

## Annexe B

**Tableau 6. Concentrations de polluants intérieurs et extérieurs lors d'épisodes de pollution atmosphérique issue de la combustion**

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Coker et al. 2025	Wildfire	2022 Wildfire Season: PM <sub>2.5</sub> median (IQR) ( $\mu\text{g}/\text{m}^3$ ): 5.47 (3.26 to 11.14)	2022 Wildfire Season: PM <sub>2.5</sub> median (IQR) ( $\mu\text{g}/\text{m}^3$ ): 4.48 (2.93 to 7.96)	2022 Wildfire Season: PM <sub>2.5</sub> median (IQR): 0.83 (0.60 to 1.12)	NR
		2023 Wildfire Season: PM <sub>2.5</sub> median (IQR) ( $\mu\text{g}/\text{m}^3$ ): 5.41 (3.30 to 10.34)	2023 Wildfire Season: PM <sub>2.5</sub> median (IQR) ( $\mu\text{g}/\text{m}^3$ ): 4.40 (2.91 to 7.51)	2023 Wildfire Season: PM <sub>2.5</sub> median (IQR): 0.82 (0.60 to 1.11)	
		Non-Wildfire Season: PM <sub>2.5</sub> median (IQR) ( $\mu\text{g}/\text{m}^3$ ): 4.57 (2.16 to 9.61)	Non-Wildfire Season: PM <sub>2.5</sub> median (IQR) ( $\mu\text{g}/\text{m}^3$ ): 4.31 (3.23 to 6.16)	Non-Wildfire Season: PM <sub>2.5</sub> median (IQR): 0.97 (0.58 to 1.73)	
Holder et al. 2025	Wildfire	2019 Season: PM <sub>2.5</sub> median (range) ( $\mu\text{g}/\text{m}^3$ ): 12.54 (9.41 to 17.16)	2019 Season: PM <sub>2.5</sub> median (range) ( $\mu\text{g}/\text{m}^3$ ): 9.68 (4.91 to 11.64)	2019 Season: PM <sub>2.5</sub> median (range): Building occupied 0.84 (0.56 to 1.12), Building unoccupied 0.75 (0.58, 1.14)	NR
		2020 Season: PM <sub>2.5</sub> median (range) ( $\mu\text{g}/\text{m}^3$ ): 71.16 (64.39 to 82.97)	2020 Season: PM <sub>2.5</sub> median (range) ( $\mu\text{g}/\text{m}^3$ ): 39.2 (22.73 to 61.61)	2020 Season: PM <sub>2.5</sub> median (range): Building occupied 0.59 (0.28 to 0.76), unoccupied 0.60 (0.27, 0.88)	

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Lee et al. 2024	Wildfire	PM <sub>2.5</sub> median (range) ( $\mu\text{g}/\text{m}^3$ ): Wildfire days 20.7 (3.8 to 144.6), Non-wildfire days 6.3 (1.0–35.2)	PM <sub>2.5</sub> median (range) ( $\mu\text{g}/\text{m}^3$ ): Wildfire days 14.4 (3.1 to 54.1), Non-wildfire days 4.3 (1.0–26.0)  CO <sub>2</sub> (ppm): Wildfire days 809.2, Non-wildfire days 689	PM <sub>2.5</sub> median (range): Wildfire days 0.64 (0.17 to 1.45), Non-wildfire days 0.76 (0.13–3.17)	NR
Prathibha et al. 2024	Wildfire and RWC	<b>Wildfire study</b> PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): Baseline 9.1 $\pm$ 8.4, DIY PAC 5.0 $\pm$ 1.7, commercial PAC 5.8 $\pm$ 3.1  <b>Wood stove study</b> PM <sub>2.5</sub> Mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): Baseline 38.1 $\pm$ 24.4, DIY PAC 60.1 $\pm$ 35.3, commercial PAC 58.5 $\pm$ 38.5	<b>Wildfire study</b> PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): Baseline 14.0 $\pm$ 13.9, DIY PAC 10.5 $\pm$ 13, commercial PAC 10.5 $\pm$ 8.9  <b>Wood stove study</b> PM <sub>2.5</sub> Mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): Baseline 34.1 $\pm$ 63.9, DIY PAC 23.1 $\pm$ 17.9, commercial PAC 22.6 $\pm$ 19.7	NR	<b>Wildfire study</b> PM <sub>2.5</sub> mean $\pm$ SD: Baseline 0.7 $\pm$ 0.2, DIY PAC 0.7 $\pm$ 0.2, commercial PAC 0.8 $\pm$ 0.2  <i>(Wildfire smoke exposure only during the baseline phase and was extinguished by rainfall)</i>  <b>Wood stove study</b> PM <sub>2.5</sub> mean $\pm$ SD: Baseline 0.7 $\pm$ 0.2, DIY PAC 0.6 $\pm$ 0.2, commercial PAC 0.6 $\pm$ 0.2  <i>(Calculated from PM-indoor data with indoor peaks removed and PM-outdoor data)</i>
Wheeler et al. 2024	Wildfire (prescribed burns)	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ ): No summary data provided, levels peaked at approximately 250	NR	NR	NR



Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Lunderberg et al. 2023	Wildfire	Median outdoor PM <sub>2.5</sub> concentrations increased to more than 20 µg/m <sup>3</sup>	Increased by about 4 µg/m <sup>3</sup> during a wildfire impacted month	NR	NR
Walker et al. 2023	Wildfire	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): wildfire period 36.8 ± 26.4, non-wildfire period 3.9 ± 3.0	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): wildfire period 15.9 ± 14.7, non-wildfire period 3.6 ± 5.2		PM <sub>2.5</sub> mean (95% CI): wildfire period 0.32 (0.28, 0.36), non-wildfire period 0.39 (0.37, 0.42)  <i>(Calculated from I/O ratio with indoor peaks removed)</i>
Willis et al. 2023	Wildfire	PM <sub>2.5</sub> mean (µg/m <sup>3</sup> ): 1) Homeless shelter 42.17 2) Senior assisted living 44.79 3) School: 42.65	PM <sub>2.5</sub> mean (µg/m <sup>3</sup> ) 1) Homeless shelter: PAC 22.67, no PAC 31.52 2) Senior assisted living complex: PAC 21.95, no PAC 35.88 3) School: PAC 30.66, no PAC 37.20	PM <sub>2.5</sub> mean: 1) Homeless shelter: PAC 0.54, no PAC 0.75 2) Senior assisted living complex: PAC 0.49, no PAC 0.8 3) School: PAC 0.72, no PAC 0.87	NR

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Burke et al. 2022	Wildfire	NR	<p>No smoke: Median outdoor <math>PM_{2.5}</math> concentrations (<math>6 \mu\text{g}/\text{m}^3</math>), infiltration declines by 0.0281 per <math>10 \mu\text{g}/\text{m}^3</math> increase in outdoor <math>PM_{2.5}</math> (95% CI, -0.02925, -0.02810; <math>P &lt; 0.001</math>).</p> <p>Smoke present: infiltration declines by 0.0209 per <math>10 \mu\text{g}/\text{m}^3</math> increase in outdoor <math>PM_{2.5}</math> (95% CI, -0.02141, -0.02043; <math>P &lt; 0.001</math>)</p>	NR	NR
Ghetu et al. 2022	Wildfire	<p>Average outdoor vapour-phase LMW PAH concentrations were three times higher during wildfires than before (not significant)</p> <p>Average outdoor vapour-phase HMW PAH concentrations were 86 times higher during wildfires than before (significant at most locations)</p>	<p>Average indoor vapour-phase LMW PAH concentrations were three times higher during wildfires than before (not significant)</p> <p>Average indoor vapour-phase HMW PAH concentrations were six times higher during wildfires than before (not significant)</p>	<p>Indoor vapour-phase PAH concentrations were significantly higher than outdoor concentrations before wildfires (8/9 locations), and significantly higher than outdoor concentrations at locations with an average AQI of less than 115 during wildfires</p> <p>Outdoor HMW PAH concentrations exceeded indoor concentrations at locations with an average AQI exceeding 115</p>	NR

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
He et al. 2022	Wildfire	PM <sub>2.5</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 108.8 PAC & HVAC, 112.9 no filtration	PM <sub>2.5</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 57.4 PAC & HVAC, 92 no filtration	PM <sub>2.5</sub> mean: 0.43 PAC & HVAC, 0.82 no filtration	NR
Montrose et al. 2022	Wildfire	PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 56.1 $\pm$ 46.5 wildfire days, 4.9 $\pm$ 4.8 non-wildfire days	PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 31.1 $\pm$ 32.3 wildfire days, 1.3 $\pm$ 1.9 non-wildfire days	PM <sub>2.5</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 0.56 wildfire days, 0.27 non-wildfire days	PM <sub>2.5</sub> mean (95% CI): 0.59 (0.49, 0.71) wildfire days, 0.29 (0.28, 0.30) non-wildfire days  <i>(Calculated from paired I/O ratio data with indoor peaks removed)</i>

