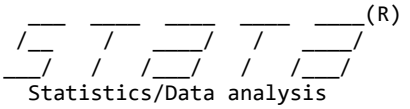

Project: Hazardous Waste and Home Values: An Analysis of Treatment and Disposal Faciliti

```
 1 . *Folder for results output
        name:  <unnamed>
         log:  C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\Full_Analysis_Log
  > _2023_05_26.smcl
    log type:  smcl
   opened on:  26 May 2023, 21:46:02

 2 .
 3 .
 4 . *RCRA Nationwide Hedonic Study
 5 . *Master Dataprep Do-File
 6 . *Created: 5/20/2020
 7 . *Created by: Dennis Guignet
 8 . *Last Revised: 5/22/2023
 9 . *Last Revised by: Dennis Guignet
10 .
11 . ********************************************************************************
12 .
13 . *This is master do-file that calls in various other do-files corresponding to
14 . *       different components of the analysis.
15 .
16 . ********************************************************************************
17 .
18 . *Set global directory folders
19 .
20 . *Folder with analysis do-files
21 . *global dofile_folder "G:\My Drive\Research\RCRA_benefits\analysis"
22 . global dofile_folder "C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis"

23 .         *Note: Sometimes saved files on computer directly, rather than a network
24 .         *       drive, to speed up processing.
25 .
26 . *Folder with final transaction data
27 . global salesfolder "D:\RCRA_benefits2\FinalSalesData_2022_02"

28 .
29 . *Folder with RCRA and Corrective Action data
30 . *global RCRAfolder "G:\My Drive\Research\RCRA_benefits\data\RCRA_data"
31 . global RCRAfolder "C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\RCRA_data"

32 .
33 . *Folder for results output
34 . *global resultsfolder "G:\My Drive\Research\RCRA_benefits\analysis\results\results2022_11"
35 . global resultsfolder "C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05"

36 .
37 . *Folder for saving model coefficient estimates
38 . global raw_resultsfolder "D:\RCRA_benefits2\model_estimates2023_05"

39 .
40 .
41 .
42 . ********************************************************************************
```

```
43 .
44 . *Master do-file next calls in and runs separate do-file for each step
45 . *       of the analysis.
46 .
47 . *STEP 1: Descriptive Stats of RCRA sites
48 . cd "$dofile_folder"
   C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis

49 . do analysis_RCRABenefits_Step1_TSDSiteDescStats.do

50 . *RCRA Nationwide Hedonic Study
51 . *Descriptive Stats for RCRA TSD site and Corrective Action data
52 . *Created on: 1/13/2020
53 . *Created by: Dennis Guignet
54 . *Last revised: 5/22/2023
55 . *Last revised by: Dennis Guignet
56 .
57 . ********************************************************************************
58 .
59 . *This do-file performs descriptive stats on the processed dataset of TSDFs
60 . *       and Corrective Actions of interest. Generates statistics used in Appendix B.1
61 . *       of final paper, and in Table 1 of main manuscript.
62 .
63 .
64 . ********************************************************************************
65 . ********************************************************************************
66 .
67 . *Bring in cleaned dataset of TSDFs and Corrective Actions.
68 . use "$RCRAfolder\TSD_and_Corrective_Actions_FINAL.dta", clear

69 .
70 . *Focus on contiguous US
71 . count
     2,434

72 . tab Location_State
```

Location_State	Freq.	Percent	Cum.
AK	8	0.33	0.33
AL	64	2.63	2.96
AR	20	0.82	3.78
AZ	20	0.82	4.60
CA	245	10.07	14.67
CO	26	1.07	15.74
CT	111	4.56	20.30
DC	3	0.12	20.42
DE	6	0.25	20.67
FL	54	2.22	22.88
GA	36	1.48	24.36
GU	3	0.12	24.49
HI	4	0.16	24.65
IA	27	1.11	25.76
ID	12	0.49	26.25
IL	133	5.46	31.72
IN	39	1.60	33.32
KS	27	1.11	34.43
KY	45	1.85	36.28
LA	55	2.26	38.54
MA	103	4.23	42.77
MD	55	2.26	45.03
ME	30	1.23	46.26
MI	84	3.45	49.71
MN	68	2.79	52.51

MO	**40**	**1.64**	**54.15**
MS	**23**	**0.94**	**55.09**
MT	**9**	**0.37**	**55.46**
NC	**65**	**2.67**	**58.13**
ND	**7**	**0.29**	**58.42**
NE	**18**	**0.74**	**59.16**
NH	**11**	**0.45**	**59.61**
NJ	**112**	**4.60**	**64.22**
NM	**16**	**0.66**	**64.87**
NV	**11**	**0.45**	**65.32**
NY	**169**	**6.94**	**72.27**
OH	**69**	**2.83**	**75.10**
OK	**36**	**1.48**	**76.58**
OR	**5**	**0.21**	**76.79**
PA	**179**	**7.35**	**84.14**
PR	**29**	**1.19**	**85.33**
RI	**14**	**0.58**	**85.91**
SC	**34**	**1.40**	**87.30**
SD	**3**	**0.12**	**87.43**
TN	**45**	**1.85**	**89.28**
TX	**117**	**4.81**	**94.08**
UT	**19**	**0.78**	**94.86**
VA	**57**	**2.34**	**97.21**
VI	**1**	**0.04**	**97.25**
VT	**8**	**0.33**	**97.58**
WA	**14**	**0.58**	**98.15**
WI	**12**	**0.49**	**98.64**
WV	**23**	**0.94**	**99.59**
WY	**10**	**0.41**	**100.00**
Total	**2,434**	**100.00**	

```
73 . drop if Location_State=="AK"|Location_State=="GU"|Location_State=="HI" ///
   >         |Location_State=="PR"|Location_State=="VI"
   (45 observations deleted)

74 . count
     2,389

75 . tab TSD
```

TSD	Freq.	Percent	Cum.
1	**2,389**	**100.00**	**100.00**
Total	**2,389**	**100.00**	

```
76 .
77 . *First perform descriptive stats on entire US.
78 . tab CA_Site
```

CA_Site	Freq.	Percent	Cum.
0	**1,700**	**71.16**	**71.16**
1	**689**	**28.84**	**100.00**
Total	**2,389**	**100.00**	

```
79 . tab CA_complete if CA_Site==1
```

CA_complete	Freq.	Percent	Cum.
0	487	70.68	70.68
1	202	29.32	100.00
Total	689	100.00	

```
80 .
81 . *start of corrective actions
82 . tab CA_Start_YMD_miss
```

CA_Start_YMD_miss	Freq.	Percent	Cum.
0	551	79.97	79.97
1	138	20.03	100.00
Total	689	100.00	

```
83 .         *Note: Among RCRA sites of interest in study area, have 689 CAs, but 138
84 .         *       of those CAs do not have necessary start date fields included.
85 . tab CA_Start_yr if CA_Start_YMD_miss==0
```

CA_Start_yr	Freq.	Percent	Cum.
1983	1	0.18	0.18
1984	4	0.73	0.91
1985	9	1.63	2.54
1986	15	2.72	5.26
1987	28	5.08	10.34
1988	47	8.53	18.87
1989	70	12.70	31.58
1990	49	8.89	40.47
1991	38	6.90	47.37
1992	22	3.99	51.36
1993	29	5.26	56.62
1994	22	3.99	60.62
1995	30	5.44	66.06
1996	25	4.54	70.60
1997	29	5.26	75.86
1998	27	4.90	80.76
1999	17	3.09	83.85
2000	10	1.81	85.66
2001	12	2.18	87.84
2002	8	1.45	89.29
2003	8	1.45	90.74
2004	11	2.00	92.74
2005	3	0.54	93.28
2006	5	0.91	94.19
2007	6	1.09	95.28
2008	3	0.54	95.83
2009	5	0.91	96.73
2010	2	0.36	97.10
2011	5	0.91	98.00
2012	5	0.91	98.91
2013	1	0.18	99.09
2014	3	0.54	99.64
2017	1	0.18	99.82
2018	1	0.18	100.00
Total	551	100.00	

```
86 .
87 . *end of corrective action
88 . tab CA_End_YMD_miss
```

CA_End_YMD_miss	Freq.	Percent	Cum.
0	202	100.00	100.00
Total	202	100.00	

```
89 . tab CA_End_yr if CA_End_YMD_miss==0
```

CA_End_yr	Freq.	Percent	Cum.
1986	1	0.50	0.50
1992	1	0.50	0.99
1993	2	0.99	1.98
1994	1	0.50	2.48
1995	1	0.50	2.97
1996	5	2.48	5.45
1997	3	1.49	6.93
1998	4	1.98	8.91
1999	3	1.49	10.40
2000	5	2.48	12.87
2001	3	1.49	14.36
2002	6	2.97	17.33
2003	5	2.48	19.80
2004	3	1.49	21.29
2005	2	0.99	22.28
2006	9	4.46	26.73
2007	6	2.97	29.70
2008	3	1.49	31.19
2009	8	3.96	35.15
2010	8	3.96	39.11
2011	3	1.49	40.59
2012	6	2.97	43.56
2013	9	4.46	48.02
2014	11	5.45	53.47
2015	35	17.33	70.79
2016	16	7.92	78.71
2017	21	10.40	89.11
2018	15	7.43	96.53
2019	7	3.47	100.00
Total	202	100.00	

```
90 .
91 .
92 . *RCRA site characteristics (Table A3 in Appendix B.1)
93 . sum LQG SQG TSD recycler under_inj offsite_waste universal_TDR used_oil Ebroker HazWaste_Cnt
```

Variable	Obs	Mean	Std. dev.	Min	Max
LQG	2,389	.4332357	.4956262	0	1
SQG	2,389	.1548765	.3618627	0	1
TSD	2,389	1	0	1	1
recycler	2,389	.095856	.2944553	0	1
under_inj	2,389	.0104646	.1017814	0	1
offsite_wa~e	2,389	.1431561	.3503053	0	1
universal_~R	2,389	.0368355	.1883972	0	1
used_oil	2,389	.0267895	.1615014	0	1
Ebroker	2,389	.0138133	.1167399	0	1
HazWaste_Cnt	2,389	57.35077	122.3643	1	499

```
94 . local vars LQG SQG TSD recycler under_inj offsite_waste universal_TDR used_oil Ebroker

95 . foreach v of local vars {
  2.         tab `v'
  3.         }
```

LQG	Freq.	Percent	Cum.
0	1,354	56.68	56.68
1	1,035	43.32	100.00
Total	2,389	100.00	

SQG	Freq.	Percent	Cum.
0	2,019	84.51	84.51
1	370	15.49	100.00
Total	2,389	100.00	

TSD	Freq.	Percent	Cum.
1	2,389	100.00	100.00
Total	2,389	100.00	

recycler	Freq.	Percent	Cum.
0	2,160	90.41	90.41
1	229	9.59	100.00
Total	2,389	100.00	

under_inj	Freq.	Percent	Cum.
0	2,364	98.95	98.95
1	25	1.05	100.00
Total	2,389	100.00	

offsite_waste	Freq.	Percent	Cum.
0	2,047	85.68	85.68
1	342	14.32	100.00
Total	2,389	100.00	

universal_TDR	Freq.	Percent	Cum.
0	2,301	96.32	96.32
1	88	3.68	100.00
Total	2,389	100.00	

used_oil	Freq.	Percent	Cum.
0	2,325	97.32	97.32
1	64	2.68	100.00
Total	2,389	100.00	

Ebroker	Freq.	Percent	Cum.
0	2,356	98.62	98.62
1	33	1.38	100.00
Total	2,389	100.00	

```
96 . tab LQG SQG
```

LQG	SQG 0	SQG 1	Total
0	1,010	344	1,354
1	1,009	26	1,035
Total	2,019	370	2,389

```
97 . tab TSD recycler
```

TSD	recycler 0	recycler 1	Total
1	2,160	229	2,389
Total	2,160	229	2,389

```
98 . sum HazWaste_Cnt, detail
```

HazWaste_Cnt

Percentiles		Smallest		
1%	1	1		
5%	1	1		
10%	1	1	Obs	2,389
25%	2	1	Sum of wgt.	2,389
50%	8		Mean	57.35077
		Largest	Std. dev.	122.3643
75%	38	499		
90%	214	499	Variance	14973.03
95%	433	499	Skewness	2.623364
99%	496	499	Kurtosis	8.523771

```
99 . tab HazWaste_Cnt
```

HazWaste_Cnt	Freq.	Percent	Cum.
1	415	17.37	17.37
2	197	8.25	25.62
3	158	6.61	32.23
4	119	4.98	37.21
5	115	4.81	42.03
6	87	3.64	45.67
7	69	2.89	48.56
8	48	2.01	50.57
9	54	2.26	52.83
10	60	2.51	55.34
11	38	1.59	56.93
12	46	1.93	58.85
13	28	1.17	60.03
14	31	1.30	61.32
15	27	1.13	62.45
16	23	0.96	63.42
17	16	0.67	64.09

18	21	0.88	64.96
19	28	1.17	66.14
20	18	0.75	66.89
21	19	0.80	67.69
22	15	0.63	68.31
23	16	0.67	68.98
24	15	0.63	69.61
25	8	0.33	69.95
26	14	0.59	70.53
27	11	0.46	70.99
28	13	0.54	71.54
29	9	0.38	71.91
30	9	0.38	72.29
31	9	0.38	72.67
32	13	0.54	73.21
33	3	0.13	73.34
34	7	0.29	73.63
35	7	0.29	73.92
36	10	0.42	74.34
37	11	0.46	74.80
38	24	1.00	75.81
39	24	1.00	76.81
40	15	0.63	77.44
41	11	0.46	77.90
42	8	0.33	78.23
43	7	0.29	78.53
44	7	0.29	78.82
45	14	0.59	79.41
46	12	0.50	79.91
47	5	0.21	80.12
48	14	0.59	80.70
49	10	0.42	81.12
50	9	0.38	81.50
51	3	0.13	81.62
52	5	0.21	81.83
53	5	0.21	82.04
54	6	0.25	82.29
55	4	0.17	82.46
56	5	0.21	82.67
57	1	0.04	82.71
58	4	0.17	82.88
59	8	0.33	83.21
60	4	0.17	83.38
61	4	0.17	83.55
62	5	0.21	83.76
63	3	0.13	83.88
64	2	0.08	83.97
65	2	0.08	84.05
66	4	0.17	84.22
67	2	0.08	84.30
68	3	0.13	84.43
69	6	0.25	84.68
70	5	0.21	84.89
71	3	0.13	85.01
72	2	0.08	85.10
73	2	0.08	85.18
74	3	0.13	85.31
75	1	0.04	85.35
76	2	0.08	85.43
77	1	0.04	85.48
78	6	0.25	85.73
79	2	0.08	85.81
81	2	0.08	85.89
82	4	0.17	86.06
83	1	0.04	86.10

84	2	0.08	86.19
86	2	0.08	86.27
89	4	0.17	86.44
90	1	0.04	86.48
91	1	0.04	86.52
92	2	0.08	86.61
93	4	0.17	86.77
95	2	0.08	86.86
96	2	0.08	86.94
97	3	0.13	87.07
98	5	0.21	87.28
100	3	0.13	87.40
101	2	0.08	87.48
103	1	0.04	87.53
105	1	0.04	87.57
107	2	0.08	87.65
108	1	0.04	87.69
109	2	0.08	87.78
110	1	0.04	87.82
111	2	0.08	87.90
112	2	0.08	87.99
113	1	0.04	88.03
118	2	0.08	88.11
119	3	0.13	88.24
120	2	0.08	88.32
123	1	0.04	88.36
126	2	0.08	88.45
127	2	0.08	88.53
128	3	0.13	88.66
129	1	0.04	88.70
130	2	0.08	88.78
131	1	0.04	88.82
134	2	0.08	88.91
137	2	0.08	88.99
138	1	0.04	89.03
140	1	0.04	89.07
141	1	0.04	89.12
142	1	0.04	89.16
143	1	0.04	89.20
144	1	0.04	89.24
145	1	0.04	89.28
148	1	0.04	89.33
151	2	0.08	89.41
152	1	0.04	89.45
154	1	0.04	89.49
155	1	0.04	89.54
161	1	0.04	89.58
179	2	0.08	89.66
186	1	0.04	89.70
194	1	0.04	89.74
195	1	0.04	89.79
196	1	0.04	89.83
197	1	0.04	89.87
202	1	0.04	89.91
212	1	0.04	89.95
213	1	0.04	90.00
214	1	0.04	90.04
219	1	0.04	90.08
227	2	0.08	90.16
228	1	0.04	90.21
231	2	0.08	90.29
242	1	0.04	90.33
246	1	0.04	90.37
258	1	0.04	90.41
260	1	0.04	90.46

262	1	0.04	90.50
265	1	0.04	90.54
266	1	0.04	90.58
285	1	0.04	90.62
292	1	0.04	90.67
295	1	0.04	90.71
296	1	0.04	90.75
298	1	0.04	90.79
302	1	0.04	90.83
304	1	0.04	90.87
305	1	0.04	90.92
307	1	0.04	90.96
308	1	0.04	91.00
310	1	0.04	91.04
311	1	0.04	91.08
312	2	0.08	91.17
314	1	0.04	91.21
316	1	0.04	91.25
318	2	0.08	91.34
322	1	0.04	91.38
323	2	0.08	91.46
324	3	0.13	91.59
326	1	0.04	91.63
327	1	0.04	91.67
328	1	0.04	91.71
330	2	0.08	91.80
331	1	0.04	91.84
332	1	0.04	91.88
335	1	0.04	91.92
337	1	0.04	91.96
338	2	0.08	92.05
342	1	0.04	92.09
343	3	0.13	92.21
344	2	0.08	92.30
346	2	0.08	92.38
347	2	0.08	92.47
348	5	0.21	92.67
349	2	0.08	92.76
350	3	0.13	92.88
351	2	0.08	92.97
352	1	0.04	93.01
353	3	0.13	93.14
354	2	0.08	93.22
356	2	0.08	93.30
360	1	0.04	93.34
362	3	0.13	93.47
366	1	0.04	93.51
368	2	0.08	93.60
371	3	0.13	93.72
374	2	0.08	93.80
376	1	0.04	93.85
377	1	0.04	93.89
378	1	0.04	93.93
379	1	0.04	93.97
381	1	0.04	94.01
382	1	0.04	94.06
386	1	0.04	94.10
387	2	0.08	94.18
388	1	0.04	94.22
394	1	0.04	94.27
395	1	0.04	94.31
402	1	0.04	94.35
408	1	0.04	94.39
411	1	0.04	94.43
418	1	0.04	94.47

421	1	0.04	94.52
424	3	0.13	94.64
426	2	0.08	94.73
427	1	0.04	94.77
430	3	0.13	94.89
433	3	0.13	95.02
435	1	0.04	95.06
436	1	0.04	95.10
439	1	0.04	95.14
442	1	0.04	95.19
443	3	0.13	95.31
446	3	0.13	95.44
447	1	0.04	95.48
450	2	0.08	95.56
451	4	0.17	95.73
453	1	0.04	95.77
454	2	0.08	95.86
455	2	0.08	95.94
457	3	0.13	96.07
458	2	0.08	96.15
460	1	0.04	96.19
461	4	0.17	96.36
462	1	0.04	96.40
463	2	0.08	96.48
464	2	0.08	96.57
465	2	0.08	96.65
467	5	0.21	96.86
468	5	0.21	97.07
469	7	0.29	97.36
470	1	0.04	97.40
471	1	0.04	97.45
472	6	0.25	97.70
473	5	0.21	97.91
474	6	0.25	98.16
475	4	0.17	98.33
476	1	0.04	98.37
479	1	0.04	98.41
483	1	0.04	98.45
484	1	0.04	98.49
486	2	0.08	98.58
488	2	0.08	98.66
491	1	0.04	98.70
492	1	0.04	98.74
494	2	0.08	98.83
495	3	0.13	98.95
496	4	0.17	99.12
497	4	0.17	99.29
498	5	0.21	99.50
499	12	0.50	100.00
Total	2,389	100.00	

100 . *NAICS industry categories (Table A2 in Appendix B.1)

```
101 . tab NAICS_miss
```

NAICS_miss	Freq.	Percent	Cum.
0	2,209	92.47	92.47
1	180	7.53	100.00
Total	2,389	100.00	

```
102 . sum NAICS_ag NAICS_mining NAICS_utility NAICS_constrn NAICS_manuf ///
    >         NAICS_trade_transp NAICS_services NAICS_wastemgmt if NAICS_miss==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
NAICS_ag	2,209	.0258035	.1585847	0	1
NAICS_mining	2,209	.0199185	.139752	0	1
NAICS_util~y	2,209	.0466274	.2108873	0	1
NAICS_cons~n	2,209	.0334993	.1799772	0	1
NAICS_manuf	2,209	.5957447	.4908585	0	1
NAICS_trad~p	2,209	.2394749	.4268596	0	1
NAICS_serv~s	2,209	.3082843	.4618892	0	1
NAICS_wast~t	2,209	.2544138	.4356298	0	1

```
103 . local vars NAICS_ag NAICS_mining NAICS_utility NAICS_constrn NAICS_manuf ///
    >         NAICS_trade_transp NAICS_services NAICS_wastemgmt

