

SPACE HEATING IN THE COMOX VALLEY

November 19, 2020

Comox Valley Airshed Roundtable
Meeting

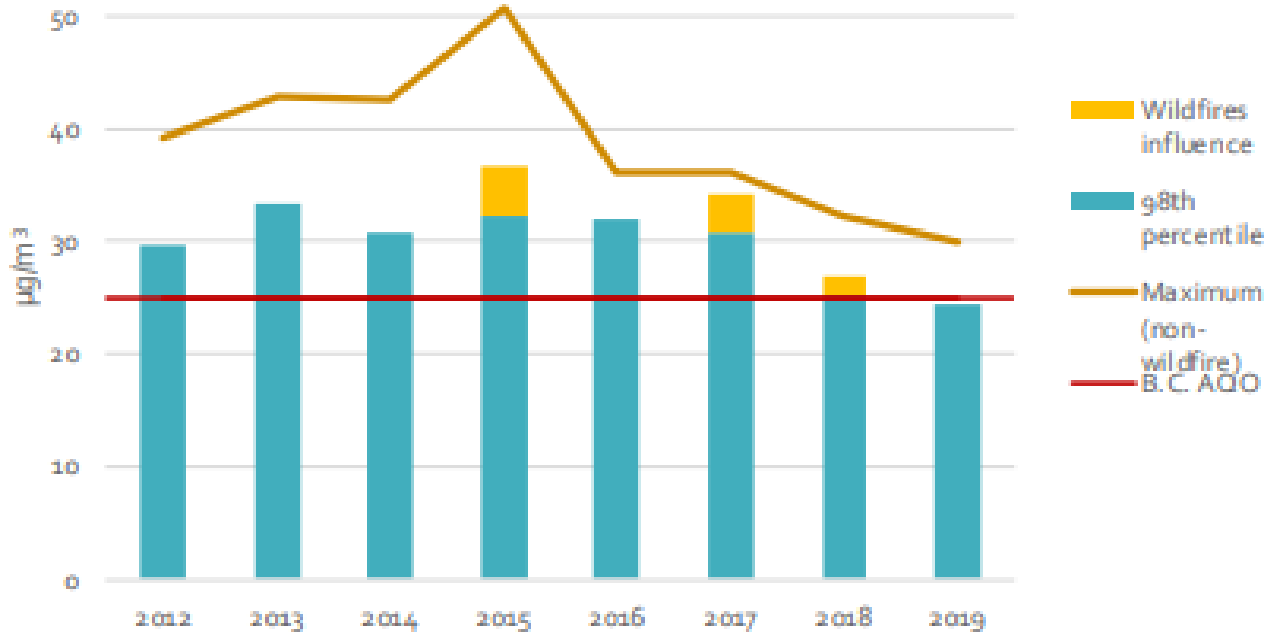
SPACE HEATING EMISSION TYPES



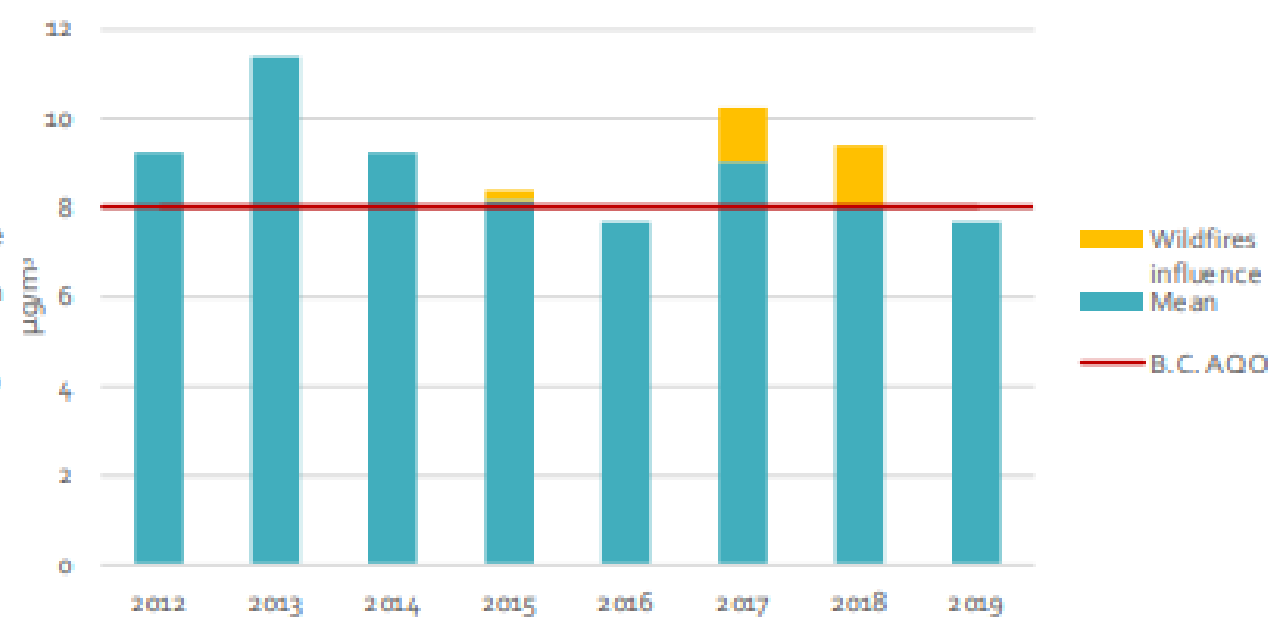
- Volatile organic compounds (VOCs)
- Polycyclic aromatic hydrocarbons
- Carbon monoxide (CO)
- Particulate matter (PM_{2.5})

