

Finish Excel 1 Homework

- Chart Location: it's own sheet
- White Background
- Footer:
Name CID Assignment Date
- Print graph only, not data tables.
- Print Preview BEFORE printing.

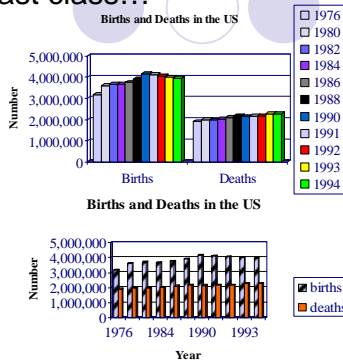
Introduction to Engineering Microsoft Excel

- Agenda
- Scatter Plots
 - Trend Lines

Review from last class...

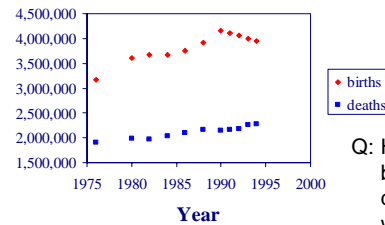
Number of Births and Deaths
in the United States

Year	Births	Deaths
1976	3,167,788	1,909,440
1980	3,612,258	1,989,841
1982	3,680,537	1,974,797
1984	3,669,141	2,039,369
1986	3,756,547	2,105,361
1988	3,909,510	2,167,999
1990	4,158,212	2,148,463
1991	4,110,907	2,169,518
1992	4,065,014	2,175,613
1993	4,000,240	2,268,553
1994	3,952,767	2,278,994



Scatter Plot of Example Data

U.S. Births and Deaths 1976-1994

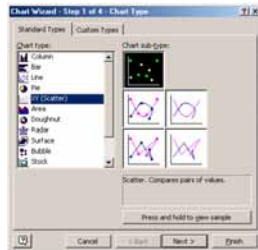


Q: How many
births and
deaths would
we expect in
1998?

Making a Scatter Plot

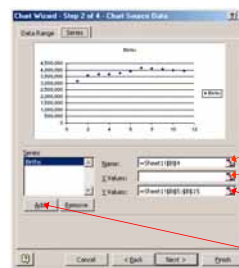
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1. Select either the birth or death column.
2. Click on insert new chart and choose XY (Scatter)



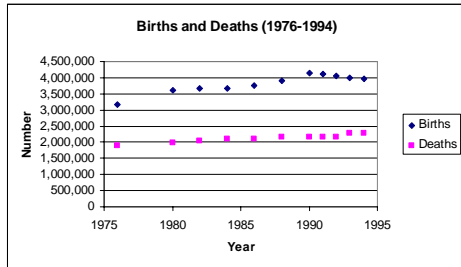
Scatter plot cont.

3. Click on Series and then select the X-values
4. 'Add' another Series and select the X and Y-values for it also
5. Click 'Next'
6. Add in titles and labels and then click 'Finish'



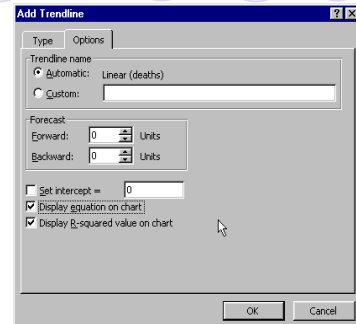
- To name the series
- To select X-Values
- To select Y-Values
- To add another series

Complete Plot of Data

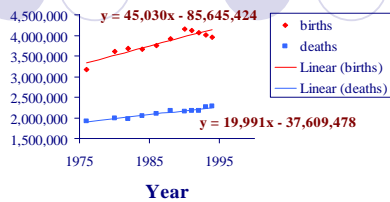


Trendline (cont.)

Under the *Options* tab, you should choose to show the equation of the line on the chart



U.S. Births and Deaths 1976-1994



Using these equations, we can predict the numbers of births and deaths expected in 1998:

$$\begin{aligned} \text{births} &= 4,324,516 \\ \text{deaths} &= 2,332,540 \end{aligned}$$

Do you see any problem with these predictions? I do!

Excel 2 Homework

- Make a scatter chart and add a trend line to predict the average starting salary for an engineering graduate with a B.S. degree in 2005.

Salary Offered to OSU Engineering Graduates with a B.S. Degree			
	Low	High	Average
1990-1991	\$26,000	\$37,000	\$31,500
1991-1992	\$21,000	\$38,000	\$29,500
1992-1993	\$28,000	\$34,000	\$31,000
1993-1994	\$27,000	\$37,000	\$32,000
1994-1995	\$26,000	\$37,000	\$31,500
1995-1996	\$30,000	\$39,000	\$34,500
1996-1997	\$29,000	\$41,000	\$35,000
1997-1998	\$34,000	\$43,000	\$38,500
1998-1999	\$30,000	\$46,000	\$38,000
1999-2000	\$36,000	\$51,000	\$43,500

Data gathered from Ohio State Engineering Career Services