104 . foreach v of local vars {
  2.         tab `v' if NAICS_miss==0
  3.         }
```

NAICS_ag	Freq.	Percent	Cum.
0	2,152	97.42	97.42
1	57	2.58	100.00
Total	2,209	100.00	

NAICS_mining	Freq.	Percent	Cum.
0	2,165	98.01	98.01
1	44	1.99	100.00
Total	2,209	100.00	

NAICS_utility	Freq.	Percent	Cum.
0	2,106	95.34	95.34
1	103	4.66	100.00
Total	2,209	100.00	

NAICS_constrn	Freq.	Percent	Cum.
0	2,135	96.65	96.65
1	74	3.35	100.00
Total	2,209	100.00	

NAICS_manuf	Freq.	Percent	Cum.
0	893	40.43	40.43
1	1,316	59.57	100.00
Total	2,209	100.00	

NAICS_trade_transp	Freq.	Percent	Cum.
0	1,680	76.05	76.05
1	529	23.95	100.00
Total	2,209	100.00	

NAICS_services	Freq.	Percent	Cum.
0	1,528	69.17	69.17
1	681	30.83	100.00
Total	2,209	100.00	

NAICS_wastemgmt	Freq.	Percent	Cum.
0	1,647	74.56	74.56
1	562	25.44	100.00
Total	2,209	100.00	

```
105 .
106 .
107 . *Corrective Action duration
108 . gen CA_duration_days=CA_End_date_stata-CA_Start_date_stata if CA_Start_YMD_miss==0 ///
>         & CA_End_YMD_miss==0
(2,240 missing values generated)

109 . replace CA_duration_days=. if CA_duration_days<0
(3 real changes made, 3 to missing)

110 .         *Note: Three sites had negative duration, so set as missing.
111 . gen CA_duration_years=CA_duration_days/365.25
(2,243 missing values generated)

112 . sum CA_duration_days CA_duration_years
```

Variable	Obs	Mean	Std. dev.	Min	Max
CA_durati~ys	146	5492.596	3330.338	0	11300
CA_durati~rs	146	15.03791	9.117968	0	30.93771

```
113 . sum CA_duration_years, detail
```

CA_duration_years

Percentiles		Smallest		
1%	0	0		
5%	1.275838	0		
10%	2.236824	.128679	Obs	146
25%	6.083505	.1533196	Sum of wgt.	146

50%	**15.12526**		Mean	**15.03791**
		Largest	Std. dev.	**9.117968**
75%	**23.24709**	**29.36071**		
90%	**26.84463**	**30.52156**	Variance	**83.13734**
95%	**28.45722**	**30.81999**	Skewness	**-.068789**
99%	**30.81999**	**30.93771**	Kurtosis	**1.726087**

```
114 .
115 .
116 . *Descriptive stats table Corrective Action (CA) characteristics (Table 1 in main text)
117 . tab CA_Site
```

CA_Site	Freq.	Percent	Cum.
0	**1,700**	**71.16**	**71.16**
1	**689**	**28.84**	**100.00**
Total	**2,389**	**100.00**	

```
118 . tab CA_Site CA_complete
```

CA_Site	CA_complete 0	1	Total
1	**487**	**202**	**689**
Total	**487**	**202**	**689**

```
119 . sum  CA_basesite risk risk_miss RemedyConst PhysCtrls InstCtrls CA_complete ///
    >         CA_duration_years if CA_Site==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
CA_basesite	**689**	**.9753266**	**.1552406**	**0**	**1**
risk	**689**	**1.595065**	**.8247826**	**0**	**3**
risk_miss	**689**	**.0275762**	**.1638741**	**0**	**1**
RemedyConst	**689**	**.7634253**	**.4252877**	**0**	**1**
PhysCtrls	**689**	**.4092888**	**.4920598**	**0**	**1**
InstCtrls	**689**	**.4862119**	**.500173**	**0**	**1**
CA_complete	**689**	**.2931785**	**.4555503**	**0**	**1**
CA_durati~rs	**146**	**15.03791**	**9.117968**	**0**	**30.93771**

```
120 . sum risk if risk_miss==0 & CA_Site==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
risk	**670**	**1.640299**	**.7907461**	**1**	**3**

```
121 . tab risk_miss if CA_Site==1
```

risk_miss	Freq.	Percent	Cum.
0	**670**	**97.24**	**97.24**
1	**19**	**2.76**	**100.00**
Total	**689**	**100.00**	

```
122 . count if RemedyConst+PhysCtrls+InstCtrls>0 & CA_Site==1
  689

123 . count if RemedyConst+PhysCtrls+InstCtrls==1 & CA_Site==1
  376

124 . count if RemedyConst+PhysCtrls+InstCtrls==2 & CA_Site==1
  172

125 . count if RemedyConst+PhysCtrls+InstCtrls==3 & CA_Site==1
  141

126 . count if RemedyConst+PhysCtrls+InstCtrls>3 & CA_Site==1
  0

127 .
128 .
129 . *Check how many post and mid- CA sites at end of study period
130 .         *Note: Used to provide details for later welfare excercise.
131 . gen completed=0

132 . replace completed=1 if CA_End_date_stata<=date("12/31/2018", "MDY") ///
>         & CA_End_date_stata!=.
(195 real changes made)

133 .         *Note: 195 completed CA sites by end of study period.
134 . gen open=0

135 . replace open=1 if (CA_Start_date_stata<=date("12/31/2018", "MDY") /*& (CA_Start_date_stata!=.)*/) ///
>                 & ((CA_End_date_stata!=. & CA_End_date_stata>date("12/31/2018", "MDY")) | CA_End_date_stata=
> =.)
(406 real changes made)

136 .         *Note: 406 open CA sites by end of study period. Don't need missing start date
137 .         *       condition b/c end of study period, and it's inclusion actually doesn't
138 .         *       change the count.
139 . tab CA_Site
```

CA_Site	Freq.	Percent	Cum.
0	1,700	71.16	71.16
1	689	28.84	100.00
Total	2,389	100.00	

```
140 . tab CA_Site open
```

CA_Site	open 0	1	Total
0	1,700	0	1,700
1	283	406	689
Total	1,983	406	2,389

```
141 . tab CA_Site completed

           |       completed
   CA_Site |         0          1 |     Total
-----------+----------------------+----------
         0 |     1,700          0 |     1,700
         1 |       494        195 |       689
-----------+----------------------+----------
     Total |     2,194        195 |     2,389

142 .
143 . *replace sums in table with these for complete site, because earlier one
144 . *       included completions after end of study period in 2018 (added 12/11/2022).
145 . sum completed if CA_Site==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
   completed |        689    .2830189    .4507928          0          1

146 . sum CA_duration_years if completed==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
CA_durati~rs |        142    15.08517     9.13958          0   30.93771

147 .
148 . tab open completed

           |       completed
      open |         0          1 |     Total
-----------+----------------------+----------
         0 |     1,788        195 |     1,983
         1 |       406          0 |       406
-----------+----------------------+----------
     Total |     2,194        195 |     2,389

149 . tab open completed if CA_Site==1

           |       completed
      open |         0          1 |     Total
-----------+----------------------+----------
         0 |        88        195 |       283
         1 |       406          0 |       406
-----------+----------------------+----------
     Total |       494        195 |       689

150 .
151 . *END
152 .
    end of do-file

153 .
154 . *STEP 2: Sales distance gradient graphs to determine treatment and control groups.
```

```
155 . cd "$dofile_folder"
    C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis

156 . do analysis_RCRABenefits_Step2_DistGradients.do

157 . *RCRA Nationwide Hedonic Study
158 . *Distance gradient graphs
159 . *Created: 5/21/2020
160 . *Created by: Dennis Guignet
161 . *Last Revised: 05/22/2023
162 . *Last Revised by: Dennis Guignet
163 .
164 . ********************************************************************************
165 .
166 . *This do-file takes the completed transaction dataset of all transactions in
167 . *       the US that are within five kilometers of a TSD facility under RCRA,
168 . *       and performs some initial analysis to inform decisions of the spatial extent
169 . *       of the treatment and control groups. More specifcially, the results below
170 . *       are used to later generate Figure 3 in the main text.
171 .
172 . ********************************************************************************
173 . ********************************************************************************
174 .
175 . *set empty cells for factor variables to drop
176 . set emptycells drop

177 . clear all

178 . *increase max variables allowed b/c factor variables
179 . set maxvar 100000



180 .
181 .
182 . *bring in dataset of just home sales WITHIN 5km OF A CORRECTIVE ACTION
183 . use "$salesfolder\All_Sales_Final_Cleaned_CA5k", clear

184 . count
      2,538,344

185 .
186 . *set key global variable groups
187 .
188 . *house structure and local neighborhood vars
189 . global house lnacres lnacres_miss stories stories_miss bathtot bathtot_miss lnsqft ///
    >         lnsqft_miss age agesq age_miss p_nbdev_2011_200 p_nbdev_2011_500 hwy500m

190 .
191 . *code up global variables for TSD control group dummies and counts
192 . local vars  cntTSD

193 . foreach v of local vars {
      2.         global `v' `v'0_250 `v'250_500 `v'500_750 `v'750_1000 ///
    >                `v'1000_1250 `v'1250_1500 `v'1500_1750 `v'1750_2000 ///
    >                `v'2000_2250 `v'2250_2500 `v'2500_2750 `v'2750_3000 ///
    >                `v'3000_3250 `v'3250_3500 `v'3500_3750 `v'3750_4000 ///
    >                `v'4000_4250 `v'4250_4500 `v'4500_4750 `v'4750_5000
      3.         }
```

```
194 . *code up global variables for Corrective Action stage dummies
195 .         *Note: Need to omit farthest bin so that gradients represent price effects
196 .         *       with respect to distance, relative to farthest homes. Although this is
197 .         *       is not technically needed for identification, b/c dummy categories are not
198 .         *       mutually exclusive (i.e., a house can have a site in several bins),
199 .         *       it's needed for interpretation.  In other words, to interpret it as
200 .         *       if it was the strict case where each house only had one site, in one bin
201 .         *       and stage. Want to interpret coefficients as relative to farthest homes
202 .         *       in initial period. Then the estimates represent the post-event change
203 .         *       among closer homes.
204 . local stages pre mid post

205 . foreach s of local stages {
  2.         global d`s'CA d`s'CA0_250 d`s'CA250_500 d`s'CA500_750 d`s'CA750_1000 ///
>                d`s'CA1000_1250 d`s'CA1250_1500 d`s'CA1500_1750 d`s'CA1750_2000 ///
>                d`s'CA2000_2250 d`s'CA2250_2500 d`s'CA2500_2750 d`s'CA2750_3000 ///
>                d`s'CA3000_3250 d`s'CA3250_3500 d`s'CA3500_3750 d`s'CA3750_4000 ///
>                d`s'CA4000_4250 d`s'CA4250_4500 d`s'CA4500_4750 /*d`s'CA4750_5000*/
  3.         }

206 .
207 .
208 .
209 . ********************************************************************************
210 . ********************************************************************************
211 .
212 .
213 . *Hedonic Regression
214 . set more off

215 . cd "$resultsfolder"
C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05

216 .
217 . *Initial model for distant gradient graph (Figure 3 in main text)
218 . *Models w/ All three stages: Tract FE and County by Year and County by Quarter FE.
219 . reghdfe lnrprice $cntTSD $dpreCA $dmidCA $dpostCA, ///
>         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
>         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
(dropped 675 singleton observations)
(MWFE estimator converged in 1821 iterations)

HDFE Linear regression                            Number of obs   =  2,537,669
Absorbing 4 HDFE groups                           F(  77,    376) =       4.75
Statistics robust to heteroskedasticity           Prob > F        =     0.0000
                                                  R-squared       =     0.7907
                                                  Adj R-squared   =     0.7842
                                                  Within R-sq.    =     0.0007
Number of clusters (mycntyid) =        377        Root MSE        =     0.3910

                                (Std. err. adjusted for 377 clusters in mycntyid)
------------------------------------------------------------------------------
             |               Robust
    lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    cntTSD0_250 |  -.0877408   .0224315    -3.91   0.000    -.1318477   -.0436339
  cntTSD250_500 |  -.0627759   .0183193    -3.43   0.001    -.0987969   -.0267548
  cntTSD500_750 |  -.0572348   .0127679    -4.48   0.000    -.0823402   -.0321294
 cntTSD750_1000 |  -.0459549   .0121994    -3.77   0.000    -.0699425   -.0219672
cntTSD1000_1250 |  -.0416073   .0112595    -3.70   0.000    -.0637467   -.0194678
cntTSD1250_1500 |  -.0367471    .009395    -3.91   0.000    -.0552204   -.0182738
cntTSD1500_1750 |  -.0322568   .0078808    -4.09   0.000    -.0477527   -.0167609
cntTSD1750_2000 |  -.0324219   .0093564    -3.47   0.001    -.0508193   -.0140245
cntTSD2000_2250 |  -.0296333   .0081503    -3.64   0.000    -.0456591   -.0136075
cntTSD2250_2500 |  -.0236064   .0078834    -2.99   0.003    -.0391076   -.0081052
```

cntTSD2500_2750	-.0233594	.0078429	-2.98	0.003	-.038781	-.0079379
cntTSD2750_3000	-.0200188	.0065247	-3.07	0.002	-.0328481	-.0071894
cntTSD3000_3250	-.0133074	.0047009	-2.83	0.005	-.0225508	-.004064
cntTSD3250_3500	-.0121312	.0050935	-2.38	0.018	-.0221464	-.0021159
cntTSD3500_3750	-.0101978	.0047504	-2.15	0.032	-.0195385	-.0008571
cntTSD3750_4000	-.0051542	.0046705	-1.10	0.270	-.0143379	.0040294
cntTSD4000_4250	-.004801	.0043273	-1.11	0.268	-.0133097	.0037077
cntTSD4250_4500	-.0067791	.0045385	-1.49	0.136	-.0157031	.0021448
cntTSD4500_4750	-.0037467	.0035178	-1.07	0.288	-.0106637	.0031703
cntTSD4750_5000	-.0014585	.0028721	-0.51	0.612	-.0071058	.0041889
dpreCA0_250	.0258763	.0699962	0.37	0.712	-.1117567	.1635094
dpreCA250_500	.040549	.0434689	0.93	0.352	-.0449237	.1260217
dpreCA500_750	.043107	.0247437	1.74	0.082	-.0055464	.0917605
dpreCA750_1000	-.007527	.0302713	-0.25	0.804	-.0670492	.0519953
dpreCA1000_1250	-.0043213	.0189987	-0.23	0.820	-.0416784	.0330358
dpreCA1250_1500	-.0029394	.0193355	-0.15	0.879	-.0409587	.0350799
dpreCA1500_1750	-.0027671	.0176197	-0.16	0.875	-.0374126	.0318784
dpreCA1750_2000	.0177992	.0157807	1.13	0.260	-.0132302	.0488287
dpreCA2000_2250	.0230201	.0150433	1.53	0.127	-.0065593	.0525996
dpreCA2250_2500	.020122	.0167277	1.20	0.230	-.0127695	.0530135
dpreCA2500_2750	.0145162	.0171168	0.85	0.397	-.0191404	.0481728
dpreCA2750_3000	.0022415	.0136206	0.16	0.869	-.0245405	.0290236
dpreCA3000_3250	-.0091422	.0136742	-0.67	0.504	-.0360296	.0177453
dpreCA3250_3500	-.0032516	.0131481	-0.25	0.805	-.0291046	.0226015
dpreCA3500_3750	-.0098133	.0145557	-0.67	0.501	-.0384341	.0188075
dpreCA3750_4000	-.0077026	.0122773	-0.63	0.531	-.0318434	.0164381
dpreCA4000_4250	-.0117985	.0104076	-1.13	0.258	-.032263	.0086659
dpreCA4250_4500	-.0140213	.010079	-1.39	0.165	-.0338396	.0057971
dpreCA4500_4750	.004116	.0081265	0.51	0.613	-.0118631	.0200951
dmidCA0_250	-.0393513	.0388345	-1.01	0.312	-.1157113	.0370087
dmidCA250_500	-.0154136	.0241191	-0.64	0.523	-.0628388	.0320117
dmidCA500_750	-.0056343	.0163352	-0.34	0.730	-.0377541	.0264854
dmidCA750_1000	-.0051123	.0153238	-0.33	0.739	-.0352435	.0250189
dmidCA1000_1250	.0006575	.014579	0.05	0.964	-.028009	.0293241
dmidCA1250_1500	-.0039625	.0120232	-0.33	0.742	-.0276037	.0196787
dmidCA1500_1750	-.000918	.0102695	-0.09	0.929	-.0211107	.0192748
dmidCA1750_2000	.0051234	.0109842	0.47	0.641	-.0164748	.0267215
dmidCA2000_2250	.0050719	.0100999	0.50	0.616	-.0147874	.0249312
dmidCA2250_2500	-.0020133	.009016	-0.22	0.823	-.0197414	.0157149
dmidCA2500_2750	.0001843	.0083558	0.02	0.982	-.0162458	.0166143
dmidCA2750_3000	-.00006	.0079712	-0.01	0.994	-.0157337	.0156137
dmidCA3000_3250	-.0049695	.006366	-0.78	0.436	-.017487	.0075479
dmidCA3250_3500	-.0025526	.0057337	-0.45	0.656	-.0138267	.0087215
dmidCA3500_3750	-.0010635	.0056266	-0.19	0.850	-.0121271	.0100001
dmidCA3750_4000	-.0074781	.0051825	-1.44	0.150	-.0176684	.0027121
dmidCA4000_4250	-.00176	.0049189	-0.36	0.721	-.0114319	.007912
dmidCA4250_4500	.0006028	.0048713	0.12	0.902	-.0089756	.0101812
dmidCA4500_4750	-.0012764	.0034418	-0.37	0.711	-.0080441	.0054912
dpostCA0_250	.013961	.0590016	0.24	0.813	-.1020534	.1299754
dpostCA250_500	.060439	.0422595	1.43	0.153	-.0226556	.1435335
dpostCA500_750	.0538491	.026371	2.04	0.042	.001996	.1057021
dpostCA750_1000	-.0153791	.0250799	-0.61	0.540	-.0646937	.0339354
dpostCA1000_1250	-.0025391	.0226339	-0.11	0.911	-.047044	.0419658
dpostCA1250_1500	.0046756	.0219273	0.21	0.831	-.03844	.0477911
dpostCA1500_1750	.0074263	.0169088	0.44	0.661	-.0258214	.0406741
dpostCA1750_2000	.0081775	.0152992	0.53	0.593	-.0219052	.0382602
dpostCA2000_2250	.0182209	.0145221	1.25	0.210	-.0103339	.0467757
dpostCA2250_2500	.0155138	.0122592	1.27	0.206	-.0085914	.0396191
dpostCA2500_2750	.0284815	.0145218	1.96	0.051	-.0000727	.0570357
dpostCA2750_3000	.018231	.014779	1.23	0.218	-.0108288	.0472908
dpostCA3000_3250	.0072755	.0112811	0.64	0.519	-.0149064	.0294574
dpostCA3250_3500	.0046054	.0130968	0.35	0.725	-.0211467	.0303575
dpostCA3500_3750	.0065682	.0114021	0.58	0.565	-.0158518	.0289881
dpostCA3750_4000	.0029762	.0098684	0.30	0.763	-.016428	.0223804
dpostCA4000_4250	.0031161	.0086942	0.36	0.720	-.0139794	.0202115

dpostCA4250_4500	**.0024887**	**.0070511**	**0.35**	**0.724**	**-.0113759**	**.0163532**
dpostCA4500_4750	**.001043**	**.0059524**	**0.18**	**0.861**	**-.0106611**	**.0127472**
_cons	**12.16444**	**.0079109**	**1537.68**	**0.000**	**12.14889**	**12.18**

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	5582	5582	**0**	*
mycntyid#quarter	1448	1448	**0**	*
mytractid	6854	0	**6854**	
mycntyid#tranyr#c.lnacres	5582	15	**5567**	?
mycntyid#tranyr#c.lnacres_miss	5582	4407	**1175**	?
mycntyid#tranyr#c.stories	5582	645	**4937**	?
mycntyid#tranyr#c.stories_miss	5582	1723	**3859**	?
mycntyid#tranyr#c.bathtot	5582	1404	**4178**	?
mycntyid#tranyr#c.bathtot_miss	5582	1423	**4159**	?
mycntyid#tranyr#c.lnsqft	5582	362	**5220**	?
mycntyid#tranyr#c.lnsqft_miss	5582	2812	**2770**	?
mycntyid#tranyr#c.age	5582	360	**5222**	?
mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1529	**4053**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
220 . eststo m1_distgrad

221 . estimates save "$raw_resultsfolder\m1_distgrad", replace
    file D:\RCRA_benefits2\model_estimates2023_05\m1_distgrad.ster saved

222 .
223 . estimates use "$raw_resultsfolder\m1_distgrad"

224 . test _b[dpreCA0_250]=_b[dmidCA0_250]

     ( 1)  dpreCA0_250 - dmidCA0_250 = 0

           F(  1,   376) =    1.19
                Prob > F =    0.2750

225 . test _b[dpreCA250_500]=_b[dmidCA250_500]

     ( 1)  dpreCA250_500 - dmidCA250_500 = 0

           F(  1,   376) =    2.18
                Prob > F =    0.1407

226 . test _b[dpreCA500_750]=_b[dmidCA500_750]

     ( 1)  dpreCA500_750 - dmidCA500_750 = 0

           F(  1,   376) =    5.28
                Prob > F =    0.0221
```

```
227 .
228 . test (_b[dpreCA0_250]=_b[dmidCA0_250]) ///
    >         (_b[dpreCA250_500]=_b[dmidCA250_500]) ///
    >         (_b[dpreCA500_750]=_b[dmidCA500_750])

     ( 1)  dpreCA0_250 - dmidCA0_250 = 0
     ( 2)  dpreCA250_500 - dmidCA250_500 = 0
     ( 3)  dpreCA500_750 - dmidCA500_750 = 0

           F(  3,   376) =    2.00
                Prob > F =    0.1138

229 .
230 . test _b[dmidCA0_250]=_b[dpostCA0_250]

     ( 1)  dmidCA0_250 - dpostCA0_250 = 0

           F(  1,   376) =    0.81
                Prob > F =    0.3699

231 . test _b[dmidCA250_500]=_b[dpostCA250_500]

     ( 1)  dmidCA250_500 - dpostCA250_500 = 0

           F(  1,   376) =    3.71
                Prob > F =    0.0549

232 . test _b[dmidCA500_750]=_b[dpostCA500_750]

     ( 1)  dmidCA500_750 - dpostCA500_750 = 0

           F(  1,   376) =    5.66
                Prob > F =    0.0178

233 .
234 . test (_b[dmidCA0_250]=_b[dpostCA0_250]) ///
    >         (_b[dmidCA250_500]=_b[dpostCA250_500]) ///
    >         (_b[dmidCA500_750]=_b[dpostCA500_750])

     ( 1)  dmidCA0_250 - dpostCA0_250 = 0
     ( 2)  dmidCA250_500 - dpostCA250_500 = 0
     ( 3)  dmidCA500_750 - dpostCA500_750 = 0

           F(  3,   376) =    1.98
                Prob > F =    0.1170

235 .
236 .
237 . *Export results for distance gradient graph and table.
238 . *export hedonic coefficient estimates in wide format for graphing in Excel
239 . esttab m1_distgrad using DistGrad_forGraph_AllStages_TractFE_CntyYrIntrxs.csv, replace label plain csv compr
    > ess nogaps nolines nostar b(4) ci(4) wide noparentheses keep($dpreCA $dmidCA $dpostCA)
    (output written to DistGrad_forGraph_AllStages_TractFE_CntyYrIntrxs.csv)
```

```
240 . *regression model results
241 . esttab m1_distgrad using DistGradHedReg_AllStages_TractFE_CntyYrIntrxs.csv, replace label csv compress nogap
    > s nolines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
    (output written to DistGradHedReg_AllStages_TractFE_CntyYrIntrxs.csv)

242 .
243 .
244 . *END
245 .
246 .
247 .
248 .
249 .
250 .
251 .
252 .
    end of do-file

253 .
254 . *STEP 3: Coarsened Exact Matching and sample balance statistics
255 . cd "$dofile_folder"
    C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis

256 . do analysis_RCRABenefits_Step3_CEMRoutine.do

257 . *RCRA Nationwide Hedonic Study
258 . *Coarsened Exact Matching (CEM) Routine
259 . *Created: 2/9/2021
260 . *Created by: Dennis Guignet
261 . *Last Revised: 2/22/2022
262 . *Last Revised by: Dennis Guignet
263 .
264 . ********************************************************************************
265 .
266 . *This do-file takes the completed transaction dataset of all transactions and
267 . *       prunes and re-weights the dataset so that the treated group (0-750m) and
268 . *       control group (750-1500m) around a Corrective Action (CA) are more similar.
269 . *       A new dataset is saved with the weights for purposes of re-estimating the
270 . *       hedonic regression models. The second half of the do-file performs some
271 . *       L1 statistic tests for imbalance, and thus generates Tables A13 and A14
272 . *       in Appendix F.1.
273 .
274 .
275 . ********************************************************************************
276 . ********************************************************************************
277 .
278 .
279 .
280 . *set empty cells for factor variables to drop
281 . set emptycells drop

282 . clear all
```

```
283 . *increase max variables allowed b/c factor variables
284 . set maxvar 100000


285 .
286 .
287 . *bring in estimating dataset with only sales w/in 5k of CA
288 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m", clear

289 . count
  204,051

290 . *create treatment dummy for matching
291 . gen dCA0_750=0

292 . replace dCA0_750=1 if (dpreCA0_750+dmidCA0_750+dpostCA0_750)>0
(35,029 real changes made)

293 . tab dCA0_750
```

