Tables

Table 6 ANCOVA Tests of Between-Subjects Effects for Spring Math Performance

Source	Type III Sum of Squares	F	Sig.	Partial Eta Squared
Corrected Model	1087064.899[a]	1639.029	.000	.679
Intercept	182281.084	3847.697	.000	.262
Gender	94.295	1.990	.158	.000
Location Type	786.601	4.151	.002	.002
Race	4107.609	28.902	<.001	.008
Region	2936.420	20.661	<.001	.006
Fall Math Performance	768698.917	16226.150	.000	.599
School % FRPL	1142.077	24.108	<.001	.002
SES	3037.353	64.114	<.001	.006
Error	514340.379			
Total	23624964.349			
Corrected Total	1601405.278			

a. R Squared = .679 (Adjusted R Squared = .678)
NOTE: F=F-value as the Mean Square Regression divided by the Mean Square Residual; Sig. = p-value associated with the F-value;
SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Tables 7 ANCOVA Parameter Estimates for Spring Math Performance

Parameter	B	Std. Error	t	Sig.
Intercept	16.833	.384	43.794	.000
Female	.186	.132	1.411	.158
City, Midsize & Small	.304	.244	1.249	.212
Suburb	.344	.229	1.500	.134
Town	.489	.306	1.600	.110
Rural	.912	.249	3.667	<.001
Black	-2.050	.222	-9.229	<.001
Hispanic	-.501	.188	-2.665	.008
Asian	-.258	.271	-.950	.342
Midwest	1.679	.228	7.375	<.001
South	.621	.213	2.915	.004
West	1.005	.224	4.489	<.001
Math Performance	.846	.007	127.382	.000
School % FRPL	.014	.003	4.910	<.001
SES	.837	.105	8.007	<.001

NOTE: B=Unstandardized Coefficients; Std. Error=Standard Errors associated with the coefficients; t=t-value used in testing the null hypothesis that the coefficient is 0; Sig.=2 tailed p-value used in testing the null hypothesis that the coefficient is 0; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Table 8 ANCOVA Tests of Between-Subjects Effects for Math Gain

Source	Type III Sum of Squares	F	Sig.	Partial Eta Squared
Corrected Model	9614.094[a]	14.873	<.001	.017
Intercept	251383.187	5055.457	.000	.318
Gender	146.685	2.950	.086	.000
Location Type	1090.554	5.483	<.001	.002
Race	2928.832	19.633	<.001	.005
Region	2967.762	19.894	<.001	.005
School % FRPL	2336.151	46.981	<.001	.004
SES	30.304	.609	.435	.000
Error	539915.357			
Total	2526999.911			
Corrected Total	549529.451			

a. R Squared = .017 (Adjusted R Squared = .016)
NOTE: F=F-value as the Mean Square Regression divided by the Mean Square Residual; Sig. = p-value associated with the F-value; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Tables 9 ANCOVA Parameter Estimates for Math Gain

	B	Std. Error	t	Sig.
Intercept	11.430	.314	36.454	<.001
Female	.233	.135	1.718	.086
City, Midsize & Small	.352	.250	1.408	.159
Suburb	.492	.235	2.096	.036
Town	.654	.313	2.086	.037
Rural	1.099	.255	4.315	<.001
Black	-1.587	.227	-7.002	<.001
Hispanic	-.083	.192	-.433	.665
Asian	-.668	.277	-2.406	.016
Midwest	1.500	.233	6.434	<.001
South	.346	.218	1.587	.113
West	1.050	.229	4.580	<.001
School % FRPL	.020	.003	6.854	<.001
SES	.079	.102	.781	.435

NOTE: B=Unstandardized Coefficients; Std. Error=Standard Errors associated with the coefficients; t=t-value used in testing the null hypothesis that the coefficient is 0; Sig.=2 tailed p-value used in testing the null hypothesis that the coefficient is 0; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Table 10 ANCOVA Tests of Between-Subjects Effects for Fall Reading Performance

