

Appendix D. Tree Comparison Values

Relative Tree Effects

The urban forest in Golden provides benefits that include carbon storage and sequestration, and air pollutant removal. To estimate the relative value of these benefits, tree benefits were compared to estimates of average municipal carbon emissions, average passenger automobile emissions, and average household emissions.

Carbon storage is equivalent to:

- Amount of carbon emitted in Golden in 63 days
- Annual carbon (C) emissions from 10,800 automobiles
- Annual C emissions from 5,450 single-family houses

Carbon monoxide removal is equivalent to:

- Annual carbon monoxide emissions from 3 automobiles
- Annual carbon monoxide emissions from 11 single-family houses

Nitrogen dioxide removal is equivalent to:

- Annual nitrogen dioxide emissions from 248 automobiles
- Annual nitrogen dioxide emissions from 165 single-family houses

Sulfur dioxide removal is equivalent to:

- Annual sulfur dioxide emissions from 1,550 automobiles
- Annual sulfur dioxide emissions from 26 single-family houses

Particulate matter less than 10 micron (PM10) removal is equivalent to:

- Annual PM10 emissions from 27,800 automobiles
- Annual PM10 emissions from 2,680 single-family houses

Annual carbon sequestration is equivalent to:

- Amount of carbon emitted in Golden in 2.5 days
- Annual C emissions from 400 automobiles
- Annual C emissions from 200 single-family houses

Institute for Environmental Solutions

761 Newport Street

Denver, CO 80220-5554

www.I4ES.org

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