

Tarvin Carbon Footprint Project



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Project Brief

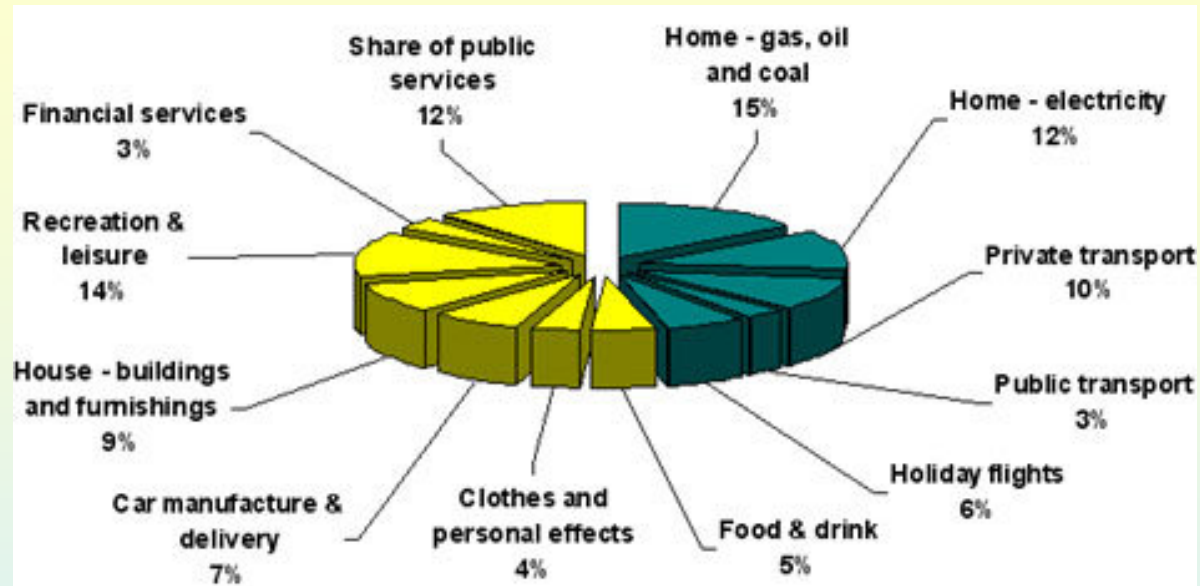
- Commissioned by **Tarvin Environment Group** to investigate Carbon Footprints and the perceptions of Sustainability in Tarvin
 - Carry out a survey on carbon footprints for selected households in Tarvin
 - Collate, Analysis and Report the data collected

(Source: Alexander, 2009)

Carbon Footprint

- “This is a measure of the impact that human activity has on the environment; in particular climate change”.
 - “It relates to the amount of green house gases produced in our day to day lives through burning fossil fuels for electricity, heating and transportation”

Carbon Footprint



- A Carbon Footprint is made up of 2 parts:
 - Primary Footprint - direct CO² emissions (Green)
 - Secondary Footprint – indirect CO² emission (Yellow)

Sustainable Development

Brundtland's definition of Sustainable Development

‘Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs’

Source: SD Gateway (n. d., p. 1)

Method

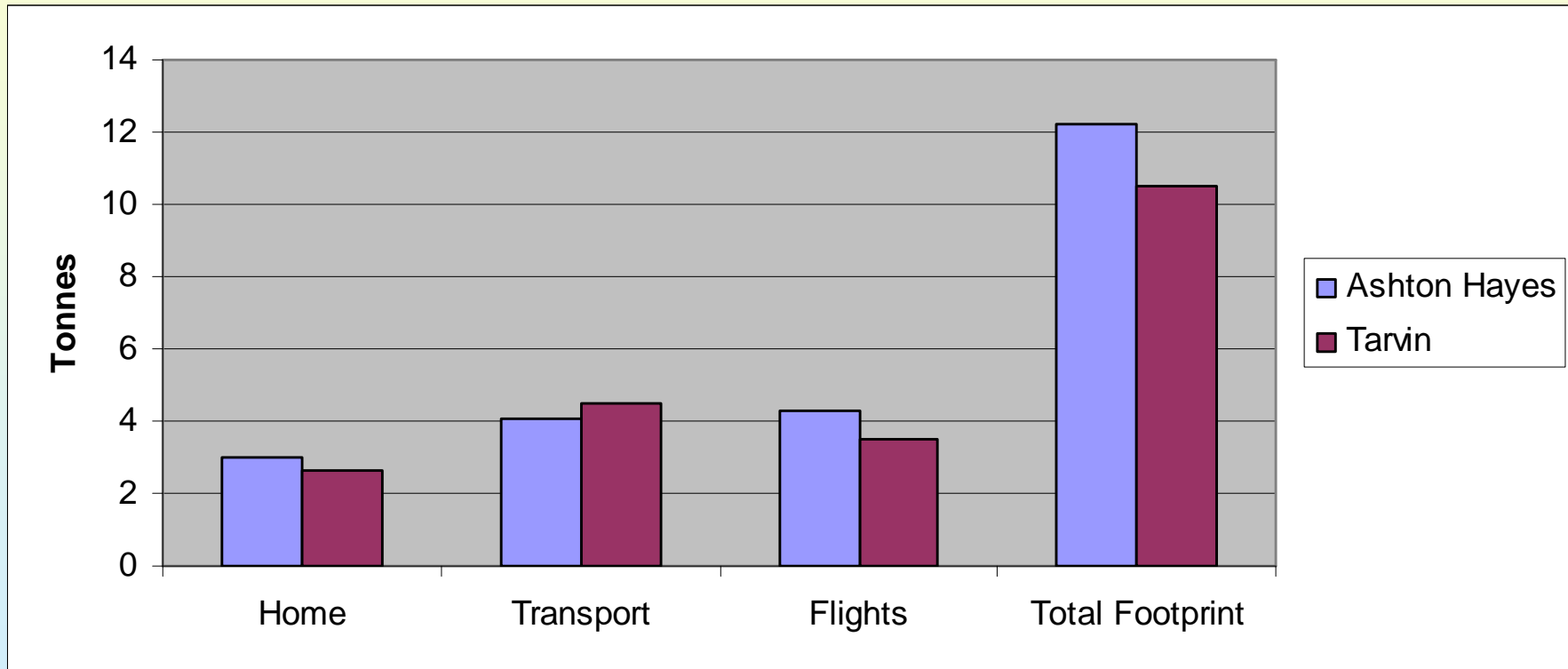
- Worked alongside **Tarvin Environment Group**
- 75 Households were selected to take part
- Initial visit to Tarvin to make residents aware of the data collection
- 7th March 2009 - 95 questionnaires were handed out in Tarvin
 - The questionnaires were of a similar structure to those used in the Ashton Hayes Going Carbon Neutral Project