Source	Type III Sum of Squares	F	Sig.	Partial Eta Squared
Corrected Model	294835.691[a]	210.510	.000	.199
Intercept	4136124.327	38390.934	.000	.777
Gender	4155.730	38.573	<.001	.003
Location Type	1478.075	3.430	.008	.001
Race	15599.292	48.263	<.001	.013
Region	15271.522	47.249	<.001	.013
School % FRPL	4212.328	39.098	<.001	.004
SES	134737.851	1250.618	<.001	.102
Error	1186184.462			
Total	25734287.652			
Corrected Total	1481020.153			

a. R Squared = .199 (Adjusted R Squared = .198)

NOTE: F=F-value as the Mean Square Regression divided by the Mean Square Residual; Sig. = p-value associated with the F-value; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Tables 11 ANCOVA Parameter Estimates for Fall Reading Performance

	B	Std. Error	t	Sig.
Intercept	47.030	.456	103.123	.000
Female	1.229	.198	6.211	<.001
City, Midsize & Small	.329	.364	.902	.367
Suburb	-.434	.342	-1.270	.204
Town	-.659	.458	-1.438	.151
Rural	-.814	.371	-2.194	.028
Black	-.605	.330	-1.832	.067
Hispanic	-1.571	.280	-5.617	<.001
Asian	3.637	.400	9.097	<.001
Midwest	1.006	.340	2.959	.003
South	3.332	.318	10.472	<.001
West	1.236	.335	3.694	<.001
School % FRPL	-.027	.004	-6.253	<.001
SES	5.255	.149	35.364	<.001

NOTE: B=Unstandardized Coefficients; Std. Error=Standard Errors associated with the coefficients; t=t-value used in testing the null hypothesis that the coefficient is 0; Sig.=2 tailed p-value used in testing the null hypothesis that the coefficient is 0; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Table 12 ANCOVA Tests of Between-Subjects Effects for Spring Reading Performance

Source	Type III Sum of Squares	F	Sig.	Partial Eta Squared
Corrected Model	1280224.521[a]	1493.473	.000	.657
Intercept	133109.374	2173.941	.000	.166
Gender	2732.239	44.623	<.001	.004
Location Type	3134.936	12.800	<.001	.005
Race	2737.124	14.901	<.001	.004
Region	54.908	.299	.826	.000
Fall Reading Performance	930686.043	15199.957	.000	.582
School % FRPL	1450.689	23.693	<.001	.002
SES	5375.045	87.785	<.001	.008
Error	667769.106			
Total	42875307.071			
Corrected Total	1947993.627			

a. R Squared = .657 (Adjusted R Squared = .657)
NOTE: F=F-value as the Mean Square Regression divided by the Mean Square Residual; Sig. = p-value associated with the F-value; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Tables 13 ANCOVA Parameter Estimates for Spring Reading Performance

Parameter	B	Std. Error	t	Sig.
Intercept	17.793	.485	36.681	<.001
Female	1.003	.150	6.680	<.001
City, Midsize & Small	.791	.276	2.867	.004
Suburb	.690	.259	2.661	.008
Town	1.471	.347	4.238	<.001
Rural	1.794	.282	6.372	<.001
Black	-1.453	.251	-5.792	<.001
Hispanic	-.904	.212	-4.262	<.001
Asian	.362	.304	1.192	.233
Midwest	.055	.258	.213	.831
South	-.101	.242	-.419	.675
West	.073	.253	.288	.774
Fall Reading Performance	.891	.007	123.288	.000
School % FRPL	.016	.003	4.868	<.001
SES	1.113	.119	9.369	<.001

NOTE: B=Unstandardized Coefficients; Std. Error=Standard Errors associated with the coefficients; t=t-value used in testing the null hypothesis that the coefficient is 0; Sig.=2 tailed p-value used in testing the null hypothesis that the coefficient is 0; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Table 14 ANCOVA Tests of Between-Subjects Effects for Reading Gain

