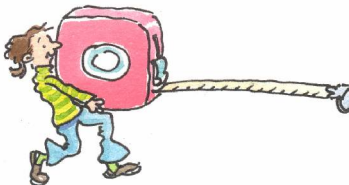




A project of the Eden Mills Millpond Conservation Association Inc.

The Official Guide to the 2009 Eden Mills Carbon Footprint Survey



INTRODUCTION

The Carbon Footprint Survey is the key element in Going Carbon Neutral. We all need to know if we are making a difference and what is making a difference on the road to carbon neutrality.

The third annual emissions survey will be distributed in December 2009 for completion in the third week of January 2010. This Guide will assist residents in assembling the necessary background documents, in calculating emissions and in completing the questionnaire.

The Guide is for your own preparatory use only. It will not be submitted with the survey.

Students from the University of Guelph are once again working with us to provide the analysis and reports, protecting confidentiality. This is a huge boost to the Going Carbon Neutral project.

The Guide addresses only those survey questions which need clarification (marked in the Survey itself with an asterisk). Having the Guide in advance will also help you identify background information you will need to collect in order to answer the questions. If you have any further questions, please contact your neighbourhood survey volunteer.

A few reminders about the value of the survey:

- ~Your personal information will be kept confidential;
- ~Results from all households will be totaled by the students in order to calculate the Village footprint. And compare it to past results.
- ~The annual measurement of household emissions is the key to measuring progress both in your home, and in the Village.
- ~The survey can help you identify areas where you can make changes.
- ~The survey assists the going carbon neutral steering team identify areas where information and community initiatives can be most helpful to residents.

Thank you very much for your participation. It makes all the difference.



Survey Question 6—Comments:

Here you may give specific information about any householder who was absent for a significant part of the year, for example.

Survey Question 15—Home/Building and Water Heating

In order to calculate your heating fuel usage, you will need to collect your bills for each month in 2009. Below you will find three charts to help you record use, depending on your fuel source. — **electricity, fossil fuel, cord wood**. If you use wood pellets, you need only put the number of bags or other units directly into the Survey. If you use more than one heat source, please include all forms.

Because we heat in a variety of ways, the lay-out of bills also varies. On the following page you will see sample bills, and cord wood measurement guidelines.

NOTE: ** On all charts you will see a third column for “\$ spent”. It is preferable for accurate emissions calculations to use the information on the precise amount of fuel used as recorded in the second column. Nevertheless, if necessary, it is also possible for the students to extrapolate the amount used from the amount spent. We encourage you to fill in Column 2 amounts if at all possible. (You may of course wish to fill in both columns for your own interest.)

Whether or not you heat your home with electricity, please provide your total electricity use for all electrical uses. The Survey only requires the total.

If you are a customer of Hydro One the easiest way is to call to ask for your kilowatt consumption for the period of January 2009 to December 2009. They will give you the number over the phone or mail it to you at no charge. Call 1-888-664-9376 - Press 4, Press 6 to speak with a representative.

ELECTRICITY CONSUMPTION 2009

| Date of Statement 2009 | Amount of electricity used kWh | OR | \$ spent on electricity** |
|---------------------------|-----------------------------------|----|---------------------------|
| January | | | |
| February | | | |
| March | | | |
| April | | | |
| May | | | |
| June | | | |
| July | | | |
| August | | | |
| September | | | |
| October | | | |
| November | | | |
| December | | | |
| TOTAL | | | |

Please transfer the total amount to the appropriate line/lines on the Survey.

Survey Question 15 cont'd

PROPANE/OIL CONSUMPTION 2009

| Date of Statement 2009 | Amount of propane/oil used litres | OR | \$ spent on propane/oil** |
|---------------------------|--------------------------------------|----|---------------------------|
| January | | | |
| February | | | |
| March | | | |
| April | | | |
| May | | | |
| June | | | |
| July | | | |
| August | | | |
| September | | | |
| October | | | |
| November | | | |
| December | | | |
| TOTAL | | | |

Enter Total Value in Survey Question 15.

BUSH/FACE CORD OF WOOD

A **Bush Cord** is a wood pile that is: 8 ft. long, 4 ft. high and 4 ft. wide (128 cubic ft.)

A **Face Cord** is stacked wood that is: 8 ft. wide, 4 ft. high and 16" deep (42 cubic ft.)

Wood Cord Calculation



Bush Cord

A = Length Woodpile _____ ft.
 B = Width Woodpile _____ ft.
 C = Height Woodpile _____ ft.
 D = A x B x C = _____ cubic ft.
 Therefore:

$$E = \frac{D}{128} = \text{_____ bush cords}$$

Or

$$E = \frac{D}{42} = \text{_____ face cords}$$




Face Cord

Enter value for E into Survey Question 15.

Survey Question 15 cont'd SAMPLE BILLS

Electricity Bill Sample—Use the Metered Usage in Kilowatt Hours line.