dCA0_750	Freq.	Percent	Cum.
0	169,022	82.83	82.83
1	35,029	17.17	100.00
Total	204,051	100.00	

```
294 .
295 . *derive some descriptive stats to get sense of distributions and inform coarsened
296 . *       values for "cem" command.
297 . sum age if age_miss==0, detail
```

age

Percentiles		Smallest		
1%	0	0		
5%	1	0		
10%	6	0	Obs	189,221
25%	22	0	Sum of wgt.	189,221
50%	47		Mean	48.2529
		Largest	Std. dev.	32.33136
75%	68	150		
90%	95	150	Variance	1045.317
95%	107	150	Skewness	.4479043
99%	126	150	Kurtosis	2.510482

```
298 . sum p_nbdev_2011_500, detail
```

p_nbdev_2011_500

Percentiles		Smallest		
1%	3	0		
5%	7	0		
10%	15	0	Obs	204,051
25%	31.5	0	Sum of wgt.	204,051
50%	50.3		Mean	48.82034
		Largest	Std. dev.	23.35049
75%	67.2	98.8		
90%	79	98.8	Variance	545.2456
95%	84.5	99	Skewness	-.1905677
99%	92.2	99	Kurtosis	2.164929

```
299 . sum acres if acres_miss==0, detail

                            acres
-------------------------------------------------------------
      Percentiles      Smallest
 1%         .051            .05
 5%         .062            .05
10%         .081            .05       Obs             201,108
25%         .117            .05       Sum of wgt.     201,108

50%         .171                      Mean           .2440422
                        Largest       Std. dev.       .235648
75%         .253               2
90%          .48               2       Variance         .05553
95%     .741315               2       Skewness       3.180421
99%    1.235525               2       Kurtosis       15.71481

300 . sum sqftstrc if sqftstrc_miss==0, detail

                           sqftstrc
-------------------------------------------------------------
      Percentiles      Smallest
 1%          838             750
 5%         1024             750
10%         1178             750       Obs             193,522
25%         1660             750       Sum of wgt.     193,522

50%         2588                       Mean           3033.367
                        Largest       Std. dev.      1862.267
75%         3808           12000
90%         5556           12000       Variance        3468040
95%         6828           12000       Skewness       1.515985
99%         9574           12000       Kurtosis       5.703225

301 . sum bathtot if bathtot_miss==0, detail

                           bathtot
-------------------------------------------------------------
      Percentiles      Smallest
 1%            1               1
 5%            1               1
10%            1               1       Obs             148,932
25%            1               1       Sum of wgt.     148,932

50%            2                       Mean           1.736665
                        Largest       Std. dev.      .7176493
75%            2               6
90%          2.5               6       Variance       .5150205
95%            3               6       Skewness       .9262864
99%            4               6       Kurtosis       4.283711

302 .
303 .
```

```
. *Run matching weights algorithm
. cem tranyr (#0) mycntyid (#0) bathtot (0 1 2 3) bathtot_miss (#0) ///
>         age (0 20 70) age_miss (#0) p_nbdev_2011_500 (30 70) sqftstrc (0 1700 3800) ///
>         sqftstrc_miss (#0) acres (0 0.125 0.25) acres_miss (#0), treatment(dCA0_750)

Matching Summary:
-----------------
Number of strata: 56208
Number of matched strata: 10466

                0       1
      All  169022   35029
  Matched   73512   27135
Unmatched   95510    7894


Multivariate L1 distance: .99225231

Univariate imbalance:

                       L1      mean       min       25%       50%       75%       max
           tranyr   6.0e-14  -4.3e-10         0         0         0         0         0
         mycntyid   6.4e-14  -4.0e-11         0         0         0         0         0
          bathtot    .00798   -.00215         0         0         0         0         0
     bathtot_miss   5.8e-14  -5.1e-14         0         0         0         0         0
              age    .04805    .41397         0         0         0         0         0
        age_miss   1.4e-14  -6.3e-15         0         0         0         0         0
p_nbdev_2011_500    .13032   -1.1678         0        -1      -2.7      -2.7         1
        sqftstrc    .03726   -16.968         0       -21        -9       -36       -25
   sqftstrc_miss   1.1e-14  -6.3e-15         0         0         0         0         0
           acres    .05215   -.00469         0      .001         0         0         0
      acres_miss   3.7e-15  -1.5e-15         0         0         0         0         0

. *Note: Cutoffs chosen based on intuition and distribution in unmatched
. *       sample. More specifically, all continuous variables have bins chosen
. *       for zero/missing category and then roughly the 25th and 75th percentiles.
.
. *A few quick checks on weights
. tab dCA0_750 cem_matched

           |       cem_matched
  dCA0_750 |         0          1 |     Total
-----------+----------------------+----------
         0 |    95,510     73,512 |   169,022
         1 |     7,894     27,135 |    35,029
-----------+----------------------+----------
     Total |   103,404    100,647 |   204,051

. sum cem_weights if cem_matched==0

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
 cem_weights |    103,404           0           0         0          0
```

```
313 . sum cem_weights if cem_matched==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
cem_weights	**100,647**	**1**	**1.11712**	**.0263021**	**46.05506**

```
314 . sum cem_weights if cem_matched==1 & dCA0_750==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
cem_weights	**27,135**	**1**	**0**	**1**	**1**

```
315 . sum cem_weights if cem_matched==1 & dCA0_750==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
cem_weights	**73,512**	**1**	**1.307139**	**.0263021**	**46.05506**

```
316 . sum cem_weights if cem_matched==1 & dCA0_750==0, detail
```

cem_weights

Percentiles		Smallest		
1%	**.0475284**	**.0263021**		
5%	**.1231419**	**.0263021**		
10%	**.1806081**	**.0263021**	Obs	**73,512**
25%	**.3458452**	**.0263021**	Sum of wgt.	**73,512**
50%	**.6772803**		Mean	**1**
		Largest	Std. dev.	**1.307139**
75%	**1.18524**	**42.66866**		
90%	**2.146851**	**42.66866**	Variance	**1.708613**
95%	**2.709121**	**42.66866**	Skewness	**9.127412**
99%	**5.418242**	**46.05506**	Kurtosis	**194.7019**

```
317 .
318 .
319 . *save CEM weighted dataset
320 . save "$salesfolder\All_Sales_Final_Cleaned_CA1500m_CEM", replace
    file D:\RCRA_benefits2\FinalSalesData_2022_02\All_Sales_Final_Cleaned_CA1500m_CEM.dta saved

321 .
322 . *keep only matched and saved
323 . drop if cem_matched==0
    (103,404 observations deleted)

324 . count
      100,647

325 . save "$salesfolder\All_Sales_Final_Cleaned_CA1500m_CEM_MatchOnly", replace
    file D:\RCRA_benefits2\FinalSalesData_2022_02\All_Sales_Final_Cleaned_CA1500m_CEM_MatchOnly.dta saved

326 .
```

```
327 . ********************************************************************************
328 .
329 .
330 . *stats to check imbalance (Tables A13 and A14 in Appendix F.1)
331 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m_CEM", clear

332 .
333 . *Before CEM weights
334 . imb /*tranyr mycntyid*/ acres acres_miss stories stories_miss bathtot bathtot_miss ///
    >         sqftstrc sqftstrc_miss age age_miss p_nbdev_2011_200 p_nbdev_2011_500 hwy500m ///
    >         cntTSD0_5000, treatment(dCA0_750)

    Multivariate L1 distance: .99860683

    Univariate imbalance:

                          L1      mean       min       25%       50%       75%       max
              acres     .0681   -.00856         0    -.003    -.005         0         0
         acres_miss    .00182    .00182         0         0         0         0         0
            stories    .02621    .02601         0         0         0         0         0
       stories_miss    .00436   -.00436         0         0         0         0         0
            bathtot     .0312   -.01031         0         0         0         0         0
       bathtot_miss    .00097   -.00097         0         0         0         0         0
           sqftstrc    .05113    74.877         0        80        95        93       -16
      sqftstrc_miss    .00498   -.00498         0         0         0         0         0
                age    .04336    2.4209         0         0         3         4         0
           age_miss    .00744   -.00744         0         0         0         0         0
    p_nbdev_2011_200    .09925   -5.6519         0        -8      -8.2      -6.3         0
    p_nbdev_2011_500    .15159   -6.8162         0      -8.2      -8.6      -8.5        .2
            hwy500m    .11342    .11342         0         0         1         0         0
       cntTSD0_5000    .05582    .12802         0         0         0         1        -1

335 . *After CEM weights
336 . imb /*tranyr mycntyid*/ acres acres_miss stories stories_miss bathtot bathtot_miss ///
    >         sqftstrc sqftstrc_miss age age_miss p_nbdev_2011_200 p_nbdev_2011_500 hwy500m ///
    >         cntTSD0_5000, treatment(dCA0_750) useweights
    (using the scott break method for L1 distance)

    Multivariate L1 distance: .99611688

    Univariate imbalance:

                          L1      mean       min       25%       50%       75%       max
              acres    .05215   -.00469         0      .001         0         0         0
         acres_miss   3.7e-15  -1.5e-15         0         0         0         0         0
            stories    .02434   -.00806         0         0         0         0         0
       stories_miss    .01054    .01054         0         0         0         0         0
            bathtot    .00798   -.00215         0         0         0         0         0
       bathtot_miss   5.8e-14  -5.1e-14         0         0         0         0         0
           sqftstrc    .03726   -16.968         0       -21        -9       -36       -25
      sqftstrc_miss   1.1e-14  -6.3e-15         0         0         0         0         0
                age    .04805    .41397         0         0         0         0         0
           age_miss   1.4e-14  -6.3e-15         0         0         0         0         0
    p_nbdev_2011_200    .06432    .16449         0         1        -1        -1         0
    p_nbdev_2011_500    .13032   -1.1678         0        -1      -2.7      -2.7         1
            hwy500m    .07494    .07494         0         0         0         0         0
       cntTSD0_5000    .05665   -.01967         0         0         0         0        -1
```

```
. 
. *END
. 
. 
. 
. 
. 
. 
. 
. 
end of do-file

. 
. *STEP 4: Main hedonic analysis and DID and Triple Differences treatment estimates
. cd "$dofile_folder"
C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis

. do analysis_RCRABenefits_Step4_RegAnalysis.do

. *RCRA Nationwide Hedonic Study
. *Hedonic regressions
. *Created: 5/21/2020
. *Created by: Dennis Guignet
. *Last Revised: 05/22/2023
. *Last Revised by: Dennis Guignet
. 
. ********************************************************************************
. 
. *This do-file takes the completed transaction dataset of all transactions and
. *       estimates the primary hedonic regressions comparing the treated group (0-750m)
. *       and control group (750-1500). Performs regressions using fully unweighted
. *       and CEM weighted samples. Ultimately, the model results here are used to
. *       populate Table A8 in Appendix D.2, and most importantly, the main regression
. *       results in Table 3 of the main text. The results from Model 1 below are also
. *       used to later create the distance gradients displayed in Figure 4 of the
. *       main text.
. 
. ********************************************************************************
. ********************************************************************************
. 
. *set empty cells for factor variables to drop
. set emptycells drop

. clear all

. *increase max variables allowed b/c factor variables
. set maxvar 100000



. 
. *set key global variable groups
. 
```

```
381 . *house structure and local neighborhood vars
382 . global house lnacres lnacres_miss stories stories_miss bathtot bathtot_miss lnsqft ///
    >         lnsqft_miss age agesq age_miss p_nbdev_2011_200 p_nbdev_2011_500 hwy500m

383 .         *Note: Create all interactions and fixed effects in reghdfe command below.
384 .
385 .
386 . ********************************************************************************
387 . ********************************************************************************
388 .
389 . *Estimate Models 1' and 2' in Table A8 of Appendix D.2. These initial models allow
390 . *       the price effects to vary by each 250-meter bin within the treatment zone of
391 . *       0-750 meters.
392 .
393 .
394 . *Model 1'
395 .
396 . *Bring in full dataset of transactions within 5km of any TSDF.
397 . use "$salesfolder\All_Sales_Final_Cleaned_TSD5k", clear

398 . count
      9,763,582

399 .
400 . *Set corresponding global variables
401 .
402 . *code up global variable for TSD counts
403 . local vars  cntTSD

404 . foreach v of local vars {
      2.         global `v' `v'0_250 `v'250_500 `v'500_750 `v'750_1000 ///
    >                `v'1000_1250 `v'1250_1500 `v'1500_1750 `v'1750_2000 ///
    >                `v'2000_2250 `v'2250_2500 `v'2500_2750 `v'2750_3000 ///
    >                `v'3000_3250 `v'3250_3500 `v'3500_3750 `v'3750_4000 ///
    >                `v'4000_4250 `v'4250_4500 `v'4500_4750 `v'4750_5000
      3.         }

405 .
406 . *Next code up global variables of stage dummies for individual treatment bins.
407 . local stages pre mid post

408 . foreach s of local stages {
      2.         global d`s'CA d`s'CA0_250 d`s'CA250_500 d`s'CA500_750 d`s'CA750_1500 d`s'CA1500_5000
      3.         }

409 .         *Note: First three bins denote treatment zone, the 750-1500 meter bin is the
410 .         *       control group. The 1500-5000 bin is included, but to control for other
411 .         *       temporally correlated factors in the broader neighborhood, but the coefficients
412 .         *       are never used. Those 1500-5000 transactions are included mainly to help
413 .         *       identify county-specific time trends.
414 .
415 .
416 . *Model with all TSD 5k sample.
```

```
417 . reghdfe lnrprice $cntTSD $dpreCA $dmidCA $dpostCA, ///
>         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
>         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
(dropped 1266 singleton observations)
(MWFE estimator converged in 1763 iterations)

HDFE Linear regression                            Number of obs   =  9,762,316
Absorbing 4 HDFE groups                           F(  35,    765) =       4.80
Statistics robust to heteroskedasticity           Prob > F        =     0.0000
                                                  R-squared       =     0.7880
                                                  Adj R-squared   =     0.7843
                                                  Within R-sq.    =     0.0004
Number of clusters (mycntyid) =        766        Root MSE        =     0.3850

