Relative Impact of Moving Books to/from Offsite Storage

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An easy job
This chart represents Smith's institutional carbon emissions (eCO2). 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.
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 eCO2

In this chart, staff and faculty commuting to campus are added to the previous slide’s data for comparison.
In this chart, the much larger emissions associated with all campus buildings are added to the previous data.
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.