

## Web Appendix:

# Taking the Easy Way Out: How the GED Testing Program Induces Students to Drop Out

This appendix provides supplementary tables and figures for “Taking the Easy Way Out: How the GED Testing Program Induces Students to Drop Out” by Heckman, LaFontaine and Rodríguez.

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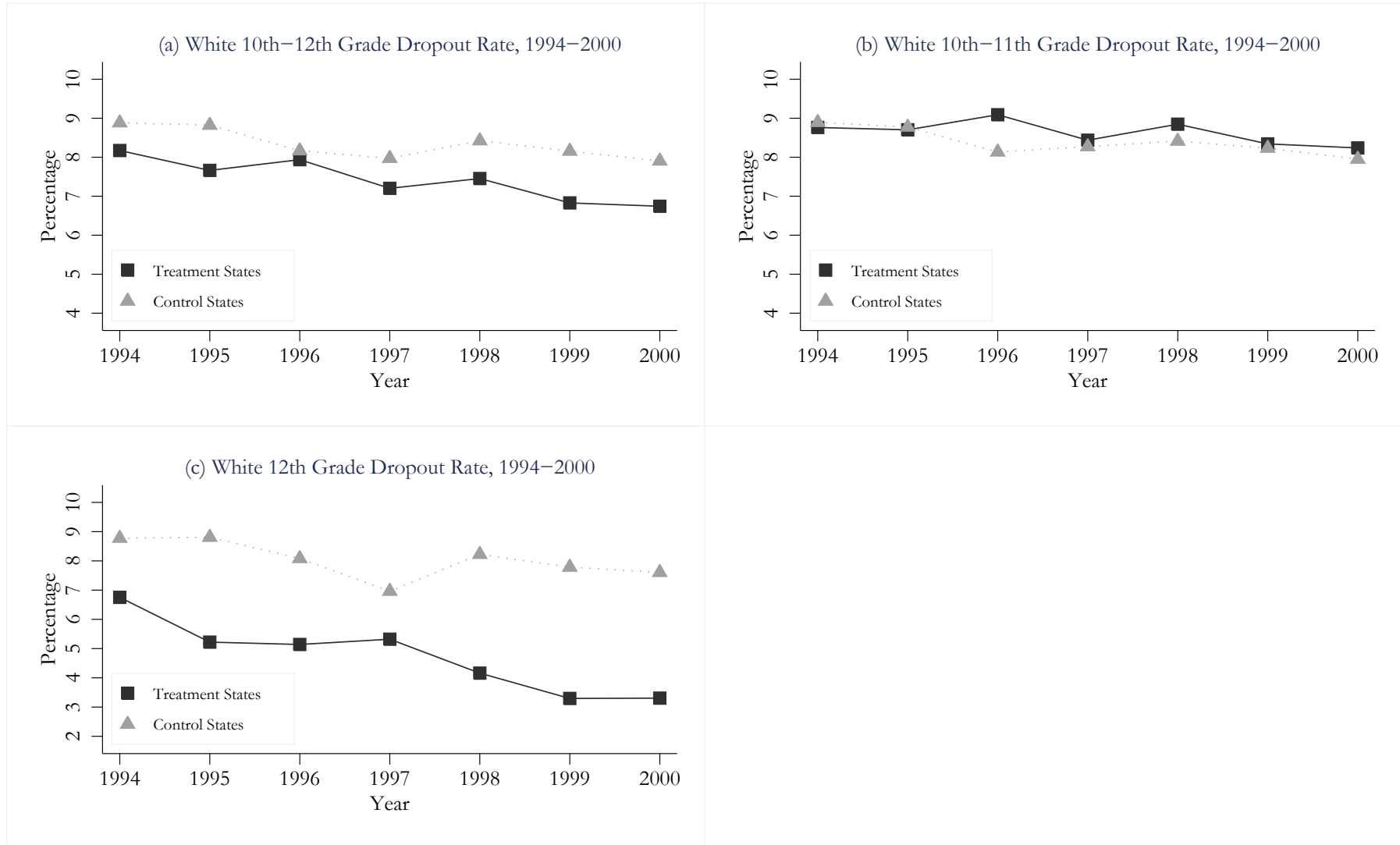
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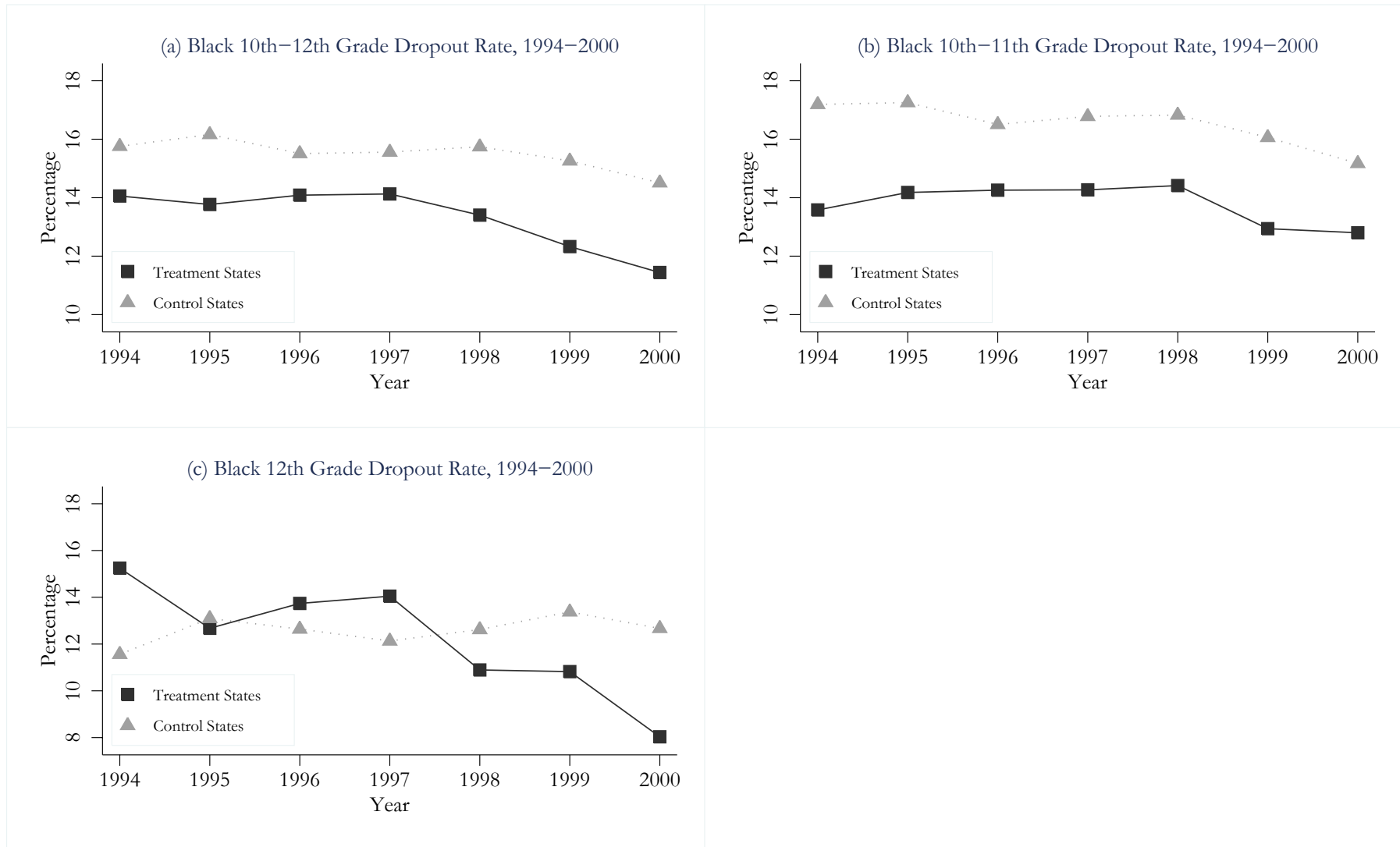
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## Figure W.1 White Dropout Rates by Year, Treatment vs. Control States