                                  (Std. err. adjusted for 766 clusters in mycntyid)
------------------------------------------------------------------------------
             |               Robust
    lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     cntTSD0_250 |  -.0806447   .0085813    -9.40   0.000    -.0974903    -.063799
   cntTSD250_500 |  -.0599333   .0070701    -8.48   0.000    -.0738123   -.0460543
   cntTSD500_750 |  -.0484977   .0054585    -8.88   0.000    -.0592132   -.0377822
  cntTSD750_1000 |  -.0397433   .0052983    -7.50   0.000    -.0501442   -.0293424
 cntTSD1000_1250 |  -.0363604   .0047894    -7.59   0.000    -.0457623   -.0269584
 cntTSD1250_1500 |  -.0340151   .0044262    -7.68   0.000    -.0427041    -.025326
 cntTSD1500_1750 |  -.0310787   .0041558    -7.48   0.000    -.0392369   -.0229205
 cntTSD1750_2000 |  -.0279939   .0040195    -6.96   0.000    -.0358844   -.0201034
 cntTSD2000_2250 |  -.0241942   .0035153    -6.88   0.000     -.031095   -.0172934
 cntTSD2250_2500 |  -.0229058    .003611    -6.34   0.000    -.0299945    -.015817
 cntTSD2500_2750 |   -.021608   .0034385    -6.28   0.000    -.0283581   -.0148579
 cntTSD2750_3000 |  -.0186461   .0032969    -5.66   0.000    -.0251181   -.0121741
 cntTSD3000_3250 |  -.0166505    .003115    -5.35   0.000    -.0227653   -.0105356
 cntTSD3250_3500 |  -.0149182   .0028335    -5.26   0.000    -.0204807   -.0093558
 cntTSD3500_3750 |  -.0109136   .0025295    -4.31   0.000    -.0158792    -.005948
 cntTSD3750_4000 |  -.0088415   .0023636    -3.74   0.000    -.0134814   -.0042016
 cntTSD4000_4250 |  -.0078549   .0026608    -2.95   0.003    -.0130781   -.0026316
 cntTSD4250_4500 |  -.0066956   .0022906    -2.92   0.004    -.0111923    -.002199
 cntTSD4500_4750 |   -.004201   .0020574    -2.04   0.042    -.0082399   -.0001621
 cntTSD4750_5000 |  -.0027895   .0019296    -1.45   0.149    -.0065774    .0009985
     dpreCA0_250 |   .0174756   .0635864     0.27   0.784    -.1073489       .1423
   dpreCA250_500 |   .0397475    .034011     1.17   0.243    -.0270185    .1065135
   dpreCA500_750 |   .0331281    .021239     1.56   0.119    -.0085656    .0748218
  dpreCA750_1500 |   -.009524   .0179125    -0.53   0.595    -.0446874    .0256394
 dpreCA1500_5000 |  -.0006697   .0091324    -0.07   0.942    -.0185971    .0172578
     dmidCA0_250 |  -.0513363   .0291159    -1.76   0.078    -.1084929    .0058202
   dmidCA250_500 |  -.0234594   .0199617    -1.18   0.240    -.0626455    .0157268
   dmidCA500_750 |  -.0174416   .0138204    -1.26   0.207     -.044572    .0096888
  dmidCA750_1500 |  -.0085852    .007912    -1.09   0.278    -.0241169    .0069466
 dmidCA1500_5000 |  -.0030075   .0057043    -0.53   0.598    -.0142055    .0081905
    dpostCA0_250 |  -.0367362   .0510043    -0.72   0.472    -.1368611    .0633887
  dpostCA250_500 |   .0300786   .0389434     0.77   0.440      -.04637    .1065272
  dpostCA500_750 |   .0366017   .0232112     1.58   0.115    -.0089636    .0821669
 dpostCA750_1500 |  -.0252415   .0193171    -1.31   0.192    -.0631624    .0126793
dpostCA1500_5000 |  -.0101485   .0147787    -0.69   0.492    -.0391601    .0188631
           _cons |   12.24531   .0043048  2844.56   0.000     12.23686    12.25376
------------------------------------------------------------------------------
```

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	11382	11382	**0**	*
mycntyid#quarter	2971	2971	**0**	*
mytractid	22267	0	**22267**	
mycntyid#tranyr#c.lnacres	11382	40	**11342**	?
mycntyid#tranyr#c.lnacres_miss	11382	8452	**2930**	?
mycntyid#tranyr#c.stories	11382	1459	**9923**	?
mycntyid#tranyr#c.stories_miss	11382	3253	**8129**	?
mycntyid#tranyr#c.bathtot	11382	2660	**8722**	?
mycntyid#tranyr#c.bathtot_miss	11382	2689	**8693**	?
mycntyid#tranyr#c.lnsqft	11382	857	**10525**	?
mycntyid#tranyr#c.lnsqft_miss	11382	5253	**6129**	?
mycntyid#tranyr#c.age	11382	868	**10514**	?
mycntyid#tranyr#c.agesq	11382	868	**10514**	?
mycntyid#tranyr#c.age_miss	11382	2742	**8640**	?
mycntyid#tranyr#c.p_nbdev_2011_200	11382	0	**11382**	?
mycntyid#tranyr#c.p_nbdev_2011_500	11382	0	**11382**	?
mycntyid#tranyr#c.hwy500m	11382	894	**10488**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
418 . eststo m1

419 . estimates save "$raw_resultsfolder\m1", replace
    (note: file D:\RCRA_benefits2\model_estimates2023_05\m1.ster not found)
    file D:\RCRA_benefits2\model_estimates2023_05\m1.ster saved

420 .
421 . estimates use "$raw_resultsfolder\m1"

422 . *H0: Triple differences CA open (post) estimate 0-750 jointly significant
423 . testnl ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dmidCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dmidCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
    >         = 0

      (1)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = ((exp((_b[dm
    > idCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
      (2)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = ((exp((_b[dm
    > idCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
      (3)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = 0

                  chi2(3) =        6.59
                Prob > chi2 =        0.0863

424 .         *Note: Reject null that CA opening effects jointly equal zero
425 .         *       i.e., they're jointly significnt (ch2(3)=6.59, p=0.0863)
426 .
427 . testnl ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
    >         =0

      (1)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
    > dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
      (2)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
    > dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
      (3)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = 0
```

```
               chi2(3) =        9.79
            Prob > chi2 =        0.0205

. *Note: Reject null that CA completion effects jointly equal zero
. *       i.e., they're jointly signifiant (ch2(3)=9.79, p=0.0205)
.
. *H0: Triple differences CA open (post) estimate 0-750 statistically equal
. testnl ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
>        = ((exp((_b[dmidCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
>        = ((exp((_b[dmidCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)

  (1)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = ((exp((_b[dm
> idCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
  (2)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = ((exp((_b[dm
> idCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)

               chi2(2) =        0.38
            Prob > chi2 =        0.8287

. *Note: Fail to reject null that CA opening effects are equal across nearest
. *       three distance bins (chi(2)=0.38, p=0.8287)
.
. testnl ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
>        = ((exp((_b[dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
>        = ((exp((_b[dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)

  (1)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
  (2)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)

               chi2(2) =        0.63
            Prob > chi2 =        0.7312

. *Note: Fail to reject null that CA completion effects are equal across nearest
. *       three distance bins (chi(2)=0.63, p=0.7312)
.
.
. *Estimates triple diff treatment effect estimates. This corresponds to Model 1'
. *       results in Table A8 of Appendix D.2.
. eststo TE1: nlcom ///
>        (D3MidPre_0_250: ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)
> *100)) ///
>        (D3MidPre_250_500: ((exp((_b[dmidCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500
> ]))-1)*100)) ///
>        (D3MidPre_500_750: ((exp((_b[dmidCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500
> ]))-1)*100)) ///
>        (D3PostMid_0_250: ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
> -1)*100)) ///
>        (D3PostMid_250_500: ((exp((_b[dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1
> 500]))-1)*100)) ///
>        (D3PostMid_500_750: ((exp((_b[dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1
> 500]))-1)*100)),  post

D3MidPre~250: ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
D3MidPre~500: ((exp((_b[dmidCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
D3MidPre~750: ((exp((_b[dmidCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
D3PostMi~250: ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
D3PostMi~500: ((exp((_b[dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
D3PostMi~750: ((exp((_b[dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3MidPre_0_250	-6.737377	5.542572	-1.22	0.224	-17.60062	4.125864
D3MidPre_250_500	-6.213165	3.160803	-1.97	0.049	-12.40822	-.0181056
D3MidPre_500_750	-5.020449	2.026107	-2.48	0.013	-8.991545	-1.049353
D3PostMid_0_250	3.175014	5.51927	0.58	0.565	-7.642557	13.99258
D3PostMid_250_500	7.271663	3.954898	1.84	0.066	-.4797943	15.02312
D3PostMid_500_750	7.325886	2.368551	3.09	0.002	2.683611	11.96816

```
. 
. 
. *Export regression results and ATT from DD and DDD calculations
. *regression model results
. esttab m1 using "$resultsfolder/HedonicReg_Model1_NoCEM.csv", replace label csv compress nogaps nolines star
>  (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
(file
    C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/HedonicReg_Model1_NoCEM.
    > csv not found)
(output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/HedonicReg
> _Model1_NoCEM.csv)

. *ATT Estimates
. esttab TE1 using "$resultsfolder\TreatmentEffectEsts_Model1_NoCEM.csv", replace label csv compress nogaps no
> lines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
(file
    C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEffectEsts_Mode
    > l1_NoCEM.csv not found)
(output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEf
> fectEsts_Model1_NoCEM.csv)

. 
. 
. 
. ********************************************************************************
. 
. *Model 2'
. 
. use "$salesfolder\All_Sales_Final_Cleaned_CA5k", replace

. 
. *Need to re-set CA global variables for this sample
. local stages pre mid post

. foreach s of local stages {
  2.         global d`s'CA d`s'CA0_250 d`s'CA250_500 d`s'CA500_750 d`s'CA750_1500 /*d`s'CA1500_5000*/
  3.         }

.         *Note: First three bins denote treatment zone, the 750-1500 meter bin is the
.         *       control group. The 1500-5000 bin is omitted. It would likely run due to
.         *       multiple CAs around some sales, but interpretation odd because with this
.         *       "CA-only" sample, the previous omitted category of sales around TSDs with
```

```
467 .         *       no corrective action are now excluded.
468 .
469 . *Model with tract FE, and county x year and county x quarter FEs. All CA 5k sample.
470 . reghdfe lnrprice $cntTSD $dpreCA $dmidCA $dpostCA, ///
>         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
>         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
(dropped 675 singleton observations)
(MWFE estimator converged in 1806 iterations)

HDFE Linear regression                            Number of obs   =  2,537,669
Absorbing 4 HDFE groups                           F(  32,    376) =       3.12
Statistics robust to heteroskedasticity           Prob > F        =     0.0000
                                                  R-squared       =     0.7907
                                                  Adj R-squared   =     0.7842
                                                  Within R-sq.    =     0.0006
Number of clusters (mycntyid) =        377        Root MSE        =     0.3910

                                (Std. err. adjusted for 377 clusters in mycntyid)
------------------------------------------------------------------------------
             |               Robust
    lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    cntTSD0_250 |  -.0859244   .0203254    -4.23   0.000    -.1258902   -.0459586
  cntTSD250_500 |    -.06106   .0156337    -3.91   0.000    -.0918004   -.0303196
  cntTSD500_750 |  -.0553939   .0098527    -5.62   0.000    -.0747672   -.0360206
 cntTSD750_1000 |  -.0460013   .0093978    -4.89   0.000    -.0644802   -.0275225
cntTSD1000_1250 |  -.0383642   .0077446    -4.95   0.000    -.0535924   -.0231359
cntTSD1250_1500 |   -.034784   .0075071    -4.63   0.000    -.0495452   -.0200228
cntTSD1500_1750 |  -.0318187   .0059426    -5.35   0.000    -.0435035   -.0201339
cntTSD1750_2000 |  -.0289017   .0061875    -4.67   0.000    -.0410681   -.0167354
cntTSD2000_2250 |  -.0252825   .0048503    -5.21   0.000    -.0348196   -.0157453
cntTSD2250_2500 |  -.0224865   .0054541    -4.12   0.000    -.0332109   -.0117622
cntTSD2500_2750 |  -.0207319   .0054753    -3.79   0.000    -.0314979   -.0099659
cntTSD2750_3000 |  -.0186292   .0048002    -3.88   0.000    -.0280678   -.0091906
cntTSD3000_3250 |  -.0151245   .0039346    -3.84   0.000     -.022861   -.0073879
cntTSD3250_3500 |  -.0129714   .0042902    -3.02   0.003    -.0214072   -.0045356
cntTSD3500_3750 |  -.0105198   .0040636    -2.59   0.010    -.0185101   -.0025295
cntTSD3750_4000 |  -.0084331   .0038059    -2.22   0.027    -.0159166   -.0009496
cntTSD4000_4250 |  -.0057169   .0036869    -1.55   0.122    -.0129665    .0015326
cntTSD4250_4500 |  -.0067071   .0037248    -1.80   0.073    -.0140312     .000617
cntTSD4500_4750 |   -.003959   .0033385    -1.19   0.236    -.0105235    .0026055
cntTSD4750_5000 |  -.0012979   .0028858    -0.45   0.653    -.0069724    .0043765
    dpreCA0_250 |   .0216211   .0682382     0.32   0.752    -.1125553    .1557974
  dpreCA250_500 |   .0371545   .0391501     0.95   0.343    -.0398261    .1141352
  dpreCA500_750 |   .0392131   .0202652     1.93   0.054    -.0006343    .0790606
 dpreCA750_1500 |  -.0088518   .0133526    -0.66   0.508     -.035107    .0174033
    dmidCA0_250 |  -.0412818   .0353366    -1.17   0.243    -.1107641    .0282004
  dmidCA250_500 |   -.017581   .0215868    -0.81   0.416     -.060027    .0248651
  dmidCA500_750 |  -.0077593   .0132732    -0.58   0.559    -.0338583    .0183397
 dmidCA750_1500 |  -.0046366   .0069343    -0.67   0.504    -.0182715    .0089983
   dpostCA0_250 |   .0072539   .0581779     0.12   0.901    -.1071408    .1216486
 dpostCA250_500 |   .0518574   .0382748     1.35   0.176    -.0234021    .1271168
 dpostCA500_750 |   .0446729   .0208867     2.14   0.033     .0036035    .0857422
dpostCA750_1500 |  -.0124216    .014119    -0.88   0.380    -.0401837    .0153405
          _cons |   12.16423   .0078798  1543.73   0.000     12.14873    12.17972
------------------------------------------------------------------------------
```

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	5582	5582	**0**	*
mycntyid#quarter	1448	1448	**0**	*
mytractid	6854	0	**6854**	
mycntyid#tranyr#c.lnacres	5582	15	**5567**	?
mycntyid#tranyr#c.lnacres_miss	5582	4407	**1175**	?
mycntyid#tranyr#c.stories	5582	645	**4937**	?
mycntyid#tranyr#c.stories_miss	5582	1723	**3859**	?
mycntyid#tranyr#c.bathtot	5582	1404	**4178**	?
mycntyid#tranyr#c.bathtot_miss	5582	1423	**4159**	?
mycntyid#tranyr#c.lnsqft	5582	362	**5220**	?
mycntyid#tranyr#c.lnsqft_miss	5582	2812	**2770**	?
mycntyid#tranyr#c.age	5582	360	**5222**	?
mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1529	**4053**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
471 . eststo m2

472 . estimates save "$raw_resultsfolder\m2", replace
    (note: file D:\RCRA_benefits2\model_estimates2023_05\m2.ster not found)
    file D:\RCRA_benefits2\model_estimates2023_05\m2.ster saved

473 .
474 . estimates use "$raw_resultsfolder\m2"

475 . *H0: Triple differences CA open (post) estimate 0-750 jointly significant
476 . testnl ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dmidCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dmidCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
    >         = 0

      (1)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = ((exp((_b[dm
    > idCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
      (2)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = ((exp((_b[dm
    > idCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
      (3)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = 0

                  chi2(3) =        6.77
                Prob > chi2 =        0.0795

477 .         *Note: Reject null hypothesis that estimated CA opening effect across
478 .         *       bins are jointly equal to zero, suggesting estimates are jointly significant
479 .         *       (chi2(3)=6.77, p=0.0795).
480 .
```

```
481 . testnl ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
    >         =0

  (1)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
  (2)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
  (3)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = 0

           chi2(3) =       7.53
         Prob > chi2 =       0.0568

482 .         *Note: Reject null hypothesis that CA completion effect across bins are jointly
483 .         *       equal to zero, suggesting estimates are jointly significant (chi2(3)=7.53, 0.0568).
484 .
485 . *H0: Triple differences CA open (post) estimate 0-750 statistically equal
486 . testnl ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dmidCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dmidCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)

  (1)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = ((exp((_b[dm
> idCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
  (2)  ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100) = ((exp((_b[dm
> idCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)

           chi2(2) =       0.15
         Prob > chi2 =       0.9275

487 .         *Note: Fail to reject null that CA opening effects equal across treatment bins,
488 .         *       thus supporting pooling (chi2(2)=0.15, p=0.9275).
489 .
490 . testnl ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
    >         = ((exp((_b[dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)

  (1)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
  (2)  ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)

           chi2(2) =       0.31
         Prob > chi2 =       0.8549

491 .         *Note: Fail to reject null that CA opening effects equal across treatment bins,
492 .         *       thus supporting pooling (chi2(2)=0.31, p=0.8549).
493 .
494 .
495 .
496 . *Estimate corresponding intra-area DID treatment effect estimates. This
497 . *       corresponds to Model 2' results in Table A8 of Appendix D.2.
498 . eststo TE2: nlcom ///
    >         (D3MidPre_0_250: ((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)
    > *100)) ///
    >         (D3MidPre_250_500: ((exp((_b[dmidCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500
    > ]))-1)*100)) ///
    >         (D3MidPre_500_750: ((exp((_b[dmidCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500
    > ]))-1)*100)) ///
    >         (D3PostMid_0_250: ((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
    > -1)*100)) ///
    >         (D3PostMid_250_500: ((exp((_b[dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1
    > 500]))-1)*100)) ///
    >         (D3PostMid_500_750: ((exp((_b[dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1
    > 500]))-1)*100)),  post
```

D3MidPre~250: **((exp((_b[dmidCA0_250]-_b[dpreCA0_250])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)**
D3MidPre~500: **((exp((_b[dmidCA250_500]-_b[dpreCA250_500])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)**
D3MidPre~750: **((exp((_b[dmidCA500_750]-_b[dpreCA500_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)**
D3PostMi~250: **((exp((_b[dpostCA0_250]-_b[dmidCA0_250])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)**
D3PostMi~500: **((exp((_b[dpostCA250_500]-_b[dmidCA250_500])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)**
D3PostMi~750: **((exp((_b[dpostCA500_750]-_b[dmidCA500_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3MidPre_0_250	**-6.491525**	**5.744638**	**-1.13**	**0.258**	**-17.75081**	**4.767759**
D3MidPre_250_500	**-5.724673**	**3.389885**	**-1.69**	**0.091**	**-12.36873**	**.9193789**
D3MidPre_500_750	**-4.989963**	**1.962383**	**-2.54**	**0.011**	**-8.836164**	**-1.143762**
D3PostMid_0_250	**5.793693**	**6.222593**	**0.93**	**0.352**	**-6.402366**	**17.98975**
D3PostMid_250_500	**8.028328**	**4.018006**	**2.00**	**0.046**	**.1531798**	**15.90348**
D3PostMid_500_750	**6.206714**	**2.302768**	**2.70**	**0.007**	**1.693372**	**10.72006**

```
499 .
500 .
501 . *Export regression results and ATT from DD and DDD calculations
502 . *regression model results
503 . esttab m2 using "$resultsfolder/HedonicReg_Model2_NoCEM.csv", replace label csv compress nogaps nolines star
    >  (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
    (file
        C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/HedonicReg_Model2_NoCEM.
        > csv not found)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/HedonicReg
    > _Model2_NoCEM.csv)

504 . *ATT Estimates
505 . esttab TE2 using "$resultsfolder/TreatmentEffectEsts_Model2_NoCEM.csv", replace label csv compress nogaps no
    > lines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
    (file
        C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/TreatmentEffectEsts_Mode
        > l2_NoCEM.csv not found)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/TreatmentEf
    > fectEsts_Model2_NoCEM.csv)

506 .
507 .
508 .
509 . ********************************************************************************
510 . ********************************************************************************
511 .
512 . *Main hedonic regression results in final paper, including Models 1, 2, 3, and 4
513 . *       from Table 3 in final manuscript.
514 .
515 . *Model 1: 0-750m pooled, w/ full sample of homes w/in
516 . *       5km of a TSD
517 . use "$salesfolder\All_Sales_Final_Cleaned_TSD5k", clear
```

```
518 . count
      9,763,582

519 .
520 . *Next code up global variables of stage dummies for individual treatment bins.
521 . local stages pre mid post

522 . foreach s of local stages {
      2.         global d`s'CA d`s'CA0_750 d`s'CA750_1500 d`s'CA1500_5000
      3.         }

523 .
524 . *Model with tract FE, and county x year and county x quarter FEs. All TSD 5k sample.
525 . reghdfe lnrprice $cntTSD $dpreCA $dmidCA $dpostCA, ///
    >         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
    >         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
    (dropped 1266 singleton observations)
    (MWFE estimator converged in 1763 iterations)

    HDFE Linear regression                            Number of obs   =  9,762,316
    Absorbing 4 HDFE groups                           F(  29,    765) =       5.26
    Statistics robust to heteroskedasticity           Prob > F        =     0.0000
                                                      R-squared       =     0.7880
                                                      Adj R-squared   =     0.7843
                                                      Within R-sq.    =     0.0004
    Number of clusters (mycntyid) =        766        Root MSE        =     0.3850

                                  (Std. err. adjusted for 766 clusters in mycntyid)
    ------------------------------------------------------------------------------
                 |               Robust
        lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
    -------------+----------------------------------------------------------------
         cntTSD0_250 |   -.083858   .0084638    -9.91   0.000    -.1004731   -.0672429
       cntTSD250_500 |   -.060192   .0070115    -8.58   0.000    -.0739561   -.0464278
       cntTSD500_750 |  -.0481435   .0054485    -8.84   0.000    -.0588394   -.0374476
      cntTSD750_1000 |  -.0397602    .005298    -7.50   0.000    -.0501606   -.0293598
     cntTSD1000_1250 |  -.0363664   .0047901    -7.59   0.000    -.0457698   -.0269631
     cntTSD1250_1500 |  -.0340237   .0044267    -7.69   0.000    -.0427135   -.0253338
     cntTSD1500_1750 |  -.0310829   .0041553    -7.48   0.000      -.03924   -.0229257
     cntTSD1750_2000 |  -.0280006   .0040208    -6.96   0.000    -.0358938   -.0201075
     cntTSD2000_2250 |  -.0241992   .0035156    -6.88   0.000    -.0311006   -.0172978
     cntTSD2250_2500 |  -.0229086   .0036119    -6.34   0.000    -.0299991   -.0158181
     cntTSD2500_2750 |  -.0216108   .0034396    -6.28   0.000    -.0283629   -.0148587
     cntTSD2750_3000 |  -.0186501    .003297    -5.66   0.000    -.0251223   -.0121778
     cntTSD3000_3250 |  -.0166515   .0031163    -5.34   0.000    -.0227691    -.010534
     cntTSD3250_3500 |  -.0149235   .0028345    -5.26   0.000    -.0204879   -.0093592
     cntTSD3500_3750 |  -.0109175   .0025301    -4.32   0.000    -.0158843   -.0059507
     cntTSD3750_4000 |  -.0088423   .0023648    -3.74   0.000    -.0134845      -.0042
     cntTSD4000_4250 |  -.0078587   .0026617    -2.95   0.003    -.0130839   -.0026335
     cntTSD4250_4500 |  -.0067005   .0022916    -2.92   0.004    -.0111991    -.002202
     cntTSD4500_4750 |  -.0042039   .0020586    -2.04   0.041     -.008245   -.0001628
     cntTSD4750_5000 |  -.0027941   .0019309    -1.45   0.148    -.0065846    .0009963
         dpreCA0_750 |   .0346776   .0232324     1.49   0.136    -.0109292    .0802844
      dpreCA750_1500 |  -.0094363   .0179163    -0.53   0.599    -.0446074    .0257347
     dpreCA1500_5000 |   -.000642   .0091335    -0.07   0.944    -.0185717    .0172877
         dmidCA0_750 |  -.0207233   .0146032    -1.42   0.156    -.0493905    .0079438
      dmidCA750_1500 |   -.008606   .0079091    -1.09   0.277    -.0241321      .00692
     dmidCA1500_5000 |  -.0030045   .0057077    -0.53   0.599     -.014209    .0082001
        dpostCA0_750 |   .0322624   .0250583     1.29   0.198    -.0169288    .0814536
     dpostCA750_1500 |  -.0252578    .019319    -1.31   0.191    -.0631823    .0126668
    dpostCA1500_5000 |  -.0101577   .0147798    -0.69   0.492    -.0391715     .018856
               _cons |   12.24532   .0043058  2843.93   0.000     12.23686    12.25377
    ------------------------------------------------------------------------------
```

