

APPENDIX 7: 2020 AND 2025 POINT SOURCE EMISSIONS CALCULATIONS

PROJECTED POINT EMISSIONS									
COUNTY	FIPS ID	NO _x (TPWD)		PM ₂₅ (TPWD)		SO ₂ (TPWD)		VOC (TPWD)	
		2020 (est)	2025 (est)	2020 (est)	2025 (est)	2020 (est)	2025 (est)	2015 (est)	2022 (est)
Milwaukee	55079	21.23	17.08	0.23	0.30	27.00	9.52	5.79	6.57
Racine	55101	1.16	1.15	0.05	0.08	0.68	0.78	1.30	1.34
Waukesha	55133	1.55	1.74	0.04	0.06	0.16	0.15	3.22	3.49

Calculations for 2020 and 2025 Inventories (NO _x)							
County	2018 EGU NO _x	2018 Non-EGU NO _x	2018 Point NO _x	2020(est)	2025(est)	2020 est (mod)	2025 est (mod)
Milwaukee	14.97	4.56	19.53	17.93	13.93	21.23	17.08
Racine	N/A	1.17	1.17	1.16	1.15	1.16	1.15
Waukesha	N/A	1.47	1.47	1.55	1.74	1.55	1.74

Notes:

2018 Non-EGU estimates based on LADCO Base C, Version 7 modeling.

EGU 2018 estimates based on LADCO Base M 5B modeling (includes NO_x RACT). Excludes We Energies - Elm Road (FID 241219440).

2020 and 2025 estimates are modified to include projected emissions from We Energies - Elm Road (FID 241219440) - as well as EGU PM_{2.5} emissions - which were not included in the 2018 LADCO projections.

Point Source NO_x total 2010:

Milwaukee	25.93
Racine	1.19
Waukesha	1.17

Calculations for 2020 and 2025 Inventories (PM ₂₅)							
County	2018 EGU PM ₂₅	2018 Non-EGU PM _{2.5}	2018 Point PM _{2.5}	2020(est)	2025(est)	2020 est (mod)	2025 est (mod)
Milwaukee	0.00	0.12	0.12	0.15	0.23	0.23	0.30
Racine	N/A	0.04	0.04	0.05	0.08	0.05	0.08
Waukesha	N/A	0.03	0.03	0.04	0.06	0.04	0.06

Notes:

2018 Non-EGU estimates based on LADCO Base C, Version 7 modeling.

EGU 2018 estimates based on LADCO Base M 5B modeling (includes NO_x RACT). Excludes We Energies - Elm Road (FID 241219440).

2020 and 2025 estimates are modified to include projected emissions from We Energies - Elm Road (FID 241219440) - as well as EGU PM_{2.5} emissions - which were not included in the 2018 LADCO projections.

Point Source PM_{2.5} total 2010:

Milwaukee	0.00
Racine	0.00
Waukesha	0.00

Calculations for 2020 and 2025 Inventories (SO2)							
County	2018 EGU SO2	2018 Non-EGU SO2	2018 Point SO2	2020(est)	2025(est)	2020 est (mod)	2025 est (mod)
Milwaukee	32.40	0.55	32.94	25.97	8.53	27.00	9.52
Racine	N/A	0.63	0.63	0.68	0.78	0.68	0.78
Waukesha	N/A	0.16	0.16	0.16	0.15	0.16	0.15

Notes:

2018 Non-EGU estimates based on LADCO Base C, Version 7 modeling.

EGU 2018 estimates based on LADCO Base M 5B modeling (includes NOx RACT). Excludes We Energies - Elm Road (FID 241219440).

2020 and 2025 estimates are modified to include projected emissions from We Energies - Elm Road (FID 241219440) which were not included in the 2018 LADCO projections.

Point Source SO2 total 2010:

Milwaukee	60.84
Racine	0.46
Waukesha	0.16

Calculations for 2020 and 2025 Inventories (VOC)							
County	2018 EGU VOC	2018 Non-EGU VOC	2018 Point VOC	2020(est)	2025(est)	2020 est (mod)	2025 est (mod)
Milwaukee	0.44	5.04	5.48	5.79	6.57	5.79	6.57
Racine	N/A	1.28	1.28	1.30	1.34	1.30	1.34
Waukesha	N/A	3.11	3.11	3.22	3.49	3.22	3.49

Notes:

2018 Non-EGU estimates based on LADCO Base C, Version 7 modeling.

EGU 2018 estimates based on LADCO Base M 5B modeling (includes NOx RACT). Excludes We Energies - Elm Road (FID 241219440).

2020 and 2025 estimates are modified to include projected emissions from We Energies - Elm Road (FID 241219440) which were not included in the 2018 LADCO projections.

Point Source VOC total 2010:

Milwaukee	4.23
Racine	1.22
Waukesha	2.67

2020 and 2025 Point Source EGU Emissions – Modifications ^a												
FID	COUNTY	DVID	SCC	POLLUTANT	2008 (TPWD)	2011 (TPWD)	GF- 2020	GF- 2025	GF- 2020 (mod)	GF- 2025 (mod)	2020 (TPWD)	2025 (TPWD)
241219440	Milwaukee	1	1-01-002-22	NOX	---	1.639	1.091	1.08	0.949	0.907	1.556	1.487
241219440	Milwaukee	2	1-01-002-22	NOX	---	1.839	1.091	1.08	0.949	0.907	1.746	1.668
241007690	Milwaukee	B25	1-01-002-22	PM25	0.007	---	1.091	1.08	0.949	0.907	0.006	0.006
241007690	Milwaukee	B26	1-01-002-22	PM25	0.008	---	1.091	1.08	0.949	0.907	0.008	0.007
241007690	Milwaukee	B27	1-01-002-26	PM25	0.005	---	1.091	1.08	0.949	0.907	0.005	0.004
241007690	Milwaukee	B28	1-01-002-26	PM25	0.012	---	1.091	1.08	0.949	0.907	0.012	0.011
241007800	Milwaukee	B21	1-01-002-02	PM25	0.005	---	1.091	1.08	0.949	0.907	0.005	0.005
241007800	Milwaukee	B22	1-01-002-02	PM25	0.004	---	1.091	1.08	0.949	0.907	0.004	0.004
241007800	Milwaukee	B23	1-01-002-02	PM25	0.002	---	1.091	1.08	0.949	0.907	0.002	0.002
241007800	Milwaukee	B24	1-01-002-02	PM25	0.004	---	1.091	1.08	0.949	0.907	0.004	0.004
241027050	Milwaukee	B22	1-01-002-04	PM25	0	---	1.091	1.08	0.949	0.907	0	0
241027050	Milwaukee	B23	1-01-002-04	PM25	0	---	1.091	1.08	0.949	0.907	0	0
241219440	Milwaukee	1	1-01-002-22	PM25	---	0.017	1.091	1.08	0.949	0.907	0.016	0.015
241219440	Milwaukee	2	1-01-002-22	PM25	---	0.02	1.091	1.08	0.949	0.907	0.019	0.018
241219440	Milwaukee	1	1-01-002-22	SO2	---	0.563	1.091	1.08	0.949	0.907	0.534	0.51
241219440	Milwaukee	2	1-01-002-22	SO2	---	0.523	1.091	1.08	0.949	0.907	0.496	0.474
241219440	Milwaukee	1	1-01-002-22	VOC	---	0	1.091	1.08	0.949	0.907	0	0
241219440	Milwaukee	2	1-01-002-22	VOC	---	0	1.091	1.08	0.949	0.907	0	0