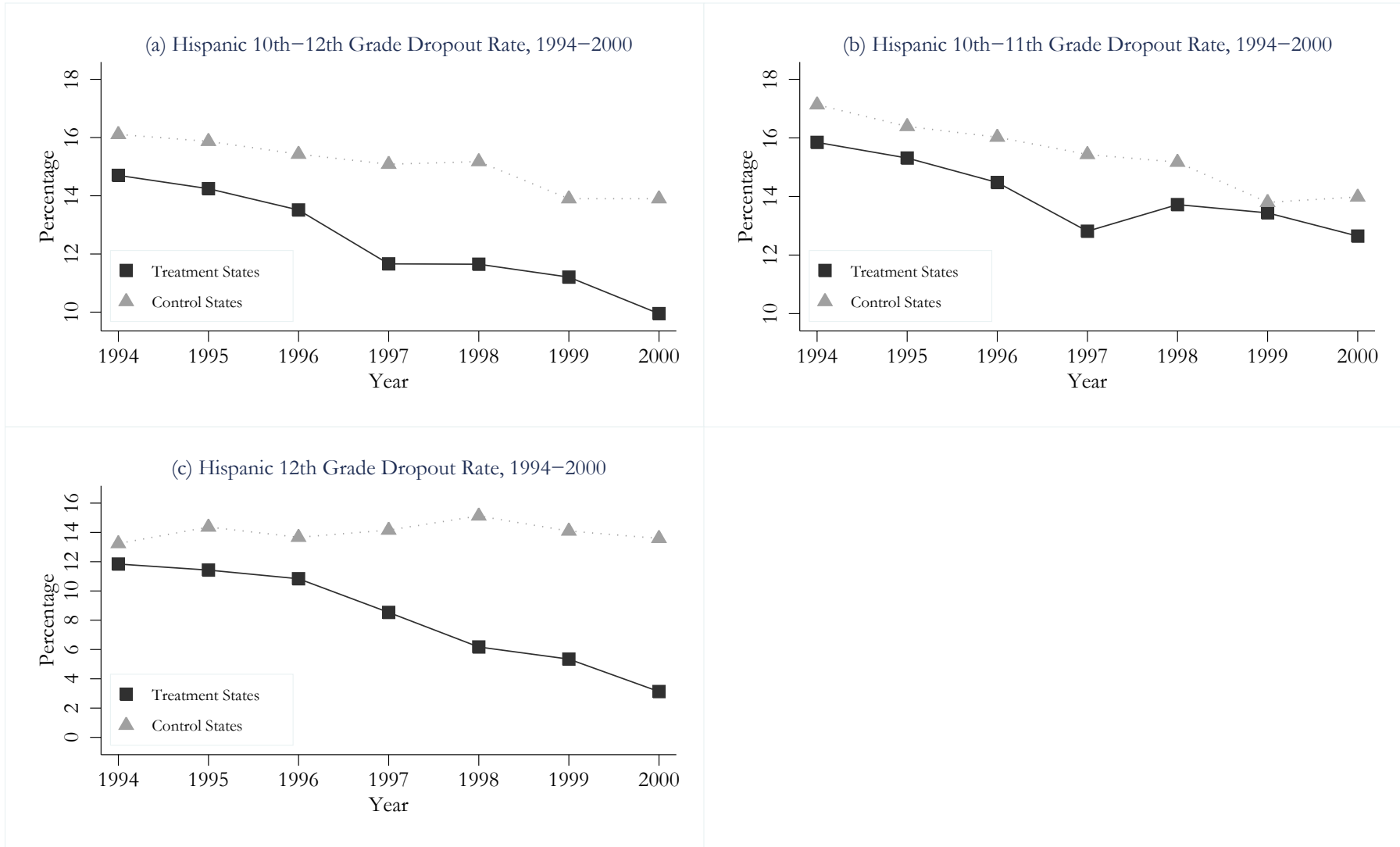
Note: GED testing rates are calculated from yearly GED Statistical Reports as the percentage of the state population in the given age range who take the GED in that year. Dropout rates are calculated from the Common Core of Data (CCD) as the exit rate for those in the indicated grades in the given year. See the appendix for further details. States required to raise GED pass requirements (changer states) are: LA, MS, NE, NM, TX. States that did not change pass requirements (non-changer states) are: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. NJ is excluded in all dropout calculations due to data errors.

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Black Dropout Rates by Year, Treatment vs. Control States



Note: GED testing rates are calculated from yearly GED Statistical Reports as the percentage of the state population in the given age range who take the GED in that year. Dropout rates are calculated from the Common Core of Data (CCD) as the exit rate for those in the indicated grades in the given year. See the appendix for further details. States required to raise GED pass requirements (changer states) are: LA, MS, NE, NM, TX. States that did not change pass requirements (non-changer states) are: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. NJ is excluded in all dropout calculations due to data errors.

Figure W.3  
Hispanic Dropout Rates by Year, Treatment vs. Control States



Note: GED testing rates are calculated from yearly GED Statistical Reports as the percentage of the state population in the given age range who take the GED in that year. Dropout rates are calculated from the Common Core of Data (CCD) as the exit rate for those in the indicated grades in the given year. See the appendix for further details. States required to raise GED pass requirements (changer states) are: LA, MS, NE, NM, TX. States that did not change pass requirements (non-changer states) are: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. NJ is excluded in all dropout calculations due to data errors.

**Table W-1.** Fixed Effects Estimates of the Effect of the Reform on GED Test Taking Rates by Younger Cohorts

Independent Variables	GED Test Taking Rate (Ages 16-19)	GED Test Taking Rate (Ages 16-17)	GED Test Taking Rate (Ages 18-19)
Post 1997 dummy	-0.0002 (0.0007)	0.0007 (0.0006)	-0.0012 (0.0011)
Score option changer state post 1997 (treatment effect)	-0.0055 (0.0016)	-0.0034 (0.0015)	-0.0076 (0.0021)
Local unemployment rate	0.0020 (0.0005)	0.0019 (0.0007)	0.0021 (0.0008)
Log of per capita income	0.0213 (0.0061)	0.0184 (0.0064)	0.0240 (0.0084)
Observations	143	143	143
Number of States	24	24	24

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: NJ. No treatment states are dropped.

