

Online Only Appendix Tables:

Appendix 1. Summary Statistics for State Level Demographic and Socio-economic Variables in Analysis of Disposable E-cigarettes

Variables	mean	sd	min	max
Market population	5547356	3838943	1090263	20628688
Gender % of male population *	49.09	0.51	48.17	50.48
Gender % of female population	50.91	0.51	49.52	51.83
Employment: % of 16+ who are employed *	58.99	3.13	52.10	66.41
Employment: % of 16+ who are not employed	41.01	3.13	33.59	47.90
Age Group: % of population under 5 years	6.61	0.67	5.18	9.16
Age Group: % of population 5 to 17 years old	17.70	1.06	15.18	21.28
Age Group: % of population 18 to 24 years old *	9.79	0.74	7.92	12.09
Age Group: % of population 25 to 44 years old	27.28	1.60	23.89	30.20
Age Group: % of population 45 to 64 years old	25.93	1.28	21.14	28.72
Age Group: % of population 65 and over	12.69	2.20	8.81	20.45
Race: % of population who are white *	75.40	9.53	54.88	90.87
Race: % of population who are black	13.16	8.05	0.88	34.94
Race: % of population who are other race	11.43	7.89	3.09	38.20
Ethnicity: % of population who are non Hispanic *	86.76	11.77	46.36	98.87
Ethnicity: % of population who are Hispanic	13.24	11.77	1.13	53.64
Education: % of 25+ population with less than high school *	14.03	3.15	8.26	24.43
Education: % of 25+ population with high school and some college	57.50	4.59	47.75	64.73
Education: % of 25+ population with bachelor's or more	28.47	4.64	19.41	40.39
Income: % of households with income 0 - 25,000 *	22.99	3.60	13.74	32.54
Income: % of households with income 25,000 - 50,000	24.75	2.65	18.25	28.73
Income: % of households with income 50,000 - 100,000	31.31	1.68	27.05	35.60
Income: % of households with income 100,000 - 150,000	12.51	2.33	7.90	18.27
Income: % of households with income 150,000 or more	8.44	3.25	4.09	18.26
N	569			

* Reference Category

Appendix 2. Summary Statistics for State Level Demographic and Socio-economic Variables in Analysis of Reusable E-cigarettes

Variables	mean	sd	min	max
Market population	5991489	4070396	1105923	20628688
Gender % of male population *	49.07	0.52	48.17	50.48
Gender % of female population	50.93	0.52	49.52	51.83
Employment: % of 16+ who are employed *	58.77	3.06	52.10	66.41
Employment: % of 16+ who are not employed	41.23	3.06	33.59	47.90
Age Group: % of population under 5 years	6.63	0.64	5.18	9.16
Age Group: % of population 5 to 17 years old	17.72	1.08	15.18	21.28
Age Group: % of population 18 to 24 years old *	9.76	0.73	7.92	11.81
Age Group: % of population 25 to 44 years old	27.42	1.61	23.89	30.20
Age Group: % of population 45 to 64 years old	25.85	1.24	21.14	28.72
Age Group: % of population 65 and over	12.62	2.28	8.81	20.45
Race: % of population who are white *	74.25	9.57	54.88	90.87
Race: % of population who are black	13.72	8.09	0.88	34.94
Race: % of population who are other race	12.03	8.41	3.09	38.20
Ethnicity: % of population who are non Hispanic *	85.83	12.36	46.36	98.87
Ethnicity: % of population who are Hispanic	14.17	12.36	1.13	53.64
Education: % of 25+ population with less than high school *	14.42	3.16	8.26	24.43
Education: % of 25+ population with high school and some college	57.07	4.75	47.75	64.73
Education: % of 25+ population with bachelor's or more	28.51	4.81	19.41	40.39
Income: % of households with income 0 - 2,000 *	23.00	3.66	13.74	32.54
Income: % of households with income 25,000 - 50,000	24.67	2.74	18.25	28.73
Income: % of households with income 50,000 - 100,000	31.14	1.62	27.05	35.60
Income: % of households with income 100,000 - 150,000	12.54	2.39	7.90	18.27
Income: % of households with income 150,000 or more	8.66	3.37	4.09	18.26

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* Reference Category

Appendix 3. Analysis of Disposable and Reusable E-cigarettes (Market-Store Fixed Effects Models Controlling for Market-level Socioeconomic and Demographic Characteristics)

VARIABLES	Disposable E-Cigarettes					Reusable E-Cigarettes				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Own Price Elasticity	-1.096*	-1.171**	-1.162**	-1.175**	-2.135**	-1.858***	-1.851***	-1.829***	-1.871***	-2.019***
	(0.577)	(0.511)	(0.508)	(0.512)	(0.912)	(0.530)	(0.538)	(0.536)	(0.526)	(0.500)
SFA index		-2.963**	-2.925**	-3.002**	2.002		3.311	3.927	3.039	3.291
		(1.310)	(1.391)	(1.224)	(6.513)		(6.256)	(5.899)	(6.262)	(6.649)
Ln Tax Cigarette			-0.302					-2.501		
			(2.357)					(1.590)		
Ln Price Cigarette				0.562	0.967				3.274	0.648
				(3.837)	(3.622)				(4.365)	(3.503)
Cross Price Elasticity					0.535					1.217
					(0.329)					(0.899)
year==2009	-0.388	-1.968*	-2.012*	-1.952*						
	(1.115)	(1.005)	(1.020)	(1.035)						
year==2010	-3.898***	-3.987***	-4.002***	-4.009***	-4.098***	-2.387***	-2.315***	-2.418***	-2.427***	-2.629***
	(0.376)	(0.372)	(0.390)	(0.406)	(0.523)	(0.357)	(0.347)	(0.369)	(0.373)	(0.593)
year==2011	-1.589***	-1.613***	-1.622***	-1.618***	-1.629***	-0.850***	-0.818***	-0.878***	-0.845***	-0.886***
	(0.218)	(0.217)	(0.217)	(0.229)	(0.224)	(0.277)	(0.270)	(0.278)	(0.279)	(0.291)
quarter==2	-0.118	-0.0925	-0.0928	-0.0848	0.145	0.0309	0.0287	0.0309	0.0718	0.0576
	(0.132)	(0.127)	(0.127)	(0.144)	(0.116)	(0.115)	(0.114)	(0.115)	(0.0968)	(0.0929)
quarter==3	0.0223	0.0703	0.0705	0.0736	0.103	-0.0649	-0.0805	-0.0755	-0.0652	-0.0640
	(0.131)	(0.136)	(0.137)	(0.139)	(0.137)	(0.118)	(0.122)	(0.124)	(0.117)	(0.119)
quarter==4	0.473***	0.516***	0.517***	0.520***	0.489***	0.476***	0.456***	0.458***	0.474***	0.473***
	(0.149)	(0.145)	(0.145)	(0.148)	(0.121)	(0.118)	(0.121)	(0.125)	(0.113)	(0.134)
Constant	207.1***	250.0***	-96.78	249.6***	-254.3***	375.9***	310.3***	135.4	330.8***	-62.72
	(3.459)	(17.58)	(187.9)	(41.40)	(58.37)	(29.42)	(117.2)	(170.1)	(117.2)	(64.36)
Observations	569	569	569	569	459	474	474	474	474	459
R-squared	0.802	0.806	0.806	0.806	0.836	0.773	0.775	0.777	0.775	0.776

Note: Year 2012 and 1st Quarter are reference groups. Market-store level dummies are not shown in the table.