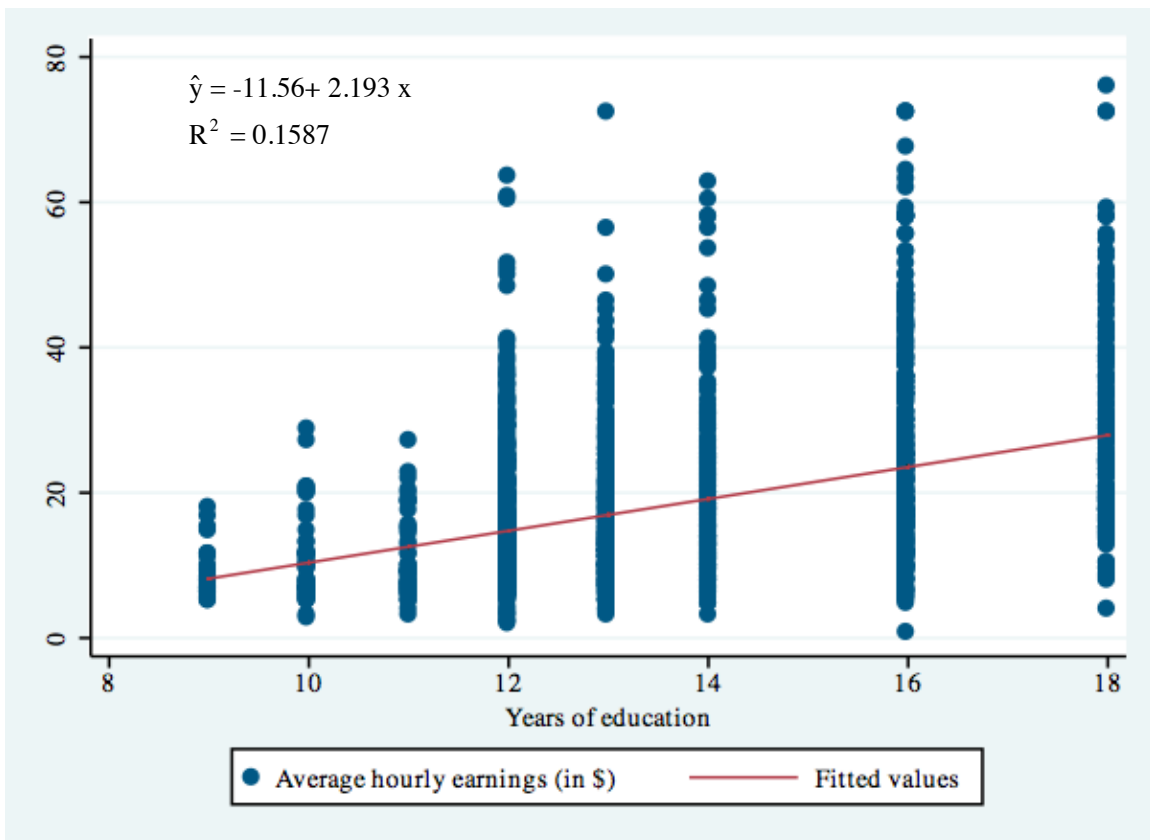


Data source: Current Population Survey 2006. Data available from the Inter-University Consortium for Political and Social Research at the University of Michigan. <http://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/4559?archive=ICPSR&q=current+population+survey+asec>, from which I extracted a random sample of 2000 observations

```
. insheet using "/Users/sadoulet/.../data/CPS_06_2000.csv";
. label variable educ "Years of education";
. label variable wage "Average hourly earnings (in $)";
. reg wage educ;
. predict wagehat;
. twoway (scatter wage educ) (line wagehat educ);
```

