**Dataset Name:**

Volatile organic compound emissions from prescribed burning in tallgrass prairie ecosystems

Updated 2019-06-18, Andrew Whitehill

**TableS1.csv**

*File Name:*  
TableS1.csv

*Description:*  
Continuous monitor data from 2017-03-15 burns  
  
*Columns:*  
**CST** – Date and time in Central Standard Time (CST), in “YYYY-mm-dd HH:MM” format  
**CO\_ppm** – Carbon monoxide (CO) concentration, in parts per million volume (ppm)  
**CO2\_ppm** – Carbon dioxide (CO2) concentration, in parts per million volume (ppm)  
**MCE** – Modified combustion efficiency

**TableS2.csv**

*File Name:*  
TableS2.csv

*Description:*  
Continuous monitor data from 2017-03-16 burns  
  
*Columns:*  
**CST** – Date and time in Central Standard Time (CST), in “YYYY-mm-dd HH:MM” format  
**CO\_ppm** – Carbon monoxide (CO) concentration, in parts per million volume (ppm)  
**CO2\_ppm** – Carbon dioxide (CO2) concentration, in parts per million volume (ppm)  
**MCE** – Modified combustion efficiency

**TableS3.csv**

*File Name:*  
TableS3.csv

*Description:*  
Continuous monitor data from 2017-03-17 burns  
  
*Columns:*  
**CST** – Date and time in Central Standard Time (CST), in “YYYY-mm-dd HH:MM” format  
**CO\_ppm** – Carbon monoxide (CO) concentration, in parts per million volume (ppm)  
**CO2\_ppm** – Carbon dioxide (CO2) concentration, in parts per million volume (ppm)  
**MCE** – Modified combustion efficiency

**TableS4.csv**

*File Name:*  
TableS4.csv

*Description:*  
Continuous monitor data from 2017-03-20 burns  
  
*Columns:*  
**CST** – Date and time in Central Standard Time (CST), in “YYYY-mm-dd HH:MM” format  
**CO\_ppm** – Carbon monoxide (CO) concentration, in parts per million volume (ppm)  
**CO2\_ppm** – Carbon dioxide (CO2) concentration, in parts per million volume (ppm)  
**MCE** – Modified combustion efficiency

**TableS5.csv**

*File Name:*  
TableS5.csv

*Description:*  
Raw VOC canister data  
  
*Columns:*  
**“” <first column>** – Name of species or parameter  
**Units** – Units or format for species or parameter, ppb = parts per billion volume, ppm = parts per million volume  
**MDL-GCMS** – Method detection limit (MDL) for the GC-MS analysis (excluding other analytical steps)  
**FD1-C1** – Raw data from Fire Day 1 (2017-03-15), Canister #1  
**FD2-C1** – Raw data from Fire Day 2 (2017-03-16), Canister #1   
**FD2-C2** – Raw data from Fire Day 2 (2017-03-16), Canister #2   
**FD2-C3** – Raw data from Fire Day 2 (2017-03-16), Canister #3  
**FD4-C1** – Raw data from Fire Day 4 (2017-03-20), Canister #1   
**FD4-C2** – Raw data from Fire Day 4 (2017-03-20), Canister #2   
**FD4-C3** – Raw data from Fire Day 4 (2017-03-20), Canister #3  
**FD4-C4** – Raw data from Fire Day 4 (2017-03-20), Canister #4   
**FD4-C5** – Raw data from Fire Day 4 (2017-03-20), Canister #5  
**MQL(FD1-C1)** – Method detection limit for Fire Day 1 (2017-03-15), Canister #1  
**MQL(FD2-C1)** – Method detection limit for Fire Day 2 (2017-03-16), Canister #1   
**MQL(FD2-C2)** – Method detection limit for Fire Day 2 (2017-03-16), Canister #2   
**MQL(FD2-C3)** – Method detection limit for Fire Day 2 (2017-03-16), Canister #3  
**MQL(FD4-C1)** – Method detection limit for Fire Day 4 (2017-03-20), Canister #1   
**MQL(FD4-C2)** – Method detection limit for Fire Day 4 (2017-03-20), Canister #2   
**MQL(FD4-C3)** – Method detection limit for Fire Day 4 (2017-03-20), Canister #3  
**MQL(FD4-C4)** – Method detection limit for Fire Day 4 (2017-03-20), Canister #4   
**MQL(FD4-C5)** – Method detection limit for Fire Day 4 (2017-03-20), Canister #5

**TableS6.csv**

*File Name:*  
TableS6.csv

*Description:*  
Regression statistics for VOC samples  
  
*Columns:*  
**Name** – Species whose concentration is regressed against carbon monoxide  
**OLS.slope** – Slope estimate from ordinary least squares (OLS) regression  
**OLS.slope.SE** – Standard error of slope estimate from ordinary least squares (OLS) regression  
**OLS.slope.t** – t value for slope estimate from ordinary least squares (OLS) regression  
**OLS.slope.Pr** – p value for slope estimate from ordinary least squares (OLS) regression  
**OLS.slope.025** – lower bound of 95% confidence interval for slope estimate from ordinary least squares (OLS) regression  
**OLS.slope.975** – upper bound of 95% confidence interval for slope estimate from ordinary least squares (OLS) regression  
**OLS.intercept** – intercept estimate from ordinary least squares (OLS) regression  
**OLS.intercept.SE** – standard error of intercept estimate from ordinary least squares (OLS) regression  
**OLS.intercept.t** – t value for intercept estimate from ordinary least squares (OLS) regression  
**OLS.intercept.Pr** – p value for intercept estimate from ordinary least squares (OLS) regression  
**OLS.intercept.025** – lower bound of 95% confidence interval for intercept estimate from ordinary least squares (OLS) regression  
**OLS.intercept.975** – upper bound of 95% confidence interval for intercept estimate from ordinary least squares (OLS) regression  
**OLS.r.squared** – Coefficient of determination (r2 or R2) from ordinary least squares (OLS) regression  
**OLS.r.squared.adj** – Adjusted coefficient of determination (r2 or R2) from ordinary least squares (OLS) regression  
**OLS.SSE** – Sum of squared errors (SSE) from ordinary least squares (OLS) regression  
**RTO.slope** – Slope estimate from regression through origin (RTO) regression  
**RTO.slope.SE** – Standard error of slope estimate from regression through origin (RTO) regression  
**RTO.slope.t** – t value for slope estimate from regression through origin (RTO) regression  
**RTO.slope.Pr** – p value for slope estimate from regression through origin (RTO) regression  
**RTO.slope.025** – lower bound of 95% confidence interval for slope estimate from regression through origin (RTO) regression  
**RTO.slope.975** – lower bound of 95% confidence interval for slope estimate from regression through origin (RTO) regression  
**RTO.r.squared** – Coefficient of determination (R2) from regression through origin (RTO) regression  
**RTO.r.squared.adj** – Adjusted coefficient of determination (R2) from regression through origin (RTO) regression  
**RTO.SSE** – Sum of squared errors (SSE) from regression through origin (RTO) regression   
**OLS.AIC** – Akaike information criterion (AIC) for ordinary least squares (OLS) regression  
**RTO.AIC** – Akaike information criterion (AIC) for regression through origin (RTO) regression  
**OLS.AICc** – Corrected Akaike information criterion (AIC) for ordinary least squares (OLS) regression   
**RTO.AICc** – Corrected Akaike information criterion (AIC) for regression through origin (RTO) regression  
**N** – Number of samples used in regression analysis  
**r\_pearson** – Pearson product-moment correlation coefficient