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
O'Dell et al. 2022	Wildfire	<p>PM<sub>2.5</sub> median (<math>\mu\text{g}/\text{m}^3</math>): Smoke Days: San Francisco - 21.37 Los Angeles - 24.4 Seattle &amp; Portland - 23.54 Salt Lake City - 18.27 Denver - 16.69</p> <p>Smoke-free Days San Francisco - 5.22 Los Angeles - 7.09 Seattle &amp; Portland - 4.07 Salt Lake City - 4.91 Denver - 5.15</p>	<p>PM<sub>2.5</sub> median (<math>\mu\text{g}/\text{m}^3</math>): Smoke Days San Francisco - 8.87 Los Angeles - 10.88 Seattle &amp; Portland - 6.8 Salt Lake City - 7.58 Denver - 9.88</p> <p>Smoke-free Days San Francisco - 4.83 Los Angeles - 5.29 Seattle &amp; Portland - 4.52 Salt Lake City - 4.65 Denver - 5.51</p> <p>Median indoor PM<sub>2.5</sub> 82% (IQR: 43%–135%) or 4.3 <math>\mu\text{g}/\text{m}^3</math> (IQR: 2.0–7.2 <math>\mu\text{g}/\text{m}^3</math>) higher on smoke-impacted days</p>	<p>PM<sub>2.5</sub>: Smoke Days San Francisco - 0.39 Los Angeles - 0.44 Seattle &amp; Portland - 0.17 Salt Lake City - 0.43 Denver - 0.58</p> <p>Smoke-free Days San Francisco - 0.95 Los Angeles - 0.81 Seattle &amp; Portland - 1.2 Salt Lake City - 0.93 Denver - 1.0</p>	NR

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Dev et al. 2021	Wildfire	<p>PM<sub>0.3-10</sub> mean ± SD (µg/m<sup>3</sup>)</p> <p>1) University: wildfire period 90.8 ± 13.32, non-wildfire period 8.3</p> <p>2) House A: wildfire period 114.15 ± 8.85, non-wildfire period 6.3</p> <p>3) House B: wildfire period 59.1 ± 9.2, non-wildfire period 5.1</p> <p>PM<sub>0.3-10</sub> number concentration mean ± SD (number/cm<sup>3</sup>)</p> <p>1) University: wildfire period 1589.9 ± 202.2, non-wildfire period 8.3 ± 0.71</p> <p>2) House A: wildfire period 1583.6 ± 16.35, non-wildfire period 6.5 ± 0.39</p> <p>3) House B: wildfire period 1184.8 ± 24.2, non-wildfire period 5.3 ± 0.3</p>	<p>PM<sub>0.3-10</sub> mean ± SD (µg/m<sup>3</sup>)</p> <p>1) University: wildfire period 33.5 ± 1.08, non-wildfire period 11.7</p> <p>2) House A: wildfire period 16.7 ± 2.54, non-wildfire period 5.5</p> <p>3) House B: wildfire period 26.1 ± 1.78, non-wildfire period 4.4</p> <p>PM<sub>0.3-10</sub> number concentration mean ± SD (number/cm<sup>3</sup>)</p> <p>1) University: wildfire period 1195.1 ± 19.9, non-wildfire period 8.02 ± 1.04</p> <p>2) House A: wildfire period 206.9 ± 3.71, non-wildfire period 10.6 ± 0.55</p> <p>3) House B: wildfire period 721.7 ± 13.49, non-wildfire period 6.8 ± 0.39</p>	<p>PM<sub>0.3-10</sub> mean ± SD</p> <p>1) University: wildfire period 0.37 ± 0.06, non-wildfire period 1.7 ± 0.3</p> <p>2) House A: wildfire period 0.14 ± 0.01, non-wildfire period 0.6 ± 0.37</p> <p>3) House B: wildfire period 0.44 ± 0.04, non-wildfire period 1 ± 0.96</p> <p>PM<sub>0.3-10</sub> number concentration mean ± SD</p> <p>1) University: wildfire period 0.76 ± 0.11, non-wildfire period 1 ± 0.17</p> <p>2) House A: wildfire period 0.13 ± 0.001, non-wildfire period 1.6 ± 0.18</p> <p>3) House B: wildfire period 0.61 ± 0.02, non-wildfire period 1.3 ± 0.03</p>	NR
Liang et al. 2021	Wildfire	<p>Non-fire days:</p> <p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): 9.1 ± 4.0</p> <p>Fire days:</p> <p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): 45.4 ± 17.0</p>	<p>Non-fire days:</p> <p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): 4.1 ± 2.5</p> <p>Fire days:</p> <p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): 11.1 ± 8.3</p>	<p>Non-fire days:</p> <p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): 0.9 ± 0.88</p> <p>Fire days:</p> <p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): 0.41 ± 0.44</p>	<p>Non-fire days:</p> <p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): 0.45 ± 0.15</p> <p>Fire days:</p> <p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): 0.27 ± 0.14</p>



Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
May et al. 2021	Wildfire	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): 127 ± 9	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ) 1) Room A: PAC on 28 ± 2, PAC off 64 ± 2 2) Room B: PAC on 0.4 ± 0.4, PAC off 40 ± 2	PM <sub>2.5</sub> mean 1) Room A: PAC on 0.22, PAC off 0.50 2) Room B: PAC on 0.003, PAC off 0.31	NR
Mendoza et al. 2021	Wildfire	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): no summary data reported	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): no summary data reported	I/O ratio of readings significant (p < 0.001), Indoor concentration 78% of outdoor during wildfire, 29% during normal weekday	NR
Wheeler et al. 2021	Wildfire	PM <sub>2.5</sub> median (25%–75%) (µg/m <sup>3</sup> ): PACs on 23.3 (12.0–49.1), PACs off 30.7 (12.2–85.9)	PM <sub>2.5</sub> median (25%–75%) (µg/m <sup>3</sup> ): PACs on 5.7 (5.5–8.5), PACs off 20.0 (10.5–39.0)	NR	$F_{inf}$ PM <sub>2.5</sub> median (25%–75%) (µg/m <sup>3</sup> ): PACs on 0.17, PACs off 0.32  Calculated from paired I/O data with indoor peaks removed
Xiang et al. 2021	Wildfire	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): 64 ± 17	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): PAC 14 ± 7, PAC off 47 ± 24	NR	PM <sub>2.5</sub> mean ± SD: PAC 0.19 ± 0.09, PAC off 0.56 ± 0.13  <i>(Estimated based on PM<sub>2.5</sub> mass balance models)</i>
Stauffer et al. 2020	Wildfire	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): 17.47 ± 13.07	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ) Daytime: PAC on 2.95 ± 2.39, PAC off 11.09 ± 9.70 Nighttime: PAC on 0.50 ± 0.39, PAC off 6.55 ± 7.10	NR	NR

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Kaduwela et al. 2019	Wildfire	PM number concentration: no summary data reported  CO <sub>2</sub> (ppm): no summary data reported	PM number concentration: no summary data reported  CO <sub>2</sub> (ppm): no summary data reported	NR	NR
Messier et al. 2019	Wildfire	No summary data reported	No summary data reported	I/O ratios not reported, indoor median and maximum concentrations $\geq$ than outdoor for most individual PAHs	NR
Reisen et al. 2019	Wildfire and RWC	Prescribed Burns: PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 101.5 $\pm$ 83.28  RWC: PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 18.54 $\pm$ 6.46	Prescribed Burns: PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 73.35 $\pm$ 66.75  RWC: PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 9.06 $\pm$ 3.09	Median PM <sub>2.5</sub> I/O range: 0.13 to 2.9	Prescribed Burns: PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 0.58 $\pm$ 0.19  RWC: PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 0.30 $\pm$ 0.13