**Table W-2.** Fixed Effects Estimates of the Effect of the Reform on GED Test Taking Rates by Younger Cohorts Controlling for Age Requirements

Independent Variables	GED Test Taking Rate (Ages 16-19)	GED Test Taking Rate (Ages 16-17)	GED Test Taking Rate (Ages 18-19)
Post 1997 dummy	-0.0001 (0.0008)	0.0007 (0.0007)	-0.0011 (0.0011)
Score option changer state post 1997 (treatment effect)	-0.0057 (0.0018)	-0.0036 (0.0017)	-0.0077 (0.0025)
Local unemployment rate	0.0020 (0.0006)	0.0019 (0.0007)	0.0021 (0.0009)
Log of per capita income	0.0214 (0.0065)	0.0185 (0.0070)	0.0241 (0.0089)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0009 (0.0016)	0.0007 (0.0019)	0.0013 (0.0015)
Minimum GED age requirement is 17	-0.001 (0.0017)	-0.0013 (0.0020)	-0.0005 (0.0020)
Minimum GED age requirement is 18	-0.0002 (0.0014)	0.0001 (0.0015)	-0.0002 (0.0013)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	-0.0004 (0.0019)	-0.0007 (0.0009)	0.0001 (0.0032)
Minimum school leaving age is 17	0.0005 (0.0017)	0.0000 (0.0012)	0.0011 (0.0036)
Observations	143	143	143
Number of States	24	24	24

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: NJ. No treatment states are dropped.



**Table W-3.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates (All Races)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0089 (0.0039)	0.0113 (0.0047)	0.003 (0.0066)
Score option changer state post 1997 (treatment effect)	-0.0121 (0.0035)	-0.0046 (0.0051)	-0.0286 (0.0067)
Local unemployment rate	0.0041 (0.0030)	0.0083 (0.0057)	-0.0078 (0.0056)
Log of per capita income	-0.0285 (0.0273)	-0.0073 (0.0371)	-0.0994 (0.0391)
Observations	144	144	142
Number of States	24	24	24

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: NJ. No treatment states are dropped.

**Table W-4.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates (Whites)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0073 (0.0031)	0.0082 (0.0054)	0.0042 (0.0064)
Score option changer state post 1997 (treatment effect)	-0.0047 (0.0015)	-0.0002 (0.0043)	-0.0138 (0.0082)
Local unemployment rate	0.0037 (0.0015)	0.0061 (0.0040)	-0.0017 (0.0050)
Log of per capita income	-0.0309 (0.0191)	-0.0149 (0.0291)	-0.0661 (0.0247)
Observations	84	83	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-5.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates (Blacks)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0145 (0.0098)	0.0138 (0.0141)	0.0156 (0.0251)
Score option changer state post 1997 (treatment effect)	-0.0083 (0.0094)	0.0037 (0.0148)	-0.0402 (0.0176)
Local unemployment rate	-0.0032 (0.0067)	-0.0004 (0.0118)	-0.0109 (0.0160)
Log of per capita income	-0.1364 (0.0688)	-0.1245 (0.0760)	-0.1584 (0.1409)
Observations	84	84	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-6.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates (Hispanics)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0136 (0.0062)	0.0097 (0.0064)	0.0233 (0.0074)
Score option changer state post 1997 (treatment effect)	-0.0268 (0.0043)	-0.0138 (0.0060)	-0.0599 (0.0030)
Local unemployment rate	0.0120 (0.0046)	0.0202 (0.0069)	(0.0114) (0.0063)
Log of per capita income	-0.0049 (0.0562)	0.0674 (0.0677)	-0.2041 (0.0611)
Observations	84	83	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-7.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements (All Races)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0093 (0.0040)	0.0125 (0.0050)	0.0023 (0.0066)
Score option changer state post 1997 (treatment effect)	-0.0129 (0.0037)	-0.0055 (0.0054)	-0.0295 (0.0065)
Local unemployment rate	0.0043 (0.0031)	0.0090 (0.0060)	-0.0084 (0.0057)
Log of per capita income	-0.0276 (0.0285)	-0.0037 (0.0392)	-0.1018 (0.0392)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0047 (0.0043)	0.0145 (0.0037)	-0.0092 (0.0057)
Minimum GED age requirement is 17	0.0065 (0.0054)	0.0155 (0.0053)	-0.0101 (0.0117)
Minimum GED age requirement is 18	0.0035 (0.0038)	0.0114 (0.0023)	-0.0086 (0.0048)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.007 (0.0058)	0.0073 (0.0071)	0.0039 (0.0060)
Minimum school leaving age is 17	0.0187 (0.0091)	0.0152 (0.0099)	0.0187 (0.0139)
Observations	144	144	142
Number of States	24	24	24

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: NJ. No treatment states are dropped.

**Table W-8.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements (Whites)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0076 (0.0033)	0.0087 (0.0056)	0.0042 (0.0066)
Score option changer state post 1997 (treatment effect)	-0.0043 (0.0015)	0.0000 (0.0045)	-0.0132 (0.0088)
Local unemployment rate	0.0037 (0.0016)	0.0065 (0.0044)	-0.0026 (0.0054)
Log of per capita income	-0.0320 (0.0200)	-0.0132 (0.0313)	-0.0741 (0.0275)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0014 (0.0031)	0.0059 (0.0053)	-0.0081 (0.0040)
Minimum GED age requirement is 17	0.0019 (0.0059)	0.0092 (0.0060)	-0.0168 (0.0188)
Minimum GED age requirement is 18	0.0023 (0.0006)	0.0051 (0.0011)	-0.004 (0.0016)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0135 (0.0044)	0.0126 (0.0037)	0.0115 (0.0061)
Minimum school leaving age is 17	0.0148 (0.0092)	0.0176 (0.0054)	-0.001 (0.0213)
Observations	84	83	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: CA, CO, DE, DC, FL, MD, OK, OR, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-9.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements (Blacks)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0179 (0.0101)	0.0185 (0.0145)	0.0143 (0.0258)
Score option changer state post 1997 (treatment effect)	-0.0129 (0.0098)	0.0009 (0.0161)	-0.0484 (0.0182)
Local unemployment rate	-0.0026 (0.0067)	0.0008 (0.0125)	-0.0121 (0.0167)
Log of per capita income	-0.1362 (0.0652)	-0.1239 (0.0733)	-0.1589 (0.1405)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0630 (0.0080)	0.0697 (0.0138)	0.0410 (0.0156)
Minimum GED age requirement is 17	0.0296 (0.0146)	0.038 (0.0139)	-0.0257 (0.0209)
Minimum GED age requirement is 18	0.0519 (0.0038)	0.055 (0.0051)	0.0417 (0.0088)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0565 (0.0139)	0.0666 (0.0149)	0.0301 (0.0122)
Minimum school leaving age is 17	0.0413 (0.0090)	0.0463 (0.0154)	-0.003 (0.0148)
Observations	84	84	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: CA, CO, DE, DC, FL, MD, OK, OR, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-10. Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements (Hispanics)**

