Appendix A. Sample Posted B Grade



Appendix B. Regression Results, Impact on Final Inspection Scores

Pre-Post Estimation

VARIABLES	(1)	(2)	(3)	(4)	(5)
Post	-7.62***	-5.08***	-4.25***	-4.05***	-4.94***
Post*Linear Trend	(0.08)	(0.16)	(0.18)	(0.18) -0.29***	(0.29) -1.10***
Post*Linear Trend ²				(0.03)	(0.12) 07***
Linear Trend		-0.20***	-0.18***	-0.05*	(0.01) .68***
	_	(0.01)	(0.02)	(0.03)	(0.09)
Linear Trend ²					.08*** (0.01)
Seasonal FE	N	Y	Y	Y	Y
Rest. Char.	N	Y	N	N	N
Restaurant FE	N	N	Y	Y	Y
Constant	24.55***	13.27***	22.57***	23.12***	24.18***
	(0.07)	(2.33)	(0.12)	(0.14)	(0.19)
Inspections	167,045	167,045	125,036	125,036	125,036
Restaurants	40,554	40,554	20,634	20,634	20,633
R-squared	0.06	0.11	0.31	0.31	0.31

Notes: Robust standard errors clustered by restaurant in parentheses. *** p<0.01, ** p<0.05, * p<0.1.

Rollout Estimation

		spection ore
VARIABLES	(3)	(4)
Graded Inspection	-3.382*** (0.181)	-3.778*** (0.160)
Quarter Of Grading Policy	(0.101)	(0.100)
2	1.217***	1.573***
	(0.071)	(0.070)
3	0.574***	1.233***
	(0.123)	(0.093)
4	0.756***	2.051***
	(0.150)	(0.113)
Restaurant FE	N	Y
Constant	20.219***	19.791***
	(0.099)	(0.066)
Observations	93,788	93,788
R-squared	0.011	0.763

Notes: Robust standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1.

Appendix C. NAICS Codes for Establishment Groupings

''Gr	Graded" NYC Restaurants		Ungraded Suburban Restaurants		ngraded Food and Entertainment Establishments
NAICS	Business/Service Food Services and Drinking	NAICS	Business/Service Food Services and	NAICS	Business/Service
722	Places All Other Specialty Food	722	Drinking Places All Other Specialty Food	4451*	Grocery Stores
445299	Stores	445299	Stores	4452*	Specialty Food Stores
445291	Baked Goods Stores	445291	Baked Goods Stores	4453	Beer, Wine, and Liquor Stores Other Amusement and Recreation
445120	Convenience Stores	445120	Convenience Stores	7139	Industries Museums, Historical Sites, and Similar
				712	Institutions Performing Arts, Spectator Sports, and
				711	Related Industries

^{*}These exclude the NAICS codes included in the restaurant groups, i.e. 445299, 445291, 445120.

Appendix D. Mean Treatment and Control Group Characteristics, Rollout Sample By Quarter

