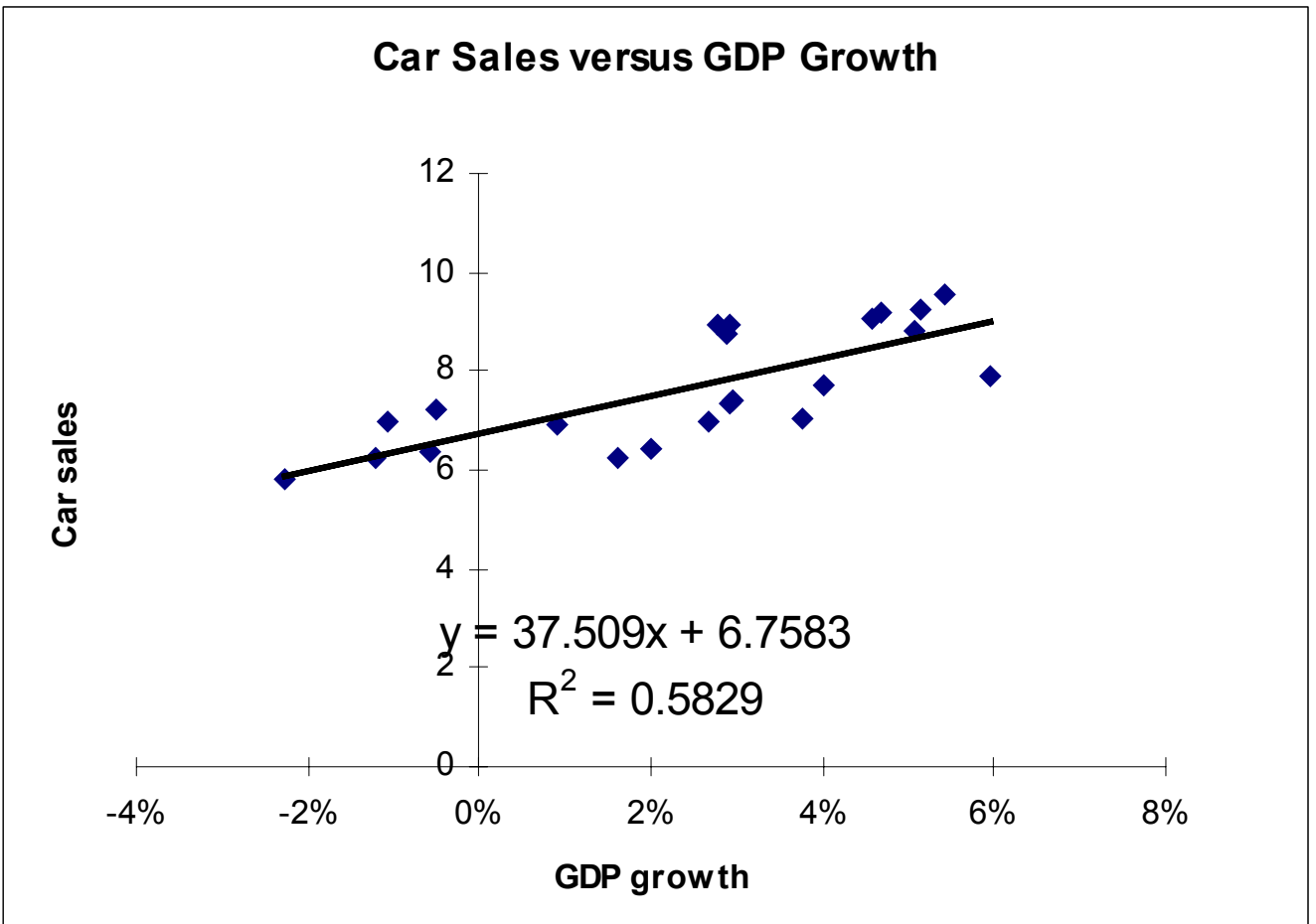


AN EXAMPLE FROM CHAPTER 5

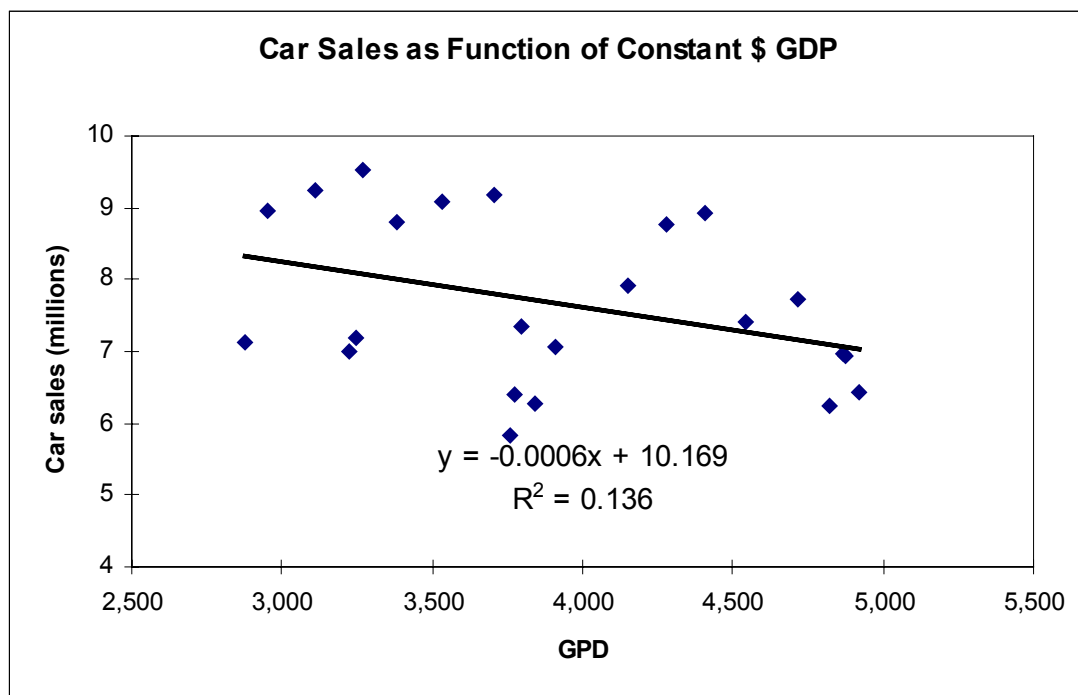