Data Response

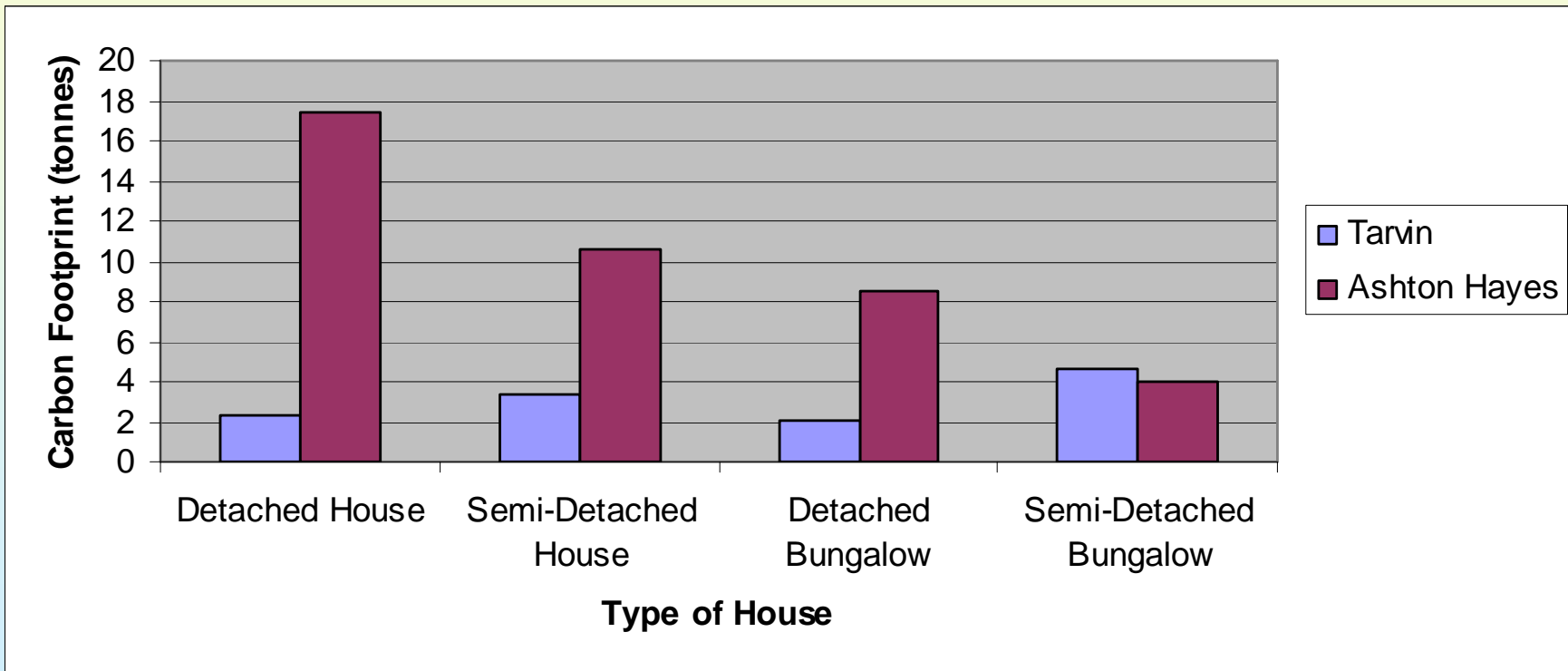
- Collection point was organised at the Post Office to enable residents to drop off the completed questionnaire
- 34 responses were collected – 32%
- Data collected was inputted into Microsoft Excel
- University of Chester Carbon Calculator© has been used to establish the carbon footprint of each property

Results

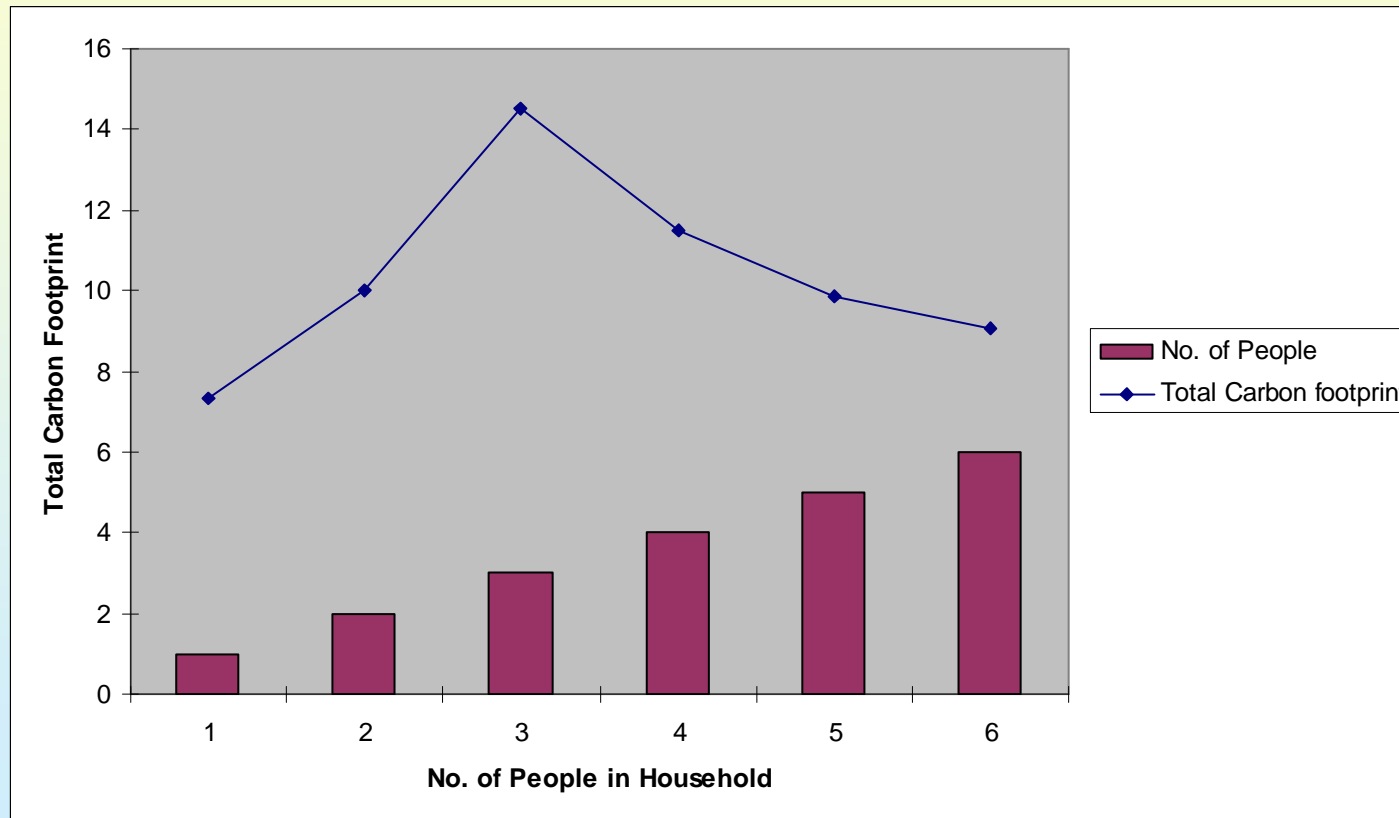
Carbon Footprint of Tarvin Compared to Ashton Hayes