3411 714	ıg, 2010	Sept – No	ov, 2010	Dec – Fe	eb, 2011	Mar – N	Iay, 2011
Treatment	Control	Treatment	Control	Treatment	Control	Treatment	Control
39.6%	41.4%	40.3%	41.8%	41.5%	40.8%	41.6%	40.6%
9.4	9.8	10.2	9.4	10.0	9.0	9.6	9.3
24.8	22.8	23.2	22.6	22.9	22.6	22.9	22.0
25.4	21.8	23.2	21.8	22.2	22.7	22.2	23.5
0.9	4.2	3.1	4.4	3.4	4.9	3.7	4.5
15.6%	12.3%	13.6%	12.1%	13.8%	9.9%	13.5%	7.8%
5.9	7.3	6.8	7.5	7.0	7.5	7.2	6.6
7,322,578	9,503,942	9,108,455	9,557,440	9,151,351	9,293,507	9,061,502	10,200,000
	39.6% 9.4 24.8 25.4 0.9 15.6% 5.9	39.6% 41.4% 9.4 9.8 24.8 22.8 25.4 21.8 0.9 4.2 15.6% 12.3% 5.9 7.3	39.6% 41.4% 40.3% 9.4 9.8 10.2 24.8 22.8 23.2 25.4 21.8 23.2 0.9 4.2 3.1 15.6% 12.3% 13.6% 5.9 7.3 6.8	39.6% 41.4% 40.3% 41.8% 9.4 9.8 10.2 9.4 24.8 22.8 23.2 22.6 25.4 21.8 23.2 21.8 0.9 4.2 3.1 4.4 15.6% 12.3% 13.6% 12.1% 5.9 7.3 6.8 7.5	39.6% 41.4% 40.3% 41.8% 41.5% 9.4 9.8 10.2 9.4 10.0 24.8 22.8 23.2 22.6 22.9 25.4 21.8 23.2 21.8 22.2 0.9 4.2 3.1 4.4 3.4 15.6% 12.3% 13.6% 12.1% 13.8% 5.9 7.3 6.8 7.5 7.0	39.6% 41.4% 40.3% 41.8% 41.5% 40.8% 9.4 9.8 10.2 9.4 10.0 9.0 24.8 22.8 23.2 22.6 22.9 22.6 25.4 21.8 23.2 21.8 22.2 22.7 0.9 4.2 3.1 4.4 3.4 4.9 15.6% 12.3% 13.6% 12.1% 13.8% 9.9% 5.9 7.3 6.8 7.5 7.0 7.5	39.6% 41.4% 40.3% 41.8% 41.5% 40.8% 41.6% 9.4 9.8 10.2 9.4 10.0 9.0 9.6 24.8 22.8 23.2 22.6 22.9 22.6 22.9 25.4 21.8 23.2 21.8 22.2 22.7 22.2 0.9 4.2 3.1 4.4 3.4 4.9 3.7 15.6% 12.3% 13.6% 12.1% 13.8% 9.9% 13.5% 5.9 7.3 6.8 7.5 7.0 7.5 7.2

9.2%	7.2%	8.0%	6.9%	8.0%	5.6%	7.6%	4.7%
34.7	34.7	35.5	34.1	34.4	34.8	34.5	34.0
41.0	43.3	42.7	43.5	43.8	42.8	43.7	41.8
4.5	4.5	4.0	4.8	4.1	5.4	4.3	6.4
9.0	8.2	7.9	8.4	8.3	8.2	8.2	8.7
1.6	2.2	1.9	2.4	1.5	3.4	1.7	4.4
(12, 937)	= 0.80	F(12, 937)	= 1.08	F(12, 937)	= 0.71	F(11, 937)	= 1.39
rob > F	= 0.6523	Prob > F	= 0.3779	Prob > F	= 0.7279	Prob > F	= 0.1738
3.5	24.3	26.0	22.9	25.0	21.8	24.1	22.6
8.0	20.1	20.9	19.2	20.5	18.3	19.9	18.8
341	\$250	\$329	\$202	\$285	\$175	\$262	\$170
560	17,326	7,597	11,118	13,098	5,755	16,514	2,717
.082	12,122	5,364	7,817	9,333	4,000	11,742	1,858
3 4 7 8 3	34.7 41.0 4.5 9.0 1.6 (12, 937) rob > F 3.5 3.0 341	34.7 34.7 41.0 43.3 4.5 4.5 9.0 8.2 1.6 2.2 $(12, 937) = 0.80$ 33.5 24.3 33.0 20.1 341 \$250	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	34.7 34.7 35.5 34.1 41.0 43.3 42.7 43.5 4.5 4.5 4.0 4.8 9.0 8.2 7.9 8.4 1.6 2.2 1.9 2.4 $(12, 937) = 0.80$ $F(12, 937) = 1.08$ $rob > F$ $= 0.6523$ $Prob > F$ $= 0.3779$ 3.5 24.3 26.0 22.9 3.0 20.1 20.9 19.2 341 $$250$ $$329$ $$202$ 560 $17,326$ $7,597$ $11,118$	34.7 34.7 35.5 34.1 34.4 41.0 43.3 42.7 43.5 43.8 4.5 4.5 4.0 4.8 4.1 9.0 8.2 7.9 8.4 8.3 1.6 2.2 1.9 2.4 1.5 (12, 937) = 0.80 F(12, 937) = 1.08 F(12, 937) Prob > F = 0.6523 Prob > F = 0.3779 Prob > F 3.5 24.3 26.0 22.9 25.0 3.0 20.1 20.9 19.2 20.5 341 \$250 \$329 \$202 \$285	34.7 34.7 35.5 34.1 34.4 34.8 42.8 43.5 4.5 4.5 4.0 4.8 4.1 5.4 9.0 8.2 7.9 8.4 8.3 8.2 1.6 2.2 1.9 2.4 1.5 3.4 1.5 3.4 1.6 b> F = 0.6523 Prob > F = 0.3779 Prob > F = 0.7279 1.8 3.0 20.1 20.9 19.2 20.5 18.3 841 \$250 \$329 \$202 \$285 \$175	34.7 34.7 35.5 34.1 34.4 34.8 34.5 41.0 43.3 42.7 43.5 43.8 42.8 43.7 4.5 4.5 4.0 4.8 4.1 5.4 4.3 9.0 8.2 7.9 8.4 8.3 8.2 8.2 1.6 2.2 1.9 2.4 1.5 3.4 1.7 (12, 937) = 0.80 F(12, 937) = 1.08 F(12, 937) = 0.71 F(11, 937) rob > F = 0.6523 Prob > F = 0.3779 Prob > F = 0.7279 Prob > F 3.5 24.3 26.0 22.9 25.0 21.8 24.1 3.0 20.1 20.9 19.2 20.5 18.3 19.9 341 \$250 \$329 \$202 \$285 \$175 \$262