AIR QUALITY STANDARDS

Courtenay Elementary PM2.5 24-hour Provincial AQO



Courtenay Elementary PM2.5 Annual Provincial AQO



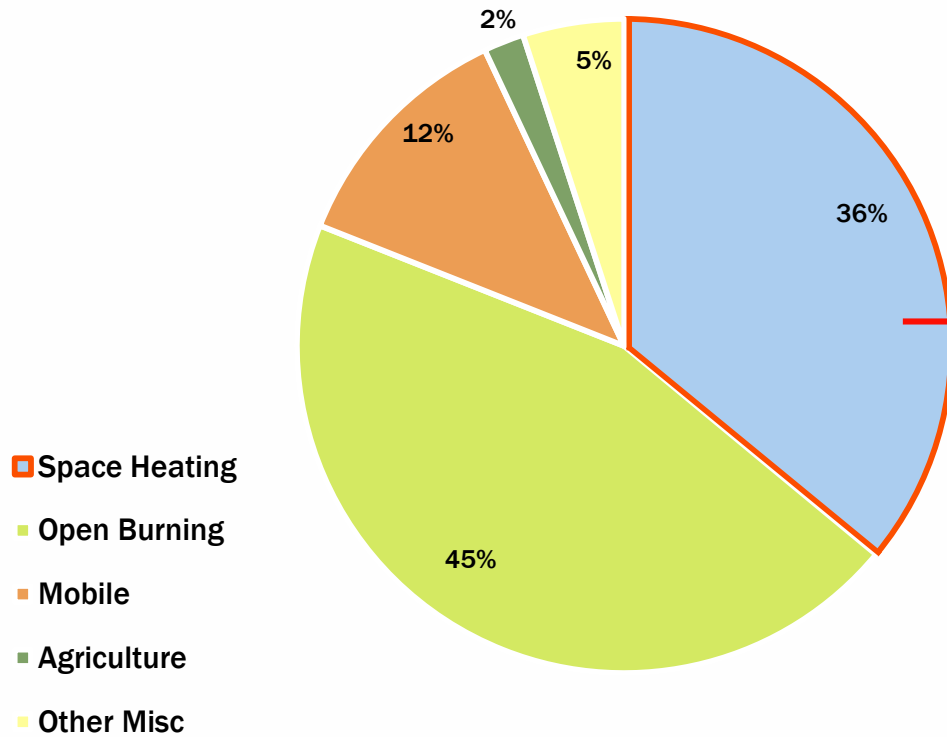
Federal CAAQS (µg/m³)	BC AQO (µg/m³)
28	25

Federal CAAQS (µg/m³)	BC AQO (µg/m³)
10	8

State of the Air Report (2020)