Independent Variables	10th-12th Grade	10th-11th Grade	12th Grade
	Dropout Rate	Dropout Rate	Dropout Rate
Post 1997 dummy	0.0141 (0.0067)	0.0107 (0.0068)	0.0224 (0.0079)
Score option changer state post 1997 (treatment effect)	-0.0274 (0.0040)	-0.0138 (0.0050)	-0.0616 (0.0046)
Local unemployment rate	0.0122 (0.0045)	0.0204 (0.0071)	-0.0110 (0.0070)
Log of per capita income	-0.0033 (0.0582)	0.0664 (0.0690)	-0.1958 (0.0714)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0265 (0.0150)	0.0327 (0.0218)	0.0088 (0.0089)
Minimum GED age requirement is 17	0.0301 (0.0114)	0.0414 (0.0174)	0.0016 (0.0104)
Minimum GED age requirement is 18	0.0415 (0.0035)	0.0521 (0.0051)	0.0131 (0.0047)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	-0.0051 (0.0076)	-0.0001 (0.0105)	-0.0166 (0.0064)
Minimum school leaving age is 17	0.0912 (0.0186)	0.113 (0.0281)	-0.0194 (0.0216)
Observations	84	83	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: CA, CO, DE, DC, FL, MD, OK, OR, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.



**Table W-11.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates with Minimum Score Changer States as Control Group (All Races)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0182 (0.0071)	0.0146 (0.0064)	0.0274 (0.0161)
Score option changer state post 1997 (treatment effect)	-0.0153 (0.0044)	-0.0023 (0.0035)	-0.0483 (0.0114)
Local unemployment rate	0.0069 (0.0036)	0.0006 (0.0042)	0.0193 (0.0073)
Log of per capita income	-0.0420 (0.0355)	-0.0897 (0.0540)	0.0640 (0.0586)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0007 (0.0027)	-0.0010 (0.0042)	0.0034 (0.0076)
Minimum GED age requirement is 17	0.0046 (0.0077)	0.0037 (0.0086)	0.0031 (0.0236)
Minimum GED age requirement is 18	0.0045 (0.0076)	0.0088 (0.0087)	-0.0103 (0.0099)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0031 (0.0036)	-0.0016 (0.0026)	0.017 (0.0083)
Minimum school leaving age is 17	0.0101 (0.0052)	-0.0002 (0.0051)	0.0379 (0.0237)
Observations	186	186	184
Number of States	31	31	31

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that were required to raise their minimum score requirement from 35 to 40 in 1997. These include: AK, AL, AZ, CT, GA, HI, IA, IL, IN, KS, MA, ME, MI, MN, MT, NC, NH, NV, OH, PA, RI, SC, TN, VA, VT, WY. No states had be dropped as a result of missing or negative dropout rates.

**Table W-12.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates with Minimum Score Changer States as Control Group (Whites)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0071 (0.0099)	0.0015 (0.0044)	0.001 (0.0193)
Score option changer state post 1997 (treatment effect)	-0.0108 (0.0040)	-0.0039 (0.0034)	-0.0211 (0.0115)
Local unemployment rate	-0.0023 (0.0040)	-0.0048 (0.0040)	0.0024 (0.0090)
Log of per capita income	-0.0403 (0.0278)	-0.0386 (0.0253)	0.0132 (0.0448)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	-0.0061 (0.0043)	-0.0009 (0.0034)	-0.0174 (0.0094)
Minimum GED age requirement is 17	-0.0084 (0.0080)	-0.0066 (0.0049)	-0.0089 (0.0228)
Minimum GED age requirement is 18	-0.0076 (0.0055)	-0.0024 (0.0046)	-0.0154 (0.0111)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0045 (0.0048)	0.0037 (0.0033)	0.0002 (0.0106)
Minimum school leaving age is 17	0.0059 (0.0069)	0.0035 (0.0037)	0.0078 (0.0229)
Observations	117	116	118
Number of States	20	20	20

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that were required to raise their minimum score requirement from 35 to 40 in 1997. These include: AK, AL, AZ, CT, GA, HI, IA, IL, IN, KS, MA, ME, MI, MN, MT, NC, NH, NV, OH, PA, RI, SC, TN, VA, VT, WY. Control states dropped due to missing and negative dropout rates include: AL, AZ, IA, ME, MN, MT, NH, SC, TN, VT, WY. No treatment states were dropped.

**Table W-13.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates with Minimum Score Changer States as Control Group (Blacks)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0274 (0.0193)	0.0063 (0.0098)	0.0414 (0.0587)
Score option changer state post 1997 (treatment effect)	-0.019 (0.0101)	0.0025 (0.0143)	-0.061 (0.0472)
Local unemployment rate	-0.0047 (0.0078)	-0.0190 (0.0170)	0.0339 (0.0317)
Log of per capita income	-0.1719 (0.1152)	-0.2349 (0.1908)	0.1443 (0.2572)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	-0.0271 (0.0094)	0.0037 (0.0163)	-0.1088 (0.0485)
Minimum GED age requirement is 17	-0.0415 (0.0148)	-0.004 (0.0210)	-0.1382 (0.0743)
Minimum GED age requirement is 18	-0.0357 (0.0124)	0.0008 (0.0217)	-0.1236 (0.0631)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0195 (0.0097)	-0.0061 (0.0151)	0.0753 (0.0450)
Minimum school leaving age is 17	0.0216 (0.0136)	-0.0016 (0.0200)	0.0708 (0.0693)
Observations	118	117	112
Number of States	20	20	20

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that were required to raise their minimum score requirement from 35 to 40 in 1997. These include: AK, AL, AZ, CT, GA, HI, IA, IL, IN, KS, MA, ME, MI, MN, MT, NC, NH, NV, OH, PA, RI, SC, TN, VA, VT, WY. Control states dropped due to missing and negative dropout rates include: AL, AZ, IA, ME, MN, MT, NH, SC, TN, VT, WY. No treatment states were dropped.

**Table W-14.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates with Minimum Score Changer States as Control Group (Hispanics)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0356 (0.0081)	0.0282 (0.0102)	0.0426 (0.0162)
Score option changer state post 1997 (treatment effect)	-0.0267 (0.0105)	-0.0109 (0.0155)	-0.0666 (0.0138)
Local unemployment rate	0.0251 (0.0106)	0.0114 (0.0148)	0.0511 (0.0178)
Log of per capita income	-0.0177 (0.0915)	-0.0866 (0.1309)	0.1486 (0.1354)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0215 (0.0363)	-0.0227 (0.0156)	0.1092 (0.0879)
Minimum GED age requirement is 17	0.0129 (0.0348)	-0.0324 (0.0186)	0.1062 (0.0826)
Minimum GED age requirement is 18	0.0062 (0.0311)	-0.0227 (0.0157)	0.0681 (0.0741)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0095 (0.0095)	0.0078 (0.0156)	0.0038 (0.0128)
Minimum school leaving age is 17	0.1285 (0.0162)	0.1502 (0.0221)	-0.009 (0.0183)
Observations	118	116	115
Number of States	20	20	20

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that were required to raise their minimum score requirement from 35 to 40 in 1997. These include: AK, AL, AZ, CT, GA, HI, IA, IL, IN, KS, MA, ME, MI, MN, MT, NC, NH, NV, OH, PA, RI, SC, TN, VA, VT, WY. Control states dropped due to missing and negative dropout rates include: AL, AZ, IA, ME, MN, MT, NH, SC, TN, VT, WY. No treatment states were dropped.