Notes: Restaurants in the treatment group have their first graded inspection by the end of the fiscal quarter. Control group restaurants do not have a graded

inspection until after the quarter ends. Each observation is a restaurant-quarter.

Appendix E. Regression Results, Impact on Inspection Scores and Fines by Quarter, Rollout Sample

VARIABLES	Initial Inspection	Final Inspection	Fines
	1	•	
Graded Inspection			
In Quarter 1:	1.897***	-2.137***	153.759***
	(0.677)	(0.379)	(21.950)
In Quarter 2:	0.810***	-2.377***	26.014
_	(0.180)	(0.177)	(17.981)
In Quarter 3:	-0.693***	-3.616***	-147.830***
_	(0.170)	(0.173)	(20.183)
In Quarter 4:	-2.071***	-5.561***	-275.079***
•	(0.182)	(0.216)	(18.357)
Quarter Of Grading Policy			
2	0.074	1.243***	130.444***
	(0.052)	(0.072)	(10.915)
3	-0.133**	1.179***	251.674***
	(0.063)	(0.094)	(19.331)
4	0.974***	3.409***	387.343***
	(0.076)	(0.151)	(17.798)
Restaurant FE	Y	Y	Y
Constant	25.483***	19.736***	326.148***
	(0.059)	(0.067)	(6.021)
Observations	122,886	93,451	94,752
R-squared	0.849	0.764	0.553

Notes: Robust standard errors clustered by restaurant in parentheses. *** p<0.01, ** p<0.05, * p<0.1. Impact estimates of graded inspections on initial inspection scores, final inspection scores, and fines by quarter. Graded Inspection captures if the most recent inspection occurs after the restaurant grade program begins in July 2010. Quarters Post * Graded is an interaction of the number of quarters after the grading policy is implemented and share of a quarter a restaurant has been treated. In Quarter 1, 2, 3, 4 are a vector of interactions between the quarter of observation and share of quarter with a graded inspection. Sample includes all restaurants continuously operating from the quarter before grading to five quarters following grading.

