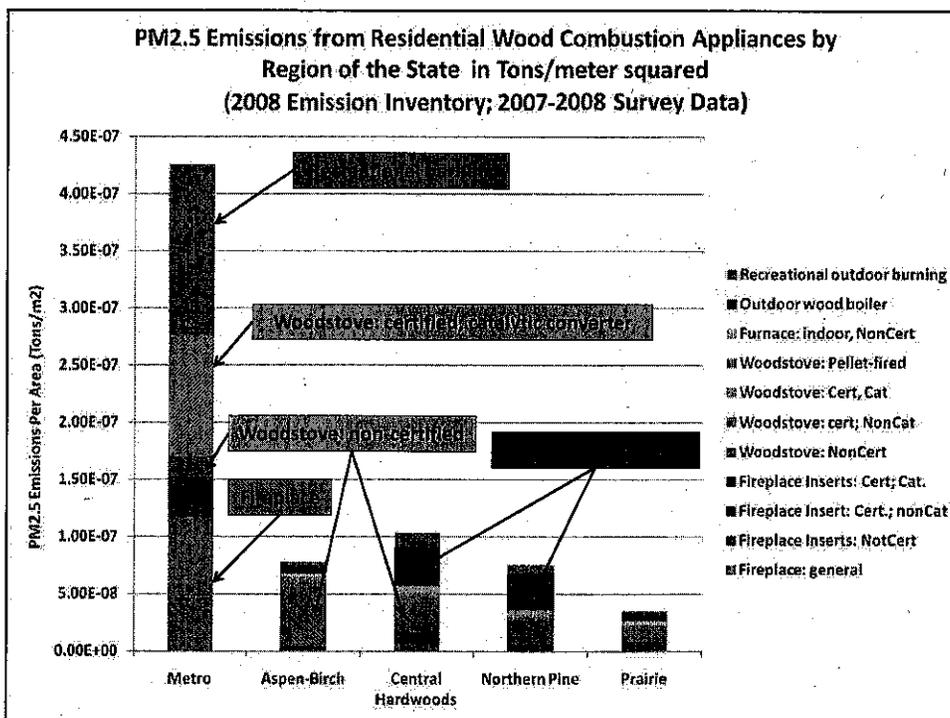


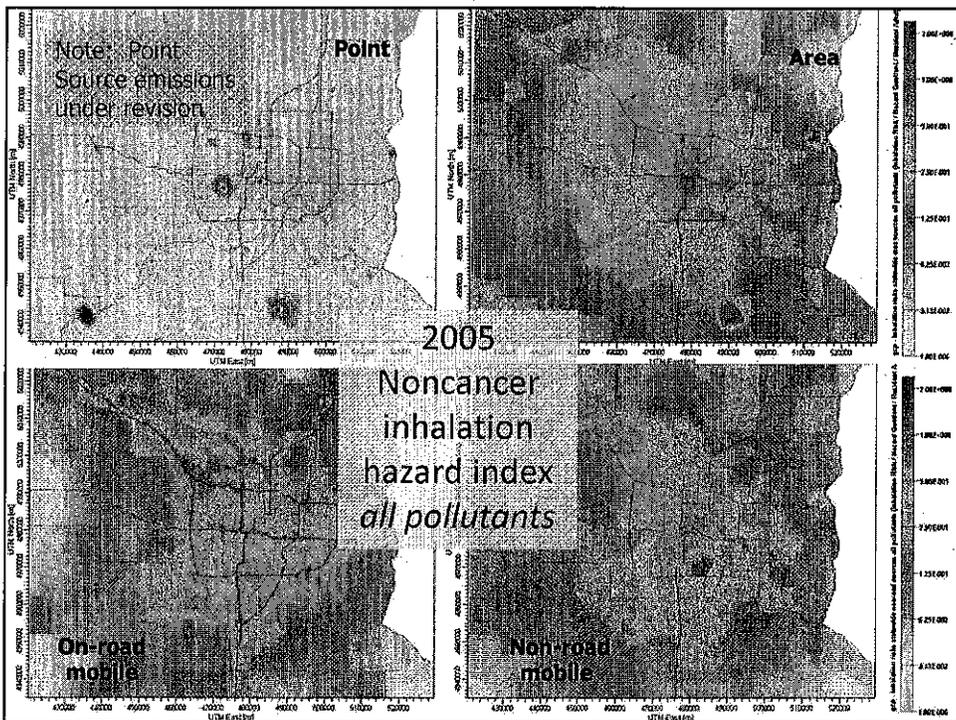