Source	Type III Sum of Squares	F	Sig.	Partial Eta Squared
Corrected Model	11636.766[a]	14.321	<.001	.017
Intercept	304767.909	4876.043	.000	.309
Gender	2067.512	33.079	<.001	.003
Location Type	3455.684	13.822	<.001	.005
Race	2053.142	10.950	<.001	.003
Region	392.080	2.091	.099	.001
School % FRPL	2027.272	32.435	<.001	.003
SES	1400.026	22.399	<.001	.002
Error	681721.571			
Total	2927535.384			
Corrected Total	693358.337			

a. R Squared = .017 (Adjusted R Squared = .016)

NOTE: F=F-value as the Mean Square Regression divided by the Mean Square Residual; Sig. = p-value associated with the F-value; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011
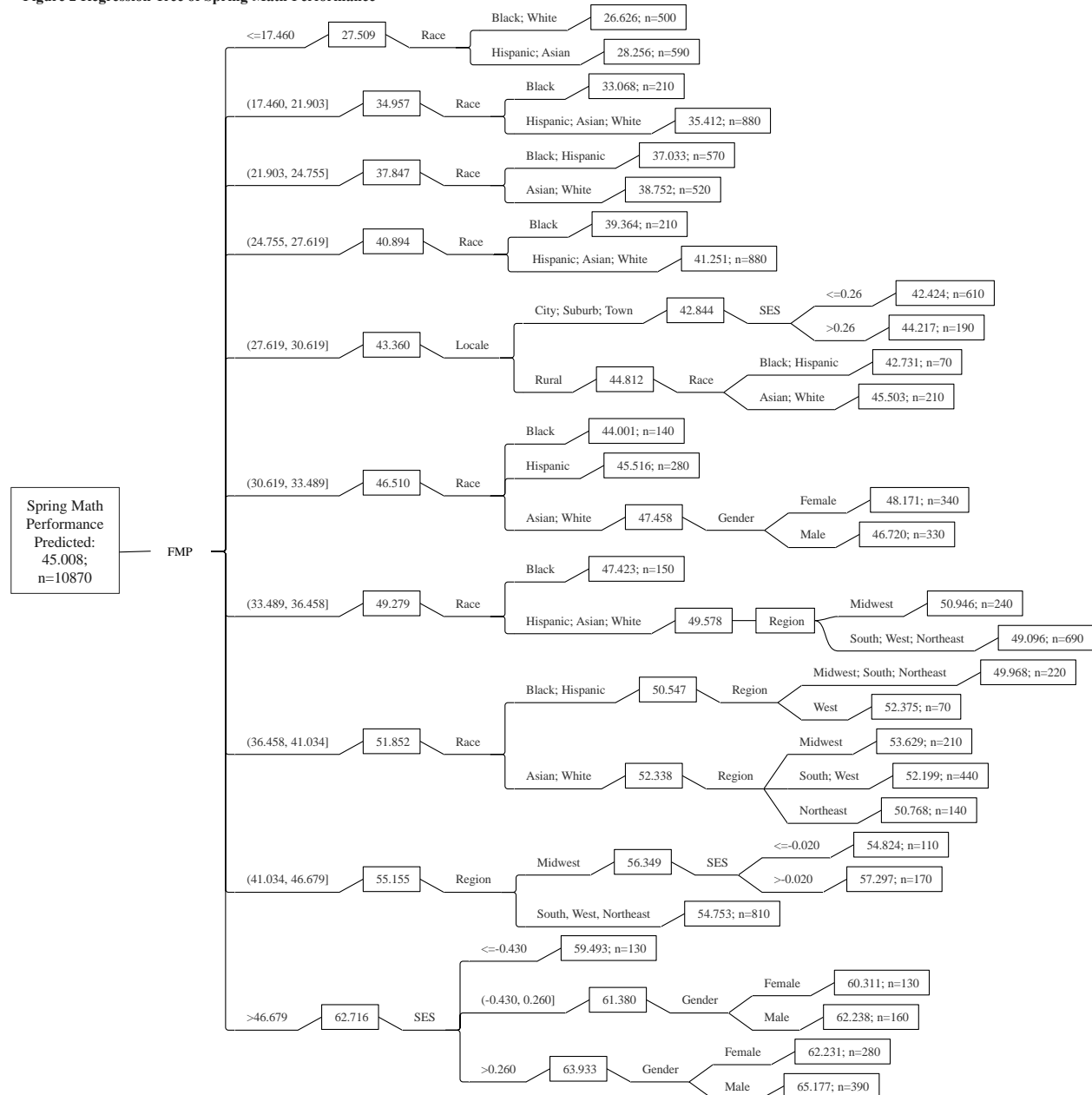
Tables 15 ANCOVA Parameter Estimates for Reading Gain

