

Appendix Table 4. Elasticities for Tax With Smoking Participation, Intensity, First Cigarette Initiation, and Daily Smoking Initiation by Grade, SES, Race/Ethnicity, and Gender, Monitoring the Future Data, 2005-2016. Results Shown are Using Complete Case Data Using the Main Effects Model and Interaction Models With Tax*Sociodemographic Variable.

	8 th graders Elasticity (95% CI)	10 th graders Elasticity (95% CI)	12 th graders Elasticity (95% CI)
Smoking participation			
<i>Tax main effect</i>	-0.28 (-0.42, -0.13)	0.07 (-0.03, 0.16)	-0.13 (-0.21, -0.04)
<i>Parental education</i>			
<i>Less than High School</i>	-0.21 (-0.41, -0.00)	0.08 (-0.05, 0.21)	-0.08 (-0.23, 0.07)
<i>High School</i>	-0.22 (-0.41, -0.03)	0.14 (0.03, 0.25)	-0.05 (-0.16, 0.05)
<i>Some College</i>	-0.21 (-0.39, -0.03)	0.05 (-0.07, 0.17)	-0.08 (-0.18, 0.02)
<i>College or Greater</i>	-0.35 (-0.50, -0.19)	0.04 (-0.07, 0.16)	-0.18 (-0.27, -0.09)
<i>College bound</i>			
<i>No, Probably/Definitely</i>	--	--	0.01 (-0.08, 0.10)
<i>Yes, Probably</i>	--	--	-0.04 (-0.14, 0.05)
<i>Yes, Definitely</i>	--	--	-0.25 (-0.34, -0.15)
<i>Race/ethnicity</i>			
<i>Non-Hispanic White</i>	-0.26 (-0.42, -0.11)	0.06 (-0.05, 0.16)	-0.12 (-0.21, -0.04)
<i>Non-Hispanic Black</i>	-0.30 (-0.58, 0.02)	0.04 (-0.15, 0.24)	-0.19 (-0.39, 0.01)
<i>Hispanic</i>	-0.30 (-0.49, -0.11)	0.04 (-0.12, 0.19)	-0.17 (-0.32, -0.01)
<i>Non-Hispanic Asian</i>	-0.96 (-1.55, -0.37)	0.30 (0.03, 0.57)	-0.37 (-0.56, -0.17)
<i>Non-Hispanic Other</i>	-0.22 (-0.45, 0.01)	0.12 (-0.03, 0.27)	-0.05 (-0.18, 0.08)
<i>Gender</i>			
<i>Female</i>	-0.31 (-0.46, -0.16)	0.04 (-0.07, 0.15)	-0.12 (-0.21, -0.03)
<i>Male</i>	-0.24 (-0.40, -0.08)	0.10 (-0.01, 0.21)	-0.13 (-0.22, -0.04)
N	154235	162267	141642
Conditional intensity			
<i>Tax main effect</i>	0.05 (-0.18, 0.28)	-0.13 (-0.26, 0.01)	-0.12 (-0.22, -0.02)
<i>Parental education</i>			
<i>Less than High School</i>	0.06 (-0.27, 0.39)	-0.25 (-0.54, 0.04)	-0.20 (-0.49, 0.10)
<i>High School</i>	-0.18 (-0.61, 0.26)	-0.23 (-0.70, 0.24)	-0.15 (-0.36, 0.06)
<i>Some College</i>	-0.42 (-85.05, 84.22)	-0.34 (-4.34, 3.66)	-0.22 (-1.75, 1.31)
<i>College or Greater</i>	0.29 (-0.08, 0.65)	-0.04 (-0.58, 0.49)	-0.15 (-4.08, 3.79)
<i>College bound</i>			
<i>No, Probably/Definitely</i>	--	--	-0.16 (-0.30, -0.02)
<i>Yes, Probably</i>	--	--	-0.15 (-4.00, 4.69)
<i>Yes, Definitely</i>	--	--	-0.14 (-2.61, 2.33)
<i>Race/ethnicity</i>			
<i>Non-Hispanic White</i>	-0.09 (-0.45, 0.27)	-0.21 (-3.20, 2.78)	-0.17 (-0.63, 0.29)
<i>Non-Hispanic Black</i>	0.48 (-0.13, 1.08)	0.45 (-3.12, 4.02)	0.38 (-37.70, 38.47)
<i>Hispanic</i>	0.56 (-34.30, 35.42)	-0.11 (-2154.74, 2154.511)	-0.44 (-520.64, 519.75)
<i>Non-Hispanic Asian</i>	-0.22 (-1.30, 0.87)	-0.05 (-0.74, 0.65)	-0.28 (-1.05, 0.50)
<i>Non-Hispanic Other</i>	0.04 (-0.32, 0.41)	-0.22 (-0.61, 0.17)	-0.17 (-2.67, 2.33)
<i>Gender</i>			
<i>Female</i>	-0.03 (-0.44, 0.39)	-0.21 (-8.26, 7.85)	-0.04 (-119.19, 119.11)
<i>Male</i>	-0.11 (-0.14, 0.36)	-0.05 (-0.29, 0.19)	-0.18 (-2.85, 2.49)
N	9330	17801	24721
First cigarette initiation			
<i>Tax main effect</i>	-0.28 (-0.46, -0.09)	-0.02 (-0.19, 0.15)	-0.13 (-0.33, 0.06)
<i>Parental education</i>			
<i>Less than High School</i>	-0.25 (-0.61, 0.10)	0.17 (-0.12, 0.47)	0.03 (-0.34, 0.41)
<i>High School</i>	-0.23 (-0.49, 0.03)	-0.01 (-0.25, 0.22)	-0.22 (-0.53, 0.09)
<i>Some College</i>	-0.23 (-0.51, 0.05)	0.13 (-0.09, 0.36)	-0.23 (-0.52, 0.07)