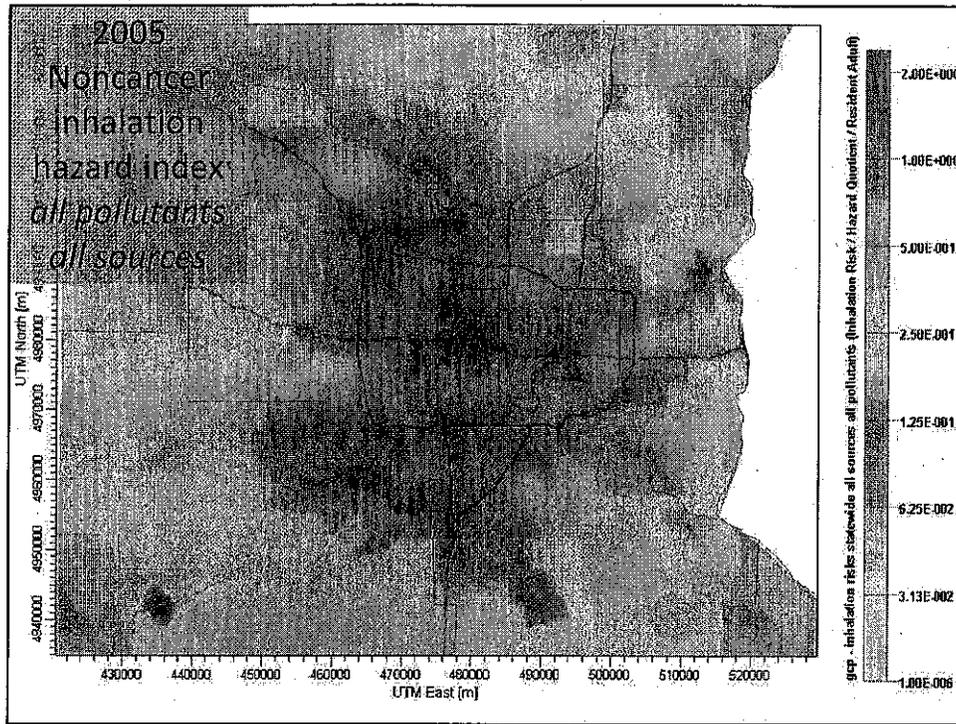