**Table W-15. Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Restricting Sample to Southern States (All Races)**

Independent Variables	10th-12th Grade	10th-11th Grade	12th Grade
	Dropout Rate	Dropout Rate	Dropout Rate
Post 1997 dummy	0.0117 (0.0055)	0.0112 (0.0072)	0.013 (0.0079)
Score option changer state post 1997 (treatment effect)	-0.0145 (0.0021)	-0.0095 (0.0026)	-0.0217 (0.0101)
Local unemployment rate	-0.0023 (0.0030)	-0.0069 (0.0033)	0.0047 (0.0053)
Log of per capita income	-0.0798 (0.0359)	-0.0906 (0.0308)	-0.1029 (0.0601)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	-0.0019 (0.0019)	0.0128 (0.0019)	-0.0198 (0.0061)
Minimum GED age requirement is 17	-0.0054 (0.0124)	0.0139 (0.0139)	-0.0453 (0.0069)
Minimum GED age requirement is 18	-0.0032 (0.0016)	0.0123 (0.0020)	-0.0209 (0.0042)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0086 (0.0085)	0.01 (0.0100)	0.0005 (0.0045)
Minimum school leaving age is 17	0.017 (0.0211)	0.0205 (0.0241)	-0.011 (0.0067)
Observations	72	72	70
Number of States	12	12	12

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states in the south that were required to eliminate the and/or score option. These include: LA, MS, NM, TX. Control states are those states in the south that already had high enough standards by 1997. These include: AR, DE, DC, FL, KY, MD, OK and WV.

**Table W-16. Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Restricting Sample to Southern States (Whites)**

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0075 (0.0052)	0.008 (0.0093)	0.004 (0.0078)
Score option changer state post 1997 (treatment effect)	-0.0042 (0.0014)	-0.0053 (0.0045)	0.0007 (0.0123)
Local unemployment rate	0.0010 (0.0032)	-0.0017 (0.0050)	0.0082 (0.0035)
Log of per capita income	-0.0490 (0.0408)	-0.0403 (0.0546)	-0.0606 (0.0476)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.5726 (0.4110)	... ...	0.6661 (0.5179)
Minimum GED age requirement is 17	0.5632 (0.4134)	-0.0021 (0.0052)	0.6302 (0.5182)
Minimum GED age requirement is 18	0.5723 (0.4115)	-0.0003 (0.0040)	0.6664 (0.5199)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0129 (0.0069)	0.0123 (0.0062)	0.0068 (0.0066)
Minimum school leaving age is 17	0.0056 (0.0160)	0.0139 (0.0107)	-0.0345 (0.0042)
Observations	54	53	52
Number of States	9	9	9

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population by race are used as weights. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states in the south that were required to eliminate the and/or score option. These include: LA, MS, NM, TX. Control states are those states in the south that already had high enough standards by 1997. These include: AR, DE, DC, FL, KY, MD, OK and WV. Control states dropped due to missings include: AR, KY and WV. No treatment states were dropped as a result of missings.

**Table W-17. Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Restricting Sample to Southern States (Blacks)**

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0233 (0.0121)	0.0181 (0.0184)	0.0347 (0.0219)
Score option changer state post 1997 (treatment effect)	-0.0216 (0.0046)	-0.0159 (0.0090)	-0.033 (0.0224)
Local unemployment rate	-0.0061 (0.0082)	-0.0112 (0.0098)	0.0084 (0.0105)
Log of per capita income	-0.1446 (0.0698)	-0.1294 (0.0544)	-0.1723 (0.1690)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	... ...	... ...	1.7931 (1.7685)
Minimum GED age requirement is 17	-0.0138 (0.0052)	-0.0118 (0.0069)	1.7195 (1.7593)
Minimum GED age requirement is 18	-0.0064 (0.0031)	-0.0074 (0.0055)	1.7908 (1.7627)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0506 (0.0043)	0.0655 (0.0055)	0.0323 (0.0154)
Minimum school leaving age is 17	0.0526 (0.0033)	0.0656 (0.0093)	-0.0177 (0.0178)
Observations	54	54	52
Number of States	9	9	9

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population by race are used as weights. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states in the south that were required to eliminate the and/or score option. These include: LA, MS, NM, TX. Control states are those states in the south that already had high enough standards by 1997. These include: AR, DE, DC, FL, KY, MD, OK and WV. Control states dropped due to missings include: AR, KY and WV. No treatment states were dropped as a result of missings.

**Table W-18.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Restricting Sample to Southern States (Hispanics)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0221 (0.0176)	0.0175 (0.0222)	0.0321 (0.0080)
Score option changer state post 1997 (treatment effect)	-0.0308 (0.0105)	-0.0189 (0.0142)	-0.0582 (0.0096)
Local unemployment rate	0.0069 (0.0189)	0.0058 (0.0279)	0.0108 (0.0121)
Log of per capita income	-0.0579 (0.1369)	-0.0358 (0.1830)	-0.1109 (0.1271)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	... ...	... ...	1.1960 (1.3277)
Minimum GED age requirement is 17	-0.0015 (0.0068)	0.0000 (0.0090)	1.197 (1.3271)
Minimum GED age requirement is 18	0.0103 (0.0189)	0.0175 (0.0278)	1.1906 (1.3340)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0003 (0.0100)	0.0052 (0.0122)	-0.0121 (0.0060)
Minimum school leaving age is 17	0.0961 (0.0184)	0.1197 (0.0244)	-0.0196 (0.0125)
Observations	54	53	52
Number of States	9	9	9

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population by race are used as weights. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states in the south that were required to eliminate the and/or score option. These include: LA, MS, NM, TX. Control states are those states in the south that already had high enough standards by 1997. These include: AR, DE, DC, FL, KY, MD, OK and WV. Control states dropped due to missings include: AR, KY and WV. No treatment states were dropped as a result of missings.



**Table W-19.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Excluding States that Changed Minimum Age Required to Drop Out (All Races)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0094 (0.0040)	0.0126 (0.0050)	0.0023 (0.0066)
Score option changer state post 1997 (treatment effect)	-0.013 (0.0037)	-0.0056 (0.0054)	-0.0293 (0.0065)
Local unemployment rate	0.0042 (0.0032)	0.0089 (0.0062)	-0.0086 (0.0058)
Log of per capita income	-0.0288 (0.0298)	-0.0043 (0.0413)	-0.1038 (0.0409)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0048 (0.0044)	0.0149 (0.0041)	-0.0098 (0.0058)
Minimum GED age requirement is 17	0.0073 (0.0050)	0.0142 (0.0052)	-0.0022 (0.0089)
Minimum GED age requirement is 18	0.0034 (0.0038)	0.0112 (0.0023)	-0.0084 (0.0045)
Observations	126	126	125
Number of States	21	21	21

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Treatment states dropped in this regression are MS and NM. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. Washington D.C. is the only one from the control group dropped due to changes in minimum age required to drop out. Control states dropped due to missing and negative dropout rates include: NJ. No treatment states are dropped.

