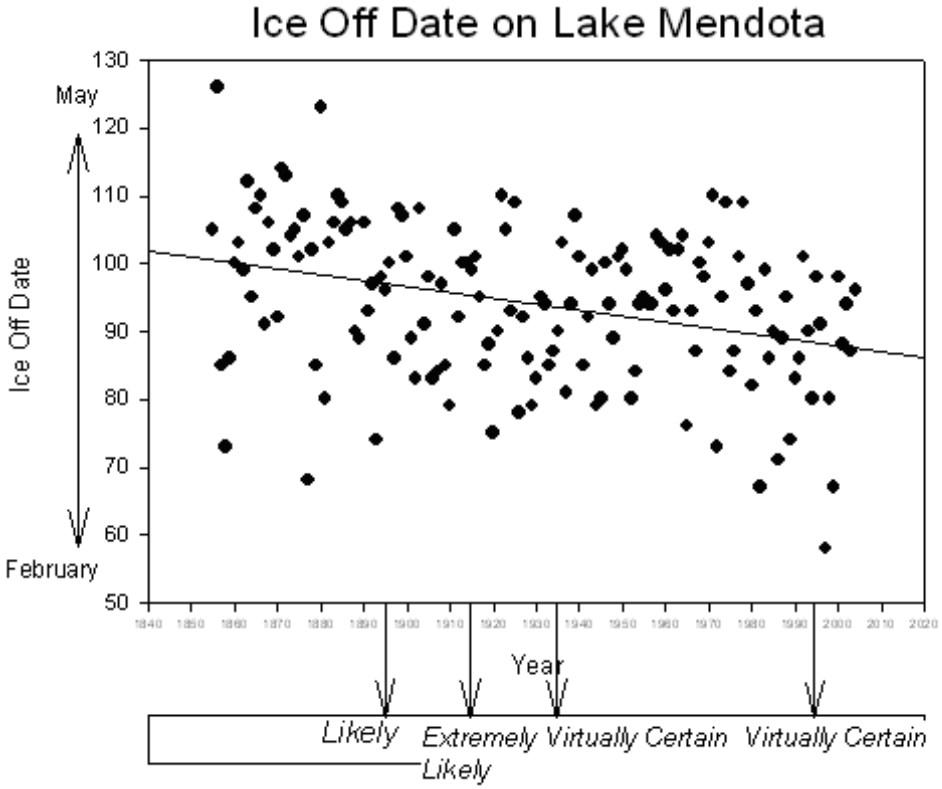
NAME ***Answer Key***

1) Enter your results from the Lake Mendota ice off comparison in this table:

Which comparison?	**T Stat**	**Probability of Occurrence**	**IPCC Likelihood Scale**
1 vs. 2	0.958	< 85%	Likely
1 vs. 3	**2.024**	< 98%	Extremely Likely
1 vs. 4	**2.879**	< 99.75%	Virtually Certain
1 vs. 7	**3.697**	< 99.99%	Virtually Certain

2) Report the Likelihood Scale results on the graph below:



3) Did the certainty level for 1994 match the certainty level you reported for the *qualitative* analysis? Why or why not?

4) Did the level of certainty change over time as you hypothesized it would?

5) Briefly comment on the significance between the 2001 IPCC report that stated "most of the global average warming over the past 50 years was *likely* due to anthropogenic greenhouse gas increases…" to the 2007 IPCC report when they changed the wording in the same phrases to "*very likely*".

The certainty level "Likely" has a wide range of probability. It ranges from 66% to 89%. To say that warming is "Very Likely" due to human activities is significant, having a greater than 90% probability, leaving very little uncertainty as to the cause of global warming since the start of the industrial era.