Where in the World

## Environmental Education Activity

Resource Sheet

# Emissions Calculator

* Check the food label: Where did your product come from?
* Look it up the location on the chart: how many kilometers did your food travel?
* Which method of transportation did your food use to get here? Plane, boat, train, truck?
* Use the table below to calculate the emissions produced from the transport of your food:

|  |
| --- |
| Grams of GHG emissions per 1 km traveled for each 1 kg of food |
| Plane | 1.1010g |
| Truck | 0.2699g |
| Boat | 0.1303g |
| Train | 0.2699g |

For example, If a 1kg of tomatoes from Mexico travels 4200km by truck to reach your community the calculation would be done as follows:

1kg tomatoes x 4200km x 0.2699g GHGs/ km = 1129.8g GHGs for 1 kg of tomatoes

That means that 1.1298kg of GHGs are emitted to the atmosphere, the same amount as going for a 3.6km in an average Canadian Car.

# World Map



# What’s in My Grocery Bag?

|  |  |  |  |
| --- | --- | --- | --- |
| AppleProduct of New ZealandCould this be produced locally? | BananaProduct of Costa RicaCould this be produced locally? | BeefProduct of AlbertaCould this be produced locally? | Wheat FlourProduct of SaskatchewanCould this be produced locally? |
| TomatoProduct of MexicoCould this be produced locally? | EggsProduct of Hay RiverCould this be produced locally? | PotatoesProduct of PEICould this be produced locally? | CarrotsProduct of FloridaCould this be produced locally? |
| MangoProduct of IndiaCould this be produced locally? | Grapes Product of SpainCould this be produced locally? | Wild CranberriesProduct of the bush near my community | PeasProduct of my garden |
| OrangeProduct of UruguayCould this be produced locally? | Fair Trade CoffeeProduct of EthiopiaCould this be produced locally? | Fair Trade ChocolateProduct of EcuadorCould this be produced locally? | KaleProduct of CaliforniaCould this be produced locally? |

# Distance Chart

|  |  |  |
| --- | --- | --- |
| Product | Imported Distance (Km) | Method of Transport |
| Apple- New Zealand | 13,131 | Boat |
| Banana- Costa Rica | 8,815 | Plane |
| Beef- Alberta | 1,455 | Truck |
| Flour- Saskatchewan | 2,206 | Truck |
| Tomato- Mexico | 5,455 | Truck |
| Eggs- Hay River | 481 | Truck |
| Potatoes- PEI | 6,140 | Truck |
| Carrots- Florida | 6,280  | Truck |
| Mango- India | 9,886 | Plane |
| Grapes Spain | 7,063 | Plane |
| Orange- Uruguay | 11,942 | Plane |
| Coffee- Ethiopia | 11,744 | Plane |
| Chocolate- Ecuador | 7,732 | Boat |
| Kale- California | 4,228 | Truck |