**Table W-20.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Excluding States that Changed Minimum Age Required to Drop Out (Whites)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0079 (0.0033)	0.0093 (0.0057)	0.0039 (0.0068)
Score option changer state post 1997 (treatment effect)	-0.0042 (0.0016)	0.0001 (0.0047)	-0.0128 (0.0091)
Local unemployment rate	0.0032 (0.0018)	0.0058 (0.0046)	-0.0024 (0.0056)
Log of per capita income	-0.0374 (0.0210)	-0.0217 (0.0330)	-0.0708 (0.0301)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0002 (0.0031)	0.0047 (0.0058)	-0.0088 (0.0045)
Minimum GED age requirement is 17	0.0041 (0.0035)	0.0075 (0.0077)	-0.0025 (0.0090)
Minimum GED age requirement is 18	0.002 (0.0007)	0.0047 (0.0011)	-0.0039 (0.0016)
Observations	66	66	66
Number of States	11	11	11

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Treatment states dropped in this regression due to changes in minimum age required to drop out of school are MS and NM. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. Washington D.C. is the only one from the control group dropped due to changes in minimum age required to drop out. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-21.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Excluding States that Changed Minimum Age Required to Drop Out (Blacks)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0168 (0.0098)	0.0177 (0.0145)	0.012 (0.0264)
Score option changer state post 1997 (treatment effect)	-0.0125 (0.0097)	0.0013 (0.0162)	-0.0476 (0.0173)
Local unemployment rate	-0.0057 (0.0065)	-0.0014 (0.0137)	-0.0173 (0.0181)
Log of per capita income	-0.1582 (0.0692)	-0.1385 (0.0823)	-0.1952 (0.1532)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0693 (0.0167)	0.0882 (0.0240)	0.0153 (0.0211)
Minimum GED age requirement is 17	0.0086 (0.0149)	0.0304 (0.0257)	-0.044 (0.0413)
Minimum GED age requirement is 18	0.0499 (0.0031)	0.0537 (0.0050)	0.0382 (0.0100)
Observations	66	66	66
Number of States	11	11	11

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Treatment states dropped in this regression due to changes in minimum age required to drop out of school are MS and NM. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. Washington D.C. is the only one from the control group dropped due to changes in minimum age required to drop out. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV.

No treatment states are dropped.

**Table W-22.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Excluding States that Changed Minimum Age Required to Drop Out (Hispanics)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0142 (0.0064)	0.0107 (0.0065)	0.0225 (0.0076)
Score option changer state post 1997 (treatment effect)	-0.0258 (0.0040)	-0.0125 (0.0052)	-0.0598 (0.0048)
Local unemployment rate	0.0105 (0.0046)	0.0189 (0.0076)	-0.0129 (0.0072)
Log of per capita income	-0.0213 (0.0596)	0.0507 (0.0739)	-0.2160 (0.0728)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0226 (0.0132)	0.0262 (0.0192)	0.0057 (0.0131)
Minimum GED age requirement is 17	0.0344 (0.0119)	0.0407 (0.0183)	0.0079 (0.0163)
Minimum GED age requirement is 18	0.0401 (0.0035)	0.0509 (0.0054)	0.0115 (0.0050)
Observations	66	66	64
Number of States	11	11	11

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Treatment states dropped in this regression due to changes in minimum age required to drop out of school are MS and NM. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NJ, NY, ND, OK, OR, SD, UT, WA, WV, WI. Washington D.C. is the only one from the control group dropped due to changes in minimum age required to drop out. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV.

No treatment states are dropped.

**Table W-23.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Excluding States that Changed the Minimum Age Required to either Drop Out or Take the GED (All Races)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0125 (0.0048)	0.0161 (0.0059)	0.003 (0.0083)
Score option changer state post 1997 (treatment effect)	-0.0151 (0.0045)	-0.0078 (0.0068)	-0.0321 (0.0063)
Local unemployment rate	0.0072 (0.0039)	0.0142 (0.0077)	-0.0101 (0.0070)
Log of per capita income	-0.0119 (0.0422)	0.0316 (0.0601)	-0.1167 (0.0543)
Observations	72	72	72
Number of States	12	12	12

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states that were required to eliminate the and/or score option and did not change age requirements during period under study. These include: LA, TX. Control states are those that already had high enough standards by 1997 and did not change age requirements during period under study. These include: CA, CO, DE, FL, ID, MD, NJ, NY, ND, WA, WV. Control states dropped due to missing and negative dropout rates include: NJ. No treatment states are dropped.

**Table W-24.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Excluding States that Changed the Minimum Age Required to either Drop Out or Take the GED (Whites)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0106 (0.0032)	0.0121 (0.0069)	0.0061 (0.0103)
Score option changer state post 1997 (treatment effect)	-0.0038 (0.0010)	0.0016 (0.0045)	-0.0145 (0.0114)
Local unemployment rate	0.0034 (0.0026)	0.0065 (0.0056)	-0.0035 (0.0058)
Log of per capita income	-0.0481 (0.0290)	-0.0305 (0.0430)	-0.0856 (0.0301)
Observations	42	42	42
Number of States	12	12	12

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states that were required to eliminate the and/or score option and did not change age requirements during period under study. These include: LA, TX. Control states are those that already had high enough standards by 1997 and did not change age requirements during period under study. These include: CA, CO, DE, FL, ID, MD, NJ, NY, ND, WA, WV. Control states dropped due to missing and negative dropout rates include: NJ, NY, WA, WV. No treatment states are dropped.

**Table W-25.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Excluding States that Changed the Minimum Age Required to either Drop Out or Take the GED (Blacks)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0178 (0.0107)	0.0176 (0.0163)	0.0146 (0.0297)
Score option changer state post 1997 (treatment effect)	-0.0128 (0.0108)	0.0016 (0.0176)	-0.0488 (0.0188)
Local unemployment rate	-0.0025 (0.0066)	0.0024 (0.0140)	-0.0171 (0.0205)
Log of per capita income	-0.1314 (0.0737)	-0.1031 (0.0740)	-0.2023 (0.1696)
Observations	42	42	42
Number of States	12	12	12

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states that were required to eliminate the and/or score option and did not change age requirements during period under study. These include: LA, TX. Control states are those that already had high enough standards by 1997 and did not change age requirements during period under study. These include: CA, CO, DE, FL, ID, MD, NJ, NY, ND, WA, WV. Control states dropped due to missing and negative dropout rates include: NJ, NY, WA, WV. No treatment states are dropped.

**Table W-26.** Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Excluding States that Changed the Minimum Age Required to either Drop Out or Take the GED (Hispanics)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0147 (0.0070)	0.0116 (0.0078)	0.0219 (0.0069)
Score option changer state post 1997 (treatment effect)	-0.0274 (0.0047)	-0.0153 (0.0060)	-0.0575 (0.0059)
Local unemployment rate	0.0123 (0.0054)	0.0221 (0.0087)	-0.0155 (0.0082)
Log of per capita income	-0.0048 (0.0663)	0.0809 (0.0811)	-0.2417 (0.0803)
Observations	42	42	41
Number of States	12	12	12

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old population are used as weights. States with fewer than two observations per period are dropped. The treatment effect reported above is the interaction between the treatment state dummy and the post period dummy, where the treatment state dummy is equal to 1 for treatment states and the post period dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. Treatment states are those states that were required to eliminate the and/or score option and did not change age requirements during period under study. These include: LA, TX. Control states are those that already had high enough standards by 1997 and did not change age requirements during period under study. These include: CA, CO, DE, FL, ID, MD, NJ, NY, ND, WA, WV. Control states dropped due to missing and negative dropout rates include: NJ, NY, WA, WV. No treatment states are dropped.