	B	Std. Error	t	Sig.
Intercept	12.665	.350	36.204	<.001
Female	.871	.151	5.751	<.001
City, Midsize & Small	.751	.279	2.693	.007
Suburb	.741	.262	2.828	.005
Town	1.548	.351	4.413	<.001
Rural	1.882	.284	6.617	<.001
Black	-1.385	.254	-5.463	<.001
Hispanic	-.733	.214	-3.424	<.001
Asian	-.030	.306	-.099	.922
Midwest	-.058	.260	-.222	.825
South	-.465	.243	-1.912	.056
West	-.066	.256	-.258	.796
School % FRPL	.019	.003	5.695	<.001
SES	.538	.114	4.733	<.001

NOTE: B=Unstandardized Coefficients; Std. Error=Standard Errors associated with the coefficients; t=t-value used in testing the null hypothesis that the coefficient is 0; Sig.=2 tailed p-value used in testing the null hypothesis that the coefficient is 0; SES=Socioeconomic Status; FRPL= Free or Reduced-Price Lunch.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11(ECLS-K), Fall 2010 and Spring 2011

Figures

Figure 2 Regression Tree of Spring Math Performance
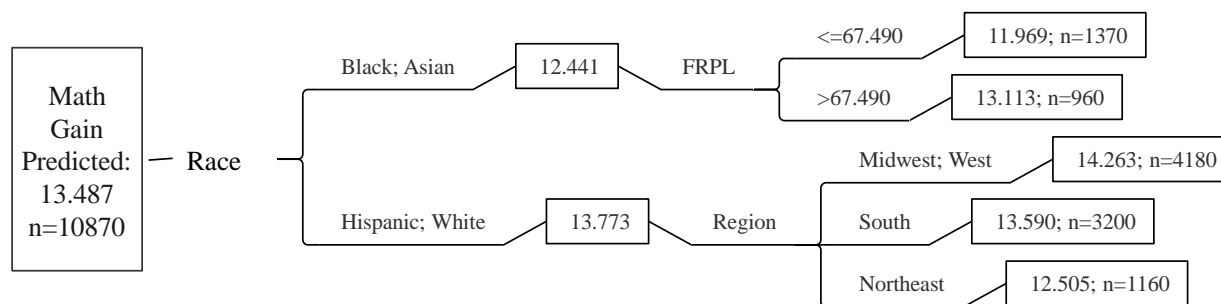

NOTE: Due to data security restrictions, unweighted sample size numbers are rounded to the nearest ten.
FMP=Fall Math Performance; SES=Socioeconomic Status.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal
Study, Kindergarten Class of 2010-11 (ECLS-K), Fall 2010 and Spring 2011

