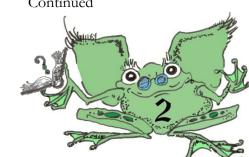
MiSP Ecology/Pollution — Global Warming Assessment L2

Name	Date			
1.	The greenhouse effect is caused by certain gases in the atmosphere. Carbon dioxide (CO ₂) is one of them. Name two (2) other greenhouse gases:			
2.	The greenhouse effect has been blamed for a recent period of global warming. Nonetheless, the greenhouse effect is a good thing for life on Earth. Explain why the greenhouse effect is good for living things.			

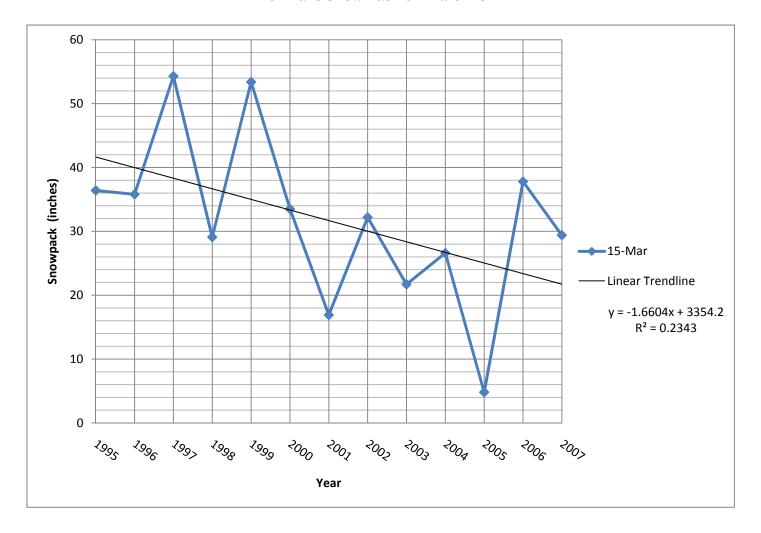
Continued



Refer to the graph below to answer questions 3-10. It shows the depth of snow on March 15 (near the end of winter) at a place called Fish Lake in the North Cascade Mountains from 1995 to 2007. Each year scientists measured the depth of the snow (snow pack). *During the years of this study, there was an increase in the amount of winter precipitation.* The data was plotted and a best-fit line was drawn. (Data from the North Cascade Glacier Climate Project,

http://www.nichols.edu/departments/glacier/snowpack_variations_in_the_north.htm)

Fish Lake Snow Pack on March 15



3. According to the best-fit line on the graph, what has happened to the depth of the snow pack from 1995 to 2007 (years 0 to 12)?

	ream of scientists considers this data to be evidence of global warming. Do y explain why you agree. If no, explain why you do not agree.
Using the best March 15 in 2	r-fit line, predict what the snow pack (depth of snow in inches) will be on 015.
Which of the line on the gra	following values is the closest to the unit rate of change (slope) for the best-
a0.6 <u>inches</u> year	
b. 0.6 <u>inches</u> year	
c1.6 <u>inches</u> year	
d. 1.6 <u>inches</u> year	

7. Using the unit rate of change (slope) you calculated and picked in #6, what will happen to the depth of the snow after five (5) years? Will it increase or decrease? By what numerical value will it change?

