1.Normal distribution for both variables for pearson
2.homoscedasticity assumes that data is equally distributed about the regression line.
3.Linear:
Linear: pearson
Monotonically related (not normal): spearman kendall hoeffding

The CORR Procedure

2 Variables:	HH_TotInc LOG_FD806
Freq Variable:	WeightD

Simple Statistics

Variable	N	Mean	Std Dev	Median	Minimum	Maximum	Label
HH_TotInc	8128876	89406	61769	74200	250.00000	555500	Household - Total income
LOG_FD806	8128876	5.38219	0.94166	5.41218	2.47064	7.36074	

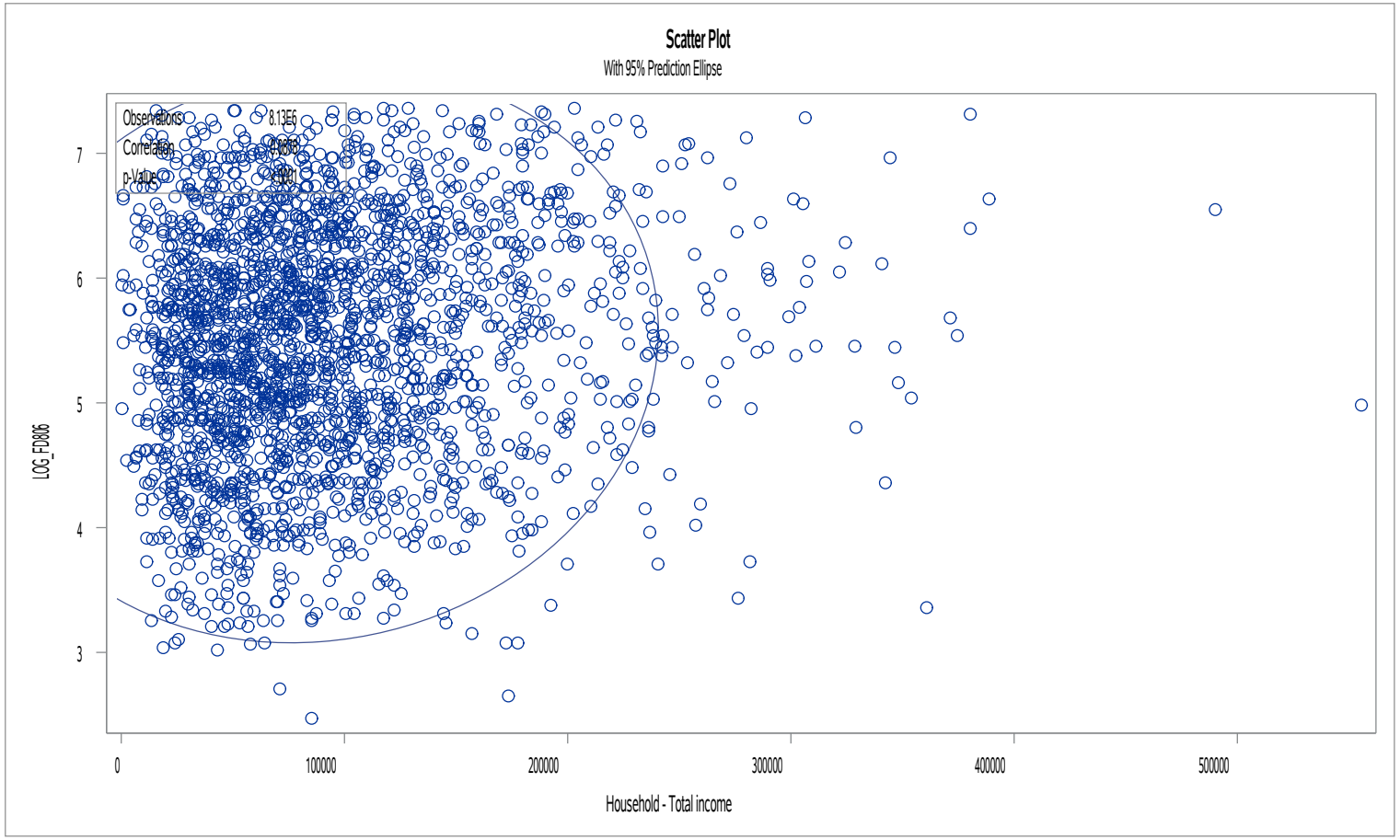
Pearson Correlation Coefficients, N = 8128876
Prob > |r| under H0: Rho=0

	HH_TotInc	LOG_FD806
HH_TotInc **Household - Total income**	1.00000	0.08775 <.0001
LOG_FD806	0.08775 <.0001	1.00000

Spearman Correlation Coefficients, N = 8128876
Prob > |r| under H0: Rho=0

	HH_TotInc	LOG_FD806
HH_TotInc **Household - Total income**	1.00000	0.09047 <.0001
LOG_FD806	0.09047 <.0001	1.00000

The CORR Procedure



The CORR Procedure