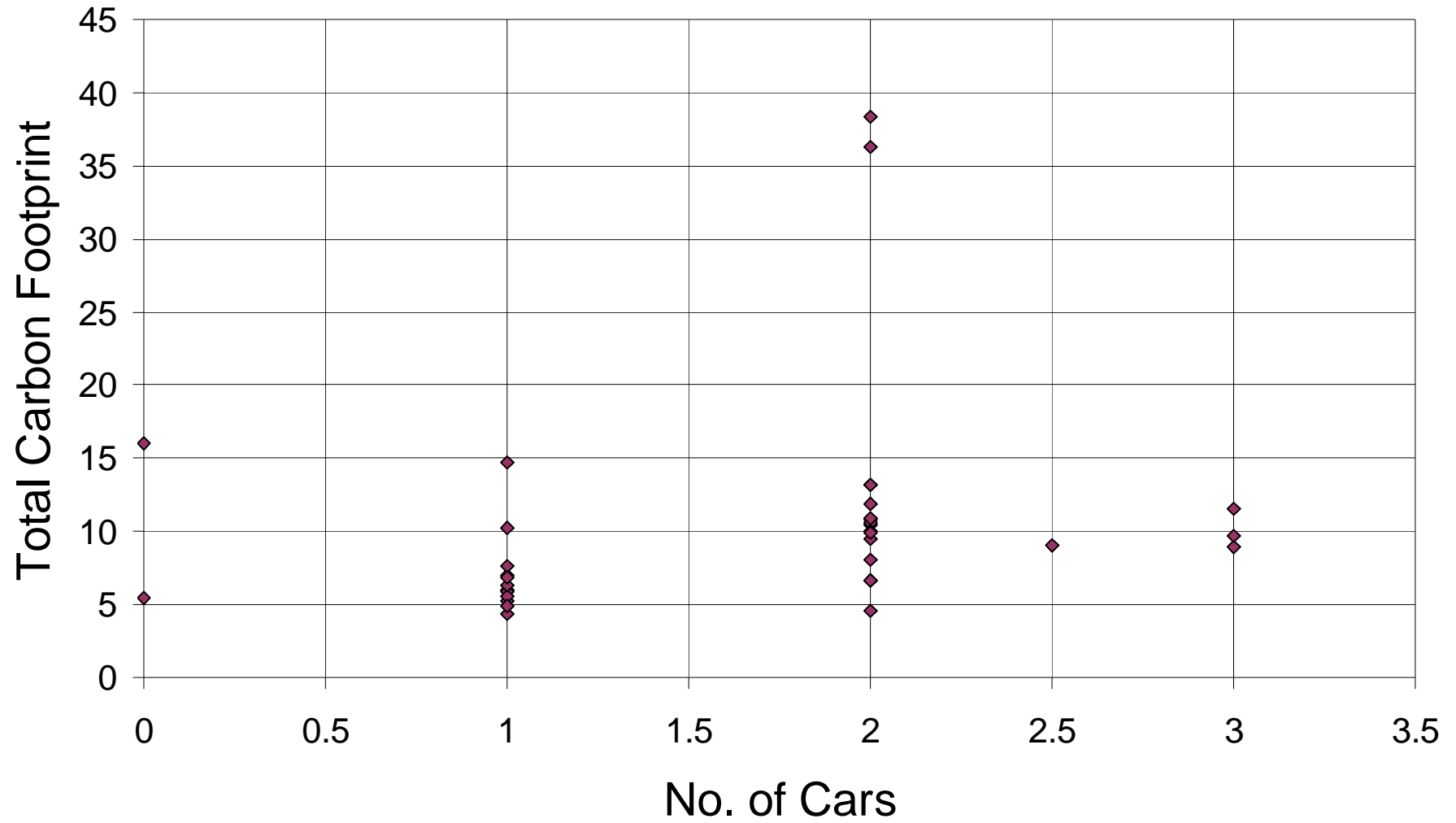
Comparison of the Carbon Footprint of House Type between Tarvin and Ashton Hayes