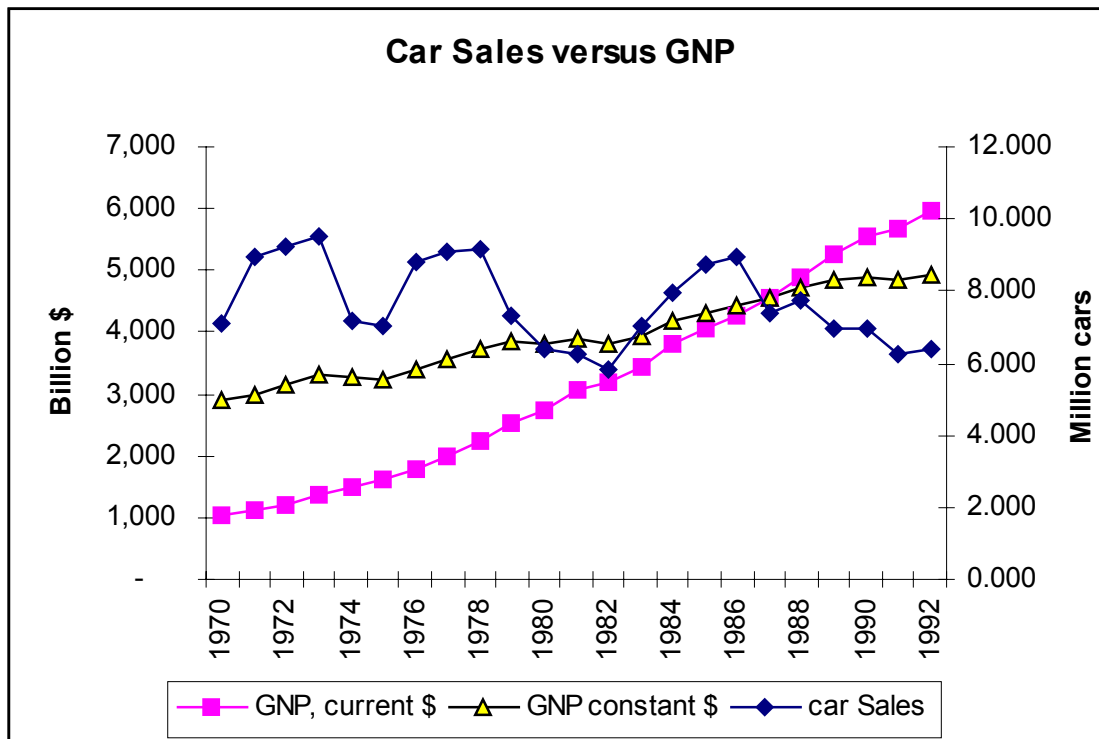
Can we predict total car sales based on GNP?