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	11382	11382	**0**	*
mycntyid#quarter	2971	2971	**0**	*
mytractid	22267	0	**22267**	
mycntyid#tranyr#c.lnacres	11382	40	**11342**	?
mycntyid#tranyr#c.lnacres_miss	11382	8452	**2930**	?
mycntyid#tranyr#c.stories	11382	1459	**9923**	?
mycntyid#tranyr#c.stories_miss	11382	3253	**8129**	?
mycntyid#tranyr#c.bathtot	11382	2660	**8722**	?
mycntyid#tranyr#c.bathtot_miss	11382	2689	**8693**	?
mycntyid#tranyr#c.lnsqft	11382	857	**10525**	?
mycntyid#tranyr#c.lnsqft_miss	11382	5253	**6129**	?
mycntyid#tranyr#c.age	11382	868	**10514**	?
mycntyid#tranyr#c.agesq	11382	868	**10514**	?
mycntyid#tranyr#c.age_miss	11382	2742	**8640**	?
mycntyid#tranyr#c.p_nbdev_2011_200	11382	0	**11382**	?
mycntyid#tranyr#c.p_nbdev_2011_500	11382	0	**11382**	?
mycntyid#tranyr#c.hwy500m	11382	894	**10488**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
526 . eststo m3

527 . estimates save "$raw_resultsfolder\m3", replace
    (note: file D:\RCRA_benefits2\model_estimates2023_05\m3.ster not found)
    file D:\RCRA_benefits2\model_estimates2023_05\m3.ster saved

528 . *Estimate corresponding triple diff treatment effect estimates. This corresponds
529 . *       to Model 1 results in Table 3 of main text.
530 . eststo TE3: nlcom ///
    >         (D3MidPre_0_750: ((exp((_b[dmidCA0_750]-_b[dpreCA0_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)
    > *100)) ///
    >         (D3PostMid_0_750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
    > -1)*100)),  post

    D3MidPre~750: ((exp((_b[dmidCA0_750]-_b[dpreCA0_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
    D3PostMi~750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3MidPre_0_750	**-5.467944**	**2.175386**	**-2.51**	**0.012**	**-9.731622**	**-1.204266**
D3PostMid_0_750	**7.211944**	**2.470585**	**2.92**	**0.004**	**2.369686**	**12.0542**

```
531 .
532 .
533 . *Export regression results and ATT from DD and DDD calculations
534 . *regression model results
```

```
535 . esttab m3 using "$resultsfolder/HedonicReg_Model3_NoCEM.csv", replace label csv compress nogaps nolines star
    >  (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
    (file
        C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/HedonicReg_Model3_NoCEM.
        > csv not found)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/HedonicReg_
    > Model3_NoCEM.csv)

536 . *ATT Estimates
537 . esttab TE3 using "$resultsfolder/TreatmentEffectEsts_Model3_NoCEM.csv", replace label csv compress nogaps no
    > lines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
    (file
        C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/TreatmentEffectEsts_Mode
        > l3_NoCEM.csv not found)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/TreatmentEf
    > fectEsts_Model3_NoCEM.csv)

538 .
539 .
540 . *Calculate % change in price associated with TSDFs (for Figure 4 in final
541 . *       manuscript).
542 .
543 . *Calculate if 1, 2, or 3 TSDFs in each bin
544 . estimates use "$raw_resultsfolder\m3"

545 . eststo m3

546 . local sites 1 2 3

547 . foreach tsd of local sites {
      2.         estimates restore m3
      3.         eststo pctdp_`tsd'TSD: nlcom ///
    >                (pctdp_dTSD0_250: ((exp((_b[cntTSD0_250]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD250_500: ((exp((_b[cntTSD250_500]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD500_750: ((exp((_b[cntTSD500_750]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD750_1000: ((exp((_b[cntTSD750_1000]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD1000_1250: ((exp((_b[cntTSD1000_1250]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD1250_1500: ((exp((_b[cntTSD1250_1500]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD1500_1750: ((exp((_b[cntTSD1500_1750]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD1750_2000: ((exp((_b[cntTSD1750_2000]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD2000_2250: ((exp((_b[cntTSD2000_2250]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD2250_2500: ((exp((_b[cntTSD2250_2500]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD2500_2750: ((exp((_b[cntTSD2500_2750]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD2750_3000: ((exp((_b[cntTSD2750_3000]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD3000_3250: ((exp((_b[cntTSD3000_3250]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD3250_3500: ((exp((_b[cntTSD3250_3500]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD3500_3750: ((exp((_b[cntTSD3500_3750]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD3750_4000: ((exp((_b[cntTSD3750_4000]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD4000_4250: ((exp((_b[cntTSD4000_4250]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD4250_4500: ((exp((_b[cntTSD4250_4500]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD4500_4750: ((exp((_b[cntTSD4500_4750]*`tsd'))-1)*100)) ///
    >                (pctdp_dTSD4750_5000: ((exp((_b[cntTSD4750_5000]*`tsd'))-1)*100)), post
      4.               }
    (results m3 are active now)
```

pctdp_dT~250: **((exp((_b[cntTSD0_250]*1))-1)*100)**
pctdp_dT~500: **((exp((_b[cntTSD250_500]*1))-1)*100)**
pctdp_dT~750: **((exp((_b[cntTSD500_750]*1))-1)*100)**
pctdp_d~1000: **((exp((_b[cntTSD750_1000]*1))-1)*100)**
pctdp_d~1250: **((exp((_b[cntTSD1000_1250]*1))-1)*100)**
pctdp_d~1500: **((exp((_b[cntTSD1250_1500]*1))-1)*100)**
pctdp_d~1750: **((exp((_b[cntTSD1500_1750]*1))-1)*100)**
pctdp_d~2000: **((exp((_b[cntTSD1750_2000]*1))-1)*100)**
pctdp_d~2250: **((exp((_b[cntTSD2000_2250]*1))-1)*100)**
pctdp_d~2500: **((exp((_b[cntTSD2250_2500]*1))-1)*100)**
pctdp_d~2750: **((exp((_b[cntTSD2500_2750]*1))-1)*100)**
pctdp_d~3000: **((exp((_b[cntTSD2750_3000]*1))-1)*100)**
pctdp_d~3250: **((exp((_b[cntTSD3000_3250]*1))-1)*100)**
pctdp_d~3500: **((exp((_b[cntTSD3250_3500]*1))-1)*100)**
pctdp_d~3750: **((exp((_b[cntTSD3500_3750]*1))-1)*100)**
pctdp_d~4000: **((exp((_b[cntTSD3750_4000]*1))-1)*100)**
pctdp_d~4250: **((exp((_b[cntTSD4000_4250]*1))-1)*100)**
pctdp_d~4500: **((exp((_b[cntTSD4250_4500]*1))-1)*100)**
pctdp_d~4750: **((exp((_b[cntTSD4500_4750]*1))-1)*100)**
pctdp_d~5000: **((exp((_b[cntTSD4750_5000]*1))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
pctdp_dTSD0_250	-8.043819	.7783011	-10.34	0.000	-9.569262	-6.518377
pctdp_dTSD250_500	-5.841624	.6601955	-8.85	0.000	-7.135583	-4.547664
pctdp_dTSD500_750	-4.700299	.5192444	-9.05	0.000	-5.717999	-3.682599
pctdp_dTSD750_1000	-3.898015	.5091501	-7.66	0.000	-4.895931	-2.900099
pctdp_dTSD1000_1250	-3.57131	.4619052	-7.73	0.000	-4.476628	-2.665992
pctdp_dTSD1250_1500	-3.345137	.4278598	-7.82	0.000	-4.183726	-2.506547
pctdp_dTSD1500_1750	-3.060477	.4028132	-7.60	0.000	-3.849977	-2.270978
pctdp_dTSD1750_2000	-2.761226	.3909811	-7.06	0.000	-3.527535	-1.994917
pctdp_dTSD2000_2250	-2.390872	.3431566	-6.97	0.000	-3.063447	-1.718297
pctdp_dTSD2250_2500	-2.264819	.3530133	-6.42	0.000	-2.956713	-1.572926
pctdp_dTSD2500_2750	-2.137897	.3366033	-6.35	0.000	-2.797627	-1.478166
pctdp_dTSD2750_3000	-1.847723	.3236084	-5.71	0.000	-2.481984	-1.213462
pctdp_dTSD3000_3250	-1.651367	.3064851	-5.39	0.000	-2.252066	-1.050667
pctdp_dTSD3250_3500	-1.481272	.2792535	-5.30	0.000	-2.028599	-.9339453
pctdp_dTSD3500_3750	-1.085812	.2502651	-4.34	0.000	-1.576322	-.5953013
pctdp_dTSD3750_4000	-.8803304	.2343973	-3.76	0.000	-1.339741	-.42092
pctdp_dTSD4000_4250	-.7827938	.2640914	-2.96	0.003	-1.300403	-.2651842
pctdp_dTSD4250_4500	-.6678151	.2276297	-2.93	0.003	-1.113961	-.2216691
pctdp_dTSD4500_4750	-.4195073	.204992	-2.05	0.041	-.8212843	-.0177304
pctdp_dTSD4750_5000	-.279025	.1925487	-1.45	0.147	-.6564134	.0983635

(results m3 are active now)

pctdp_dT~250: **((exp((_b[cntTSD0_250]*2))-1)*100)**
pctdp_dT~500: **((exp((_b[cntTSD250_500]*2))-1)*100)**
pctdp_dT~750: **((exp((_b[cntTSD500_750]*2))-1)*100)**
pctdp_d~1000: **((exp((_b[cntTSD750_1000]*2))-1)*100)**
pctdp_d~1250: **((exp((_b[cntTSD1000_1250]*2))-1)*100)**
pctdp_d~1500: **((exp((_b[cntTSD1250_1500]*2))-1)*100)**
pctdp_d~1750: **((exp((_b[cntTSD1500_1750]*2))-1)*100)**
pctdp_d~2000: **((exp((_b[cntTSD1750_2000]*2))-1)*100)**
pctdp_d~2250: **((exp((_b[cntTSD2000_2250]*2))-1)*100)**
pctdp_d~2500: **((exp((_b[cntTSD2250_2500]*2))-1)*100)**
pctdp_d~2750: **((exp((_b[cntTSD2500_2750]*2))-1)*100)**
pctdp_d~3000: **((exp((_b[cntTSD2750_3000]*2))-1)*100)**
pctdp_d~3250: **((exp((_b[cntTSD3000_3250]*2))-1)*100)**
pctdp_d~3500: **((exp((_b[cntTSD3250_3500]*2))-1)*100)**
pctdp_d~3750: **((exp((_b[cntTSD3500_3750]*2))-1)*100)**
pctdp_d~4000: **((exp((_b[cntTSD3750_4000]*2))-1)*100)**
pctdp_d~4250: **((exp((_b[cntTSD4000_4250]*2))-1)*100)**
pctdp_d~4500: **((exp((_b[cntTSD4250_4500]*2))-1)*100)**

pctdp_d~4750: **((exp((_b[cntTSD4500_4750]*2))-1)*100)**
pctdp_d~5000: **((exp((_b[cntTSD4750_5000]*2))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
pctdp_dTSD0_250	-15.44061	1.431392	-10.79	0.000	-18.24609	-12.63513
pctdp_dTSD250_500	-11.342	1.243259	-9.12	0.000	-13.77874	-8.90526
pctdp_dTSD500_750	-9.179669	.9896766	-9.28	0.000	-11.1194	-7.239939
pctdp_dTSD750_1000	-7.644085	.9786067	-7.81	0.000	-9.562119	-5.726051
pctdp_dTSD1000_1250	-7.015077	.8908183	-7.87	0.000	-8.761049	-5.269105
pctdp_dTSD1250_1500	-6.578374	.8270947	-7.95	0.000	-8.19945	-4.957298
pctdp_dTSD1500_1750	-6.027289	.7809704	-7.72	0.000	-7.557963	-4.496616
pctdp_dTSD1750_2000	-5.446209	.7603704	-7.16	0.000	-6.936507	-3.95591
pctdp_dTSD2000_2250	-4.724581	.6699044	-7.05	0.000	-6.03757	-3.411593
pctdp_dTSD2250_2500	-4.478344	.6900365	-6.49	0.000	-5.830791	-3.125898
pctdp_dTSD2500_2750	-4.230087	.6588141	-6.42	0.000	-5.521339	-2.938835
pctdp_dTSD2750_3000	-3.661306	.635258	-5.76	0.000	-4.906389	-2.416223
pctdp_dTSD3000_3250	-3.275463	.6028477	-5.43	0.000	-4.457023	-2.093903
pctdp_dTSD3250_3500	-2.940602	.5502339	-5.34	0.000	-4.019041	-1.862164
pctdp_dTSD3500_3750	-2.159834	.4950953	-4.36	0.000	-3.130203	-1.189465
pctdp_dTSD3750_4000	-1.752911	.4646677	-3.77	0.000	-2.663643	-.8421789
pctdp_dTSD4000_4250	-1.55946	.5240482	-2.98	0.003	-2.586575	-.5323443
pctdp_dTSD4250_4500	-1.33117	.4522191	-2.94	0.003	-2.217504	-.4448373
pctdp_dTSD4500_4750	-.8372548	.4082641	-2.05	0.040	-1.637438	-.0370718
pctdp_dTSD4750_5000	-.5572714	.3840228	-1.45	0.147	-1.309942	.1953995

(results m3 are active now)

pctdp_dT~250: **((exp((_b[cntTSD0_250]*3))-1)*100)**
pctdp_dT~500: **((exp((_b[cntTSD250_500]*3))-1)*100)**
pctdp_dT~750: **((exp((_b[cntTSD500_750]*3))-1)*100)**
pctdp_d~1000: **((exp((_b[cntTSD750_1000]*3))-1)*100)**
pctdp_d~1250: **((exp((_b[cntTSD1000_1250]*3))-1)*100)**
pctdp_d~1500: **((exp((_b[cntTSD1250_1500]*3))-1)*100)**
pctdp_d~1750: **((exp((_b[cntTSD1500_1750]*3))-1)*100)**
pctdp_d~2000: **((exp((_b[cntTSD1750_2000]*3))-1)*100)**
pctdp_d~2250: **((exp((_b[cntTSD2000_2250]*3))-1)*100)**
pctdp_d~2500: **((exp((_b[cntTSD2250_2500]*3))-1)*100)**
pctdp_d~2750: **((exp((_b[cntTSD2500_2750]*3))-1)*100)**
pctdp_d~3000: **((exp((_b[cntTSD2750_3000]*3))-1)*100)**
pctdp_d~3250: **((exp((_b[cntTSD3000_3250]*3))-1)*100)**
pctdp_d~3500: **((exp((_b[cntTSD3250_3500]*3))-1)*100)**
pctdp_d~3750: **((exp((_b[cntTSD3500_3750]*3))-1)*100)**
pctdp_d~4000: **((exp((_b[cntTSD3750_4000]*3))-1)*100)**
pctdp_d~4250: **((exp((_b[cntTSD4000_4250]*3))-1)*100)**
pctdp_d~4500: **((exp((_b[cntTSD4250_4500]*3))-1)*100)**
pctdp_d~4750: **((exp((_b[cntTSD4500_4750]*3))-1)*100)**
pctdp_d~5000: **((exp((_b[cntTSD4750_5000]*3))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
pctdp_dTSD0_250	-22.24241	1.97438	-11.27	0.000	-26.11213	-18.3727
pctdp_dTSD250_500	-16.52107	1.755948	-9.41	0.000	-19.96266	-13.07947
pctdp_dTSD500_750	-13.4485	1.414738	-9.51	0.000	-16.22133	-10.67566
pctdp_dTSD750_1000	-11.24413	1.410691	-7.97	0.000	-14.00904	-8.479229
pctdp_dTSD1000_1250	-10.33586	1.288507	-8.02	0.000	-12.86128	-7.81043
pctdp_dTSD1250_1500	-9.703455	1.199141	-8.09	0.000	-12.05373	-7.353182
pctdp_dTSD1500_1750	-8.903303	1.135604	-7.84	0.000	-11.12904	-6.677561
pctdp_dTSD1750_2000	-8.057053	1.109062	-7.26	0.000	-10.23078	-5.883331
pctdp_dTSD2000_2250	-7.002495	.9808317	-7.14	0.000	-8.92489	-5.0801
pctdp_dTSD2250_2500	-6.641737	1.011613	-6.57	0.000	-8.624461	-4.659013
pctdp_dTSD2500_2750	-6.277549	.9670941	-6.49	0.000	-8.173018	-4.382079
pctdp_dTSD2750_3000	-5.441378	.9352803	-5.82	0.000	-7.274494	-3.608263

pctdp_dTSD3000_3250	**-4.87274**	**.8893388**	**-5.48**	**0.000**	**-6.615812**	**-3.129668**
pctdp_dTSD3250_3500	**-4.378316**	**.8131252**	**-5.38**	**0.000**	**-5.972012**	**-2.78462**
pctdp_dTSD3500_3750	**-3.222194**	**.7345793**	**-4.39**	**0.000**	**-4.661943**	**-1.782445**
pctdp_dTSD3750_4000	**-2.61781**	**.6908657**	**-3.79**	**0.000**	**-3.971882**	**-1.263738**
pctdp_dTSD4000_4250	**-2.330046**	**.779919**	**-2.99**	**0.003**	**-3.858659**	**-.8014332**
pctdp_dTSD4250_4500	**-1.990096**	**.6737987**	**-2.95**	**0.003**	**-3.310717**	**-.6694747**
pctdp_dTSD4500_4750	**-1.25325**	**.6098271**	**-2.06**	**0.040**	**-2.448489**	**-.0580106**
pctdp_dTSD4750_5000	**-.8347414**	**.5744269**	**-1.45**	**0.146**	**-1.960598**	**.2911147**

```
548 .
549 . *export TSD gradient table and graph
550 . esttab pctdp_1TSD pctdp_2TSD pctdp_3TSD using "$resultsfolder/TSD_DistGradient_forTable.csv", replace label
    > csv compress nogaps nolines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/TSD_DistGra
    > dient_forTable.csv)

551 . esttab pctdp_1TSD using "$resultsfolder/DistGradient_forGraph_1TSD.csv", replace label plain csv compress no
    > gaps nolines nostar b(4) ci(4) wide noparentheses
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/DistGradien
    > t_forGraph_1TSD.csv)

552 . esttab pctdp_2TSD using "$resultsfolder/DistGradient_forGraph_2TSD.csv", replace label plain csv compress no
    > gaps nolines nostar b(4) ci(4) wide noparentheses
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/DistGradien
    > t_forGraph_2TSD.csv)

553 . esttab pctdp_3TSD using "$resultsfolder/DistGradient_forGraph_3TSD.csv", replace label plain csv compress no
    > gaps nolines nostar b(4) ci(4) wide noparentheses
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05/DistGradien
    > t_forGraph_3TSD.csv)

554 .
555 .
556 .
557 . ******************************************************************************
558 .
559 . *Model 2: Hedonic regs with sample of homes w/in 5km of a CA, w/ 0-750m pooled
560 . use "$salesfolder\All_Sales_Final_Cleaned_CA5k", replace

561 .
562 . *Need to re-set CA global variables for this sample
563 . local stages pre mid post

564 . foreach s of local stages {
      2.         global d`s'CA d`s'CA0_750 d`s'CA750_1500 /*d`s'CA1500_5000*/
      3.         }

565 .
566 . *Model with pooled 0-750m CA zone. All CA 5k sample.
567 . reghdfe lnrprice $cntTSD $dpreCA $dmidCA $dpostCA, ///
    >         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
    >         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
    (dropped 675 singleton observations)
    (MWFE estimator converged in 1806 iterations)

    HDFE Linear regression                          Number of obs   =  2,537,669
    Absorbing 4 HDFE groups                         F(  26,    376) =       3.47
    Statistics robust to heteroskedasticity         Prob > F        =     0.0000
                                                    R-squared       =     0.7907
                                                    Adj R-squared   =     0.7842
                                                    Within R-sq.    =     0.0006
    Number of clusters (mycntyid) =        377      Root MSE        =     0.3910
```