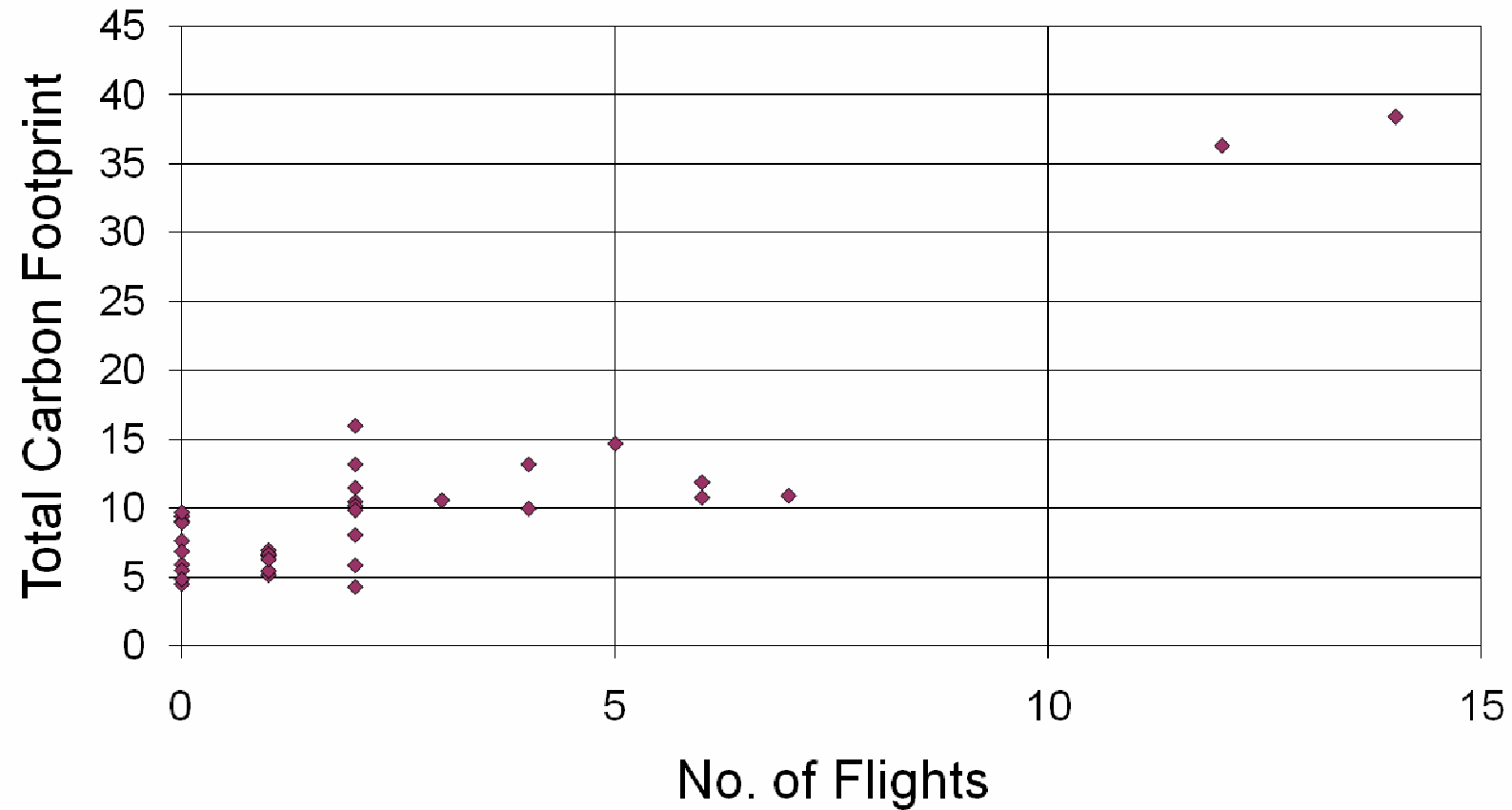
Total Carbon footprint vs. Number of People in Household