An exercise in Data Mining

The Final Version of the Model

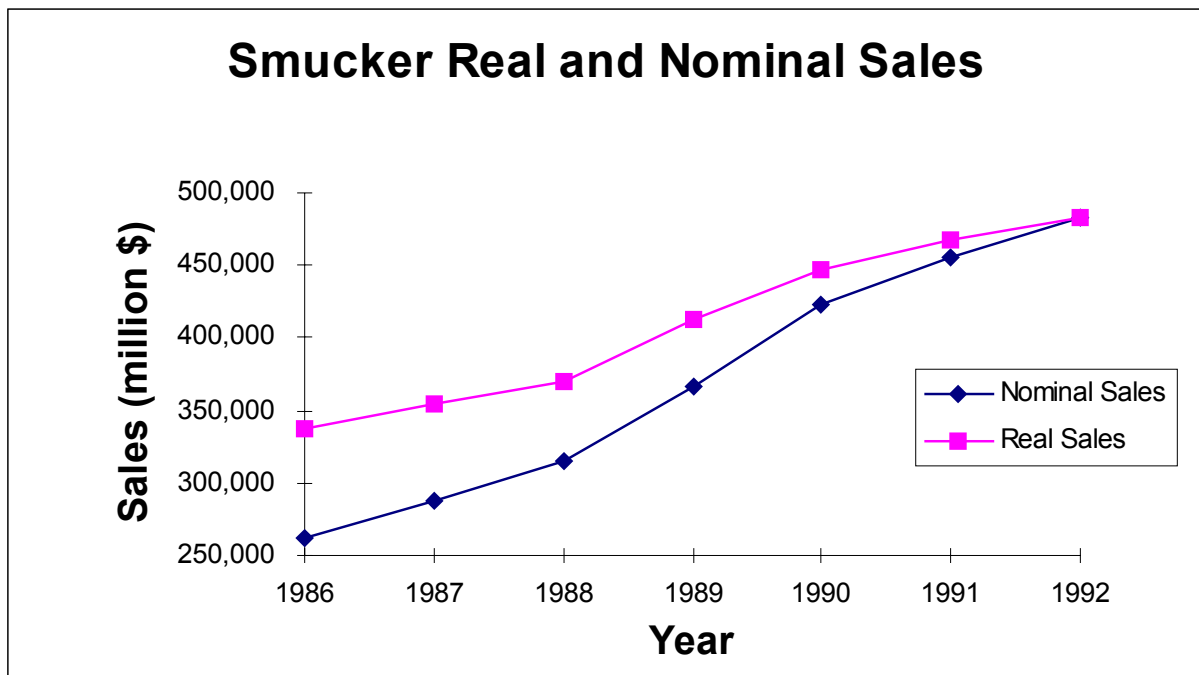


THE DATA MINING WHICH PRECEDED THIS VERSION

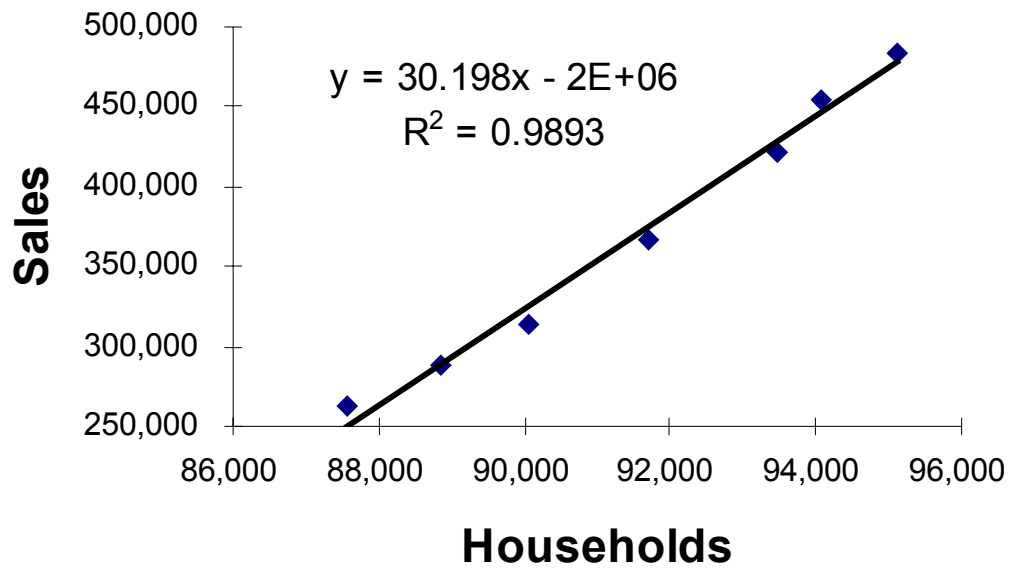


PREDICTING SALES FOR J.M. SMUCKER (Chapter 7)

J.M. Smucker Company							
Some data on Sales, the CPI, and the number of households							
	1986	1987	1988	1989	1990	1991	1992
CPI	110.8	115.7	120.8	126.4	134.2	138.2	142.2
Nominal Sales	262,802	288,263	314,245	366,855	422,357	454,976	483,472
Real Sales	337,278	354,287	369,914	412,712	447,535	468,145	483,472
Households	87,578	88,871	90,046	91,708	93,456	94,076	95,102
Household growth		1.48%	1.32%	1.85%	1.91%	0.66%	1.09%