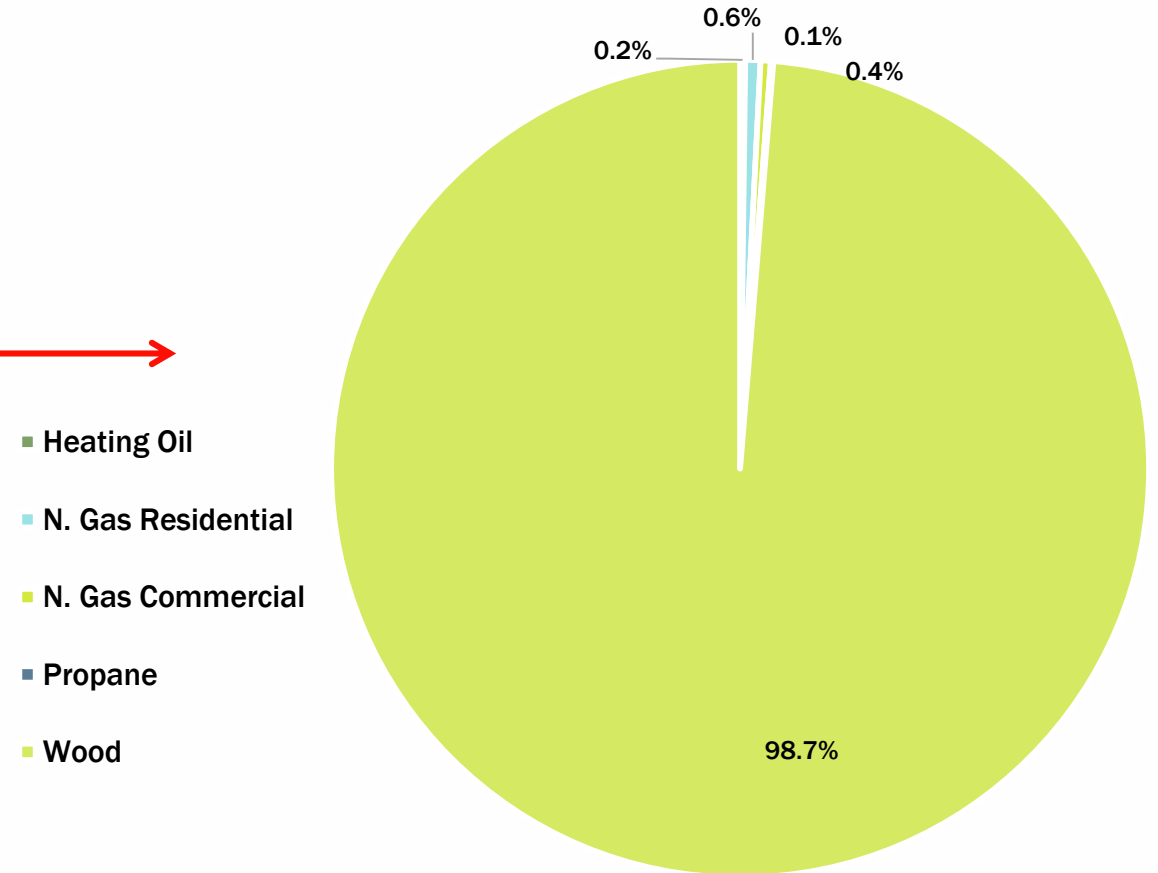
SPACE HEATING PM 2.5 EMISSIONS

Sources of PM2.5 in the Comox Valley 2015

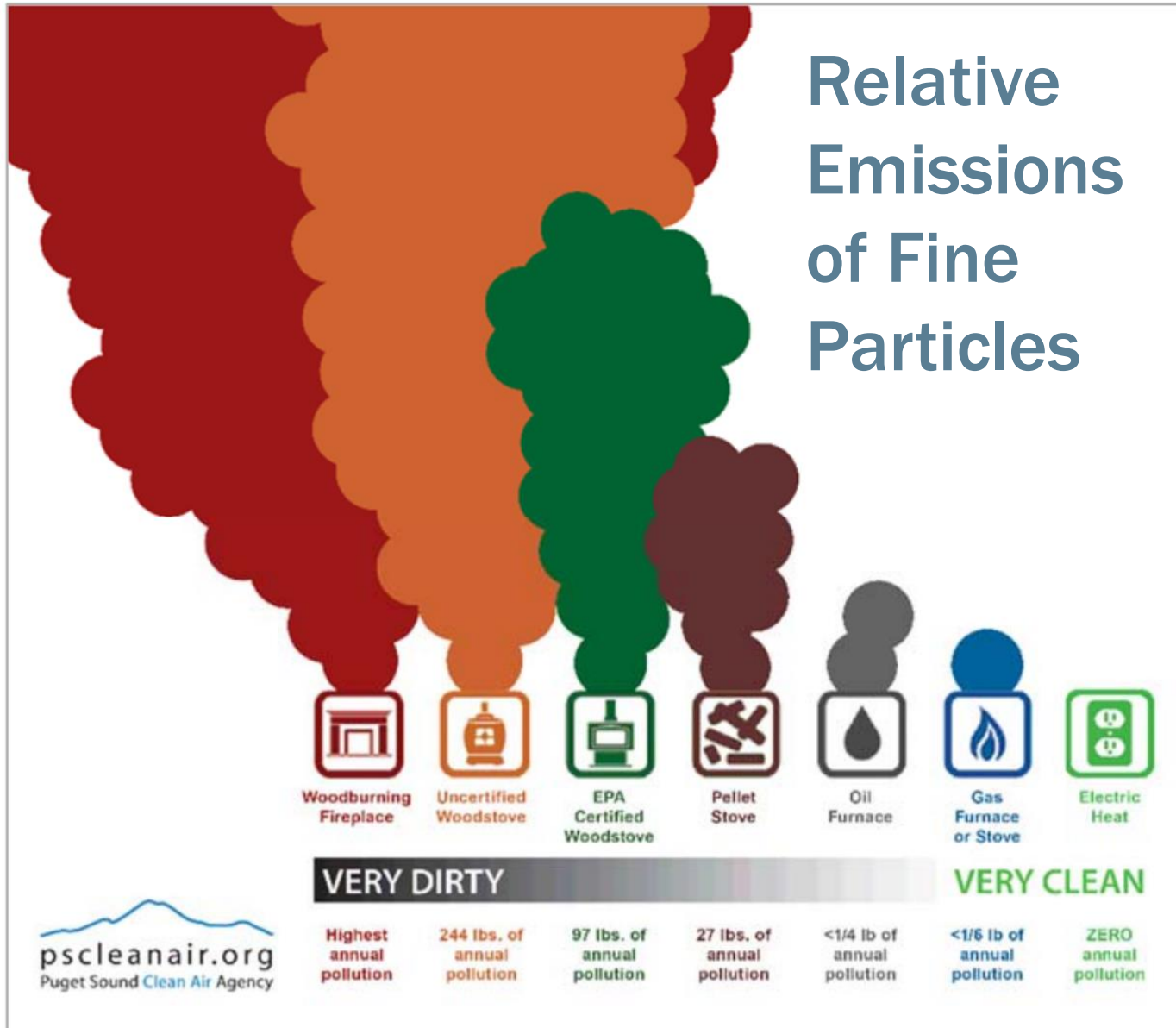


36 % of PM 2.5 contributed by Space Heating

PM2.5 Space Heating Emissions Breakdown 2015



Relative Emissions of Fine Particles



REGULATIONS, TOOLS & INITIATIVES

Federal

- Code of Practice for Residential Burning Appliances

- **CAAQS**
- **Education**
- **Model by-laws**

Provincial

- BC Solid Fuel Burning Domestic Appliance Regulation
- Clean BC Rebates
- MOE BC Lung Association WS Exchange Program
- BC MOE Air Quality Planning Tool

- **Regulation**
- **Education**
- **Monitoring**
- **AQO**
- **AQHI**
- **Rebates**

Municipal

- Wood Stove Installation By-Law
 - City of Courtenay
 - Town of Comox
 - Village of Cumberland

