

2015

# Relative Impact of Moving Books to/from Offsite Storage

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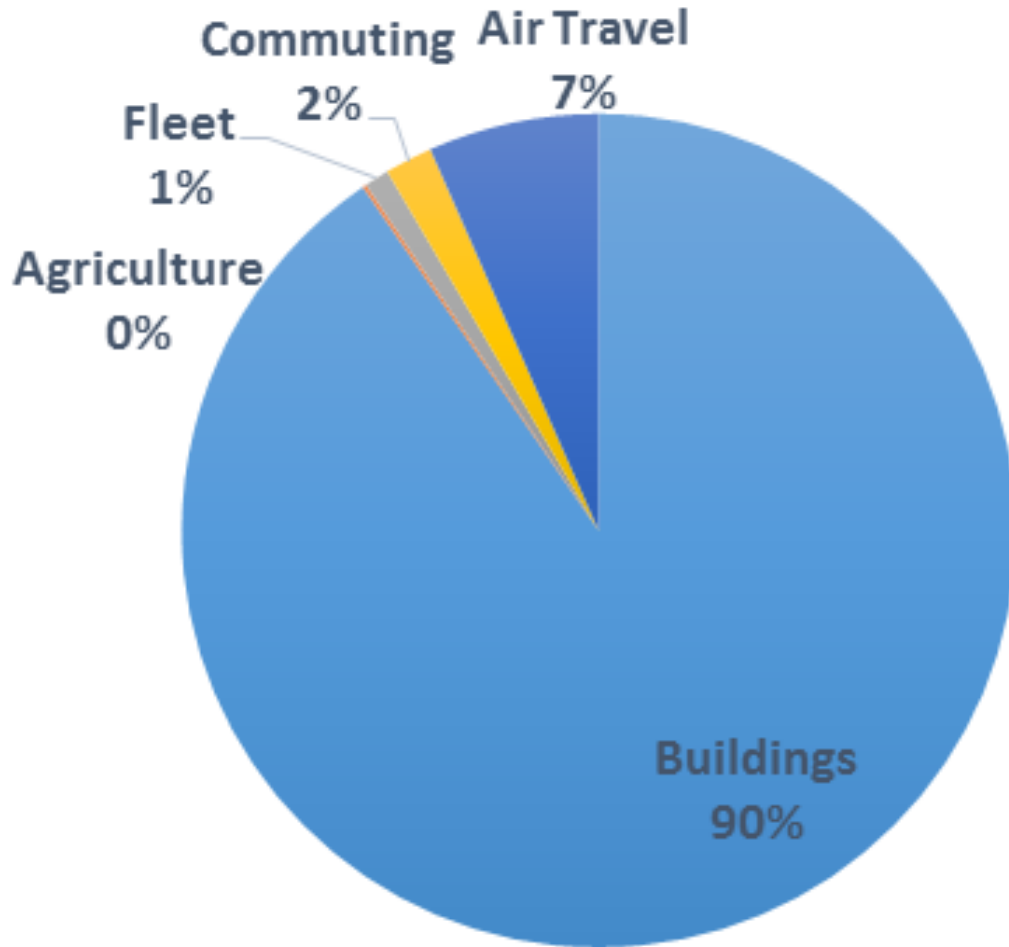
Relative  
Impact of  
Moving  
Books  
to/from  
Offsite  
Storage