(Std. err. adjusted for **377** clusters in **mycntyid**)

lnrprice	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
cntTSD0_250	**-.0973802**	**.0173818**	**-5.60**	**0.000**	**-.131558**	**-.0632025**
cntTSD250_500	**-.0630614**	**.0138951**	**-4.54**	**0.000**	**-.0903834**	**-.0357395**
cntTSD500_750	**-.0538066**	**.010364**	**-5.19**	**0.000**	**-.0741852**	**-.033428**
cntTSD750_1000	**-.0460681**	**.0093805**	**-4.91**	**0.000**	**-.0645129**	**-.0276233**
cntTSD1000_1250	**-.038412**	**.0077357**	**-4.97**	**0.000**	**-.0536227**	**-.0232014**
cntTSD1250_1500	**-.0348273**	**.0074975**	**-4.65**	**0.000**	**-.0495695**	**-.020085**
cntTSD1500_1750	**-.031828**	**.0059391**	**-5.36**	**0.000**	**-.043506**	**-.0201501**
cntTSD1750_2000	**-.0289205**	**.0061886**	**-4.67**	**0.000**	**-.041089**	**-.016752**
cntTSD2000_2250	**-.0252986**	**.0048463**	**-5.22**	**0.000**	**-.0348279**	**-.0157693**
cntTSD2250_2500	**-.0225052**	**.005451**	**-4.13**	**0.000**	**-.0332234**	**-.0117869**
cntTSD2500_2750	**-.020754**	**.0054711**	**-3.79**	**0.000**	**-.0315119**	**-.0099962**
cntTSD2750_3000	**-.0186498**	**.0047986**	**-3.89**	**0.000**	**-.0280851**	**-.0092144**
cntTSD3000_3250	**-.0151443**	**.0039398**	**-3.84**	**0.000**	**-.022891**	**-.0073975**
cntTSD3250_3500	**-.0129948**	**.0042925**	**-3.03**	**0.003**	**-.0214352**	**-.0045545**
cntTSD3500_3750	**-.0105439**	**.0040614**	**-2.60**	**0.010**	**-.0185298**	**-.0025579**
cntTSD3750_4000	**-.0084465**	**.003806**	**-2.22**	**0.027**	**-.0159302**	**-.0009629**
cntTSD4000_4250	**-.0057389**	**.0036867**	**-1.56**	**0.120**	**-.0129879**	**.0015102**
cntTSD4250_4500	**-.0067281**	**.0037256**	**-1.81**	**0.072**	**-.0140536**	**.0005975**
cntTSD4500_4750	**-.003971**	**.0033418**	**-1.19**	**0.235**	**-.0105419**	**.0025999**
cntTSD4750_5000	**-.0013066**	**.0028877**	**-0.45**	**0.651**	**-.0069847**	**.0043715**
dpreCA0_750	**.0380351**	**.0242371**	**1.57**	**0.117**	**-.0096222**	**.0856923**
dpreCA750_1500	**-.0087527**	**.0133498**	**-0.66**	**0.512**	**-.0350024**	**.0174969**
dmidCA0_750	**-.0119696**	**.0145595**	**-0.82**	**0.412**	**-.040598**	**.0166587**
dmidCA750_1500	**-.0046312**	**.0069274**	**-0.67**	**0.504**	**-.0182524**	**.00899**
dpostCA0_750	**.0446162**	**.0225872**	**1.98**	**0.049**	**.0002032**	**.0890293**
dpostCA750_1500	**-.0123508**	**.0141144**	**-0.88**	**0.382**	**-.0401037**	**.0154022**
_cons	**12.16427**	**.0078764**	**1544.39**	**0.000**	**12.14878**	**12.17976**

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	5582	5582	**0**	*
mycntyid#quarter	1448	1448	**0**	*
mytractid	6854	0	**6854**	
mycntyid#tranyr#c.lnacres	5582	15	**5567**	?
mycntyid#tranyr#c.lnacres_miss	5582	4407	**1175**	?
mycntyid#tranyr#c.stories	5582	645	**4937**	?
mycntyid#tranyr#c.stories_miss	5582	1723	**3859**	?
mycntyid#tranyr#c.bathtot	5582	1404	**4178**	?
mycntyid#tranyr#c.bathtot_miss	5582	1423	**4159**	?
mycntyid#tranyr#c.lnsqft	5582	362	**5220**	?
mycntyid#tranyr#c.lnsqft_miss	5582	2812	**2770**	?
mycntyid#tranyr#c.age	5582	360	**5222**	?
mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1529	**4053**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
568 . eststo m4

569 . estimates save "$raw_resultsfolder\m4", replace
    (note: file D:\RCRA_benefits2\model_estimates2023_05\m4.ster not found)
    file D:\RCRA_benefits2\model_estimates2023_05\m4.ster saved

570 .
571 . *Estimate corresponding intra-area DID treatment effect estimates. This corresponds
572 . *       to Model 2 results in Table 3 of main text.
573 . eststo TE4: nlcom ///
    >         (D3MidPre_0_750: ((exp((_b[dmidCA0_750]-_b[dpreCA0_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)
    > *100)) ///
    >         (D3PostMid_0_750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
    > -1)*100)) ///
    >         (D3PostPre_0_750: ((exp((_b[dpostCA0_750]-_b[dpreCA0_750])-(_b[dpostCA750_1500]-_b[dpreCA750_1500]))
    > -1)*100)),  post

    D3MidPre~750: ((exp((_b[dmidCA0_750]-_b[dpreCA0_750])-(_b[dmidCA750_1500]-_b[dpreCA750_1500]))-1)*100)
    D3PostMi~750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
    D3PostPr~750: ((exp((_b[dpostCA0_750]-_b[dpreCA0_750])-(_b[dpostCA750_1500]-_b[dpreCA750_1500]))-1)*100)
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3MidPre_0_750	**-5.268751**	**2.196918**	**-2.40**	**0.016**	**-9.574631**	**-.9628708**
D3PostMid_0_750	**6.641806**	**2.424514**	**2.74**	**0.006**	**1.889845**	**11.39377**
D3PostPre_0_750	**1.023114**	**2.257374**	**0.45**	**0.650**	**-3.401258**	**5.447487**

```
574 .
575 . *Export regression results and ATT from DD and DDD calculations
576 . *regression model results
577 . esttab m4 using "$resultsfolder\HedonicReg_Model4_NoCEM.csv", replace label csv compress nogaps nolines star
    >  (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
    (file
        C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\HedonicReg_Model4_NoCEM.
        > csv not found)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\HedonicReg
    > _Model4_NoCEM.csv)

578 . *ATT Estimates
579 . esttab TE4 using "$resultsfolder\TreatmentEffectEsts_Model4_NoCEM.csv", replace label csv compress nogaps no
    > lines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
    (file
        C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEffectEsts_Mode
        > l4_NoCEM.csv not found)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEf
    > fectEsts_Model4_NoCEM.csv)

580 .
581 .
582 . ********************************************************************************
583 .
```

```
584 . *Model 3: Hedonic regs with sample of homes w/in 1500m of a CA
585 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m", replace

586 .
587 . *reset global vars to only account for TSDs in closer distance bins
588 . *TSD counts
589 . local vars  cntTSD

590 . foreach v of local vars {
  2.         global `v' `v'0_250 `v'250_500 `v'500_750 `v'750_1000 ///
>                 `v'1000_1250 `v'1250_1500 /* `v'1500_1750 `v'1750_2000 ///
>                 `v'2000_2250 `v'2250_2500 `v'2500_2750 `v'2750_3000 ///
>                 `v'3000_3250 `v'3250_3500 `v'3500_3750 `v'3750_4000 ///
>                 `v'4000_4250 `v'4250_4500 `v'4500_4750 `v'4750_5000 */
  3.         }

591 .
592 . *code up global variables of stage dummies for individual treatment bins.
593 . local stages pre

594 . foreach s of local stages {
  2.         global d`s'CA d`s'CA0_750 /*d`s'CA750_1500 d`s'CA1500_5000*/
  3.         }

595 .         *Note: Omit pre-CA 750-1500m b/c that is omitted category for proper
596 .         *       interpretation with this more focused sample.  It would still run b/c
597 .         *       multiple sites near some sales, but should be excluded for proper
598 .         *       interpretation. Treatment effect formulas adjusted below, b/c when omitted
599 .         *       the 750-1500m coefficient always accounts for incremental difference.
600 . local stages /*pre*/ mid post

601 . foreach s of local stages {
  2.         global d`s'CA d`s'CA0_750 d`s'CA750_1500 /*d`s'CA1500_5000*/
  3.         }

602 .
603 . *Model with tract FE, and county x year and county x quarter FEs.
604 . *       CA only 1500m sample.
605 . reghdfe lnrprice $cntTSD $dpreCA $dmidCA $dpostCA, ///
>         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
>         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
(dropped 501 singleton observations)
(MWFE estimator converged in 2292 iterations)

HDFE Linear regression                            Number of obs   =    203,550
Absorbing 4 HDFE groups                           F(  11,    247) =       2.57
Statistics robust to heteroskedasticity           Prob > F        =     0.0041
                                                  R-squared       =     0.8309
                                                  Adj R-squared   =     0.7888
                                                  Within R-sq.    =     0.0010
Number of clusters (mycntyid) =        248        Root MSE        =     0.3997

                                (Std. err. adjusted for 248 clusters in mycntyid)
------------------------------------------------------------------------------
             |               Robust
    lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
   cntTSD0_250 |  -.0958056   .0251524    -3.81   0.000    -.1453462    -.046265
 cntTSD250_500 |  -.0528407   .0186219    -2.84   0.005    -.0895187   -.0161628
 cntTSD500_750 |  -.0401468   .0195355    -2.06   0.041    -.0786243   -.0016693
cntTSD750_1000 |  -.0244681   .0097118    -2.52   0.012    -.0435966   -.0053397
cntTSD1000_1250 |  -.0149172   .0063788    -2.34   0.020     -.027481   -.0023535
cntTSD1250_1500 |  -.0065289   .0065774    -0.99   0.322    -.0194839    .0064261
    dpreCA0_750 |   .0321954   .0291569     1.10   0.271    -.0252325    .0896234
    dmidCA0_750 |   .0220665   .0317557     0.69   0.488    -.0404799     .084613
```

dmidCA750_1500	.018646	.0189005	0.99	0.325	-.0185806	.0558727
dpostCA0_750	.0663274	.034644	1.91	0.057	-.0019079	.1345628
dpostCA750_1500	.0020107	.0230358	0.09	0.931	-.0433609	.0473823
_cons	12.01217	.0182114	659.60	0.000	11.9763	12.04804

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	3462	3462	**0**	*
mycntyid#quarter	930	930	**0**	*
mytractid	1269	1269	**0**	*
mycntyid#tranyr#c.lnacres	3462	29	**3433**	?
mycntyid#tranyr#c.lnacres_miss	3462	3101	**361**	?
mycntyid#tranyr#c.stories	3462	424	**3038**	?
mycntyid#tranyr#c.stories_miss	3462	1795	**1667**	?
mycntyid#tranyr#c.bathtot	3462	900	**2562**	?
mycntyid#tranyr#c.bathtot_miss	3462	1577	**1885**	?
mycntyid#tranyr#c.lnsqft	3462	242	**3220**	?
mycntyid#tranyr#c.lnsqft_miss	3462	2560	**902**	?
mycntyid#tranyr#c.age	3462	250	**3212**	?
mycntyid#tranyr#c.agesq	3462	250	**3212**	?
mycntyid#tranyr#c.age_miss	3462	1957	**1505**	?
mycntyid#tranyr#c.p_nbdev_2011_200	3462	3	**3459**	?
mycntyid#tranyr#c.p_nbdev_2011_500	3462	1	**3461**	?
mycntyid#tranyr#c.hwy500m	3462	514	**2948**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
606 . eststo m5

607 . estimates save "$raw_resultsfolder\m5", replace
    (note: file D:\RCRA_benefits2\model_estimates2023_05\m5.ster not found)
    file D:\RCRA_benefits2\model_estimates2023_05\m5.ster saved

608 .
609 . *DID treatment effect estimates based on above regression results. This corresponds
610 . *       to Model 3 results in Table 3 of main text.
611 . eststo TE5: nlcom ///
    >         (D3MidPre_0_750: ((exp((_b[dmidCA0_750]-_b[dpreCA0_750])-(_b[dmidCA750_1500]))-1)*100)) ///
    >         (D3PostMid_0_750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
    > -1)*100)) ///
    >         (D3PostPre_0_750: ((exp((_b[dpostCA0_750]-_b[dpreCA0_750])-(_b[dpostCA750_1500]))-1)*100)),  post
    >

    D3MidPre~750: ((exp((_b[dmidCA0_750]-_b[dpreCA0_750])-(_b[dmidCA750_1500]))-1)*100)
    D3PostMi~750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
    D3PostPr~750: ((exp((_b[dpostCA0_750]-_b[dpreCA0_750])-(_b[dpostCA750_1500]))-1)*100)
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3MidPre_0_750	-2.836486	2.172997	-1.31	0.192	-7.095483	1.42251
D3PostMid_0_750	6.278865	2.571323	2.44	0.015	1.239164	11.31857
D3PostPre_0_750	3.26428	2.298272	1.42	0.156	-1.24025	7.768809

```
612 .
613 . *Export regression results and ATT from DD and DDD calculations
614 . *regression model results
615 . esttab m5 using "$resultsfolder\HedonicReg_Model5_NoCEM.csv", replace label csv compress nogaps nolines star
    >  (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
    (file
        C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\HedonicReg_Model5_NoCEM.
        > csv not found)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\HedonicReg
    > _Model5_NoCEM.csv)

616 . *ATT Estimates
617 . esttab TE5 using "$resultsfolder\TreatmentEffectEsts_Model5_NoCEM.csv", replace label csv compress nogaps no
    > lines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
    (file
        C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEffectEsts_Mode
        > l5_NoCEM.csv not found)
    (output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEf
    > fectEsts_Model5_NoCEM.csv)

618 .
619 .
620 .
621 . ********************************************************************************
622 .
623 .
624 . *Model 4: Hedonic regs with sample of homes w/in 1500m of a CA, with CEM weights.
625 .
626 . *bring in main estimating dataset with only matched sales w/in 5k of CA
627 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m_CEM_MatchOnly", clear

628 . count
      100,647

629 .
630 . *Model with tract FE, and county x year and county x quarter FEs.
631 . *       CA only 1500m CEM matched sample
632 . reghdfe lnrprice $cntTSD $dpreCA $dmidCA $dpostCA [pweight=cem_weights], ///
    >         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
    >         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
    (dropped 140 singleton observations)
    (MWFE estimator converged in 3569 iterations)

    HDFE Linear regression                            Number of obs   =    100,507
    Absorbing 4 HDFE groups                           F(  11,    161) =       5.16
    Statistics robust to heteroskedasticity           Prob > F        =     0.0000
                                                      R-squared       =     0.8518
                                                      Adj R-squared   =     0.8109
                                                      Within R-sq.    =     0.0017
    Number of clusters (mycntyid) =       162         Root MSE        =     0.3806

                                  (Std. err. adjusted for 162 clusters in mycntyid)
    ------------------------------------------------------------------------------
                 |               Robust
        lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
    -------------+----------------------------------------------------------------
       cntTSD0_250 |  -.1263588   .0275293    -4.59   0.000    -.1807239   -.0719937
     cntTSD250_500 |   -.066878   .0324634    -2.06   0.041     -.130987   -.0027691
     cntTSD500_750 |  -.0637622   .0312074    -2.04   0.043    -.1253909   -.0021335
    cntTSD750_1000 |  -.0157776    .016066    -0.98   0.328     -.047505    .0159498
   cntTSD1000_1250 |  -.0161671   .0128589    -1.26   0.210    -.0415609    .0092268
   cntTSD1250_1500 |  -.0046168   .0112686    -0.41   0.683    -.0268702    .0176365
       dpreCA0_750 |   .0530266   .0386411     1.37   0.172    -.0232822    .1293354
       dmidCA0_750 |   .0484088   .0374443     1.29   0.198    -.0255365    .1223542
    dmidCA750_1500 |   .0199706   .0215528     0.93   0.356    -.0225921    .0625333
```

dpostCA0_750	**.0177489**	**.0418555**	**0.42**	**0.672**	**-.0649077**	**.1004055**
dpostCA750_1500	**-.0821415**	**.0387838**	**-2.12**	**0.036**	**-.158732**	**-.0055509**
_cons	**12.04488**	**.0193941**	**621.06**	**0.000**	**12.00658**	**12.08318**

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	1971	1971	**0**	*
mycntyid#quarter	614	614	**0**	*
mytractid	912	912	**0**	*
mycntyid#tranyr#c.lnacres	1971	35	**1936**	?
mycntyid#tranyr#c.lnacres_miss	1971	1923	**48**	?
mycntyid#tranyr#c.stories	1971	263	**1708**	?
mycntyid#tranyr#c.stories_miss	1971	1268	**703**	?
mycntyid#tranyr#c.bathtot	1971	559	**1412**	?
mycntyid#tranyr#c.bathtot_miss	1971	1237	**734**	?
mycntyid#tranyr#c.lnsqft	1971	172	**1799**	?
mycntyid#tranyr#c.lnsqft_miss	1971	1708	**263**	?
mycntyid#tranyr#c.age	1971	180	**1791**	?
mycntyid#tranyr#c.agesq	1971	180	**1791**	?
mycntyid#tranyr#c.age_miss	1971	1604	**367**	?
mycntyid#tranyr#c.p_nbdev_2011_200	1971	2	**1969**	?
mycntyid#tranyr#c.p_nbdev_2011_500	1971	0	**1971**	?
mycntyid#tranyr#c.hwy500m	1971	236	**1735**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
633 . eststo m6

634 . estimates save "$raw_resultsfolder\m6", replace
    (note: file D:\RCRA_benefits2\model_estimates2023_05\m6.ster not found)
    file D:\RCRA_benefits2\model_estimates2023_05\m6.ster saved

635 .
636 . *Estimate corresponding intra-area DID treatment effect estimates. This corresponds
637 . *       to Model 4 results in Table 3 of main text.
638 . eststo TE6: nlcom ///
    >         (D3MidPre_0_750: ((exp((_b[dmidCA0_750]-_b[dpreCA0_750])-(_b[dmidCA750_1500]))-1)*100)) ///
    >         (D3PostMid_0_750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
    > -1)*100)) ///
    >         (D3PostPre_0_750: ((exp((_b[dpostCA0_750]-_b[dpreCA0_750])-(_b[dpostCA750_1500]))-1)*100)),  post
    >
```

D3MidPre~750: **((exp((_b[dmidCA0_750]-_b[dpreCA0_750])-(_b[dmidCA750_1500]))-1)*100)**
D3PostMi~750: **((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)**
D3PostPr~750: **((exp((_b[dpostCA0_750]-_b[dpreCA0_750])-(_b[dpostCA750_1500]))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3MidPre_0_750	**-2.428854**	**2.358054**	**-1.03**	**0.303**	**-7.050555**	**2.192848**
D3PostMid_0_750	**7.406667**	**2.67319**	**2.77**	**0.006**	**2.16731**	**12.64602**
D3PostPre_0_750	**4.797916**	**2.677**	**1.79**	**0.073**	**-.4489088**	**10.04474**

```
. 
. *Export regression results and ATT from DD and DDD calculations
. *regression model results
. esttab m6 using "$resultsfolder\HedonicReg_Model6_CEM.csv", replace label csv compress nogaps nolines star (
> * 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
(file
    C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\HedonicReg_Model6_CEM.cs
    > v not found)
(output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\HedonicReg
> _Model6_CEM.csv)

. *ATT Estimates
. esttab TE6 using "$resultsfolder\TreatmentEffectEsts_Model6_CEM.csv", replace label csv compress nogaps noli
> nes star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
(file
    C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEffectEsts_Mode
    > l6_CEM.csv not found)
(output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEf
> fectEsts_Model6_CEM.csv)

. 
. 
. *END
. 
end of do-file

. 
. *STEP 5: Descriptive stats of housing sales dataset, and comparison of covariates across
. *       different groups.
. cd "$dofile_folder"
C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis

. do analysis_RCRABenefits_Step5_SalesDescStats.do

. *RCRA Nationwide Hedonic Study
. *Housing Transaction Data Descriptive Statistics
. *Created: 5/20/2020
. *Created by: Dennis Guignet
. *Last Revised: 05/22/2023
. *Last Revised by: Dennis Guignet
. 
. ********************************************************************************
. 
. *This do-file takes the completed transaction dataset of all transactions in
. *       the contiguous US that are within five kilometers of a TSDF under RCRA,
. *       and presents some descriptive stats for graphs and tables.  Most noteably,
. *       the initial code below is used to generate Table 2 in the main text.
. *       Subsequent code below is used to generate several tables and figures in
. *       appendices B.2, B.3, F.1, and F.2.
. 
. ********************************************************************************
. ********************************************************************************
. 
```

```
673 . *set empty cells for factor variables to drop
674 . set emptycells drop

675 . clear all

676 . *increase max variables allowed b/c factor variables
677 . set maxvar 100000