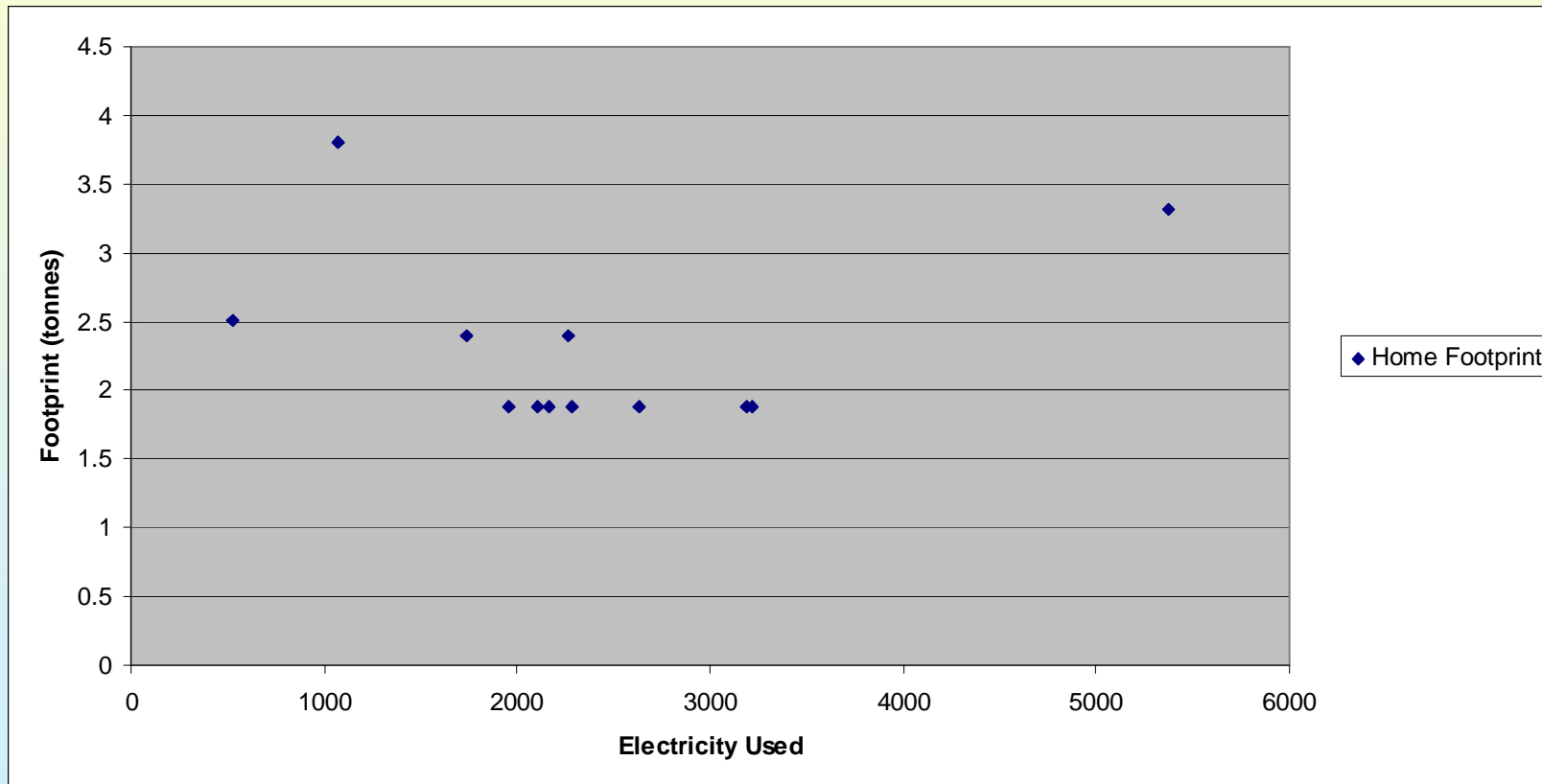
No. of Cars vs. Total Carbon Footprint



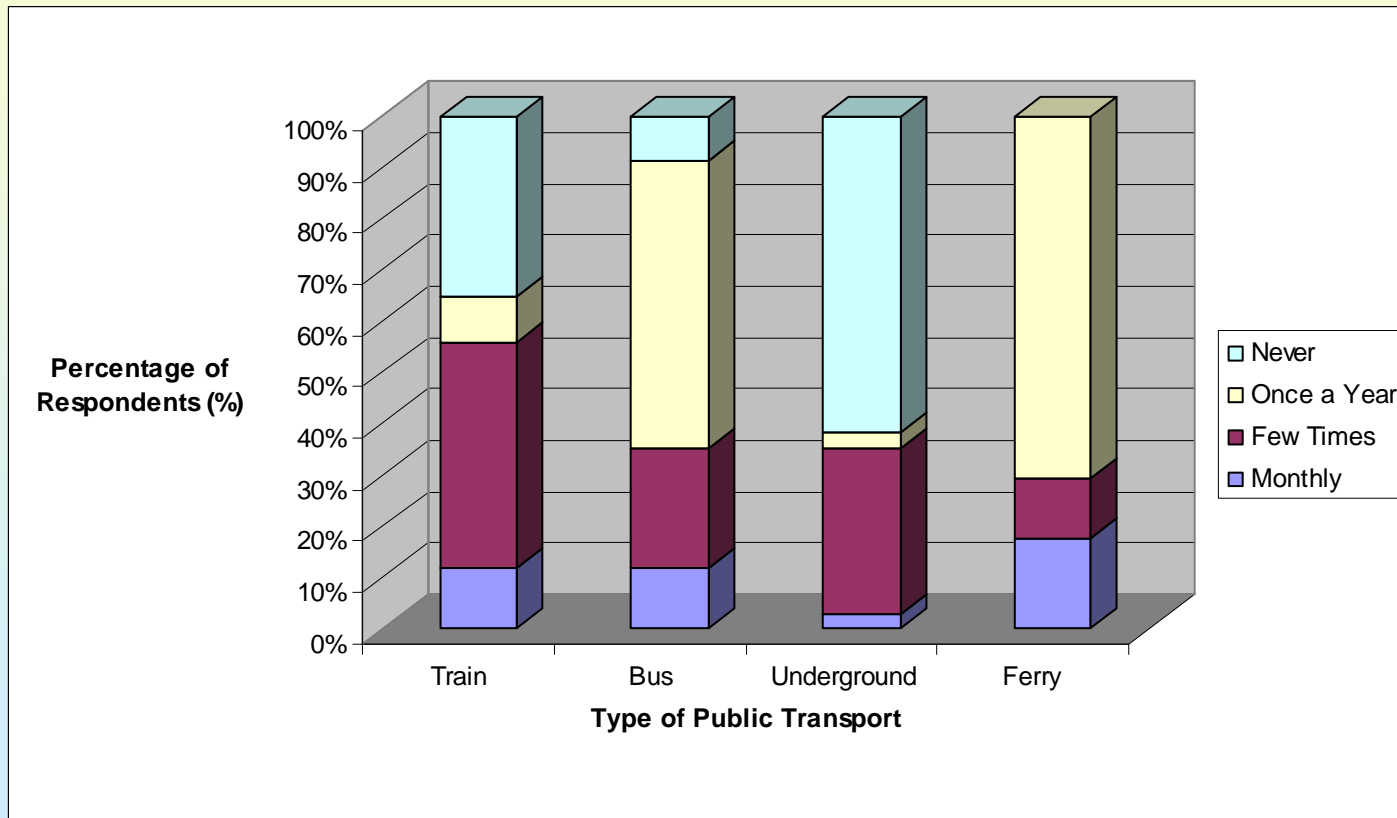
No. of Flights vs. Total Carbon Footprint