Jess McKnight, '19  
and Dano Weisbord

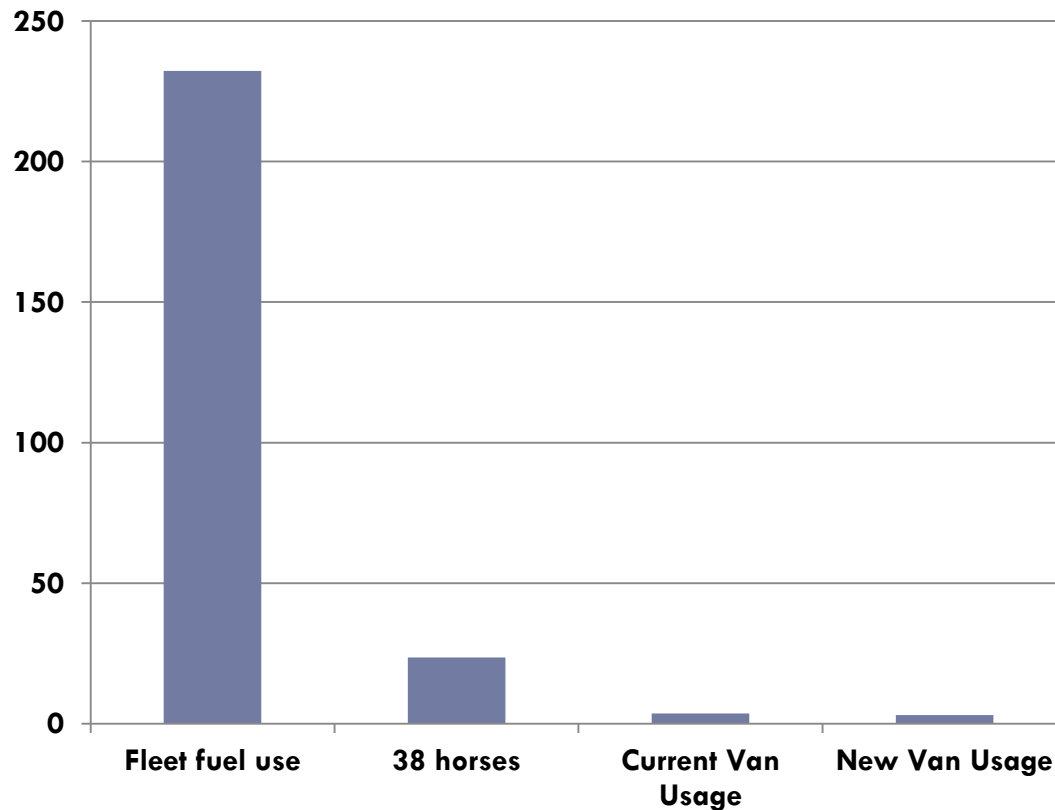
An easy job

# Smith College Gross GHG Emissions 2014



This chart represents Smith's institutional carbon emissions (eCO<sub>2</sub>). The majority of emissions stems from the buildings (90%), followed by air travel (7%), commuting by faculty and staff (2%), and fleet vehicles (1%), with agriculture (horses and fertilizer) being minimal.

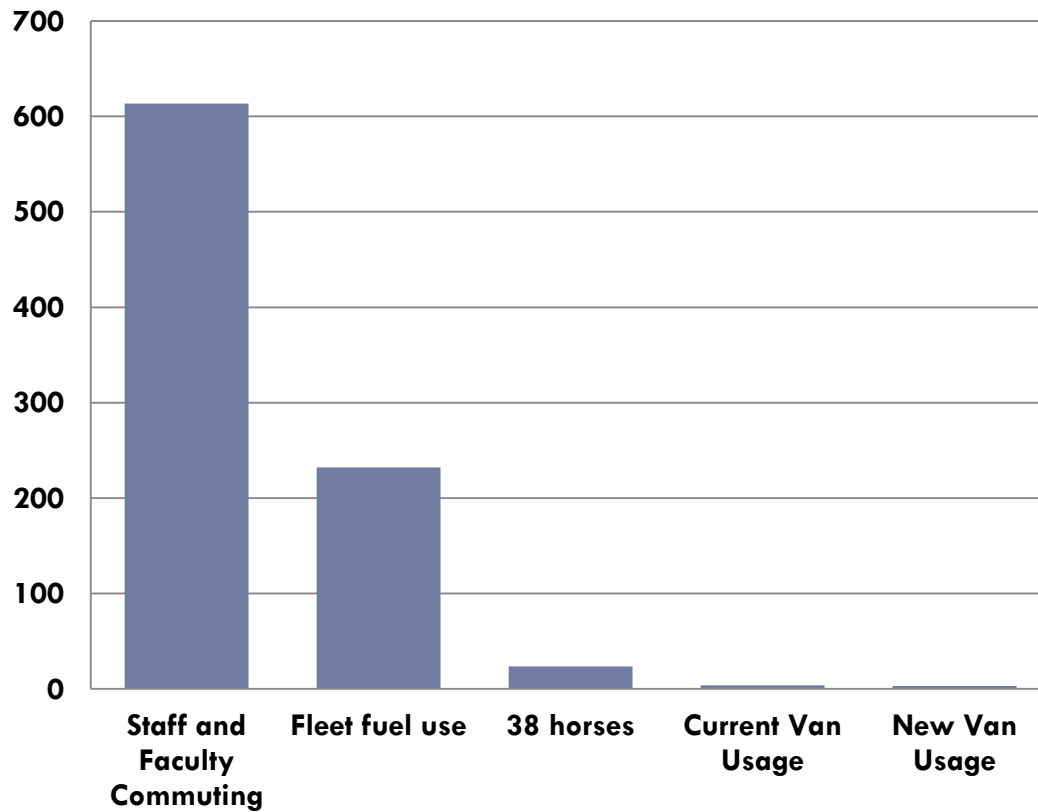
### Relative Emissions Moving Books to Storage Tons eCO<sub>2</sub>