678 .
679 .
680 . ********************************************************************************
681 .
682 . *Gather home transaction descriptive statistics for Table 2 in final paper.
683 .
684 . *Bring in full dataset of transactions within 5km of any TSDF.
685 . use "$salesfolder\All_Sales_Final_Cleaned_TSD5k", clear

686 . count
  9,763,582

687 . gen dTSD0_5000=(dTSD0_750+dTSD750_1500+dTSD1500_5000>0)

688 . gen dTSD0_1500=(dTSD0_750+dTSD750_1500>0)

689 . gen cntTSD0_1500= cntTSD0_750+cntTSD750_1500

690 . *gen cntTSD0_5000=cntTSD0_750+cntTSD750_1500+cntTSD1500_5000
691 .
692 . *keep only necessary vars to try and speed things up
693 . keep rprice acres acres_miss stories stories_miss bathtot bathtot_miss sqftstrc sqftstrc_miss  age age_miss
    > ///
    >         p_nbdev_2011_200 p_nbdev_2011_500 hwy500m lake500m river250m ///
    >         cntTSD0_750 cntTSD0_1500 cntTSD0_5000 cntTSD0_250 cntTSD250_500 cntTSD500_750 cntTSD750_1000

694 .
695 . *Descriptive statistics used to generate Table 2 in main text. Note that statistics
696 . *       for variables with missing values are replaced with stats from subsequent "sum"
697 . *       commands presented immediately elow.
698 . sum rprice acres_miss stories_miss bathtot_miss sqftstrc_miss age_miss ///
    >         p_nbdev_2011_200 p_nbdev_2011_500 hwy500m /*lake500m river250m*/ ///
    >         cntTSD0_750 cntTSD0_1500 cntTSD0_5000
```

Variable	Obs	Mean	Std. dev.	Min	Max
rprice	9,763,582	272669	202034.1	20000.9	999981.5
acres_miss	9,763,582	.025923	.1589055	0	1
stories_miss	9,763,582	.1911523	.3932087	0	1
bathtot_miss	9,763,582	.2299898	.420826	0	1
sqftstrc_m~s	9,763,582	.0508167	.2196232	0	1
age_miss	9,763,582	.0674231	.2507533	0	1
p_nbdev_~200	9,763,582	54.44541	28.46102	0	100
p_nbdev_~500	9,763,582	50.30796	23.53609	0	100
hwy500m	9,763,582	.3880238	.4873001	0	1
cntTSD0_750	9,763,582	.0288401	.1731379	0	3
cntTSD0_1500	9,763,582	.1427613	.3983246	0	6
cntTSD0_5000	9,763,582	1.730614	1.284077	1	18

```
699 . sum acres if acres_miss==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
acres	**9,510,481**	**.2520829**	**.2357689**	**.05**	**2**

```
700 . sum stories if stories_miss==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
stories	**7,897,251**	**1.409145**	**.5027696**	**1**	**3**

```
701 . sum bathtot if bathtot_miss==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
bathtot	**7,518,058**	**1.857292**	**.7597058**	**1**	**6**

```
702 . sum sqftstrc if sqftstrc_miss==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
sqftstrc	**9,267,429**	**2957.525**	**1905.715**	**750**	**12000**

```
703 . sum age if age_miss==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
age	**9,105,291**	**45.97982**	**29.51909**	**0**	**150**

```
704 .         *Note: Series of sum commands needed because only want descriptive stats
705 .         *       over nonmissing values.
706 .
707 . *number of TSDFs in each bin
708 . tab cntTSD0_250
```

cntTSD0_250	Freq.	Percent	Cum.
0	**9,744,523**	**99.80**	**99.80**
1	**18,833**	**0.19**	**100.00**
2	**226**	**0.00**	**100.00**
Total	**9,763,582**	**100.00**	

```
709 . tab cntTSD250_500
```

cntTSD250_500	Freq.	Percent	Cum.
0	**9,678,952**	**99.13**	**99.13**
1	**83,424**	**0.85**	**99.99**
2	**1,192**	**0.01**	**100.00**
3	**14**	**0.00**	**100.00**
Total	**9,763,582**	**100.00**	

```
710 . tab cntTSD500_750
```

cntTSD500_750	Freq.	Percent	Cum.
0	9,591,132	98.23	98.23
1	168,554	1.73	99.96
2	3,794	0.04	100.00
3	102	0.00	100.00
Total	9,763,582	100.00	

```
711 . tab cntTSD750_1000
```

cntTSD750_1000	Freq.	Percent	Cum.
0	9,499,953	97.30	97.30
1	255,223	2.61	99.91
2	8,059	0.08	100.00
3	268	0.00	100.00
4	79	0.00	100.00
Total	9,763,582	100.00	

```
712 .
713 .
714 . ********************************************************************************
715 . ********************************************************************************
716 .
717 . *Additional descriptive stats for number of TSDs, pre, mid, and post, within 5000-meters
718 .         *Note: Decided to do this by creating data table and exporting to excel.
719 .
720 . *Create table of counts for Figure A3 in Appendix B.2 of final paper.
721 .
722 . *Bring in full dataset of transactions within 5km of any TSDF.
723 . use "$salesfolder\All_Sales_Final_Cleaned_TSD5k", clear

724 . count
  9,763,582

725 .
726 . *Drop all unnecessary variable to try and speed things up.
727 . keep dTSD0_250 dTSD250_500 dTSD500_750 dTSD750_1000 ///
>         dTSD1000_1250 dTSD1250_1500 dTSD1500_1750 dTSD1750_2000 ///
>         dTSD2000_2250 dTSD2250_2500 dTSD2500_2750 dTSD2750_3000 ///
>         dTSD3000_3250 dTSD3250_3500 dTSD3500_3750 dTSD3750_4000 ///
>         dTSD4000_4250 dTSD4250_4500 dTSD4500_4750 dTSD4750_5000

728 . local vars dTSD0_250 dTSD250_500 dTSD500_750 dTSD750_1000 ///
>         dTSD1000_1250 dTSD1250_1500 dTSD1500_1750 dTSD1750_2000 ///
>         dTSD2000_2250 dTSD2250_2500 dTSD2500_2750 dTSD2750_3000 ///
>         dTSD3000_3250 dTSD3250_3500 dTSD3500_3750 dTSD3750_4000 ///
>         dTSD4000_4250 dTSD4250_4500 dTSD4500_4750 dTSD4750_5000
```

```
729 . foreach v of local vars {
      2.         egen n_`v'=total(`v')
      3.         }

730 . *keep only first row and newly calculated tabulations
731 . keep if _n==1
    (9,763,581 observations deleted)

732 . keep n_*

733 . xpose, varname clear

734 . order _varname, first

735 . rename v1 sales_cnt

736 . export excel using "$resultsfolder\TSD_SalesCnts_byBins", firstrow(variables) replace
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TSD_SalesCnts_byBins.xls
    > saved

737 .
738 .
739 . ********************************************************************************
740 . ********************************************************************************
741 .
742 . *Create table of counts for Figure A4 in Appendix B.2 of final paper.
743 .
744 . *Bring in full dataset of transactions within 5km of any TSDF.
745 . use "$salesfolder\All_Sales_Final_Cleaned_CA5k", clear

746 . count
      2,538,344

747 .
748 . count if dpreCA0_250+dpreCA250_500+dpreCA500_750>1
      3

749 . count if dmidCA0_250+dmidCA250_500+dmidCA500_750>1
      21

750 . count if dpostCA0_250+dpostCA250_500+dpostCA500_750>1
      0

751 .         *Note: Descrepancy between sum of these individual 250-meter bin counts below
752 .         *       versus subsequent pooled 0-750m bin counts is because some sales have,
753 .         *       for example, a mid-CA site in 0-250m and one in 250-500m.  Those are
754 .         *       counted for each smaller bin here, but only once in subsequent pooled bin
755 .         *       counts.
756 .
757 . *Sales counts for number of pre, mid, and post bins, within 5000-meters
758 .         *Note: Decided to do this by created data table and exporting to excel.
759 . local vars dpreCA0_250 dpreCA250_500 dpreCA500_750 dpreCA750_1000 ///
    >         dpreCA1000_1250 dpreCA1250_1500 dpreCA1500_1750 dpreCA1750_2000 ///
    >         dpreCA2000_2250 dpreCA2250_2500 dpreCA2500_2750 dpreCA2750_3000 ///
    >         dpreCA3000_3250 dpreCA3250_3500 dpreCA3500_3750 dpreCA3750_4000 ///
    >         dpreCA4000_4250 dpreCA4250_4500 dpreCA4500_4750 dpreCA4750_5000 ///
    >         dmidCA0_250 dmidCA250_500 dmidCA500_750 dmidCA750_1000 ///
    >         dmidCA1000_1250 dmidCA1250_1500 dmidCA1500_1750 dmidCA1750_2000 ///
    >         dmidCA2000_2250 dmidCA2250_2500 dmidCA2500_2750 dmidCA2750_3000 ///
    >         dmidCA3000_3250 dmidCA3250_3500 dmidCA3500_3750 dmidCA3750_4000 ///
    >         dmidCA4000_4250 dmidCA4250_4500 dmidCA4500_4750 dmidCA4750_5000 ///
    >         dpostCA0_250 dpostCA250_500 dpostCA500_750 dpostCA750_1000 ///
    >         dpostCA1000_1250 dpostCA1250_1500 dpostCA1500_1750 dpostCA1750_2000 ///
    >         dpostCA2000_2250 dpostCA2250_2500 dpostCA2500_2750 dpostCA2750_3000 ///
    >         dpostCA3000_3250 dpostCA3250_3500 dpostCA3500_3750 dpostCA3750_4000 ///
```

```
> dpostCA4000_4250 dpostCA4250_4500 dpostCA4500_4750 dpostCA4750_5000

. foreach v of local vars {
  2.         egen n_`v'=total(`v')
  3.         }

. *keep only first row and newly calculated tabulations
. keep if _n==1
(2,538,343 observations deleted)

. keep n_*

. xpose, varname clear

. order _varname, first

. rename v1 sales_cnt

. export excel using "$resultsfolder\CorrAction_SalesCnts_byBins", firstrow(variables) replace
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\CorrAction_SalesCnts_byBi
> ns.xls saved

.
.
. ********************************************************************************
. ********************************************************************************
.
. *Create counts for Table A4 of Appendix B.3 of final paper.
.
. *Repeat above tabulation of sales number exercise, but do so for 0-750m bin.
. *       Do it once for all sales, and then again for just identifying repeat sales.
. *Bring in full dataset of transactions within 5km of any TSDF.
. use "$salesfolder\All_Sales_Final_Cleaned_CA5k", clear

. local vars dpreCA0_750 dmidCA0_750 dpostCA0_750

. foreach v of local vars {
  2.         egen n_`v'=total(`v')
  3.         }

. *keep only first row and newly calculated tabulations
. keep if _n==1
(2,538,343 observations deleted)

. keep n_*

. xpose, varname clear

. order _varname, first

. rename v1 sales_cnt

. export excel using "$resultsfolder\CorrAction_SalesCnts_0_750_binOnly", firstrow(variables) replace
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\CorrAction_SalesCnts_0_75
> 0_binOnly.xls saved
```

```
788 .
789 .
790 . *now do same with CEM dataset
791 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m_CEM_MatchOnly", clear

792 . local vars dpreCA0_750 dmidCA0_750 dpostCA0_750

793 . foreach v of local vars {
      2.         egen n_`v'=total(`v')
      3.         }

794 . *keep only first row and newly calculated tabulations
795 . keep if _n==1
    (100,646 observations deleted)

796 . keep n_*

797 . xpose, varname clear

798 . order _varname, first

799 . rename v1 sales_cnt

800 . export excel using "$resultsfolder\CorrAction_SalesCnts_0_750_binOnly_CEMsample", firstrow(variables) replac
    > e
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\CorrAction_SalesCnts_0_75
    > 0_binOnly_CEMsample.xls saved

801 .
802 .
803 . *now do same with just identifying repeat sales
804 . use "$salesfolder\All_Sales_Final_Cleaned_CA5k", clear

805 . isid importparcelid transid, sort
    (data now sorted by importparcelid transid)

806 . gen tmp=1

807 . by importparcelid: egen salescnt=total(tmp)

808 . *Drop parcels only sold once
809 . drop if salescnt==1
    (908,366 observations deleted)

810 . *flag just one unique observation for each parcels
811 . egen tag=tag(importparcelid)

812 . *sum totals of CA stage variables to see how many repeat sales sold in more than
813 . *       one stage.
814 . by importparcelid: egen sum_preCA0_750=total(dpreCA0_750)

815 . by importparcelid: egen sum_midCA0_750=total(dmidCA0_750)
```

```
816 . by importparcelid: egen sum_postCA0_750=total(dpostCA0_750)

817 . *dummies denoting sales that provide identification with parcel FE (i.e., repeat
818 . *       sales) model, meaning same home sold in both corresponding before and after
819 . *       stages.
820 . gen dpre0_750_RepSale=(sum_preCA0_750>0 & sum_midCA0_750>0 & dpreCA0_750==1)

821 . gen dmidpre0_750_RepSale=(sum_preCA0_750>0 & sum_midCA0_750>0 & dmidCA0_750==1)

822 . gen dmidpost0_750_RepSale=(sum_midCA0_750>0 & sum_postCA0_750>0 & dmidCA0_750==1)

823 . gen dpost0_750_RepSale=(sum_midCA0_750>0 & sum_postCA0_750>0 & dpostCA0_750==1)

824 . *sum up to get observation counts
825 . local vars dpreCA0_750 dmidCA0_750 dpostCA0_750 ///
    >         dpre0_750_RepSale dmidpre0_750_RepSale dmidpost0_750_RepSale dpost0_750_RepSale

826 . foreach v of local vars {
      2.         egen n_`v'=total(`v')
      3.         }

827 . *keep only first row and newly calculated tabulations
828 . keep if _n==1
    (1,629,977 observations deleted)

829 . keep n_*

830 . xpose, varname clear

831 . order _varname, first

832 . rename v1 sales_cnt

833 . export excel using "$resultsfolder\CorrAction_SalesCnts_0_750_binOnly_RepSales", firstrow(variables) replace
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\CorrAction_SalesCnts_0_75
    > 0_binOnly_RepSales.xls saved

834 .
835 .
836 .
837 . ********************************************************************************
838 . ********************************************************************************
839 .
840 . *Next compare covariates across different treatment and control groups, for
841 . *       Tables A12 in Appendix F.1 of final paper. First for unweighted sample of
842 . *       sales within 0-1500m of a Corrective Action, and then for the corresponding
843 . *       CEM-weighted sample.
844 .
845 .
846 . *t-tests between near and far sales around Corrective Action sites
847 . *bring in dataset
848 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m", clear
```

```
849 . count
      204,051

850 . *create treatment dummy for matching
851 . gen dCA0_750=0

852 . replace dCA0_750=1 if (dpreCA0_750+dmidCA0_750+dpostCA0_750)>0
    (35,029 real changes made)

853 . tab dCA0_750
```

dCA0_750	Freq.	Percent	Cum.
0	**169,022**	**82.83**	**82.83**
1	**35,029**	**17.17**	**100.00**
Total	**204,051**	**100.00**	

```
854 .
855 . /*
    > *mean sale price of homes within 750m during (mid) CA.
    > sum rprice if dmidCA0_750==1, detail
    > sum rprice if dmidCA0_750==1 & tranyr==2018, detail
    > sort tranyr
    > by tranyr: sum rprice if dmidCA0_750==1
    >         *Note: Bit of an aside for illustrative policy calculation later.
    > */
856 .
857 . *create TSD count variables
858 . gen cntTSD0_1500=cntTSD0_750+cntTSD750_1500

859 . *gen cntTSD0_5000=cntTSD0_2500+cntTSD2500_5000
860 .
861 . *First house and lot attributes
862 . putexcel set "$resultsfolder\ttests_HouseMeans_CA0_750m_to_CA750_1500m.xlsx", replace
    Note: File will be replaced when the first putexcel command is issued.

863 . putexcel A1="Variable" B1="Ctrl Grp Mean" C1="Trt Grp Mean" D1="tstat" E1="p-val"
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
    > m_to_CA750_1500m.xlsx saved

864 .         *Note: Set up excel file to store test results.
865 . *list variables to be added
866 . local vars acres stories bathtot sqftstrc age

867 . *initiate row for entering values into excel
868 . local r 2

869 . foreach v of local vars {
      2.         ttest `v' if `v'_miss==0, by(dCA0_750) unequal
      3.         putexcel A`r'="`v'"
      4.         putexcel B`r'=`r(mu_1)'
      5.         putexcel C`r'=`r(mu_2)'
      6.         putexcel D`r'=`r(t)'
      7.         putexcel E`r'=`r(p)'
      8.         local ++r /*adds one to row count*/
      9.         }
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	166,637	.2454558	.000579	.2363744	.2443208	.2465907
1	34,471	.2372087	.0012495	.231986	.2347597	.2396578
Combined	201,108	.2440422	.0005255	.235648	.2430123	.2450721
diff		.008247	.0013771		.0055478	.0109463

diff = mean(0) - mean(1) t = 5.9885
H0: diff = 0 Satterthwaite's degrees of freedom = 50384.9

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	144,641	1.416954	.0013496	.5132796	1.414309	1.4196
1	30,129	1.440002	.0030109	.5226162	1.4341	1.445903
Combined	174,770	1.420928	.0012318	.5149733	1.418513	1.423342
diff		-.0230473	.0032995		-.0295144	-.0165802

diff = mean(0) - mean(1) t = -6.9851
H0: diff = 0 Satterthwaite's degrees of freedom = 43088.9

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	123,337	1.739488	.0020369	.7153376	1.735496	1.74348
1	25,595	1.723061	.0045539	.728547	1.714135	1.731987
Combined	148,932	1.736665	.0018596	.7176493	1.73302	1.74031
diff		.016427	.0049886		.0066491	.0262049

diff = mean(0) - mean(1) t = 3.2929
H0: diff = 0 Satterthwaite's degrees of freedom = 36555.7

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9995 Pr(|T| > |t|) = 0.0010 Pr(T > t) = 0.0005
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	160,156	3022.538	4.651711	1861.591	3013.421	3031.655
1	33,366	3085.345	10.20818	1864.662	3065.337	3105.353
Combined	193,522	3033.367	4.233279	1862.267	3025.07	3041.664
diff		-62.80698	11.21808		-84.79456	-40.8194

diff = mean(0) - mean(1) t = -5.5987
H0: diff = 0 Satterthwaite's degrees of freedom = 48226.8

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	156,522	47.87066	.0808335	31.98006	47.71223	48.0291
1	32,699	50.08257	.1874899	33.90355	49.71508	50.45006
Combined	189,221	48.2529	.0743258	32.33136	48.10722	48.39858
diff		-2.211908	.2041728		-2.61209	-1.811726

```
    diff = mean(0) - mean(1)                                      t = -10.8335
H0: diff = 0                     Satterthwaite's degrees of freedom =  45653.9

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_to_CA750_1500m.xlsx saved

870 . *Second location attributes
871 .         *Note: Had to do separate b/c location attributes do not have missing dummy.
872 . putexcel set "$resultsfolder\ttests_LocationMeans_CA0_750m_to_CA750_1500m.xlsx", replace
    Note: File will be replaced when the first putexcel command is issued.