**Table W-27.** GLS Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements (All Races)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0079 (0.0022)	0.0111 (0.0026)	0.0027 (0.0033)
Score option changer state post 1997 (treatment effect)	-0.0127 (0.0021)	-0.0077 (0.0021)	-0.027 (0.0049)
Local unemployment rate	0.0022 (0.0011)	0.0039 (0.0015)	-0.0034 (0.0017)
Log of per capita income	-0.0370 (0.0118)	-0.0285 (0.0135)	-0.0680 (0.0180)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0072 (0.0030)	0.0126 (0.0041)	-0.0020 (0.0035)
Minimum GED age requirement is 17	0.0021 (0.0044)	0.0077 (0.0050)	-0.0134 (0.0082)
Minimum GED age requirement is 18	0.0059 (0.0025)	0.01 (0.0036)	-0.0048 (0.0030)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0023 (0.0056)	0.0009 (0.0041)	0.0047 (0.0106)
Minimum school leaving age is 17	0.0059 (0.0076)	0.0029 (0.0073)	0.0097 (0.0129)
Observations	144	144	142
Number of States	24	24	24

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using GLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: NJ. No treatment states are dropped.

**Table W-28.** GLS Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements (Whites)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.007 (0.0019)	0.0086 (0.0022)	0.0008 (0.0035)
Score option changer state post 1997 (treatment effect)	-0.0042 (0.0015)	0.0005 (0.0017)	-0.0118 (0.0041)
Local unemployment rate	0.0038 (0.0010)	0.0051 (0.0016)	-0.0007 (0.0018)
Log of per capita income	-0.0297 (0.0100)	-0.0201 (0.0124)	-0.0528 (0.0181)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0039 (0.0024)	0.0087 (0.0033)	-0.0044 (0.0033)
Minimum GED age requirement is 17	0.0054 (0.0051)	0.0092 (0.0071)	-0.0138 (0.0108)
Minimum GED age requirement is 18	0.0023 (0.0012)	0.0046 (0.0021)	-0.0036 (0.0022)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0159 (0.0089)	0.0159 (0.0129)	0.0114 (0.0136)
Minimum school leaving age is 17	0.0195 (0.0106)	0.0194 (0.0151)	0.001 (0.0183)
Observations	84	83	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using GLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-29.** GLS Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements (Blacks)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0172 (0.0056)	0.014 (0.0082)	0.0136 (0.0116)
Score option changer state post 1997 (treatment effect)	-0.016 (0.0043)	-0.0071 (0.0061)	-0.0386 (0.0107)
Local unemployment rate	-0.0065 (0.0033)	-0.0025 (0.0052)	0.0030 (0.0053)
Log of per capita income	-0.1577 (0.0311)	-0.0976 (0.0441)	-0.0437 (0.0544)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0574 (0.0143)	0.0676 (0.0217)	0.0493 (0.0122)
Minimum GED age requirement is 17	0.023 (0.0222)	0.0406 (0.0352)	-0.0083 (0.0199)
Minimum GED age requirement is 18	0.05 (0.0133)	0.0552 (0.0203)	0.0498 (0.0107)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0395 (0.0160)	0.0621 (0.0291)	0.0334 (0.0206)
Minimum school leaving age is 17	0.0242 (0.0248)	0.0494 (0.0343)	-0.004 (0.0240)
Observations	84	84	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using GLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-30.** GLS Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements  
(Hispanics)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.013 (0.0048)	0.0148 (0.0063)	0.0258 (0.0086)
Score option changer state post 1997 (treatment effect)	-0.0265 (0.0046)	-0.0155 (0.0055)	-0.0644 (0.0065)
Local unemployment rate	0.0118 (0.0027)	0.0231 (0.0036)	-0.0046 (0.0038)
Log of per capita income	-0.0075 (0.0293)	0.0709 (0.0367)	-0.1568 (0.0421)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0290 (0.0174)	0.0454 (0.0252)	0.0143 (0.0171)
Minimum GED age requirement is 17	0.0342 (0.0195)	0.0526 (0.0277)	0.0086 (0.0188)
Minimum GED age requirement is 18	0.0407 (0.0155)	0.054 (0.0230)	0.0173 (0.0147)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	-0.0027 (0.0114)	0.0062 (0.0136)	-0.0181 (0.0101)
Minimum school leaving age is 17	0.0706 (0.0147)	0.0877 (0.0229)	-0.0189 (0.0426)
Observations	84	83	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using GLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-31.** GLS Fixed Effects Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements and Using Panel Specific AR-1 Autocorrelation Structure (All Races)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0076 (0.0019)	0.0122 (0.0019)	0.0018 (0.0024)
Score option changer state post 1997 (treatment effect)	-0.0137 (0.0017)	-0.009 (0.0019)	-0.0283 (0.0038)
Local unemployment rate	0.0027 (0.0010)	0.0049 (0.0012)	-0.0068 (0.0016)
Log of per capita income	-0.0283 (0.0106)	-0.0207 (0.0106)	-0.0925 (0.0135)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0077 (0.0026)	0.0150 (0.0019)	-0.0032 (0.0023)
Minimum GED age requirement is 17	0.0036 (0.0042)	0.0129 (0.0036)	-0.0085 (0.0070)
Minimum GED age requirement is 18	0.0052 (0.0024)	0.0119 (0.0011)	-0.0062 (0.0012)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.005 (0.0054)	0.0032 (0.0050)	0.0067 (0.0102)
Minimum school leaving age is 17	0.0121 (0.0075)	0.0098 (0.0082)	0.0218 (0.0125)
Observations	144	144	142
Number of States	24	24	24

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using GLS using panel specific AR-1 autocorrelation structure. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: NJ. No treatment states are dropped.