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Shrestha et al. 2019	Wildfire	<p>PM<sub>0.5-2.5</sub> median (range) (#/cm<sup>3</sup>) Wildfire plume density: none 3.36 (0.240–224), low 4.81 (0.650–58.3), medium 7.49 (0.750–168), high 24.9 (8.44–165)</p> <p>BC median (range) (ng/m<sup>3</sup>) Wildfire plume density: none 590 (98.3–6900), low 745 (97.0–8280), medium 857 (54.5–39100), high 948 (176–21500)</p> <p>CO median (range) (ppm) Wildfire plume density: none 0.224 (0–4.10), low 0.206 (0–14.0), medium 0.253 (0–1.90), high 0.278 (0–2.80)</p> <p>NO<sub>2</sub> median (range) (ppb) Wildfire plume density: none 5.56 (4.48–9.24), low 9.60 (6.55–11.1), medium 9.39 (7.19–10.2), high 12.9 (5.21–20.6)</p>	<p>PN<sub>0.5-2.5</sub> median (range) (#/cm<sup>3</sup>) Wildfire plume density: none 2.15 (0.140–44.8), low 3.25 (0.280–52.4), medium 6.42 (0.710–563), high 9.85 (4.08–30.4)</p> <p>BC median (range) (ng/m<sup>3</sup>) Wildfire plume density: none 422 (82.3–3490) low 568 (144–4700), medium 632 (83.3–5080), high 495 (98.3–4320)</p> <p>CO median (range) (ppm) Wildfire plume density: none 0.526 (0–3.23), low 0.605 (0–10.5), medium 0.528 (0–5.30), high 0.88 (0.26–4.46)</p> <p>NO<sub>2</sub> median (range) (ppb) Wildfire plume density: none 6.39 (3.58–10.1), low 11.8 (8.00–13.8), medium 8.96 (6.48–11.9), high 10.1 (6.73–13.4)</p>	<p>PN<sub>0.5-2.5</sub> median (range) (#/cm<sup>3</sup>) Wildfire plume density: none 0.81, low 0.80, medium 1.06, high 0.80</p> <p>BC median (range) (ng/m<sup>3</sup>) Wildfire plume density: none 0.72, low 0.76, medium 0.75, high 0.57</p> <p>CO median (range) (ppm) Wildfire plume density: none 5.01, low 3.96, medium 2.70, high 4.13</p> <p>NO<sub>2</sub> median (range) (ppb) Wildfire plume density: none 1.18, low 1.03, medium 1.17, high 1.01</p>	<p>PN<sub>0.5-2.5</sub> median (range) (#/cm<sup>3</sup>) Wildfire plume density: none 0.64, low 0.68, medium 0.86, high 0.40</p> <p>BC median (range) (ng/m<sup>3</sup>) Wildfire plume density: none 0.72, low 0.80, medium 0.74, high 0.52</p> <p>CO median (range) (ppm) Wildfire plume density: none 2.35, low 2.94, medium 2.09, high 3.17</p> <p>NO<sub>2</sub> median (range) (ppb) Wildfire plume density: none 1.14, low 1.22, medium 0.96, high 0.78</p> <p><i>(Calculated from I/O ratio with indoor peaks removed)</i></p>

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Barn et al. 2008	Wildfire and RWC	<p><b>Wildfire smoke</b> PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): PAC on 11.4 ± 10.0, PAC off 10.6 ± 6.8</p> <p><b>RWC</b> PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): PAC on 18.7 ± 19.4, PAC off 16.2 ± 14.2</p>	<p><b>Wildfire smoke</b> PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): PAC on 4.9 ± 1.6, PAC off 8.2 ± 5.0</p> <p><b>RWC</b> PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>): PAC on 3.9 ± 8.6, PAC off 5.8 ± 7.0</p>	NR	<p><b>Wildfire smoke</b> PM<sub>2.5</sub> mean ± SD: PAC on 0.19 ± 0.2, PAC off 0.61 ± 0.27</p> <p><b>RWC</b> PM<sub>2.5</sub> mean ± SD: PAC on 0.10 ± 0.08, PAC off 0.28 ± 0.18</p> <p><i>(Calculated from paired I/O data with indoor peaks removed)</i></p>
Henderson et al. 2005	Wildfire	<p>PM<sub>2.5</sub> mean (µg/m<sup>3</sup>):</p> <p><b>Prescribed burn:</b> House 1 (PAC): 21.7 House 2: 37.5</p> <p><b>Snaking wildfire:</b> House 1 (PAC): 7.52 House 2: 5.54</p> <p><b>Schnoover wildfire:</b> House 1 (PAC): 20.7 House 2: 19.6</p> <p><b>Hayman wildfire:</b> House 1 (PAC): 32.7 House 2: 32.9</p>	<p>PM<sub>2.5</sub> mean (µg/m<sup>3</sup>):</p> <p><b>Prescribed burn:</b> House 1 (PAC): 2.0 House 2: 21.8</p> <p><b>Snaking wildfire:</b> House 1 (PAC): 2.61 House 2: 5.16</p> <p><b>Schnoover wildfire:</b> House 1 (PAC): 1.43 House 2: 11.4</p> <p><b>Hayman wildfire:</b> House 1 (PAC): 3.02 House 2: 24.5</p>	<p>PM<sub>2.5</sub> mean:</p> <p><b>Prescribed burn:</b> House 1 (PAC): 0.09 House 2: 0.85</p> <p><b>Snaking wildfire:</b> House 1 (PAC): 0.35 House 2: 0.93</p> <p><b>Schnoover wildfire:</b> House 1 (PAC): 0.06 House 2: 0.58</p> <p><b>Hayman wildfire:</b> House 1 (PAC): 0.09 House 2: 0.74</p>	NR