Service address: [REDACTED]


Your account number: [REDACTED]

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How we calculated your charges

| | | |
|---------------------------------|--|----------|
| Balance forward | Amount of your last bill Amount we received on September 25, 2009 - thank you | \$0.00 |
| Your electricity charges | Your service type is Residential High Density | |
| | Electricity used this billing period | |
| | We estimated your meter J2628219 on September 14, 2009 | 009192 |
| | We read your meter on August 13, 2009 | - 008413 |
| | Difference in meter readings | 000779 |
| → | Metered usage in kilowatt-hours (779 x 1) = 779 kWh | |
| | Adjusted usage in kilowatt-hours (779 x 1.085) = 845 kWh | |

Oil Bill Sample — Use the litres column.



10 2422

STATEMENT

NEW BALANCE
\$239.87

18-44 EAST BEAVER CREEK RD.
RICHMOND HILL, ON L4B 1G8
TELEPHONE: (416) 213-7227
TOLL FREE: 1-800-465-6071

SERVICE ADDRESS: [REDACTED]

Account Number: [REDACTED]

EDEN MILLS, ONTARIO N0B 1P0

AMOUNT PAID: [REDACTED]


TRANSACTIONS AFTER THIS DATE WILL APPEAR ON YOUR NEXT STATEMENT

STATEMENT DATE: 022809

↓

| MTH. | DAY | YR. | REFERENCE | DESCRIPTION | LITRES | PRICE | TAX | AMOUNT |
|------|-----|-----|-----------|-------------|--------|--------|-----|----------|
| 02 | 10 | 09 | | PAYMENT | | | | 540.40 |
| 02 | 17 | 09 | 96910 | FURNACE OIL | 443.5 | 0.7490 | | 327.24CR |
| 02 | 17 | 09 | | G. S. T. | | | | 332.18 |
| 02 | 27 | 09 | | PAYMENT | | | | 16.61 |
| | | | | | | | | 322.08CR |

Propane Bill Sample — Use the litres column.



INVOICE

Invoice Number: [REDACTED]

Invoice Date: 06/11/22

Account Number: [REDACTED]

Delivery Location: [REDACTED]

| Date | Order | Ref # | Quantity | Description | Unit Price | Extended Total | Order Total |
|----------|----------|--------|----------|------------------------------|------------|----------------|---------------|
| 06/11/17 | 28892727 | 111915 | 525.9 | Bulk Propane | .6557/LT | 344.83 | 375.01 |
| | | | 1.0 | Transportation Fee | 5.00/EA | 5.00 | 375.01 |
| | | | 1.0 | Hazardous Mat Handling Fee | 3.95/EA | 3.95 | |
| | | | | GSI/HIS | | 21.23 | |
| | | | | Order Total | | | 375.01 |
| | | | | Location Total | | | 375.01 |
| | | | | CURRENT INVOICE TOTAL | | | 375.01 |

Survey Question 17 — Estimating Gross Floor Area of Heated Spaces

Option 1: a) measure or
b) look at property survey

OR Option 2:

1. Measure the distance for each pace (the length of your stride) in feet or metres.

My pace = _____ feet OR metres.

2. **LENGTH:** Walk across the length of your house (outside wall to outside wall) counting your paces.

Length = _____ number of paces

Length: _____ paces X distance/pace _____ = **LENGTH** _____ (feet OR metres)

3. **WIDTH:** Walk across the width of your house (outside wall to outside wall) counting your paces.

Width = _____ number of paces

Width: _____ paces X distance/pace _____ = **WIDTH** _____ (feet OR metres)

4. **Single Floor area** = LENGTH X WIDTH _____ (feet OR metres)

5. **Repeat** for each floor in your house

6. **TOTAL Gross floor area = Total floor areas from each floor**

Note: If any spaces are unheated, these should be subtracted from the total gross floor area.

Please transfer the Total Floor Area to Survey Question 17.

Survey Question 24—Land Transportation Vehicles Fuel Consumption

Fuel Calculation:

Please respond by filling in “Kilometres Travelled AND Fuel Efficiency” if possible.

For determining the **Fuel Efficiency** of your vehicle:

- 1) Fill up your vehicle with fuel.
- 2) Reset your trip odometer to 0.
- 3) When fuel tank is low, fill up the tank again and record the number of litres required to fill it up.
- 4) Take the kilometres traveled since the first fill up and divide that by the number of litres required to fill up the tank the second time.
- 5) This is the fuel efficiency of your car in km/L.

Note: It is preferable to measure several fill-ups to get a truly accurate reading.

Survey Question 34 —Home Maintenance

In cases where home maintenance small engines are electrically powered, the electricity will have been calculated with the total electricity above. Simply put a check mark in the electric column.

Survey Question 38—Recreational Vehicles

While it is preferable for accurate emissions calculations to use the information in the second column on the amount of fuel used, it is also possible to extrapolate the amount from the amount spent. We encourage you to fill in Column 2 if at all possible. You may wish to fill in both columns for your own interest.