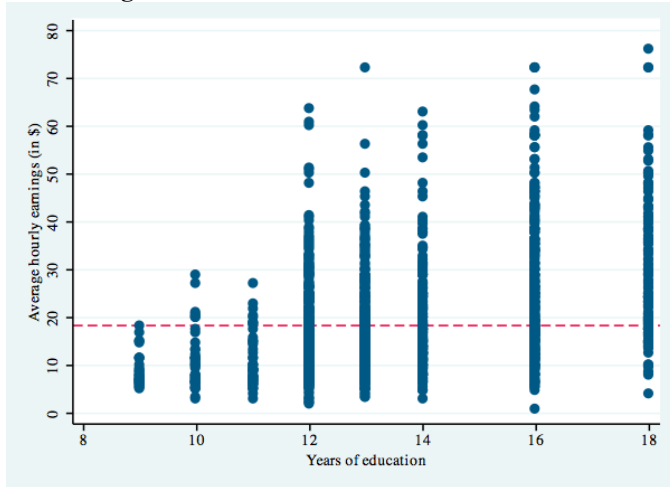


```
. reg wage educ;
```

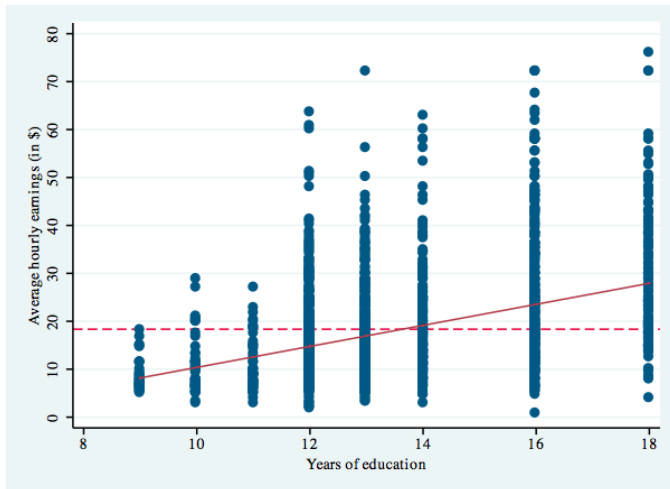
Source	SS	df	MS	Number of obs =	2000
Model	41922.0349	1	41922.0349	F(1, 1998) =	376.94
Residual	222213.443	1998	111.217939	Prob > F =	0.0000
Total	264135.478	1999	132.133806	R-squared =	0.1587
				Adj R-squared =	0.1583
				Root MSE =	10.546

wage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
educ	2.193546	.112983	19.41	0.000	1.971969 2.415123
_cons	-11.5576	1.558244	-7.42	0.000	-14.61355 -8.501649

Illustrating R^2



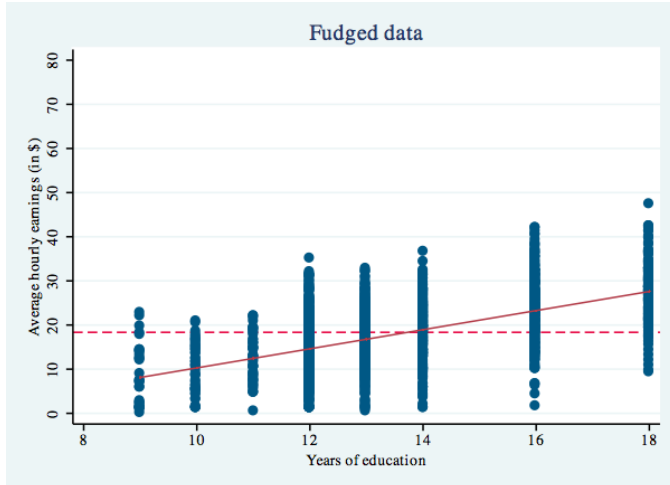
Average earnings = \$18.37
variance(earnings) = 132.4



$$\hat{y} = -11.56 + 2.193x$$

$$R^2 = 0.1587$$

FUDGED DATA:



Average earnings = \$18.15
var(earnings) = 63.4
(Std. Dev. = \$7.96)

$$\hat{y} = -11.36 + 2.165x$$

$$R^2 = 0.322$$