

*Regress wage on education
regress wage educ

Source	SS	df	MS
Model	1179.73204	1	1179.73204
Residual	5980.68225	524	11.4135158 = $\hat{\sigma}^2$
Total	7160.41429	525	13.6388844

SSF (Sum of Squares for F-test) points to SS Model
SSR (Sum of Squares for Regression) points to SS Model
SST (Total Sum of Squares) points to SS Total

Number of obs = 526 = N
F(1, 524) = 103.36 } overall model F-test & associated p-value
Prob > F = 0.0000
R-squared = 0.1648 = R^2
Adj R-squared = 0.1632 } penalizes R^2 for more regressors
Root MSE = 3.3784 = $\hat{\sigma}$
mean square error

	→ wage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Y	= educ	$\hat{\beta}_1 = .5413593$.053248	10.17	0.000	.4367534 .6459651
X	= _cons	$\hat{\beta}_0 = -.9048516$.6849678	-1.32	0.187	-2.250472 .4407687

Constant (intercept) points to _cons

95% two-sided confidence interval for β_j points to the confidence interval column

$\hat{\beta}_j$ points to Coef.
 $\sqrt{\hat{V}(\hat{\beta}_j)}$ points to Std. Err.
 $\hat{\sigma}_{\hat{\beta}_j}$ points to Std. Err.
t-statistic under $H_0: \beta_j = 0$ points to t
p-value for t-test of $H_0: \beta_j = 0$ vs. $H_1: \beta_j \neq 0$ points to P>|t|

$$Y = \beta_0 + \beta_1 X + u$$

$$\text{wage} = \beta_0 + \beta_1 \text{educ} + u$$