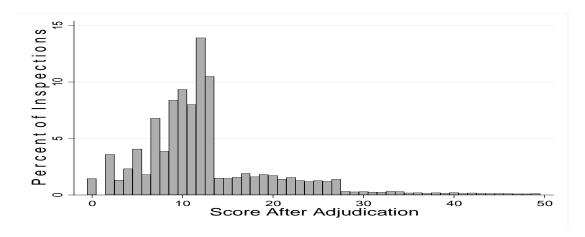
Appendix F. Inspection Scores and Count of Inspections by Treatment Period, Pre-Post Sample

		Inspections:	Inspections:
		All	Continuously
		Operating	Operating
		Restaurants	Restaurants
Pre		25.07	23.50
		(76,231)	(29,804)
Quarters			
Post			
1-5	Initial	25.31	24.26
		(41,933)	(17,723)
	Final Inspection	21.87	20.88
	Score	(27,874)	(11,743)
6-10	Initial	22.46	21.62
		(46,180)	(18,409)
	Final Inspection	19.52	18.78
	Score	(29,135)	(11,544)

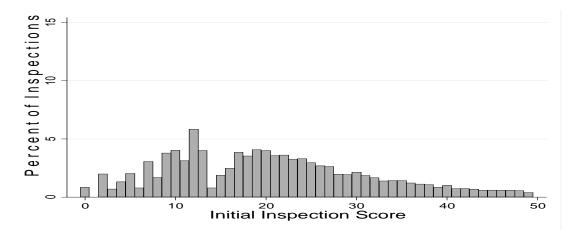
Includes pre-adjudicated inspection scores. Mean score shown on top; number of inspections shown parenthetically. Final Inspection Score is the mean restaurant inspection score for final inspections each cycle (all A-graded initial inspections and re-inspections of restaurants that do not get an A grade on initial inspection). Continuously Operating Restaurants are open for every quarter of the sample period.

Appendix G: Distribution of inspection scores

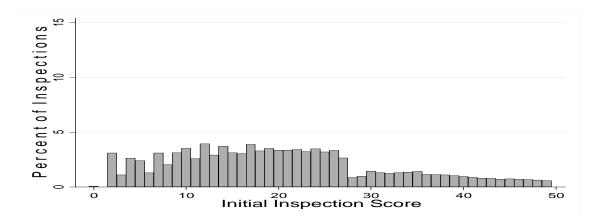
Panel A. Final Score Distribution, Second Year of Grading



Panel B. Initial Inspection Score Distribution, Second Year of Grading



Panel C. Initial Inspection Score Distribution, Two Years Before Grading

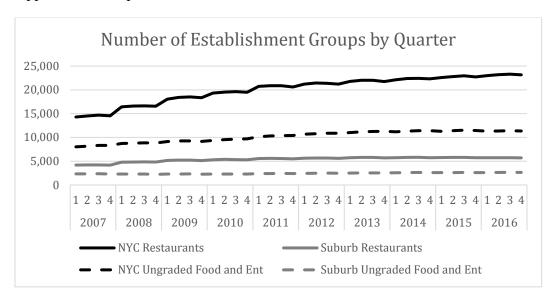


Appendix H. Falsification Test, Inspection Scores, Fines, Revenues, and Sales Taxes, Pre-Post With 1 Year Lead

VARIABLES	Initial Score	Final Score	Fines
Policy Start			
Post	-0.64**	-6.76***	-138.92***
	(0.31)	(0.27)	(15.86)
Post*Linear	-1.38***	-1.27***	-98.96***
Trend			
	(0.13)	(0.12)	(7.01)
One Year Before			
Post	-0.76**	-0.43	88.83***
	(0.38)	(0.33)	(20.04)
Post*Linear	1.30***	1.27***	53.91***
Trend			
	(0.14)	(0.12)	(7.37)
Linear Trend	-0.34***	-0.34***	-0.32
	(0.06)	(0.05)	(2.85)
Seasonal FE	Y	Y	Y
Restaurant/Group FE	Y	Y	Y
Constant	23.15***	22.59***	989.98***
	(0.18)	(0.15)	(9.39)
Inspections	109,197	120,261	159,617
Restaurants	20,480	20,482	20,485
Observations			
Rest-Quarters			
R-squared	0.31	0.32	0.32

Robust standard errors clustered by restaurant in parentheses. *** p<0.01, *** p<0.05, * p<0.1.

Appendix I. Composition of establishments, over time



Appendix J. Average Sales, By Graded and Ungraded Establishments