In this chart, emissions from the operation of a van by the Five Colleges (10 trips/week, traveling 16.2 miles round-trip) are compared to the expected increase associated with “new van usage” (12 trips/week, traveling 11.4 miles round-trip) to the proposed Annex. These results are then compared to the estimated emissions of 38 horses on campus and the vehicle fleet emissions.

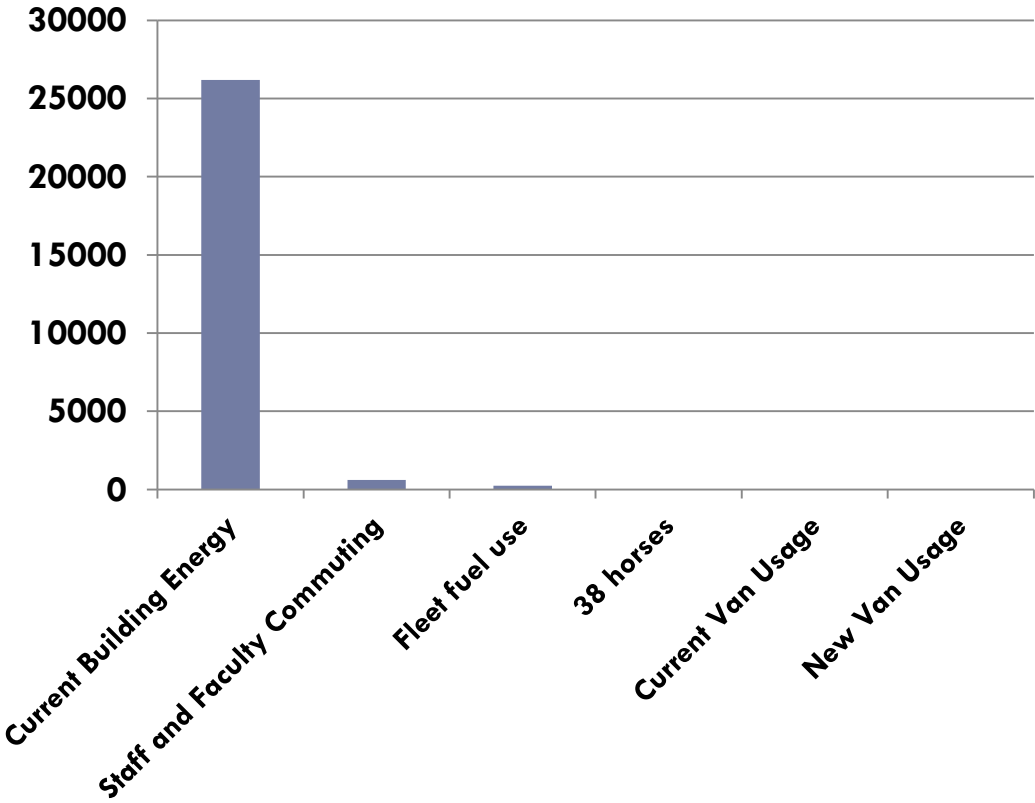
## Relative Emissions Moving Books to Storage

Tons eCO<sub>2</sub>



In this chart, staff and faculty commuting to campus are added to the previous slide's data for comparison.

