**WORLD POPULATION WORKSHEET**

The Population Reference Bureau ([www.prb.org](http://www.prb.org)) collects a vast array of data on human populations across the globe. The PRB analyzes and organizes complex demographic data and research in a way that is understandable and meaningful people of every background and interest level. Each year they focus on a new theme that is relevant to current world events and trends. In 2011 for instance, the news of the day was diet and nutrition. With rising concerns about the increased incidence of obesity, data looked at the incidence of non-communicable diseases across the globe. In 2013, the Occupy Movement was in the hot seat, so the most recent published data set focused on the distribution of wealth.

Statistics on everything from population size, average life expectancy, natural rate of increase, health related statistics, to environmental issues is at your finger tips using PRB’s [interactive map](http://www.prb.org/Publications/Datasheets/2013/2013-world-population-data-sheet.aspx). You can interact with the map in many different ways. Browse through 18 indicators organized in six tabs found at the top of the map: population, births & deaths, life expectancy, HIV/AIDS, family planning, and income. You can view data on global, regional, or country as a map or a table by either hovering your mouse pointer over different areas in the map or clicking on the table icon. In both the map view and the table view you can select a region or country from the pull-down menu located under the tabs. You will be using this interactive map to collect and analyze data on various regions and countries listed in Table 1 on the next page.

As you explore the different tabs found in the interactive and familiarize yourself with the information that can be found, you can hover over the “Data Definitions” icon to learn about the different statistics presented. You will use the map to collect the following statistics.

* Natural rate of increase (found under the “POPULATION” tab)
* Total Fertility Rate (Found under the “BIRTHS AND DEATHS” tab)
* Life expectancy (both sexes)
* Percent of women with access to modern birth control (Found under the ”FAMILY PLANNING” tab)

For even more detail, you can click the link at the bottom of the map to access the PDF data sheet. Here you can find data such as percent of population that live in urban areas, and percent that have access to modern sanitation. Using the PDF, you will collect and record the statistics listed above for regions listed as More, Less, and Least Developed. You will find this data in the first section of the chart starting on page 7.

In addition to all the data discussed above, you will use the PDF to find 3 more pieces of data for all the regions listed in Table 1 on the next page. These statistics are:

* Percent of the region living in urban areas (found in the last column of the chart starting on page 7)
* Population per square kilometer and percent with access to improved sanitation, both urban and rural (found in the chart starting on page 13)

Once you have filled out the table, answer the analysis questions that follow the table.

Use the **map** or **PDF** to find data on the following countries:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Region | Natural Rate of Increase | Total Fertility Rate | Life Expectancy (Both Sexes) | % living in urban areas | Population per Square Kilometer | % Population with improved sanitation  Urban Rural | | Married women using modern methods of birth control (%) |
| Europe |  |  |  |  |  |  |  |  |
| Africa |  |  |  |  |  |  |  |  |
| Afghanistan |  |  |  |  |  |  |  |  |
| United States |  |  |  |  |  |  |  |  |
| Japan |  |  |  |  |  |  |  |  |
| Mexico |  |  |  |  |  |  |  |  |
| China |  |  |  |  |  |  |  |  |
| Niger |  |  |  |  |  |  |  |  |
| India |  |  |  |  |  |  |  |  |
| United Kingdom |  |  |  |  |  |  |  |  |
| More Developed |  |  |  |  |  |  |  |  |
| Less Developed  (Including China) |  |  |  |  |  |  |  |  |
| Least Developed |  |  |  |  |  |  |  |  |

All of the data you collected are in some way measurements of development the country is in. Analyze the data and answer the following questions:

1. Based on the Demographic Transition model discussed on class which of the above countries are:
   1. Pre-Industrial?
   2. Transitional?
   3. Industrial?
   4. Post-Industrial?
2. Explain how the use of birth control and access to modern sanitation can be an indication of development.
3. Which statistic in your chart represents population density? How does population density contribute to spread of disease?
4. Do you see a correlation between stage of development and life expectancy or level of urbanization? Explain what you think the relationship might be.
5. In the lecture material you learned about Replacement Level Fertility (RLF), and in this activity you collected Total Fertility Rate (TFR). Discuss how these numbers are related. Which of the countries that you examined have a TFR that is lower than RLF?