

Table 1: Auto MPG Regression: Sqrt, Log1p, and Box–Cox($\lambda = 0.2$ to 0.6)

Metric	sqrt	log1p	box-cox($\lambda=0.2$)	box-cox($\lambda=0.3$)	box-cox($\lambda=0.4$)	box-cox($\lambda=0.5$)	box-cox($\lambda=0.6$)
rSq	0.835138	0.849102	0.845081	0.842076	0.838774	0.835138	0.831115
rSqBar	0.832569	0.846751	0.842667	0.839615	0.836261	0.832569	0.828484
sst	23819.0	23819.0	23819.0	23819.0	23819.0	23819.0	23819.0
sse	3926.85	3594.23	3690.01	3761.60	3840.25	3926.85	4022.66
sde	3.16757	3.02514	3.06750	3.09834	3.13160	3.16757	3.20662
mse0	10.0175	9.16895	9.41330	9.59591	9.79654	10.0175	10.2619
rmse	3.16504	3.02803	3.06811	3.09773	3.12994	3.16504	3.20342
mae	2.34675	2.18422	2.23278	2.26767	2.30537	2.34675	2.39157
smape	10.2046	9.32001	9.56222	9.74981	9.95951	10.2046	10.4805
m	392.000	392.000	392.000	392.000	392.000	392.000	392.000
dfr	6.00000	6.00000	6.00000	6.00000	6.00000	6.00000	6.00000
df	385.000	385.000	385.000	385.000	385.000	385.000	385.000
fStat	325.048	361.067	350.028	342.146	333.825	325.048	315.777
aic	-993.873	-976.527	-981.681	-985.446	-989.502	-993.873	-998.598
bic	-966.074	-948.728	-953.882	-957.648	-961.703	-966.074	-970.799