**Table W-32.** Fixed Effects Estimates Using GLS of the Effect of the Reform on Dropout Rates Controlling for Age Requirements and Using Panel Specific AR-1 Autocorrelation Structure (Whites)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0076 (0.0017)	0.0093 (0.0019)	0.0042 (0.0035)
Score option changer state post 1997 (treatment effect)	-0.0051 (0.0012)	-0.0005 (0.0015)	-0.017 (0.0033)
Local unemployment rate	0.0034 (0.0010)	0.0041 (0.0015)	-0.0030 (0.0016)
Log of per capita income	-0.0312 (0.0091)	-0.0251 (0.0113)	-0.0638 (0.0177)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0042 (0.0021)	0.0093 (0.0030)	-0.0051 (0.0037)
Minimum GED age requirement is 17	0.0049 (0.0044)	0.0093 (0.0055)	-0.0251 (0.0095)
Minimum GED age requirement is 18	0.0022 (0.0009)	0.0045 (0.0020)	-0.0033 (0.0027)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0179 (0.0094)	0.0193 (0.0118)	0.0122 (0.0075)
Minimum school leaving age is 17	0.0211 (0.0106)	0.0228 (0.0129)	-0.0076 (0.0127)
Observations	84	83	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using GLS using panel specific AR-1 autocorrelation structure. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-33.** Fixed Effects Estimates Using GLS of the Effect of the Reform on Dropout Rates Controlling for Age Requirements and Using Panel Specific AR-1 Autocorrelation Structure (Blacks)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0169 (0.0041)	0.0114 (0.0073)	0.013 (0.0111)
Score option changer state post 1997 (treatment effect)	-0.0156 (0.0034)	-0.0089 (0.0058)	-0.0404 (0.0099)
Local unemployment rate	-0.0075 (0.0031)	-0.0065 (0.0049)	0.0014 (0.0053)
Log of per capita income	-0.1653 (0.0278)	-0.1084 (0.0415)	-0.0613 (0.0540)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0622 (0.0125)	0.0732 (0.0189)	0.0457 (0.0125)
Minimum GED age requirement is 17	0.0309 (0.0204)	0.0401 (0.0314)	-0.016 (0.0185)
Minimum GED age requirement is 18	0.0532 (0.0113)	0.0603 (0.0177)	0.0473 (0.0106)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	0.0495 (0.0174)	0.0772 (0.0279)	0.0292 (0.0146)
Minimum school leaving age is 17	0.0388 (0.0221)	0.0606 (0.0268)	-0.0083 (0.0195)
Observations	84	84	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using GLS using panel specific AR-1 autocorrelation structure. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.

**Table W-34.** Fixed Effects Estimates Using GLS of the Effect of the Reform on Dropout Rates Controlling for Age Requirements and Using Panel Specific AR-1 Autocorrelation Structure (Hispanics)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Post 1997 dummy	0.0093 (0.0043)	0.01 (0.0056)	0.0244 (0.0083)
Score option changer state post 1997 (treatment effect)	-0.0249 (0.0036)	-0.0115 (0.0047)	-0.0645 (0.0058)
Local unemployment rate	0.0112 (0.0022)	0.0198 (0.0030)	-0.0057 (0.0035)
Log of per capita income	-0.0025 (0.0261)	0.0517 (0.0327)	-0.1539 (0.0415)
Minimum GED age requirement is 16 (dummy for minimum GED age requirement set above 18 is left out)	0.0267 (0.0163)	0.0356 (0.0189)	0.0127 (0.0169)
Minimum GED age requirement is 17	0.0314 (0.0185)	0.0479 (0.0217)	0.0047 (0.0185)
Minimum GED age requirement is 18	0.0418 (0.0147)	0.0577 (0.0167)	0.0173 (0.0146)
Minimum school leaving age is 16 (dummy for minimum school leaving age set above 17 is left out)	-0.0086 (0.0092)	-0.0053 (0.0106)	-0.0191 (0.0098)
Minimum school leaving age is 17	0.0713 (0.0087)	0.0911 (0.0158)	-0.0374 (0.0353)
Observations	84	83	82
Number of States	14	14	14

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using GLS using panel specific AR-1 autocorrelation structure. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period for any of the dropout rate measures by race are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997. These include: AR, CA, CO, DE, DC, FL, ID, KY, MD, MO, NY, ND, OK, OR, SD, UT, WA, WV, WI. Control states dropped due to missing and negative dropout rates include: AR, ID, KY, MO, ND, NJ, NY, SD, UT, WA, WV. No treatment states are dropped.



**Table W-35.** Difference-in-Difference Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements and Restricting Control Group to California and Florida (High Immigrant States) (All Races)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Score option changer state	-0.016 (0.0127)	-0.0166 (0.0146)	-0.0136 (0.0091)
Score option changer state post 1997 (treatment effect)	-0.0069 (0.0063)	0.0056 (0.0122)	-0.0365 (0.0132)
Post 1997 dummy	-0.0086 (0.0055)	-0.0126 (0.0121)	0.0007 (0.0118)
Constant	0.1214 (0.0111)	0.1290 (0.0132)	0.1014 (0.0050)
Observations	42	42	42
Number of States	7	7	7

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997 and have large immigrant populations. These include: CA and FL.

**Table W-36.** Difference-in-Difference Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements and Restricting Control Group to California and Florida (High Immigrant States) (Whites)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Score option changer state	-0.0216 (0.0205)	-0.0192 (0.0251)	-0.026 (0.0099)
Score option changer state post 1997 (treatment effect)	-0.002 (0.0038)	0.0043 (0.0108)	-0.0146 (0.0148)
Post 1997 dummy	-0.0072 (0.0037)	-0.0080 (0.0108)	-0.0065 (0.0142)
Constant	0.1008 (0.0193)	0.1077 (0.0238)	0.0830 (0.0073)
Observations	42	42	42
Number of States	7	7	7

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997 and have large immigrant populations. These include: CA and FL.

**Table W-37.** Difference-in-Difference Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements and Restricting Control Group to California and Florida (High Immigrant States) (Blacks)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Score option changer state	-0.031 (0.0104)	-0.0411 (0.0071)	-0.001 (0.0223)
Score option changer state post 1997 (treatment effect)	-0.0119 (0.0155)	0.0003 (0.0266)	-0.043 (0.0267)
Post 1997 dummy	-0.0038 (0.0136)	-0.0065 (0.0261)	0.0035 (0.0223)
Constant	0.1707 (0.0098)	0.1812 (0.0058)	0.1398 (0.0212)
Observations	42	42	42
Number of States	7	7	7

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997 and have large immigrant populations. These include: CA and FL.

**Table W-38.** Difference-in-Difference Estimates of the Effect of the Reform on Dropout Rates Controlling for Age Requirements and Restricting Control Group to California and Florida (High Immigrant States) (Hispanics)

Independent Variables	10th-12th Grade Dropout Rate	10th-11th Grade Dropout Rate	12th Grade Dropout Rate
Score option changer state	-0.0189 (0.0076)	-0.0171 (0.0095)	-0.0214 (0.0055)
Score option changer state post 1997 (treatment effect)	-0.016 (0.0037)	0.0053 (0.0068)	-0.0725 (0.0059)
Post 1997 dummy	-0.0161 (0.0036)	-0.0246 (0.0063)	0.0079 (0.0043)
Constant	0.1604 (0.0024)	0.1693 (0.0014)	0.1351 (0.0050)
Observations	42	42	42
Number of States	7	7	7

Note: Huber-White robust standard errors are in parentheses (clustered by state). Model is estimated using OLS. State 15-17 year old populations are used as weights. The treatment effect reported above is the interaction between the treatment state dummy and the post 1997 dummy, where the treatment state dummy is equal to 1 for treatment states and the post 1997 dummy is equal to 1 for the years 1998-2000, otherwise both dummies are equal to 0. States with fewer than two observations per period are dropped. Treatment states are those states that were required to eliminate the and/or score option. These include: LA, MS, NE, NM, TX. Control states are those that already had high enough standards by 1997 and have large immigrant populations. These include: CA and FL.