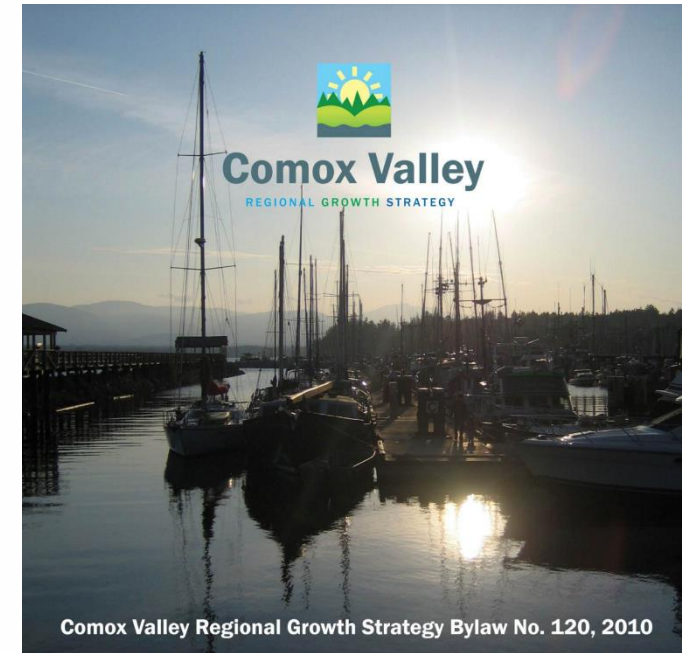
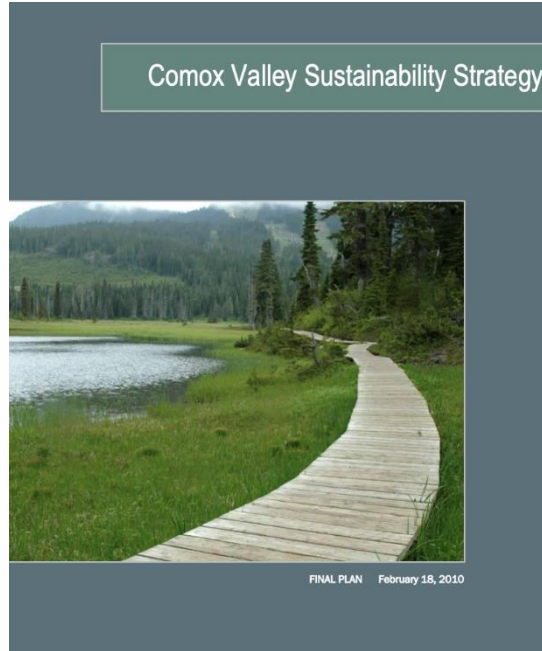
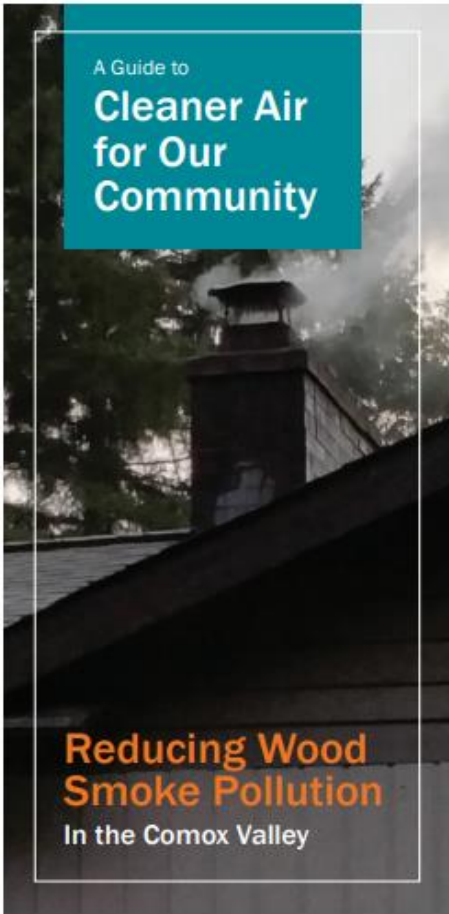
- **OCP Woodstove Regulation**

Community Groups

- Breathe Clean Air
- Comox Valley Community Foundation Vital Signs

- **Awareness**
- **Education**

CVRD CURRENT POLICIES AND PROGRAMS



CVRD REBATES

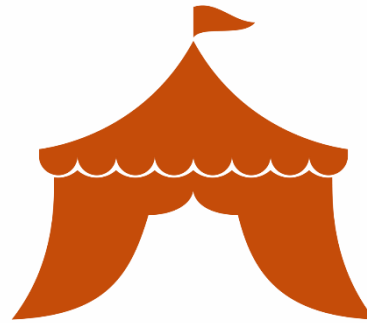
Clean BC Top Up Rebates	
Home Evaluation	\$ 100 - \$ 300
Heat Pumps	\$1000 - \$2000
Wood Smoke Reduction Program	
Wood Stove Exchange for cleaner appliance	\$ 700
Switch to Electric Pumps in Hot Spot Areas	\$2500

* Additional rebates available through Clean BC Better homes BC program for a limited time select rebates are doubled until December 21st 2020

WOOD SMOKE REDUCTION PROGRAM



Rebates



Events



Education



Advertising



Partnerships

CONCLUDING REMARKS

- Residential wood heating is a significant source of PM2.5 in the Valley. Emissions occur where people live, work and play. PM2.5 exposure causes health effects.
- New technology and rebate programs play a role in improving AQ by replacing old appliances with cleaner alternatives, as does public education, and regulation.
- Any reduction in PM2.5 is beneficial to the health of the community.

Earle Plain

Acting Head, Air Quality Section
Monitoring, Assessment and
Stewardship
Ministry of Environment & Climate
Change Strategy
Earle.plain@gov.bc.ca
250.739.8253

Charmaine Enns

MD, MHSc, FRCPC
Medical Health Officer
North Vancouver Island
charmaine.enns@viha.ca
250.331.8591

Daphne Mazarura

BURPI, MEL
Policy and Planning Analyst
dmazarura@comoxvalleyrd.ca
250.334.6091