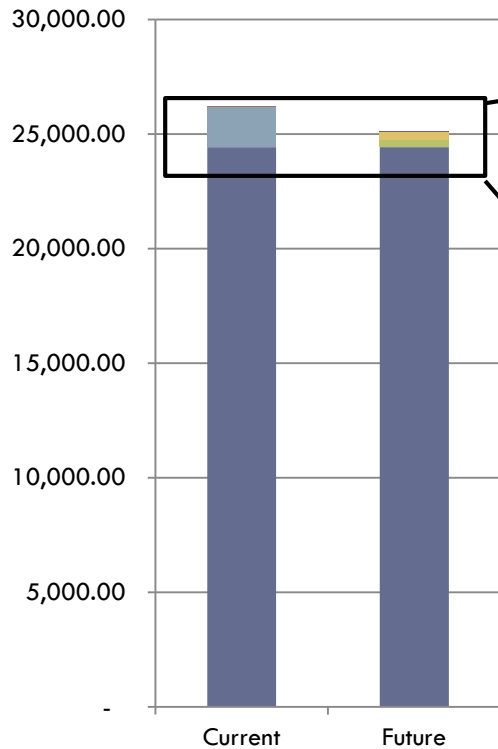
### Relative Emissions Moving Books to Storage Tons eCO2



In this chart, the much larger emissions associated with all campus buildings are added to the previous data.

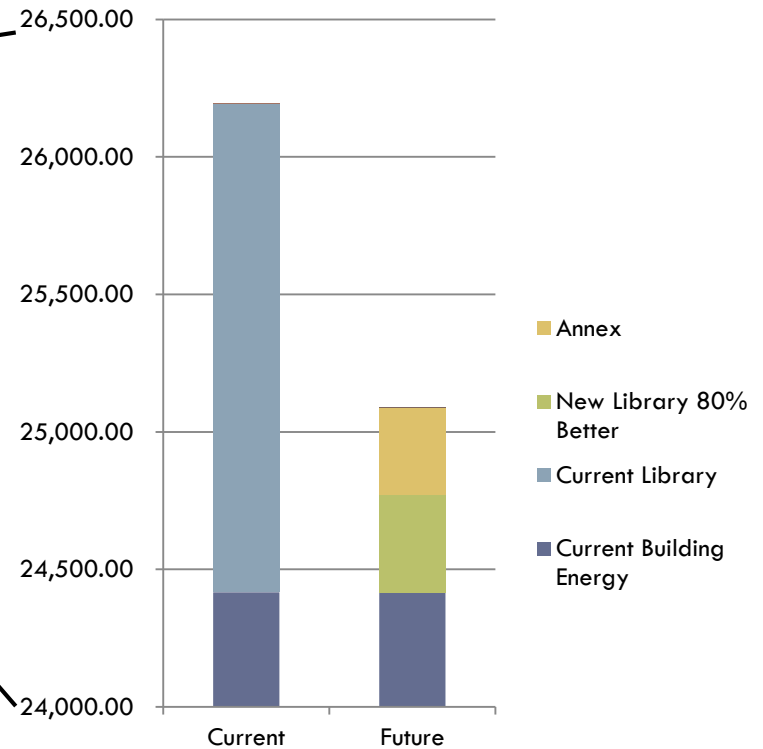
## Relative Library Emissions

Tons eCO<sub>2</sub>



## Relative Library Emissions

Tons eCO<sub>2</sub>



This chart shows the potential effect on building emissions assuming a new Neilson is 80% more efficient than present, and a library annex performs at average contemporary construction.

This enlargement articulates our **aspiration** for emissions from a new, more efficient Neilson + a library Annex + new van service that would reduce emissions from these services compared to existing conditions.