<i>College or Greater</i>	-0.31 (-0.52, -0.09)	-0.09 (-0.29, 0.11)	-0.10 (-0.32, 0.12)
<i>College bound</i>			
<i>No, Probably/Definitely</i>	--	--	0.14 (-0.16, 0.44)
<i>Yes, Probably</i>	--	--	-0.19 (-0.46, 0.08)
<i>Yes, Definitely</i>	--	--	-0.18 (-0.39, 0.03)
<i>Race/ethnicity</i>			
<i>Non-Hispanic White</i>	-0.24 (-0.45, -0.02)	-0.03 (-0.20, 0.15)	-0.10 (-0.32, 0.11)
<i>Non-Hispanic Black</i>	-0.32 (-0.77, 0.14)	-0.01 (-0.33, 0.30)	-0.19 (-0.68, 0.30)
<i>Hispanic</i>	-0.24 (-0.52, 0.04)	-0.13 (-0.43, 0.17)	-0.68 (-1.14, -0.21)
<i>Non-Hispanic Asian</i>	-0.46 (-1.00, 0.08)	0.28 (-0.25, 0.81)	-0.56 (-1.27, 0.15)
<i>Non-Hispanic Other</i>	-0.43 (-0.69, -0.16)	0.03 (-0.24, 0.31)	0.27 (-0.16, 0.70)
<i>Gender</i>			
<i>Female</i>	-0.30 (-0.50, -0.10)	-0.08 (-0.26, 0.09)	-0.19 (-0.42, 0.03)
<i>Male</i>	-0.24 (-0.47, -0.02)	0.05 (-0.14, 0.25)	-0.07 (-0.31, 0.17)
<i>N</i>	119857	114321	40982
Daily smoking initiation			
<i>Tax main effect</i>	-0.36 (-0.60, -0.12)	0.07 (-0.12, 0.25)	-0.21 (-0.42, -0.01)
<i>Parental education</i>			
<i>Less than High School</i>	-0.17 (-0.52, 0.19)	0.15 (-0.22, 0.52)	-0.15 (-0.55, 0.25)
<i>High School</i>	-0.41 (-0.74, -0.07)	0.11 (-0.13, 0.35)	-0.14 (-0.42, 0.13)
<i>Some College</i>	-0.38 (-0.71, -0.06)	-0.02 (-0.26, 0.21)	-0.17 (-0.47, 0.12)
<i>College or Greater</i>	-0.38 (-0.66, -0.10)	0.07 (-0.14, 0.29)	-0.26 (-0.50, -0.02)
<i>College bound</i>			
<i>No, Probably/Definitely</i>	--	--	-0.00 (-0.27, 0.27)
<i>Yes, Probably</i>	--	--	-0.07 (-0.33, 0.19)
<i>Yes, Definitely</i>	--	--	-0.39 (-0.63, -0.14)
<i>Race/ethnicity</i>			
<i>Non-Hispanic White</i>	-0.36 (-0.61, -0.11)	0.08 (-0.12, 0.27)	-0.23 (-0.44, -0.02)
<i>Non-Hispanic Black</i>	-0.36 (-0.96, 0.24)	0.04 (-0.38, 0.46)	-0.35 (-0.89, 0.19)
<i>Hispanic</i>	-0.11 (-0.56, 0.34)	-0.12 (-0.53, 0.29)	-0.53 (-1.02, -0.04)
<i>Non-Hispanic Asian</i>	-0.96 (-1.87, -0.05)	0.45 (-0.12, 1.02)	0.06 (-0.51, 0.63)
<i>Non-Hispanic Other</i>	-0.53 (-0.98, -0.08)	0.06 (-0.22, 0.33)	0.15 (-0.32, 0.63)
<i>Gender</i>			
<i>Female</i>	-0.51 (-0.76, -0.27)	0.06 (-0.14, 0.26)	-0.20 (-0.44, 0.04)
<i>Male</i>	-0.19 (-0.49, 0.11)	0.08 (-0.13, 0.28)	-0.22 (-0.44, -0.01)
<i>N</i>	139610	144771	56675

Abbreviations: Confidence interval (CI), socioeconomic status (SES)