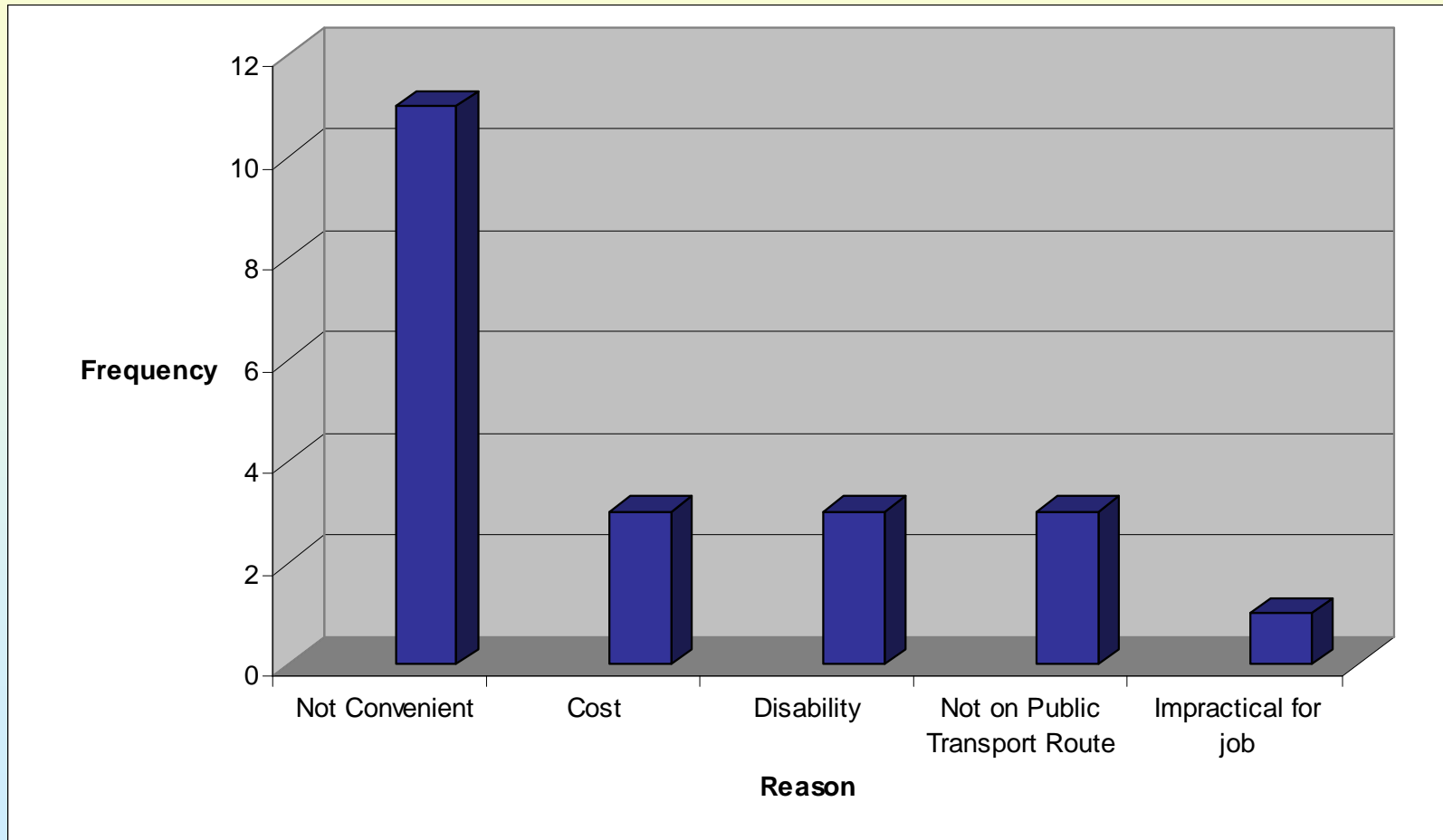
Home Footprint vs. Electricity Used



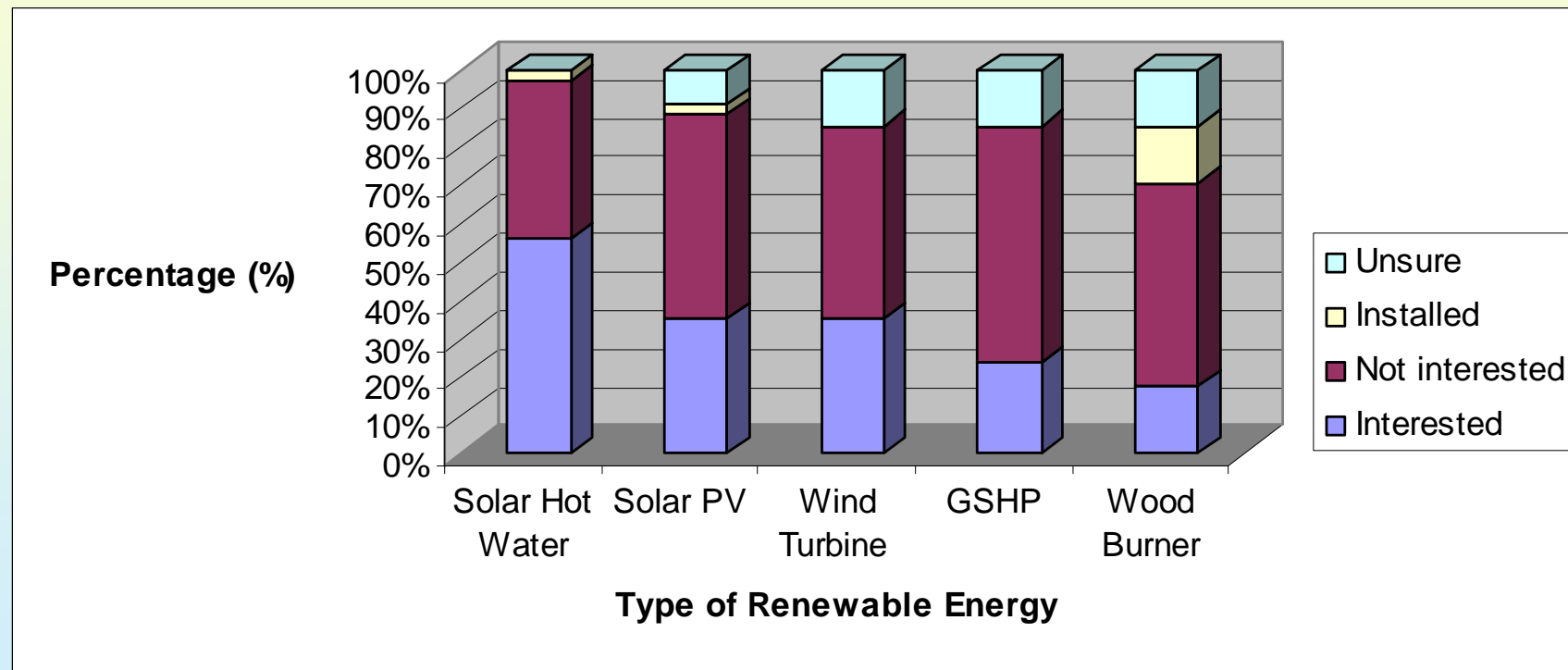
Use of Public Transport



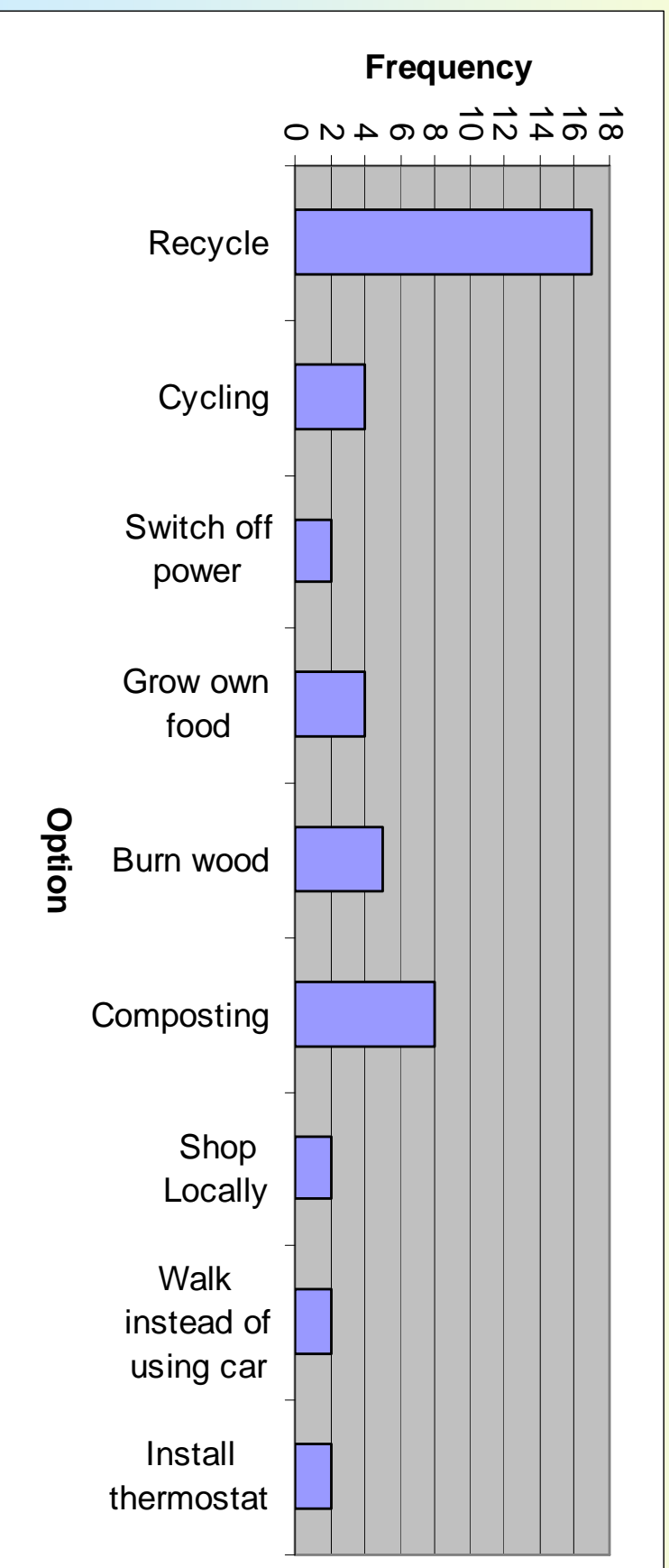