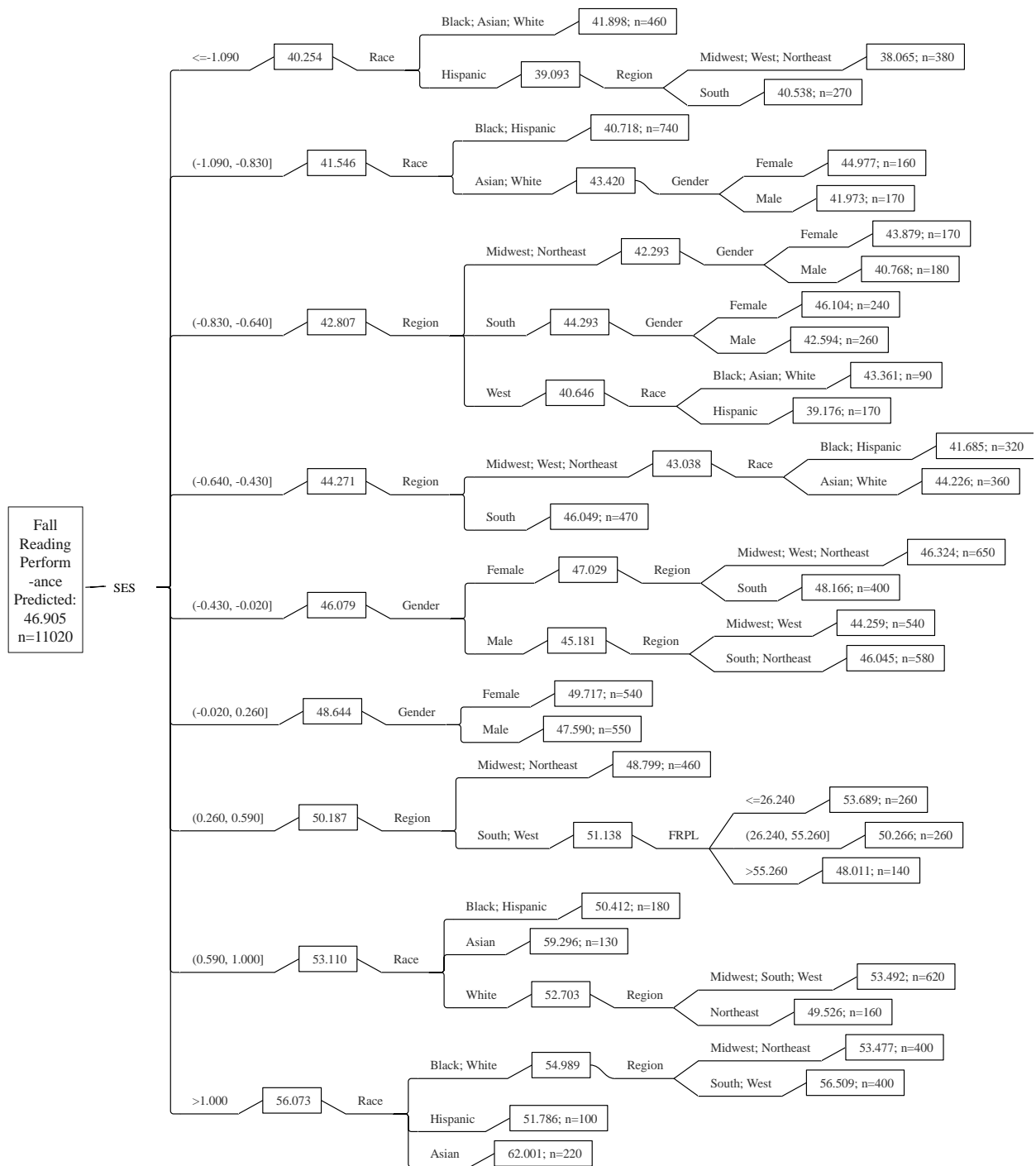**Figure 3 Regression Tree of Math Gain**

```
                                                    <=67.490      11.969; n=1370
                          Black; Asian   12.441   FRPL
                                                    >67.490       13.113; n=960
  Math
  Gain                                                 Midwest; West   14.263; n=4180
Predicted:  — Race
  13.487                                               South     13.590; n=3200
 n=10870                 Hispanic; White  13.773   Region
                                                      Northeast    12.505; n=1160
```

NOTE: Due to data security restrictions, unweighted sample size numbers are rounded to the nearest ten.
FRPL=% Free or Reduced-Price Lunch.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11 (ECLS-K), Fall 2010 and Spring 2011

