Name	Period	Date	

Unit **13.2 Human Environment**

What are the major factors contributing to environmental **5** change today? How are humans responding to environmental change?

Human Geography

The following information co Note: All of the following info Environmental Change				
· The of pla	ants and animals occurs w/	or w/o human acti	vity.	
· More = greater	r capacity for environmenta	al change (e.g. defo	restation was so severe in G	China that Mao Zedong
ordered everyone to plant a	= -			
· MDCs consume more	than LDCs; co	nsumption is mostl	y in LDCs &	in MDCs (a baby
· MDCs consume more born in the US will consume	e times more energy	than a baby born i	n Bangladesh!)	
· MDCs have more technological	ogy, and therefore a greater	need for	_ (e.g. fossil fuels – cause p	
the population to alter large	portions of the planet in a	shorter amount of t	ime	
Trends in Human Cons	umption			
· Consumption habits have	-	ole – the demand fo	r low-cost hamburgers in U	JS (McDonalds) has led
to the cutting down of trees				
* As you can see in the table, the · Improvements in the techn		nuch more water than	for crops.	
over time have required more		Crop	Liters/F	Kg Water
1. By or,	ic chergy at each level.	Potatoes		-0
2. Domesticated,		Wheat		
3. boats		Corn		
4 engine (invented)	ed toward the beginning of			
the industrial revolution)	ed toward the beginning of	Chicken		
	ngine (invented toward the			
5. en end of the industrial revolut	ion)			
•	- /			
Today's means of transport			than ever before; moves sp	ecies to new regions (e.g
Australian fir trees in West	Palm Beach), diseases (SA	RS)		
· Before the 1800s,			F. W. 18	
humans relied on	60	L'EST	Arctic Circle	282
energy, mostly		3 37 /		with.
through the consumption	40"	40:	40	40
of plants & animals =	· The			PACIFIC
wood & meat).	20° Tropic of Cancer	20° 20° ATLANTIC ATLAN	ne Day	OCEAN
· Global energy	PACIFIC	OCEAN OCE	NO STATE INDIAN	and the same
production was%	equator OCEAN	\$5. D	OCEAN	Equato
greater in 1999 than in	20°	20°	200	A 20° Transport
1971; and this rate has	Tropic of Capricorn	120	OCEAN	20° Tropic of Capricom
been steadily increasing.	40°	40" 40"	40° 40°	40°
power is	SOUTHERN	OCEAN	SOUTHERN +	OCEAN
largely reliable, but not	GLOBAL OIL SLICKS 1985	600 600 600	0° 20° 40° 60° 60° Antarctic Circle	100° 120° 140° 160° 60°
100% safe (e.g. Three	1985		7	

100% safe (e.g. Three Mile Island ('79),

Chernobyl ('86)).

Visible oil slicks

Environmental Policies in Response to Environ	
	e, or state; often times these difficulties cross
political boundaries.	
• Many international agreements have been spear-nead the formal political arena.	ed by (NGOs) that operate outside
	(CEE) a joint project of the United Nations and the
World Bank: the GEF funds projects related to four issu	ues (since 1992): (GEF) – a joint project of the United Nations and the
1. Loss of (plants & animals),	ues (since 1772).
2. Protection of the layer,	
3. Global change (temperatures have been ri	sing), &
4 Protection of international	
· Although the GEF has been charged with protecting kenvironment – it still functions in abased wor	
Specific Policy Examples	
·~170 countries signed an agreement proposed by the	
dealing with in 1993; the participating of	
establish a system to reduce activities that have a negat	
· It has been an ongoing struggle to find a balance betw	
promote local economic diversity & preserve biodivers global economic; there has also been cont	
giodai economic, there has also been cont	sharing the costs for conservation.
Assimilated GOME total ozone KNMI/ESA	· A naturally occurring layer exists in the upper
17-10-00 12h	levels of the stratosphere (when O ₃ is too plentiful in the
	troposphere (0-16 kilometer altitude), can occur).
	• The ozone layer protects the Earth from the Sun's harmful
	rays; (chlorofluorocarbons) found in
	refrigerants, fire extinguishers, and aerosol cans used since the
	1950s were found to be harmful in the; the image to the
1 Day gran	left shows a "hole" in the ozone layer over
\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	· The was signed in 1987 to deal w/ CFCs.
Op Op	• The was signed in 1997 by more than
	80 countries; it laid out plans to reduce the emission of
107	gases; the has decided to go its own
	course – and has actually abandoned it unilaterally under the
no data <160 176 200 226 260 276 300 526 360 376 400 426 450 476 >600 DU	current administration.
The Future	
· Global conditions are, in that future co	
reliably predicted; small actions today may impact the	world greatly down
the road.	
· In the 1970s, raised oil prices (gas lines, ene	
increases in smaller automobiles, reduction in speed lin	nits).

· Today, _____ (major "gas-guzzlers") are more popular than ever, and gas is relatively cheap (\sim 1/3 EU); but this poses the potential for another crisis – short memories. · ____ is not a renewable resource, and as the world becomes more developed, it is consumed in greater quantities & demand increases.

· The _____ may be a: "warmer, more crowded, more connected, but more diverse world."

