**Data Dictionary**

Herrick, J.D., S.D. Kaylor and J.-J. Dubois. 2024. Ozone exposure observed and predicted biomass at Aspen FACE [Data set]. U.S. EPA Office of Research and Development (ORD). https://doi.org/10.23719/1531776

DATASET: 12 hr O3 at FACE 1998 to 2009.csv

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Description** | **Values** |
| Year | Year of the FACE experiment | 1998 to 2009 by 1 |
| Rep | Replicate | 0,1,2,3 with 0=Ambient |
| Treat | FACE Ring | 1 (ambient), 3 (elevated) |
| date | date | date |
| 12hrW126 | 12 hr exposure measured as W126 (ppm-hr) | Numeric |

DATASET: O3 exposure at Aspen FACE.csv

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Description** | **Values** |
| Year | Year of the FACE experiment | 1998 to 2009 by 1 |
| Trt | Ozone treatment | Ambient, Elevated |
| W126 | Exposure measured as W126 (ppm-hr) | Numeric |
| Type | Type of averaging used | ordinary, cumulative |

Dataset [O3 exposure at Aspen FACE.csv] was generated from [12 hr O3 at FACE 1998 to 2009.csv] as described in the article.

DATASET: Individual tree FACE biomass.csv

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Description** | **Values** |
| Community | Tree species in the ring section | Aspen Only, Aspen-Birch, Aspen-Maple |
| Rep | Replicate | 0,1,2,3 with 0=Ambient |
| Treat | FACE Ring | 1 (ambient), 3 (elevated) |
| biomass | Biomass of individual Aspen tree | Numeric |
| year | Year of the FACE experiment | 1998 to 2009 by 1 |

DATASET: Observed Biomass at Aspen FACE.csv

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Description** | **Values** |
| Treat | FACE code for Ozone treatment | 1 (ambient), 3 (elevated) |
| year | Year of the FACE experiment | 1998 to 2009 by 1 |
| \_FREQ\_ | Number of trees in the mean | Integer count |
| biomass\_Mean | Mean tree biomass | Numeric |

Dataset [Observed Biomass at Aspen FACE.csv] was generated from [Individual tree FACE biomass.csv] as described in the article.

DATASET: predicted relative yield loss at Aspen FACE.csv

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Description** | **Values** |
| type | Level comparison (elevated relative to ambient) | el-amb (no other value) |
| w126 | Exposure measured as W126 (ppm/hr) at FACE, used for prediction | Numeric |
| prbl | Predicted yield loss (elevated relative to ambient) | Numeric |