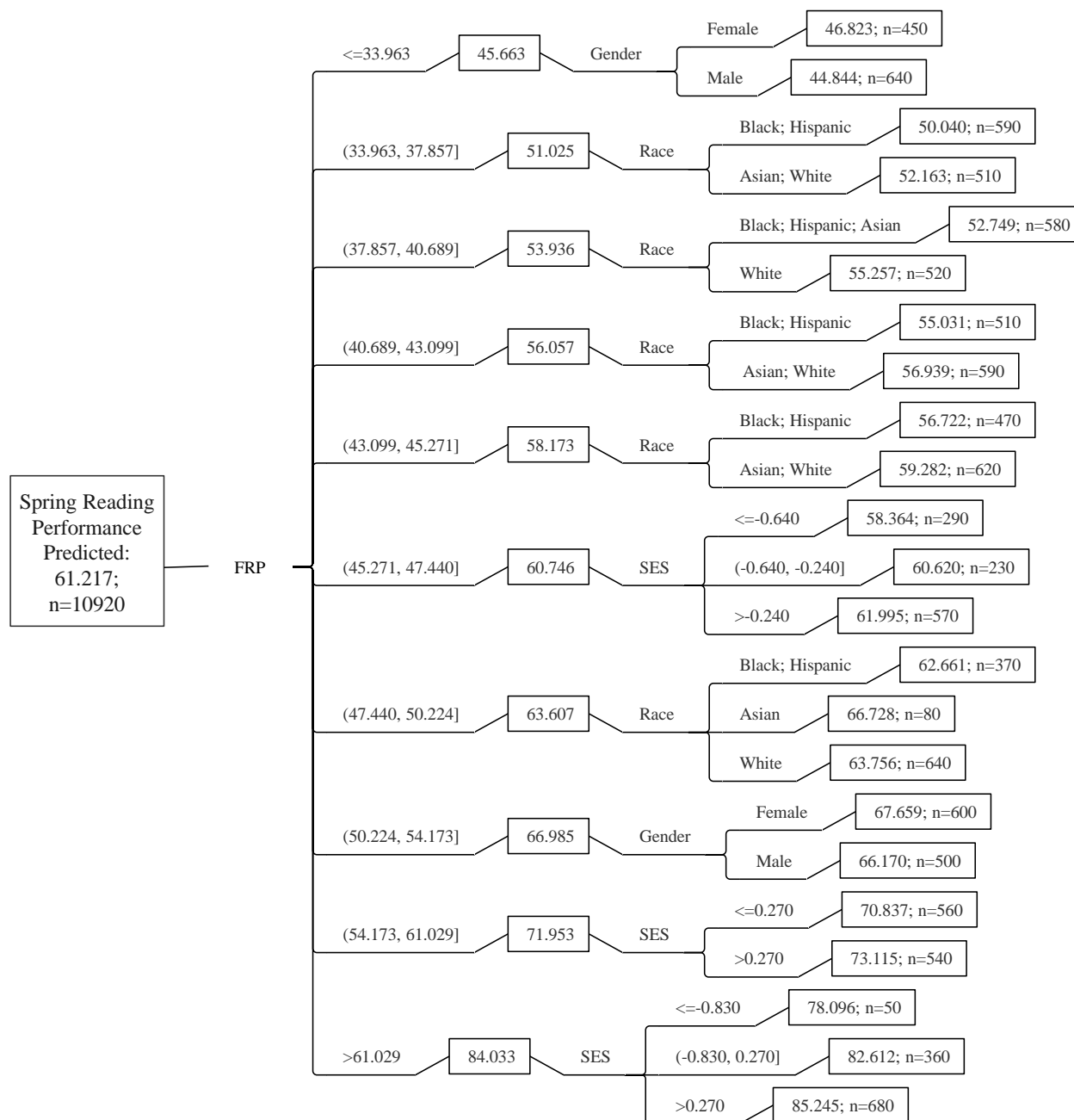**Figure 4 Regression Tree of Fall Reading Performance**

