

*APES: National Geographic- The Human Footprint*

Name: \_\_\_\_\_

Period: \_\_\_\_\_

1: How much *land mass* is *unaffected* by people? \_\_\_\_\_

**Diapers:**

2: How many *diapers* does the *average child* use in his *lifetime*? \_\_\_\_\_

3: What *materials* go into making *diapers*? (*How much*?)

- **Crude Oil:** \_\_\_\_\_
- **Plastics:** \_\_\_\_\_
- **Wood/Trees:** \_\_\_\_\_

4: How many *diapers* are *thrown away* in the U.S. per year? \_\_\_\_\_

5: How many *years* does it take for *diapers* to *biodegrade*? \_\_\_\_\_

6: Why are *reusable diapers* not much better? **Explain.**

**Milk**

7: How many *dairy farms* are in the U.S.? \_\_\_\_\_

8: How many *gallons of milk* does a cow produce per day? \_\_\_\_\_

9: How many *pounds* of **food** \_\_\_\_\_ **and water** \_\_\_\_\_ does the *average cow* consume per day?

10: How many *cows* are needed to serve the United States? \_\_\_\_\_

How many *acres* do they use? \_\_\_\_\_

11: Reflect on the amount of *milk* consumed in a *lifetime*- *how much*?

\_\_\_\_\_

*Were you aware of this amount? Why or why not?*

12: How many *pounds of food* do we eat as a nation per day? \_\_\_\_\_

13: How many are consumed per person? (*in a lifetime*)

- **Bull/Cows** \_\_\_\_\_
- **Pigs** \_\_\_\_\_
- **Chickens** \_\_\_\_\_
- **Eggs** \_\_\_\_\_
- **Potatoes** \_\_\_\_\_
- **Bread** \_\_\_\_\_
- **Hot Dogs** \_\_\_\_\_
- **Hamburgers** \_\_\_\_\_
- **Candy** \_\_\_\_\_
- **Pounds of Sugar** \_\_\_\_\_

**14: Cocktail Cherries:** How are they processed? *What goes into making them?*

**15: Bananas:** *How far do our bananas travel?* \_\_\_\_\_

*How many will you consume in a lifetime?* \_\_\_\_\_

**16: Oranges:** *How far do our oranges travel?* \_\_\_\_\_ *This is the same as:*

\_\_\_\_\_

**17: Plastics:** List below what types of plastics you use:

**18:** *How much plastic does the average American use?* \_\_\_\_\_

**19: Aluminum:** How many cans will you use in your lifetime? \_\_\_\_\_

**20: Water:** *How many showers will you take?* \_\_\_\_\_

*How many gallons of water is this?*

\_\_\_\_\_

**21:** *How many?*

- **Toothbrushes:** \_\_\_\_\_
- **Tubes of toothpaste:** \_\_\_\_\_
- **Bottles of shampoo** \_\_\_\_\_

**22: Why** do we take the convenience of water for granted? **Explain.**

**23:** *How many gallons of water will we use (excluding showers)?*

\_\_\_\_\_

**24:** *How many gallons of sewer do we produce per day?* \_\_\_\_\_

**25:** What happens to the *solid waste we flush in the toilet?* **Explain.**

**26:** How many *plastic bottles* do we throw away per day? \_\_\_\_\_

**Glass** per year? \_\_\_\_\_

**27:** *How many cans* are tossed every year? \_\_\_\_\_

**28:** *How many pounds of clothes* get thrown away per year? \_\_\_\_\_

**29:** How much does it take to make *one T-shirt?*

- **Water:**
- **Cotton:**
- **Air Miles:**

*Jeans?*

- **Miles:**

**Shoes:** What goes into making them?

*(List)*

**30:** *Reflect on what goes into an average woman's wardrobe.*

**31: Laundry:** *How much water does it take to do our laundry?* \_\_\_\_\_

**32: Housing:** *How much does it take to build a house?*

- **Trees**
- **Siding**
- **Concrete**
- **Insulation**
- **Copper Piping**
- **Windows**
- **Paint**

**33: Appliances:** *How many do we use in a lifetime?*

- **Microwaves**
- **Air Conditioners**
- **TV's**
- **Refrigerators**
- **Computers**
- **Washing Machines**

**34:** *How much coal does a hair dryer take to run?*

**35: Electricity:**  $\frac{1}{2}$  of all our electricity in the United States comes from \_\_\_\_\_

**36: Electricity** accounts for how much CO<sub>2</sub> emissions per year? \_\_\_\_\_

**37:** *What small changes could you make in your life to reduce your Carbon Dioxide footprint?*

- \*
- \*
- \*

**38:** *Why do computers have such a "heavy footprint"?* **Explain.**

**39: TV:** *How many years are spent watching TV?* \_\_\_\_\_

**40:** *How many Kilowatts of electricity does this take?* \_\_\_\_\_

**41: Newspaper:** *How many trees are used per person for newspapers?*

\_\_\_\_\_

**42:** *How many trees are used for the Sunday paper alone?* \_\_\_\_\_

*How many trees are used for the entire year?* \_\_\_\_\_

**43:** By using trees for newspapers- *how much Carbon Dioxide is released into the atmosphere per day?* \_\_\_\_\_

**44: Paper goods used: (List)**

**45: Cars:** What % of the world's cars do we use? \_\_\_\_\_

**46:** *What materials does it take to make a car?* **List below:**

**47:** Why is a car considered to have a global footprint? **Explain.**

**48:** *How many barrels of oil do we use per day?* \_\_\_\_\_

**49:** How do airplanes contribute to the footprint? Explain.

**50:** *How many tons of carbon do we generate?* \_\_\_\_\_

**51: Cell Phones:** How many get thrown away? \_\_\_\_\_ *What are they made of (list):*

**52:** Where is **Coltan** mined?

\_\_\_\_\_  
*Who and what does this mining impact?*

*Why? Explain.*

**53:** *What should we do to make a difference?*

**54:** How does urban sprawl affect wildlife/agricultural land? Explain.

**55:** What is happening to threatened species in the United States? Why?

**56:** How many acres will we lose if we continue like we have? \_\_\_\_\_

**57:** How many species are threatened/ endangered in the United States?

\_\_\_\_\_  
**58:** What is happening to our wetlands?

**59:** What is happening to the Colorado River? Why?

**60:** Why does it matter if we save some animals? Explain.

**61:** How does our footprint change as we get older?

**Reflection/Assignment:** *Reflect on the video below: What are your thoughts/feelings after watching this video? Will you make any changes based on what you saw? Why or why not? Explain.*

**Reflection Project: Choose 1 of the following: 50 Pts.**

- *Make a collage representing the topics of the video*
- *Re-use something old and make it into a new product for use (be creative!)*
- *Research and visually represent the life cycle of a product (cradle to grave)*
- *Write a poem/song/story about the human footprint*
- *Start a school-wide campaign to reduce the human footprint (recycling)*
- *Create a video about the human footprint*
- *Think of some other ways to reflect and spread the word!*