

Name \_\_\_\_\_

# MICROSOFT OFFICE EXCEL or TI-84 GRAPHING CALCULATOR

## Data Analysis Activity

**DATA** (Source: WASHINGTON STATE DEPARTMENT OF HEALTH 2002 Annual Communicable Disease Report, page 17, figure 10 – *E.coli* 0157:H7 – reported cases by month of onset, 1998 – 2002.)

Month	Reported Cases of <i>E.coli</i> 0157:H7				
	1998	1999	2000	2001	2002
January	5	4	4	5	6
February	8	9	3	1	1
March	4	8	10	6	1
April	7	9	9	8	4
May	8	10	25	10	10
June	6	18	35	12	11
July	20	23	50	21	65
August	22	52	38	37	27
September	28	31	27	38	22
October	26	13	20	9	13
November	9	10	4	11	8
December	6	6	6	2	3

1. Use either technology to input the data and organize, then create a line graph of the data.
  - a. **MICROSOFT OFFICE EXCEL:** The easiest way to do this is to copy and paste just the months and cases data above into the cells. NOTE: Start with row #2, leaving row #1 blank. Then go back and enter the years above the # of cases. Create a line graph of all data.
  - b. **TI-84 GRAPHING CALCULATOR:** I would suggest that this version only be done in-class, unless the student is very comfortable with using the calculator functions.
2. Analyze the graph of the *E.coli* 0157:H7 data. Attach the graph you generated to this sheet.
  - a. What do these line graphs have in common?
  - b. What months show spikes?
  - c. What season are these months?
  - d. What do you think is/are the cause(s)?
  - e. What are the possible implications for food safety based on this data?