NOTE: Due to data security restrictions, unweighted sample size numbers are rounded to the nearest ten.
SES=Socioeconomic Status; FRPL=% Free or Reduced-Price Lunch.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal
Study, Kindergarten Class of 2010-11 (ECLS-K), Fall 2010 and Spring 2011

Figure 5 Regression Tree of Spring Reading Performance
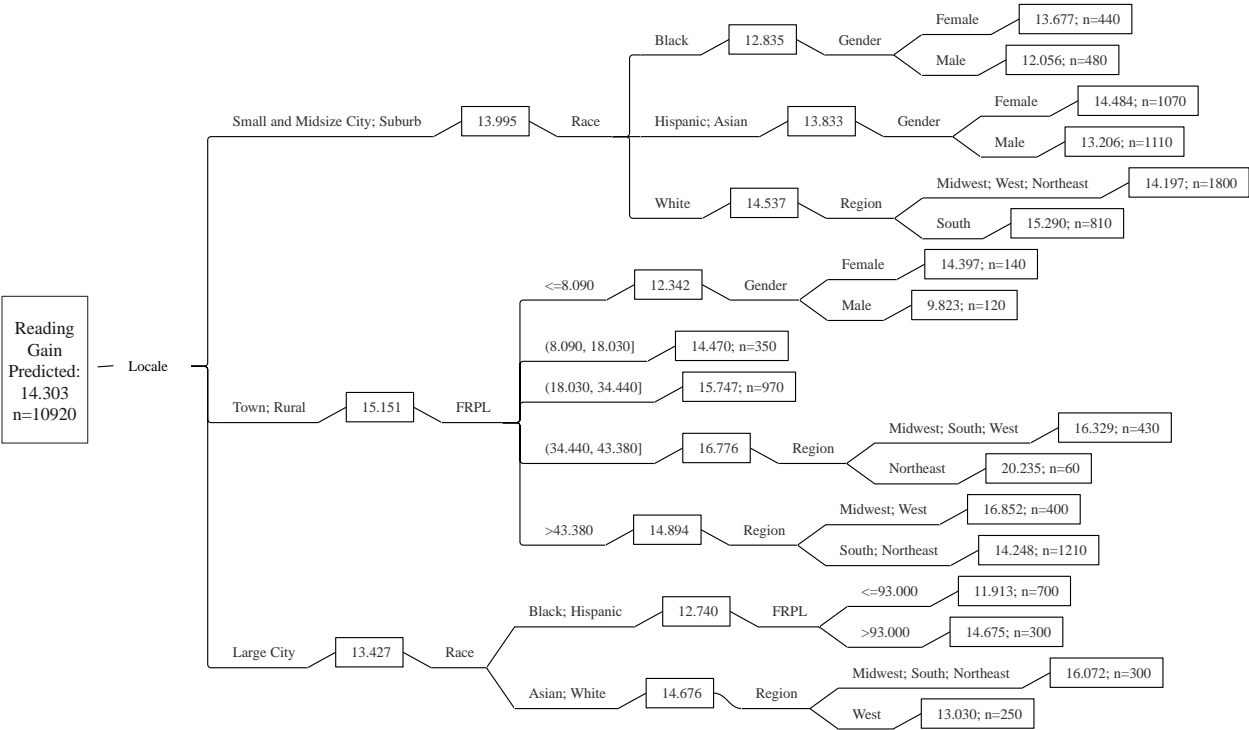

NOTE: Due to data security restrictions, unweighted sample size numbers are rounded to the nearest ten.
FRP=Fall Reading Performance; SES=Socioeconomic Status.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 2010-11 (ECLS-K), Fall 2010 and Spring 2011

Figure 6 Regression Tree of Reading Gain

NOTE: Due to data security restrictions, unweighted sample size numbers are rounded to the nearest ten.
FRPL=% Free or Reduced-Price Lunch.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal
Study, Kindergarten Class of 2010-11 (ECLS-K), Fall 2010 and Spring 2011