Reasons for Not Using Public Transport



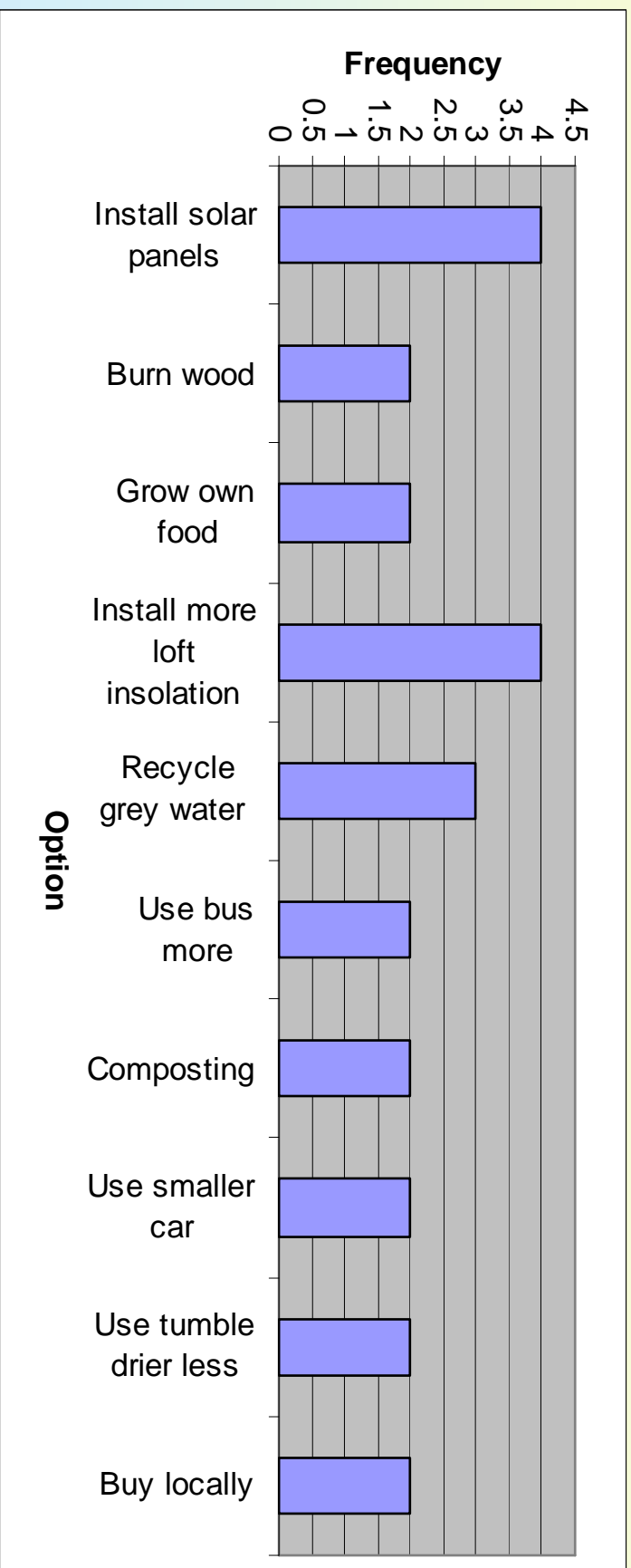
Interest in Renewable Technologies



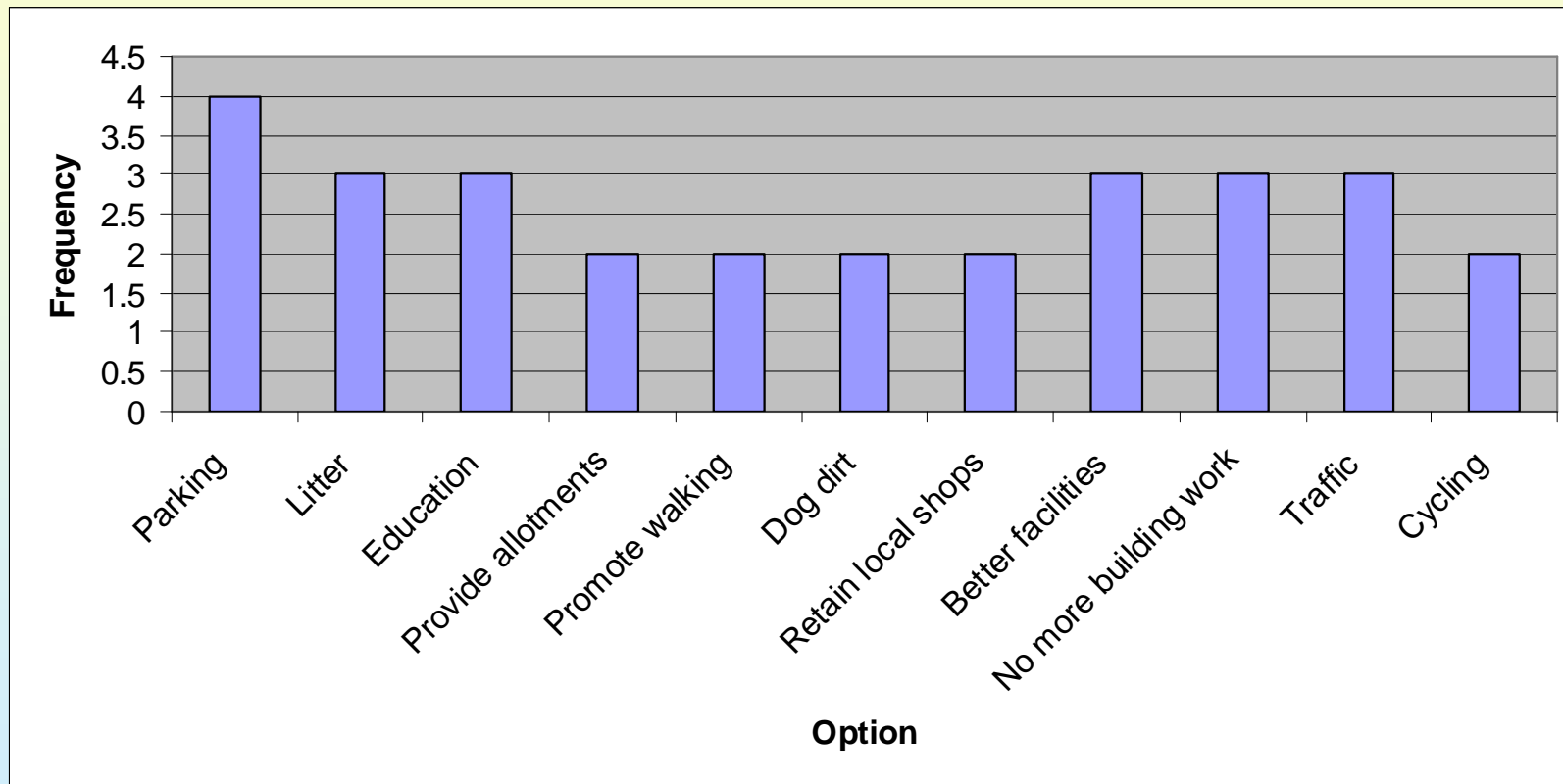
Two Things That Are Currently Done For Sustainable Living