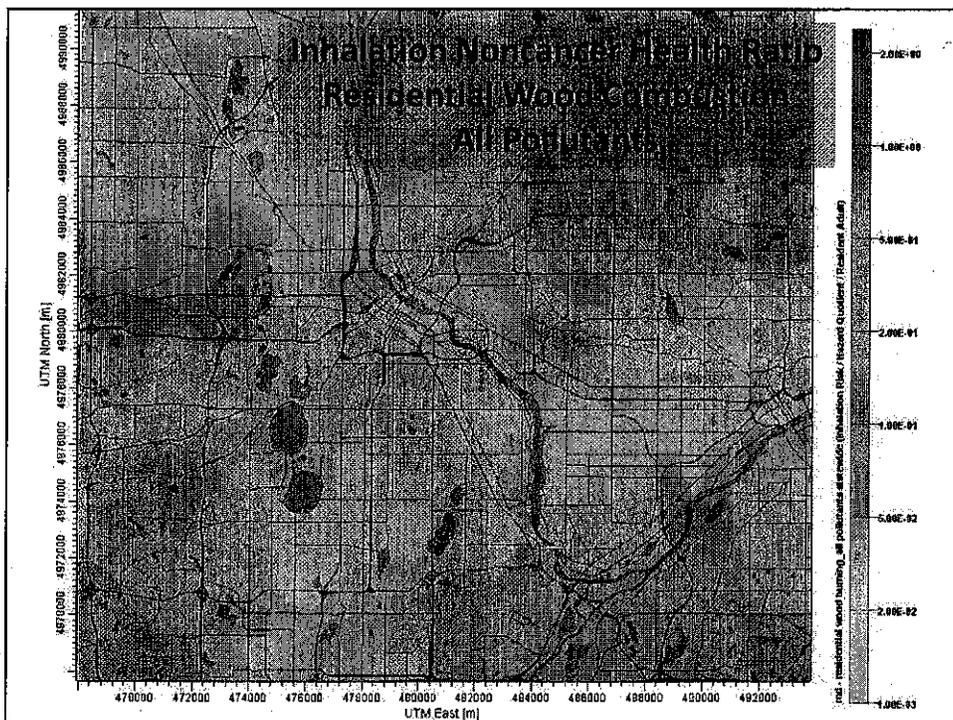
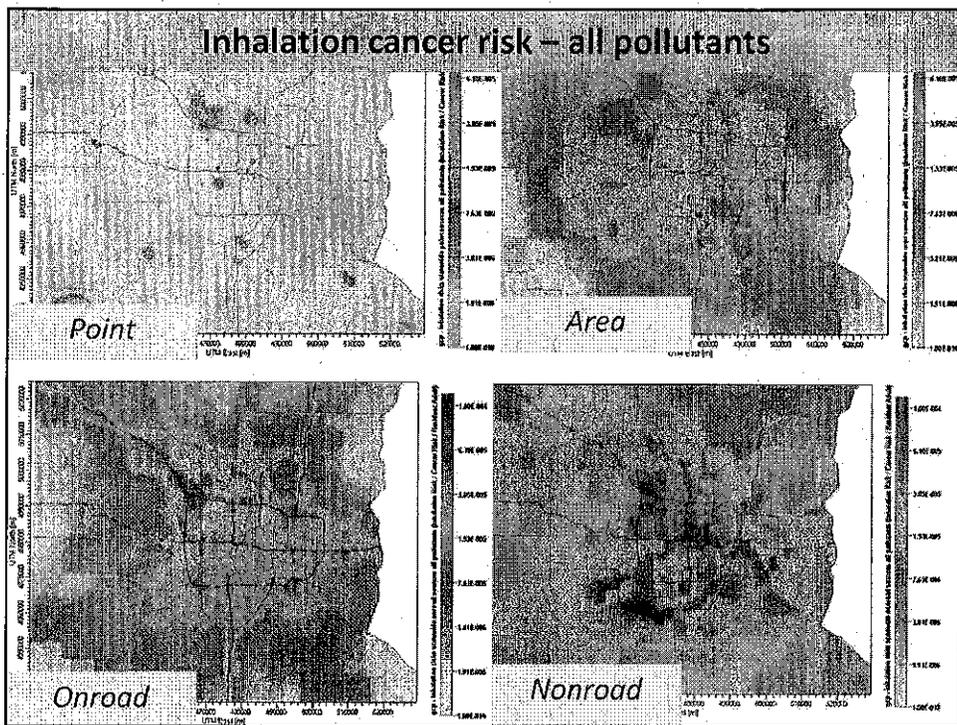
Residential Fuelwood Consumption in the Metro Region (2007 - 2008 Heating Season)