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Tham et al. 2021	Haze	PM <sub>10</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 110 PM <sub>2.5</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 85 PM <sub>1</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 70	PM <sub>10</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 66 PM <sub>2.5</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 58 PM <sub>1</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 40	PM <sub>10</sub> : FFU 0.05, control room 0.50 PM <sub>2.5</sub> : FFU 0.06, control room 0.49 PM <sub>1</sub> : FFU 0.07, control room 0.47	$F_{inf}$ PM <sub>10</sub> : FFU 0.06, control room 0.20 $F_{inf}$ PM <sub>2.5</sub> : FFU 0.08, control room 0.29 $F_{inf}$ PM <sub>1</sub> : FFU 0.11, control room 0.30  <i>(Estimated based on PM<sub>2.5</sub> mass balance models)</i>

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
<b>Tran et al. 2021</b>	Haze	<p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>):  Hazy days: PAC 60.93 ± 5.65, AC 37.22 ± 10.62, NV 49.78 ± 8.84  Non-hazy days: PAC 25.26 ± 5.14, AC 25.48 ± 6.44, NV 25.77 ± 2.71</p> <p>BC mean ± SD (µg/m<sup>3</sup>):  Hazy days: PAC 5.99 ± 2.01, AC 4.95 ± 1.78, NV 4.55 ± 1.76  Non-hazy days: PAC 3.86 ± 1.82, AC 3.94 ± 2.21, NV 4.01 ± 1.84</p> <p>Total Ions mean (µg/m<sup>3</sup>):  Hazy days: PAC 18.96, AC 13.71, NV 14.93  Non-hazy days: PAC 8.89, AC 7.26, NV 9.47</p> <p>Total WSTE mean (µg/m<sup>3</sup>):  Hazy days: PAC 2.24, AC 1.79, NV 1.84  Non-hazy days: PAC 0.96, AC 0.68, NV 0.95</p>	<p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>):  Hazy days: PAC 15.12 ± 3.79, AC 26.80 ± 7.64, NV 48.93 ± 9.72  Non-hazy days: PAC 5.26 ± 1.36, AC 16.07 ± 2.90, NV 25.42 ± 2.70</p> <p>BC mean ± SD (µg/m<sup>3</sup>):  Hazy days: PAC 0.90 ± 0.34, AC 2.97 ± 1.07, NV 4.40 ± 1.24  Non-hazy days: PAC 0.83 ± 0.18, AC 2.43 ± 0.68, NV 3.85 ± 1.31</p> <p>Total Ions mean (µg/m<sup>3</sup>):  Hazy days: PAC 3.91, AC 9.68, NV 14.98  Non-hazy days: PAC 0.86, AC 3.97, NV 8.77</p> <p>Total WSTE mean (µg/m<sup>3</sup>):  Hazy days: PAC 0.21, AC 0.70, NV 1.53  Non-hazy days: PAC 0.06, AC 0.29, NV 0.75</p>	<p>PM<sub>2.5</sub> mean ± SD:  Hazy days: PAC 0.25, AC 0.72, NV 0.98  Non-hazy days: PAC 0.21, AC 0.63, NV 0.99</p> <p>BC mean ± SD:  Hazy days: PAC 0.15, AC 0.60, NV 0.97  Non-hazy days: PAC 0.22, AC 0.62, NV 0.96</p> <p>Total Ions mean:  Hazy days: PAC 0.21, AC 0.71, NV 1.00  Non-hazy days: PAC 0.1, AC 0.55, NV 0.93</p> <p>Total WSTE mean:  Hazy days: PAC 0.07, AC 0.42, NV 0.79  Non-hazy days: PAC 0.21, AC 0.51, NV 0.99</p>	NR
<b>Sharma et al. 2017</b>	Haze	<p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>)  PAC 72, Windows closed 157 ± 107, Windows open 94 ± 34</p>	<p>PM<sub>2.5</sub> mean ± SD (µg/m<sup>3</sup>)  PAC 23, Windows closed 98 ± 54, Windows open 71 ± 20</p>	<p>PM<sub>2.5</sub> mean ± SD  PAC 0.32, Windows closed 0.62, Windows open 0.76</p>	NR



Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Cao et al. 2016	Haze	PM <sub>2.5</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 88	PM <sub>2.5</sub> range ( $\mu\text{g}/\text{m}^3$ ): Control: ~32 to ~130	PM <sub>0.3-0.5</sub> particle concentration mean: Control: 0.62, F25: 0.65, F65: 0.43, F85: 0.24, F95: 0.21  PM <sub>0.5-1.0</sub> particle concentration mean: Control: 0.40, F25: 0.39, F65: 0.25, F85: 0.13, F95: 0.13  PM <sub>1.0-2.5</sub> particle concentration mean: Control: 0.2, F25: 0.19, F65: 0.15, F85: 0.06, F95: 0.06	NR
Chen et al. 2016	Haze	PM <sub>2.5</sub> mean ( $\mu\text{g}/\text{m}^3$ ): 96	PM <sub>0.3-1.0</sub> particle volume concentration mean ( $\mu\text{g}/\text{cm}^3$ ): Hazy: 43.6, Clear sky: 4.8	PM <sub>0.3</sub> particle concentration mean: ACMV on 0.59, ACMV off 0.64	NR
Yang et al. 2024	RWC	PM <sub>2.5</sub> : No summary data reported  OP mass-normalized: No summary data reported	PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): 2.45 $\pm$ 0.58  OP mass-normalized mean $\pm$ SD (pmol/min/ $\mu\text{g}$ ): 19.2 $\pm$ 16.5	OP mass-normalized mean $\pm$ SD: 0.53 $\pm$ 0.37	NR



Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Bravo-Linares et al. 2016	RWC	PM <sub>2.5</sub> mean (range) ( $\mu\text{g}/\text{m}^3$ ): 85 (5, 367)  PAH mean (range) ( $\text{ng}/\text{m}^3$ ): 71 (3, 365)	PM <sub>2.5</sub> mean (range) ( $\mu\text{g}/\text{m}^3$ ): 72 (6, 194)  PAH mean (range) ( $\text{ng}/\text{m}^3$ ): 51 (2, 291)	PM <sub>2.5</sub> regression: I/O 0.44, R <sup>2</sup> = 0.48	NR
Kajbafzadeh et al. 2015	RWC	PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): PAC on $3.9 \pm 2.1$ , placebo $5.0 \pm 2.5$  Levoglucon mean $\pm$ SD ( $\text{ng}/\text{m}^3$ ): PAC on $20.6 \pm 19.9$ , placebo $13.2 \pm 13.5$	PM <sub>2.5</sub> mean $\pm$ SD ( $\mu\text{g}/\text{m}^3$ ): PAC on $3.4 \pm 1.9$ , placebo $6.5 \pm 2.7$  Levoglucon mean $\pm$ SD ( $\text{ng}/\text{m}^3$ ): PAC on $11.8 \pm 14.4$ , placebo $29.3 \pm 67.1$	PM <sub>2.5</sub> mean $\pm$ SD: PAC on $0.87 \pm 0.77$ , placebo $1.3 \pm 0.65$	NR
Brown et al. 2014	RWC	NR	PM <sub>0.5</sub> mean $\pm$ SD ( $\#/ \text{cm}^3$ ): OWF homes $0.302 \pm 0.305$ , control homes $0.0718 \pm 0.077$  PM <sub>2.5</sub> mean $\pm$ SD ( $\#/ \text{cm}^3$ ): OWF homes $6.58 \pm 4.85$ , control homes $1.91 \pm 2.40$	NR	NR