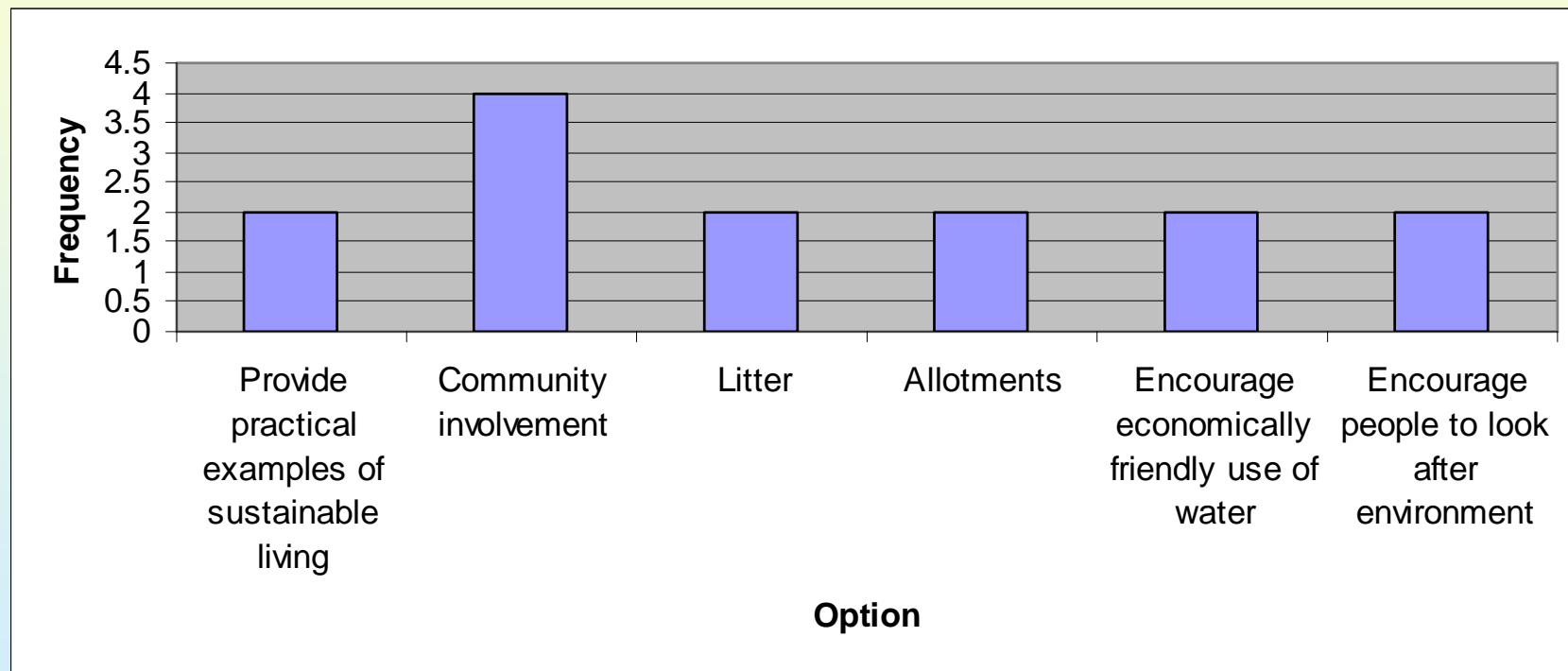
Two Things That Could Be Done to Live Sustainably



Three Important Issues for Tarvin



Areas of Focus for the Tarvin Environmental Group



Recommendations of the Group

- Customise method of survey collection
- Increase use of public transport
 - Bus service to nearest train station at Mouldsworth 3.2 miles away (Multimap, 2009)
- Increase the community involvement in TEG
- Provide allotments for residents
- Provide incentives for residents to act sustainability
- Use Ashton Hayes practices as an example
 - Involve the school
 - Establish contacts in school PAT
 - Sustainable activities for pupils to learn and apply at home

Thank you for listening

Are there any questions?



References

- Alexander, R. (2009). *Tarvin Project Brief*. [PowerPoint slides]. Retrieved from University of Chester Department of Geography website: http://ganymede2.chester.ac.uk/view.php?title_id=457897
- Carbon Footprint Ltd. (2009). *What Is A Carbon Footprint?*. Retrieved April 28, 2009 from <http://www.carbonfootprint.com/carbonfootprint.html>.
- Mutimap. (2009). *Directions From Tarvin to Mouldsworth*. Retrieved April 29, 2009 from <http://www.mutlimap.com>.
- SD Gateway. (n. d.) *Definitions: Intro To SD*. Retrieved April 28, 2009 from <http://sdgateway.net/introsd/definitions.htm>.