

HANDOUT 2.4 A - BICYCLE STATISTICS WORKSHEET

I. Directions: Refer to the following Bicycle Statistics Chart, *Percent of Trips by Bicycle in Selected Cities*, to help you answer the following questions.

*Omit question 4 if a physical map of Germany, Canada, and the USA are not available.

1. State the German, Canadian, and US city with the highest percentage of biking.
2. How many German cities score below the highest percentage found in the USA and Canada?
3. Based on your background knowledge of Germany, what efforts do you think are being made to help promote the use of bicycling for transportation? List two.
4. Review the cities on a physical map of Germany, Canada, and the USA. Can any connections be drawn between the geography of the region and the percentage of bicycle usage in the area?

II. Directions: Using the statistics stated in the paragraph below create a chart or bar graph that depicts the information. Be sure to include a title, axes/column labels, and accurate data. Use graph paper if available.

When one compares a country's percentage of trips taken by different modes of travel - bicycle, walking, public transit, car, and "other", it becomes apparent which countries are more dependent upon the earth's natural resources for fuel and which countries have a greener society. Which countries (USA, Canada and Germany) do you think are making more of an effort to create a sustainable environment? Trips made by bicycles account for 1% of all transportation in the US and Canada, compared to the Germans who use the bicycle for 12% of their travel. When walking the Germans score higher at 22% with Canada at 10% beating the US by 1%. How do our countries compare with public transit (subway, train, or bus system)? Germany comes in ahead at 16%, but Canada is not far behind with 14%. The US lags at 3%. When it comes to using the car, the US rallies at 84%. Canada is close behind at 74%, and Germany is 35% behind the US! For other modes of travel such as skateboarding or airplanes, Germany and Canada tie at 2% below the US total of 3%.

Sources: *ibike* (n.d.) Retrieved 1.7.13 from <http://www.ibike.org/library/statistics-data.htm>

John Pucher, *Transportation Quarterly*, 98-1 (from various transport ministries and depts., latest avail. year)

Percent of Trips by Bicycle in Selected Cities

Country	City	%
Germany	Muenster	40.0 %
	Freiburg	27.0 %
	Bremen	23.0 %
	Munich	20.0 %
	Dresden	17.0 %
	Karlsruhe	16.0 %
	Berlin	13.0 %
	Leipzig	13.0 %
	Frankfurt	10.0 %
	Nuremberg	9.0 %
	Dusseldorf	8.0 %
	Stuttgart	6.0 %
	Wiesbaden	3.0 %
USA	Davis	15.0 %
	San Francisco	6.0 %
	Portland	3.6 %
	Minneapolis	3.4 %
	Washington, DC	1.7 %
	Denver	1.4%
	Chicago	0.7%
	New York City	0.6%
Canada	Victoria	4.8%
	Saskatoon	2.5%
	Ottawa / Hull	1.9%
	Calgary	1.5%
	Winnipeg	1.4%
	Quebec City	1.3%
	Montreal	1.3%
	Edmonton	1.2%
	Toronto	0.5%

Sources: Andersen (2005); Department for Transport (2006); Socialdata (2007); Statistics Canada (2007); <http://www.sfmnta.com/cms/bhome/documents/2008SFStateofCyclingReport.pdf> (2008); <http://www.copenhagenize.com/2009/07/worlds-most-bicycle-friendly-cities.html> (2009)

BICYCLE STATISTICS WORKSHEET (ANSWERS)

I. Directions: Refer to the following Bicycle Statistics Chart, *Percent of Trips by Bicycle in Selected Cities*, to help you answer the following questions.

*Omit question 4 if a physical map of Germany, Canada, and the USA are not available.

1. State the German, Canadian, and US city with the highest percentage of biking.

Muenster, Germany

Davis, USA

Victoria, Canada

2. How many German cities score below the highest percentage found in the USA and Canada?

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3. Based on your background knowledge of Germany, what efforts do you think are being made to help promote the use of bicycling for transportation? List two.

Suggested answers: Bike lanes, traffic lights for bike lanes, taxes on cars, compulsory cycling safety education in schools, areas for bike parking, allow bikes on public transport system, cycling safety campaigns, convenient bike rentals in major areas, training for motorists to respect cyclists, motorists responsible for almost all crashes with cyclists, etc.

4. Review the cities on a physical map of Germany, Canada, and the USA. Can any connections be drawn between the geography of the region and the percentage of bicycle usage in the area?

Many of the cities are located in valleys or port areas where the land would be less hilly.

II. Directions: Using the statistics stated in the paragraph below create a chart or bar graph that depicts the information. Be sure to include a title, axes/column labels, and accurate data. Use graph paper if available.

Percent of Trips by Travel Mode (all trip purposes)					
Country	Bicycle	Walking	Public Transit	Car	Other
Germany	12%	22%	16%	49%	1%
Canada	1%	10%	14%	74%	1%
USA	1%	9%	3%	84%	3%