

## Earth/Environmental Science Homework & Test Review

**Week 7: May 18<sup>th</sup> – May, 22<sup>th</sup> 2015**  
**DUE DATE: Friday, May 22<sup>th</sup>**

**Weekly Reminders Checklist:**

- Computer Lab on Tuesday, May 19<sup>th</sup>
- Notebook check on Friday, May 22<sup>nd</sup> : Warm-Ups, Updated Table of Contents, Biome Map & Table (4/29), Causes of declining biodiversity questions (4/20) and current even on sinkholes (5/14)
- Have you checked PowerSchool to see if you have any missing assignments?

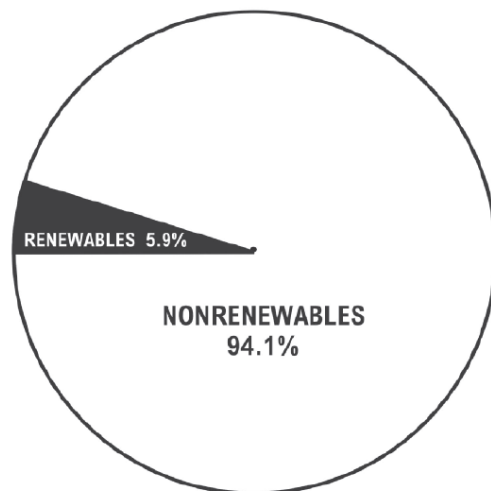
**Vocabulary:** Fill in the missing areas on the table below using your textbook, class activities and any other resources you find helpful.

Vocabulary Word	Definition	Example/Application
Q	<b>Quad. Also known as quadrillion British thermal units.</b>	<b>One quad is equivalent to lighting 1x10<sup>15</sup> matches</b>
Ecological Footprint	<b>A measure of human demand on the Earth's ecosystems</b>	<i>See computer lab activity for this week!</i>
ppm	<b>Parts per million. 1 milligram of something per liter.</b>	<b>Can be used to describe the amount of carbon dioxide in the air.</b>
kWh	<b>kilowatt-hour, a unit of energy especially electricity</b>	<b>Leaving one 100 Watt light-bulb on for 10 hours is 1 kWh worth of energy</b>

**Key Questions from the Week:** Answer the questions below pertaining to this week.

**1. Convert the quads into percentages. Then fill in the pie chart appropriately to display the distribution of energy production from renewable and nonrenewable sources in the United States.**

PETROLEUM	38.2 Q	=	38.3 %
NATURAL GAS	23.0 Q	=	23.1 %
COAL	22.5 Q	=	22.6 %
URANIUM	8.2 Q	=	8.2 %
BIOMASS	2.8 Q	=	2.8 %
HYDROPOWER	2.7 Q	=	2.7 %
PROPANE	1.9 Q	=	1.9 %
GEOTHERMAL, SOLAR, WIND AND OTHER	0.4 Q	=	0.4 %



**2. Using your results from #1, what percentage of the United States energy production comes from renewable energy sources?**

**5.9%**

**3. What types of actions generate an ecological footprint?**

**Consumption of goods, use of energy which pollutes, generation of waste....**

**4. Calculate the percent CO<sub>2</sub> concentration increase between 1914 and 1960 using the below information:**

**1914 CO<sub>2</sub> concentration = 301 ppm**

**1960 CO<sub>2</sub> concentration = 316 ppm**

**Percent Increase = (15/301)x100 = 4.98%**

**Research Question for the Week:** Trace your foot on the paper, placing your heel in the bottom left corner. If your foot doesn't fit, consider attaching an additional blank page. Add pictures, words, and/or diagrams to fill in your foot to represent how you use the world's energy and resources (lights, electronics, food etc.) Afterwards, list three actions you can take to reduce your *ecological footprint*.

### **My Ecological Footprint**

Three Actions I can take to reduce the size of my footprint:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Answers will vary by student**

