

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 CO₂ 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: Using some of the data that you compiled, chose ONE theme and make a word cloud representing the terms, facts, data, etc. from the video. Make it compelling and interesting.

Hints: *Good sites to use*

tagxedo.com

wordle.net

tagul.com