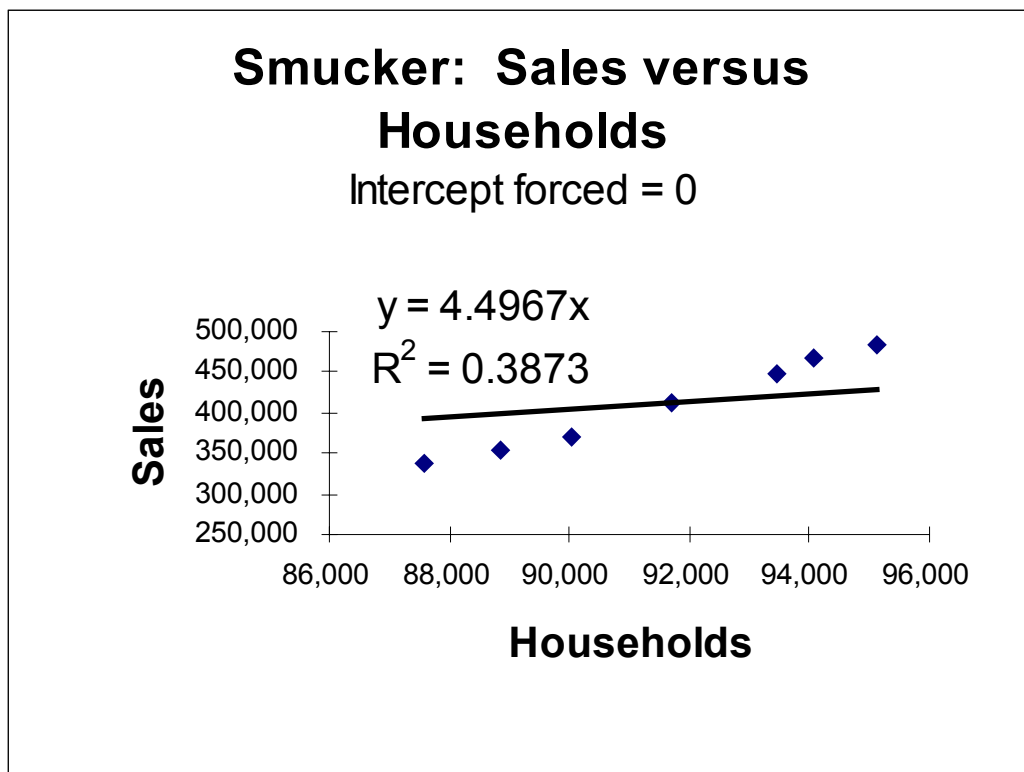


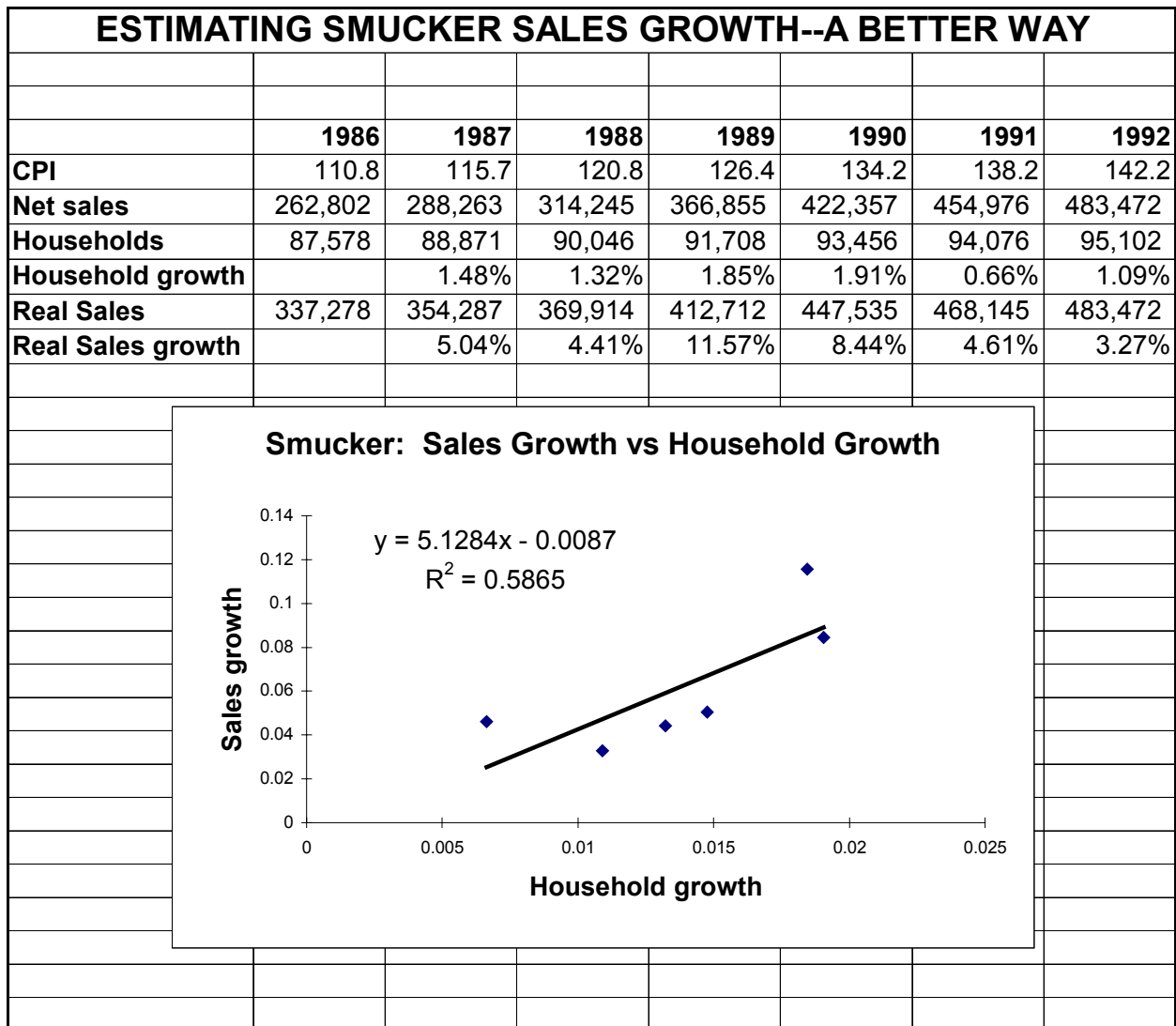
Smucker: Sales versus Households



WHAT'S WRONG WITH THIS?

- The intercept?
- The slope? (Think about Smucker's market share.)
- The R^2 ?





Even so, we have to make allowances for eventual slower growth rate. 5% Sales Growth for each 1% household growth is unsustainable.