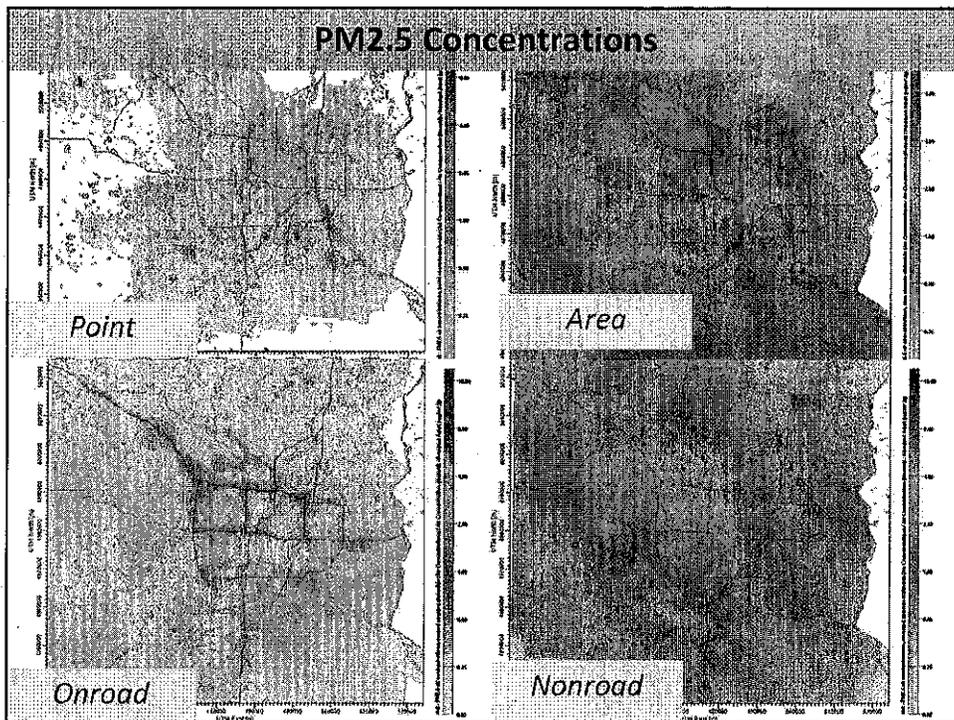
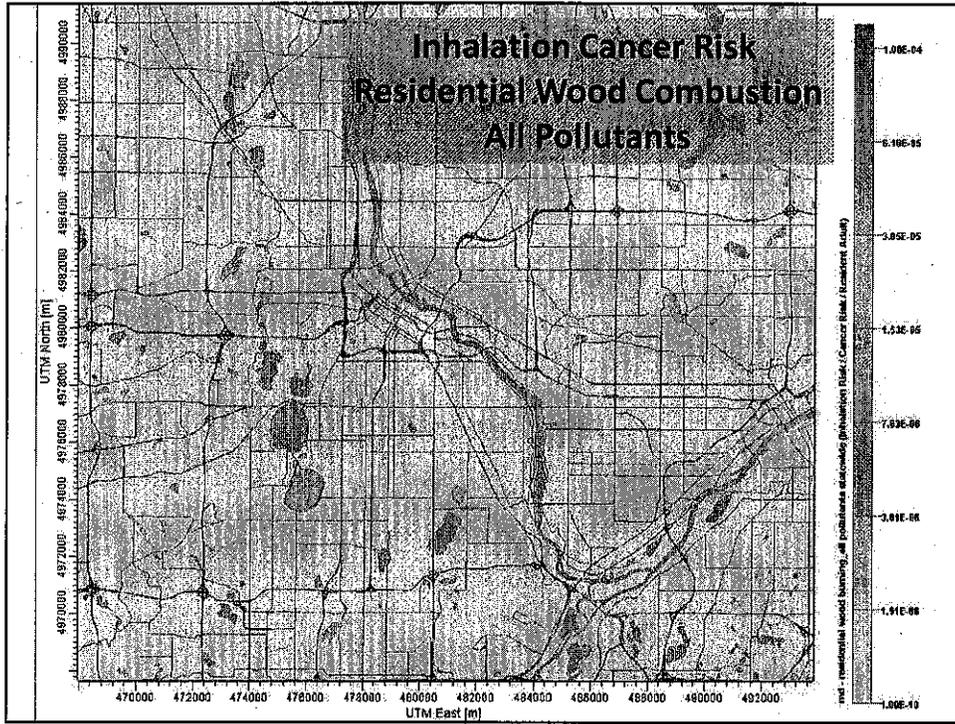
Type of facility	# Facilities	Volume (Cords)	Average Volume (Cords/ facility)
Wood Stove	32,176	61,906	1.92
Fireplace	50,563	18,254	0.36
Fireplace Insert	27,580	11,133	0.40
Fire Pit or Ring	128,705	48,477	0.38
Combination	137,898	77,329	0.56
Metro Total	376,921	217,098	0.58