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
<b>Wheeler et al. 2014</b>	RWC	<p>PM median (range) (<math>\mu\text{g}/\text{m}^3</math>): PAC on 7.66 (0.91, 65.28), placebo 5.9 (0.51, 35.66)</p> <p>PM<sub>2.5</sub> median (range) (<math>\mu\text{g}/\text{m}^3</math>): PAC on 2.51 (0.42, 22.6), placebo 3.67 (0.34, 115.97)</p> <p>Levogluconan median (range) (<math>\text{ng}/\text{m}^3</math>): PAC on 0.169 (0.055, 3.258), placebo 0.096 (0.021, 1.458)</p>	<p>PM median (range) (<math>\mu\text{g}/\text{m}^3</math>): PAC on 3.17 (0.9, 21.26), placebo 8.58 (2.6, 64.42)</p> <p>PM<sub>2.5</sub> median (range) (<math>\mu\text{g}/\text{m}^3</math>): PAC on 1.92 (0.35, 11.28), placebo 3.87 (0.37, 30.19)</p> <p>Levogluconan median (range) (<math>\text{ng}/\text{m}^3</math>): PAC on 0.034 (ND, 0.189), placebo 0.050 (ND, 0.448)</p>	<p>PM median (range): PAC on 0.42 (0.08, 2.29), placebo 1.42 (0.24, 19.72)</p> <p>PM<sub>2.5</sub> median (range): PAC on 0.63 (0.08, 5.78), placebo 1.2 (0.03, 24.0)</p> <p>Levogluconan median (range): PAC on 0.17 (0.00, 0.77), placebo 0.36 (0.00, 14.62)</p>	<p><math>F_{inf}</math> PM median (range): PAC on 0.26 (0.07, 0.84), placebo 0.56 (0.16, 1.00)</p> <p><i>(Calculated from I/O ratio with indoor peaks removed)</i></p>
<b>Allen et al. 2011</b>	RWC	<p>PM<sub>2.5</sub> mean <math>\pm</math> SD (<math>\mu\text{g}/\text{m}^3</math>): PAC on <math>9.8 \pm 4.2</math>, placebo <math>10.8 \pm 4.2</math></p> <p>Levogluconan mean <math>\pm</math> SD (<math>\text{ng}/\text{m}^3</math>): PAC on <math>530 \pm 358</math>, placebo <math>613 \pm 548</math></p>	<p>PM<sub>2.5</sub> mean <math>\pm</math> SD (<math>\mu\text{g}/\text{m}^3</math>): PAC on <math>4.6 \pm 2.6</math>, placebo <math>11.2 \pm 6.1</math></p> <p>Levogluconan mean <math>\pm</math> SD (<math>\text{ng}/\text{m}^3</math>): PAC on <math>33 \pm 39</math>, placebo <math>127 \pm 191</math></p>	NR	<p>PM<sub>2.5</sub> mean <math>\pm</math> SD: PAC on <math>0.2 \pm 0.17</math>, placebo <math>0.34 \pm 0.17</math></p> <p><i>(Estimated based on PM<sub>2.5</sub> mass balance models)</i></p>
<b>Allen et al. 2009</b>	RWC	<p>PM<sub>2.5</sub> range (5 to 95 percentiles) (<math>\mu\text{g}/\text{m}^3</math>): pre-exchange <math>\sim 5</math> to 50, post-exchange <math>\sim 5</math> to 18</p> <p>Levogluconan range (5 to 95 percentiles) (<math>\text{ng}/\text{m}^3</math>): pre-exchange <math>\sim 200</math> to 2500, post-exchange <math>\sim 50</math> to 1500</p>	<p>Indoor PM<sub>2.5</sub> median (<math>\mu\text{g}/\text{m}^3</math>): pre-exchange 12.8, and post-exchange 12.2 <math>\mu\text{g}/\text{m}^3</math></p> <p>Levogluconan median (<math>\text{ng}/\text{m}^3</math>): pre-exchange 113, post-exchange 109</p>	NR	<p><math>F_{inf}</math> PM<sub>2.5</sub> mean <math>\pm</math> SD: pre-exchange <math>0.32 \pm 0.17</math>, post-exchange sampling <math>0.33 \pm 0.11</math></p>

Référence	Épisode	Concentrations de polluants extérieurs	Concentrations de polluants intérieurs	Ratios intérieur/extérieur	Facteur d'infiltration ( $F_{inf}$ )
Weaver et al. 2019	Biomass	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): 57.1 ± 19.9  CO mean ± SD (ppm): 0.006 ± 0.008	PM <sub>2.5</sub> mean ± SD (µg/m <sup>3</sup> ): Index home (stove) 51.9 ± 16.8, neighbour home 47.5 ± 14.9  CO mean ± SD (ppm): Index home (stove) 0.03 ± 0.04, neighbour home 0.006 ± 0.01	NR	NR
Cristale et al. 2012	Biomass	NR	Total PAHs mean (range) (ng/m <sup>3</sup> ) Harvest season: 22.9 (4.82 - 44.8), Non-harvest season: 2.35 (0.79–5.53)	NR	NR
Artinano et al. 2017	Landfill fire	PM <sub>1</sub> number concentrations maximum (#/cm <sup>3</sup> ): 3.8 × 10 <sup>5</sup>  BC maximum (µg/m <sup>3</sup> ): ~4  Total minerals mean (µg/m <sup>3</sup> ): 5639  Total PAHs maximum (µg/m <sup>3</sup> ): 0.13	PM <sub>1</sub> number concentrations maximum (#/cm <sup>3</sup> ): 3.9 × 10 <sup>4</sup>  BC maximum (µg/m <sup>3</sup> ): 1.8  Total minerals mean (µg/m <sup>3</sup> ): 3075  Total PAHs maximum (µg/m <sup>3</sup> ): 0.02	NR	NR

Abréviations : **AC** : climatisation; **CVC** : chauffage, ventilation et climatisation; **IQA** : indice de la qualité de l'air; **CN** : carbone noir; **F25, F65, F85 et F95** : filtres dont l'efficacité contre les poussières est de 25 %, 65 %, 85 % et 95 %; **ND** : non déclaré; **VN** : ventilation naturelle; **PO** : potentiel oxydant; **FEB** : fournaises extérieures au bois; **MP<sub>x-y</sub>** : matière particulaire d'un diamètre de x à y µm; **NP** : concentration en nombre de particules.