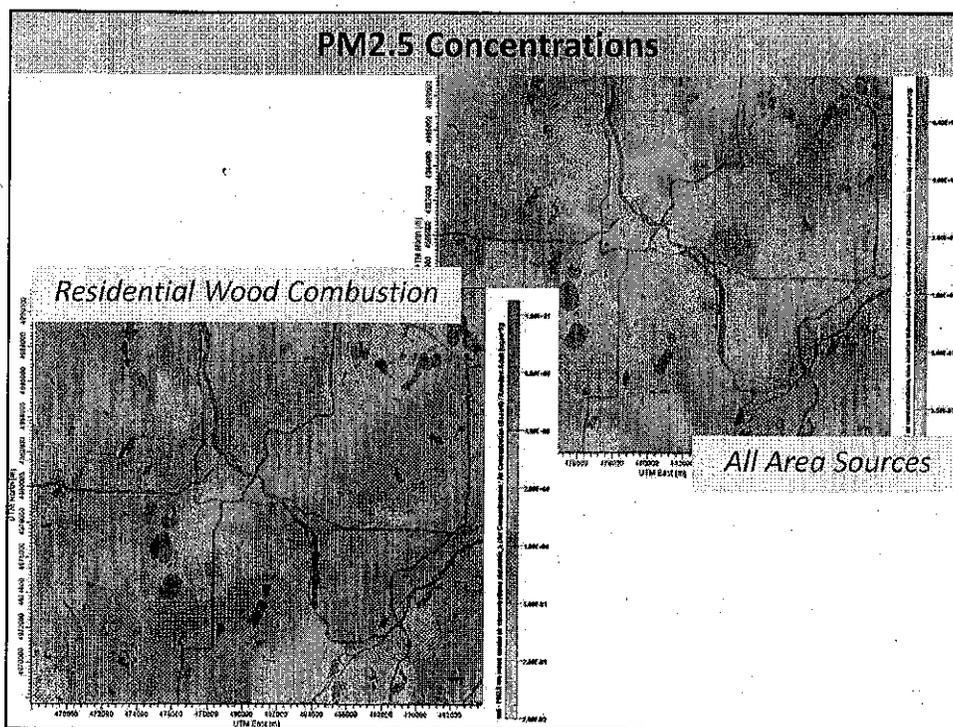
From: MN DNR Residential Fuelwood Assessment 2007-2008 (Table D)
http://files.dnr.state.mn.us/forestry/um/residentialfuelwoodassessment07_08.pdf











Categories Identified by MPCA for Strategic Reduction Plans

- Onroad gasoline vehicles, esp. high emitters
- Diesel vehicles
- Residential backyard burn barrels (garbage burning)
- Stationary diesel generators
- Residential wood smoke (fireplaces, outdoor wood boilers, wood stoves, backyard fires, ...)
- Open burning (brush, woody debris)

Strategies for Reducing Residential Wood Smoke

I. Education and Outreach

- a. Burn Wise Education and Outreach Campaign
- b. Air Quality Forecasts and Reports to the Public
- c. Burning garbage, treated wood, etc. is illegal & also produces hazardous chemicals
- d. Backyard campfires regulated under DNR open burning regulations (not too large, not close to buildings, able to extinguish, only in low winds).

II. Voluntary Programs

- a. Wood Stove and Fireplace Changeouts
- b. Hydronic Heaters
- c. Wood-burning Fireplaces

III. Regulatory Programs

- a. Wood Burning Curtailment Programs (total/in stagnant weather)
- b. Opacity Limits and Visible Emission Limits
- c. Wood Moisture Content
- d. Removal of Old Wood Stove Upon Re-Sale of a Home
- e. Installation of EPA-certified Wood Burning Appliances Only Allowed
- f. Ban the Use of Non-EPA-certified Wood Stoves
- g. Restrictions on Wood Burning Devices in New Construction
- h. Hydronic Heater Rules
- i. Wood-burning Fireplaces
- j. State/Local/Tribal Wood Heating Emission Standards
- k. New Source Performance Standards for Residential Wood Heating Appliances

EPA Resources for Residential Wood Combustion

- Burn Wise – Learn before you burn
 - Website not encouraging wood burning, rather is designed to help citizens switch to cleaner methods.
 - <http://www.epa.gov/burnwise/>
- Strategies for Reducing Residential Woodsmoke
 - <http://www.epa.gov/ttn/oarpg/t1/memoranda/strategies-doc-8-11-09.pdf>

Summary

- **Air pollution is a complex mixture of pollutants with multiple adverse effects**
- **Air quality has improved, but we are learning that health effects occur at lower levels (standards have become more stringent)**
- **Combustion is the biggest pollution source category**
- **Area and mobile sources are important – creating challenges for reducing emissions**
- **Recreational fires create local air quality problems (uncertainty about contribution to regional AQ)**

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