873 . putexcel A1="Variable" B1="Ctrl Grp Mean" C1="Trt Grp Mean" D1="tstat" E1="p-val"
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
    > 750m_to_CA750_1500m.xlsx saved

874 .         *Note: Set up excel file to store test results.
875 . *list variables to be added
876 . local vars rprice p_nbdev_2011_200 p_nbdev_2011_500 hwy500m /*lake500m river250m*/ ///
    >         cntTSD0_1500 cntTSD0_5000

877 . *initiate row for entering values into excel
878 . local r 2

879 . foreach v of local vars {
  2.         ttest `v', by(dCA0_750) unequal
  3.         putexcel A`r'="`v'"
  4.         putexcel B`r'=`r(mu_1)'
  5.         putexcel C`r'=`r(mu_2)'
  6.         putexcel D`r'=`r(t)'
  7.         putexcel E`r'=`r(p)'
  8.         local ++r /*adds one to row count*/
  9.         }
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	169,022	230709.4	463.1308	190403.7	229801.7	231617.1
1	35,029	232387	1059.029	198208.2	230311.3	234462.7
Combined	204,051	230997.4	424.5253	191766.6	230165.3	231829.5
diff		-1677.576	1155.869		-3943.092	587.9406

```
    diff = mean(0) - mean(1)                                      t =  -1.4514
H0: diff = 0                     Satterthwaite's degrees of freedom =  49333.1

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0733         Pr(|T| > |t|) = 0.1467          Pr(T > t) = 0.9267
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	169,022	55.40747	.0704551	28.96569	55.26938	55.54556
1	35,029	49.7556	.1534993	28.72898	49.45474	50.05647
Combined	204,051	54.43722	.0642069	29.00353	54.31138	54.56307
diff		5.651865	.1688962		5.320826	5.982903

```
    diff = mean(0) - mean(1)                                      t =  33.4635
H0: diff = 0                     Satterthwaite's degrees of freedom =  50873.7

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	169,022	49.99045	.0569526	23.41452	49.87883	50.10208
1	35,029	43.1743	.1185532	22.18846	42.94193	43.40666
Combined	204,051	48.82034	.0516924	23.35049	48.71902	48.92165
diff		6.816157	.1315236		6.55837	7.073945

diff = mean(0) - mean(1) t = 51.8246
H0: diff = 0 Satterthwaite's degrees of freedom = 52481.9

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	169,022	.4684952	.0012138	.4990079	.4661163	.4708742
1	35,029	.5819178	.0026354	.4932509	.5767523	.5870834
Combined	204,051	.4879662	.0011066	.4998564	.4857974	.4901351
diff		-.1134226	.0029015		-.1191096	-.1077356

diff = mean(0) - mean(1) t = -39.0908
H0: diff = 0 Satterthwaite's degrees of freedom = 50988.2

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	169,022	1.207813	.0012444	.5115822	1.205374	1.210252
1	35,029	1.225356	.0029039	.543501	1.219664	1.231048
Combined	204,051	1.210825	.0011451	.5172427	1.20858	1.213069
diff		-.0175429	.0031593		-.0237352	-.0113507

diff = mean(0) - mean(1) t = -5.5528
H0: diff = 0 Satterthwaite's degrees of freedom = 48732

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	169,022	2.586048	.0050625	2.081322	2.576126	2.59597
1	35,029	2.714065	.0121059	2.265747	2.690338	2.737793
Combined	204,051	2.608024	.0046814	2.114671	2.598849	2.6172
diff		-.1280175	.0131218		-.1537365	-.1022986

diff = mean(0) - mean(1) t = -9.7561
H0: diff = 0 Satterthwaite's degrees of freedom = 48046.1

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_to_CA750_1500m.xlsx saved

```
880 .
881 .
882 .
883 . *Next compare CEM weighted sample means among treatment and control groups. This
884 . *       corresponds to second set of comparisons in Table A12 in Appendix F.1.
885 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m_CEM_MatchOnly", clear

886 . count
      100,647

887 . *create control group dummy for t-stats via regression framework.
888 .         *Note: Do t-tests in regression format to accomodate weights. Already have
889 .         *       treatment group dummy.
890 . gen dCA750_1500=0

891 . replace dCA750_1500=1 if (dpreCA750_1500+dmidCA750_1500+dpostCA750_1500)>0
    (74,724 real changes made)

892 . tab dCA0_750 dCA750_1500
```

dCA0_750	dCA750_1500 = 0	dCA750_1500 = 1	Total
0	**0**	**73,512**	**73,512**
1	**25,923**	**1,212**	**27,135**
Total	**25,923**	**74,724**	**100,647**

```
893 .         *Note: Because multiple TSDFs and CAs sometimes in close proximity, have some
894 .         *       overlap in groups. Therefore name variable as temp variable so as to not
895 .         *       accidentally use in regressions.  The temp variable excludes observations
896 .         *       from control group if they have any TSDFs within treatment zone.
897 . drop dCA750_1500

898 . gen dCA750_1500tmp=0

899 . replace dCA750_1500tmp=1 if (dpreCA750_1500+dmidCA750_1500+dpostCA750_1500)>0 & dCA0_750==0
    (73,512 real changes made)

900 . tab dCA0_750 dCA750_1500tmp
```

dCA0_750	dCA750_1500tmp = 0	dCA750_1500tmp = 1	Total
0	**0**	**73,512**	**73,512**
1	**27,135**	**0**	**27,135**
Total	**27,135**	**73,512**	**100,647**

```
901 . *create TSD count variables
902 . gen cntTSD0_1500=cntTSD0_750+cntTSD750_1500

903 . *gen cntTSD0_5000=cntTSD0_2500+cntTSD2500_5000
```

```
904 .
905 . *Compare group within 750m of TSD with CA to those farther out
906 . *First house attributes
907 . putexcel set "$resultsfolder\ttests_CEMSample_HomeMeans_CA0_750m_to_CA750_1500m.xlsx", replace
    Note: File will be replaced when the first putexcel command is issued.

908 . putexcel A1="Variable" B1="Ctrl Grp Mean" C1="Trt Grp Mean" D1="tstat" E1="p-val"
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean
    > s_CA0_750m_to_CA750_1500m.xlsx saved

909 .         *Note: Set up excel file to store test results.
910 . *list variables to be added
911 . local vars acres stories bathtot sqftstrc age

912 . *initiate row for entering values into excel
913 . local r 2

914 . foreach v of local vars {
      2.         regress `v' dCA750_1500tmp dCA0_750  if `v'_miss==0 [aweight=cem_weights], noconst
      3.         putexcel A`r'="`v'"
      4.         putexcel B`r'=matrix(e(b))
      5.         regress `v' dCA0_750  if `v'_miss==0 [aweight=cem_weights]
      6.         putexcel D`r'=matrix(r(table)[3,1])
      7.         putexcel E`r'=matrix(r(table)[4,1])
      8.         local ++r /*adds one to row count*/
      9.         }
    (sum of wgt is 99,467.4995024761)

      Source |       SS           df       MS      Number of obs   =    99,551
-------------+----------------------------------   F(2, 99549)     =  51278.58
       Model |  5138.08432         2  2569.04216   Prob > F        =    0.0000
    Residual |  4987.37633    99,549  .050099713   R-squared       =    0.5074
-------------+----------------------------------   Adj R-squared   =    0.5074
       Total |  10125.4606    99,551   .10171129   Root MSE        =    .22383

------------------------------------------------------------------------------
       acres | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
dCA750_1500tmp |   .2284525   .0008301   275.22   0.000     .2268255    .2300794
     dCA0_750 |   .2237115   .0013663   163.74   0.000     .2210337    .2263893
------------------------------------------------------------------------------

    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean
    > s_CA0_750m_to_CA750_1500m.xlsx saved
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean
    > s_CA0_750m_to_CA750_1500m.xlsx saved
    (sum of wgt is 99,467.4995024761)

      Source |       SS           df       MS      Number of obs   =    99,551
-------------+----------------------------------   F(1, 99549)     =      8.79
       Model |  .440622324         1  .440622324   Prob > F        =    0.0030
    Residual |  4987.37633    99,549  .050099713   R-squared       =    0.0001
-------------+----------------------------------   Adj R-squared   =    0.0001
       Total |  4987.81695    99,550  .050103636   Root MSE        =    .22383
```

acres	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	-.004741	.0015986	-2.97	0.003	-.0078743	-.0016076
_cons	.2284525	.0008301	275.22	0.000	.2268255	.2300794

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 86,577.8175689464)

Source	SS	df	MS		
				Number of obs	= 85,201
				F(2, 85199)	> 99999.00
Model	171296.372	2	85648.1862	Prob > F	= 0.0000
Residual	23338.269	85,199	.27392656	R-squared	= 0.8801
				Adj R-squared	= 0.8801
Total	194634.641	85,201	2.28441734	Root MSE	= .52338

stories	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA750_1500tmp	1.415765	.0020946	675.91	0.000	1.411659	1.41987
dCA0_750	1.423814	.0034688	410.46	0.000	1.417016	1.430613

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 86,577.8175689464)

Source	SS	df	MS		
				Number of obs	= 85,201
				F(1, 85199)	= 3.95
Model	1.08099588	1	1.08099588	Prob > F	= 0.0470
Residual	23338.269	85,199	.27392656	R-squared	= 0.0000
				Adj R-squared	= 0.0000
Total	23339.3499	85,200	.273936032	Root MSE	= .52338

stories	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	.0080497	.0040522	1.99	0.047	.0001075	.015992
_cons	1.415765	.0020946	675.91	0.000	1.411659	1.41987

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 72,268.5147595293)

Source	SS	df	MS		
				Number of obs	= 71,138
				F(2, 71136)	> 99999.00
Model	195518.17	2	97759.0852	Prob > F	= 0.0000
Residual	31952.5756	71,136	.449175883	R-squared	= 0.8595
				Adj R-squared	= 0.8595
Total	227470.746	71,138	3.19759828	Root MSE	= .67021

bathtot	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA750_1500tmp	1.658647	.0029402	564.12	0.000	1.652884	1.66441
dCA0_750	1.655653	.0048394	342.12	0.000	1.646168	1.665139

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 72,268.5147595293)

Source	SS	df	MS		
				Number of obs	= 71,138
				F(1, 71136)	= 0.28
Model	.125546332	1	.125546332	Prob > F	= 0.5970
Residual	31952.5756	71,136	.449175883	R-squared	= 0.0000
				Adj R-squared	= -0.0000
Total	31952.7012	71,137	.449171334	Root MSE	= .67021

bathtot	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	-.0029937	.0056626	-0.53	0.597	-.0140923	.0081049
_cons	1.658647	.0029402	564.12	0.000	1.652884	1.66441

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 95,762.0875621786)

Source	SS	df	MS		
				Number of obs	= 94,862
				F(2, 94860)	> 99999.00
Model	8.8156e+11	2	4.4078e+11	Prob > F	= 0.0000
Residual	3.2671e+11	94,860	3444127.86	R-squared	= 0.7296
				Adj R-squared	= 0.7296
Total	1.2083e+12	94,862	12737141.5	Root MSE	= 1855.8

sqftstrc	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA750_1500tmp	3053.254	7.050417	433.06	0.000	3039.435	3067.073
dCA0_750	3035.42	11.60457	261.57	0.000	3012.676	3058.165

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 95,762.0875621786)

Source	SS	df	MS		
				Number of obs	= 94,862
				F(1, 94860)	= 1.72
Model	5941014.4	1	5941014.4	Prob > F	= 0.1891
Residual	3.2671e+11	94,860	3444127.86	R-squared	= 0.0000
				Adj R-squared	= 0.0000
Total	3.2672e+11	94,861	3444154.18	Root MSE	= 1855.8

sqftstrc	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	-17.83368	13.57845	-1.31	0.189	-44.4473	8.779939
_cons	3053.254	7.050417	433.06	0.000	3039.435	3067.073

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 94,868.1893863907)

Source	SS	df	MS		
				Number of obs	= 93,788
				F(2, 93786)	> 99999.00
Model	236939196	2	118469598	Prob > F	= 0.0000
Residual	98294146.7	93,786	1048.06844	R-squared	= 0.7068
				Adj R-squared	= 0.7068
Total	335233342	93,788	3574.37351	Root MSE	= 32.374

age	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA750_1500tmp	50.1438	.1236922	405.39	0.000	49.90136	50.38624
dCA0_750	50.58298	.2035901	248.46	0.000	50.18395	50.98202

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 94,868.1893863907)

Source	SS	df	MS		
				Number of obs	= 93,788
				F(1, 93786)	= 3.40
Model	3562.27725	1	3562.27725	Prob > F	= 0.0652
Residual	98294146.7	93,786	1048.06844	R-squared	= 0.0000
				Adj R-squared	= 0.0000
Total	98297709	93,787	1048.09525	Root MSE	= 32.374

age	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	.4391845	.2382199	1.84	0.065	-.0277239	.9060929
_cons	50.1438	.1236922	405.39	0.000	49.90136	50.38624

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_HomeMean**
> s_CA0_750m_to_CA750_1500m.xlsx saved

```
915 .         *Note: First regression needed to get means from coefficients. Second regression
916 .         *       needed to give t-stat of whether statistically significant difference.
917 . *Second location attributes
918 .         *Note: Had to do separate b/c location attributes do not have missing dummy.
```

```
919 . putexcel set "$resultsfolder\ttests_CEMSample_LocationMeans_CA0_750m_to_CA750_1500m.xlsx", replace
    Note: File will be replaced when the first putexcel command is issued.

920 . putexcel A1="Variable" B1="Ctrl Grp Mean" C1="Trt Grp Mean" D1="tstat" E1="p-val"
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location
    > Means_CA0_750m_to_CA750_1500m.xlsx saved

921 .         *Note: Set up excel file to store test results.
922 . *list variables to be added
923 . local vars p_nbdev_2011_200 p_nbdev_2011_500 hwy500m /*lake500m river250m*/ ///
    >         cntTSD0_1500 cntTSD0_5000

924 . *initiate row for entering values into excel
925 . local r 2

926 . foreach v of local vars {
      2.         regress `v' dCA750_1500tmp dCA0_750 [aweight=cem_weights], noconst
      3.         putexcel A`r'="`v'"
      4.         putexcel B`r'=matrix(e(b))
      5.         regress `v' dCA0_750  [aweight=cem_weights]
      6.         putexcel D`r'=matrix(r(table)[3,1])
      7.         putexcel E`r'=matrix(r(table)[4,1])
      8.         local ++r /*adds one to row count*/
      9.         }
    (sum of wgt is 100,646.999999988)

      Source |       SS           df       MS      Number of obs   =   100,647
-------------+----------------------------------   F(2, 100645)    >  99999.00
       Model |  245896371         2   122948186   Prob > F        =    0.0000
    Residual |  89038873.4   100,645  884.682531   R-squared       =    0.7342
-------------+----------------------------------   Adj R-squared   =    0.7342
       Total |  334935245   100,647  3327.82144   Root MSE        =    29.744

------------------------------------------------------------------------------
p_nbdev_20~200 | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
dCA750_1500tmp |    49.3839   .109702   450.16   0.000     49.16888    49.59891
      dCA0_750 |   49.54838   .180563   274.41   0.000     49.19448    49.90229
------------------------------------------------------------------------------

    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location
    > Means_CA0_750m_to_CA750_1500m.xlsx saved
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location
    > Means_CA0_750m_to_CA750_1500m.xlsx saved
    (sum of wgt is 100,646.999999988)

      Source |       SS           df       MS      Number of obs   =   100,647
-------------+----------------------------------   F(1, 100645)    =      0.61
       Model |  536.238653         1  536.238653   Prob > F        =    0.4362
    Residual |  89038873.4   100,645  884.682531   R-squared       =    0.0000
-------------+----------------------------------   Adj R-squared   =   -0.0000
       Total |  89039409.6   100,646  884.679069   Root MSE        =    29.744

------------------------------------------------------------------------------
p_nbdev_~200 | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    dCA0_750 |   .1644885   .211276     0.78   0.436    -.2496098    .5785867
       _cons |    49.3839   .109702   450.16   0.000     49.16888    49.59891
------------------------------------------------------------------------------

    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location
    > Means_CA0_750m_to_CA750_1500m.xlsx saved
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location
    > Means_CA0_750m_to_CA750_1500m.xlsx saved
    (sum of wgt is 100,646.999999988)
```

Source	SS	df	MS	Number of obs	=	100,647
				F(2, 100645)	>	99999.00
Model	196788333	2	98394166.5	Prob > F	=	0.0000
Residual	54870714.4	100,645	545.190664	R-squared	=	0.7820
				Adj R-squared	=	0.7820
Total	251659047	100,647	2500.4128	Root MSE	=	23.349

p_nbdev_20~500	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA750_1500tmp	44.52983	.0861182	517.08	0.000	44.36104	44.69862
dCA0_750	43.362	.1417455	305.91	0.000	43.08419	43.63982

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location > Means_CA0_750m_to_CA750_1500m.xlsx** saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location > Means_CA0_750m_to_CA750_1500m.xlsx** saved
(sum of wgt is 100,646.999999988)

Source	SS	df	MS	Number of obs	=	100,647
				F(1, 100645)	=	49.58
Model	27029.9186	1	27029.9186	Prob > F	=	0.0000
Residual	54870714.4	100,645	545.190664	R-squared	=	0.0005
				Adj R-squared	=	0.0005
Total	54897744.3	100,646	545.453811	Root MSE	=	23.349

p_nbdev_~500	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	-1.167828	.1658558	-7.04	0.000	-1.492903	-.8427524
_cons	44.52983	.0861182	517.08	0.000	44.36104	44.69862

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location > Means_CA0_750m_to_CA750_1500m.xlsx** saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location > Means_CA0_750m_to_CA750_1500m.xlsx** saved
(sum of wgt is 100,646.999999988)

Source	SS	df	MS	Number of obs	=	100,647
				F(2, 100645)	=	55597.51
Model	27618.6092	2	13809.3046	Prob > F	=	0.0000
Residual	24998.197	100,645	.24837992	R-squared	=	0.5249
				Adj R-squared	=	0.5249
Total	52616.8062	100,647	.522785639	Root MSE	=	.49838

hwy500m	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA750_1500tmp	.502582	.0018381	273.42	0.000	.4989792	.5061847
dCA0_750	.5775198	.0030255	190.89	0.000	.5715899	.5834497

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location > Means_CA0_750m_to_CA750_1500m.xlsx** saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location > Means_CA0_750m_to_CA750_1500m.xlsx** saved
(sum of wgt is 100,646.999999988)

Source	SS	df	MS	Number of obs	=	100,647
				F(1, 100645)	=	448.10
Model	111.298546	1	111.298546	Prob > F	=	0.0000
Residual	24998.197	100,645	.24837992	R-squared	=	0.0044
				Adj R-squared	=	0.0044
Total	25109.4956	100,646	.249483293	Root MSE	=	.49838

hwy500m	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	.0749378	.0035401	21.17	0.000	.0679993	.0818764
_cons	.502582	.0018381	273.42	0.000	.4989792	.5061847

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 100,646.999999988)

Source	SS	df	MS		
				Number of obs	= 100,647
				F(2, 100645)	> 99999.00
Model	150186.44	2	75093.2199	Prob > F	= 0.0000
Residual	30404.5069	100,645	.302096546	R-squared	= 0.8316
				Adj R-squared	= 0.8316
Total	180590.947	100,647	1.79430034	Root MSE	= .54963

cntTSD0_1500	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA750_1500tmp	1.216876	.0020272	600.28	0.000	1.212902	1.220849
dCA0_750	1.234163	.0033366	369.88	0.000	1.227623	1.240702

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 100,646.999999988)

Source	SS	df	MS		
				Number of obs	= 100,647
				F(1, 100645)	= 19.61
Model	5.92268386	1	5.92268386	Prob > F	= 0.0000
Residual	30404.5069	100,645	.302096546	R-squared	= 0.0002
				Adj R-squared	= 0.0002
Total	30410.4295	100,646	.302152391	Root MSE	= .54963

cntTSD0_1500	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	.0172868	.0039042	4.43	0.000	.0096347	.024939
_cons	1.216876	.0020272	600.28	0.000	1.212902	1.220849

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 100,646.999999988)

Source	SS	df	MS		
				Number of obs	= 100,647
				F(2, 100645)	= 75115.62
Model	841902.837	2	420951.419	Prob > F	= 0.0000
Residual	564019.249	100,645	5.60404639	R-squared	= 0.5988
				Adj R-squared	= 0.5988
Total	1405922.09	100,647	13.9688425	Root MSE	= 2.3673

cntTSD0_5000	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA750_1500tmp	2.897506	.0087312	331.86	0.000	2.880393	2.914619
dCA0_750	2.877833	.014371	200.25	0.000	2.849666	2.906

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
(sum of wgt is 100,646.999999988)

Source	SS	df	MS		
				Number of obs	= 100,647
				F(1, 100645)	= 1.37
Model	7.67025077	1	7.67025077	Prob > F	= 0.2420
Residual	564019.249	100,645	5.60404639	R-squared	= 0.0000
				Adj R-squared	= 0.0000
Total	564026.92	100,646	5.60406692	Root MSE	= 2.3673

cntTSD0_5000	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
dCA0_750	-.0196726	.0168154	-1.17	0.242	-.0526306	.0132854
_cons	2.897506	.0087312	331.86	0.000	2.880393	2.914619

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_CEMSample_Location**
> Means_CA0_750m_to_CA750_1500m.xlsx saved

```
927 .
928 .
929 . ********************************************************************************
930 . ********************************************************************************
931 .
932 . *Compare covariates before and after treatment. Do this just for treated group.
933 . *       Generates estimates for Tables A15 in Appendix F.2 of final paper.
934 .
935 .
936 . *t-tests comparing before and after sales in treated (0-750m) zone.
937 . *bring in dataset
938 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m", clear

939 . count
  204,051

940 . *create treatment dummy for matching
941 . gen dCA0_750=0

942 . replace dCA0_750=1 if (dpreCA0_750+dmidCA0_750+dpostCA0_750)>0
(35,029 real changes made)

943 . tab dCA0_750
```

dCA0_750	Freq.	Percent	Cum.
0	169,022	82.83	82.83
1	35,029	17.17	100.00
Total	204,051	100.00	

```
944 . keep if dCA0_750==1
(169,022 observations deleted)

945 .
946 . *create TSD count variables
947 . gen cntTSD0_1500=cntTSD0_750+cntTSD750_1500

948 . *gen cntTSD0_5000=cntTSD0_2500+cntTSD2500_5000
949 .
950 .
951 . *Before versus After CA Opening
952 . *First house and lot attributes
953 . putexcel set "$resultsfolder\ttests_HouseMeans_CA0_750m_Pre_to_MidCA.xlsx", replace
Note: File will be replaced when the first putexcel command is issued.

954 . putexcel A1="Variable" B1="PreCA Grp Mean" C1="MidCA Grp Mean" D1="tstat" E1="p-val"
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved

955 .         *Note: Set up excel file to store test results.
956 . *list variables to be added
957 . local vars acres stories bathtot sqftstrc age

958 . *initiate row for entering values into excel
959 . local r 2

960 . foreach v of local vars {
  2.         ttest `v' if `v'_miss==0 & (dpreCA0_750+dmidCA0_750>0), by(dmidCA0_750) unequal
  3.         putexcel A`r'="`v'"
  4.         putexcel B`r'=`r(mu_1)'
  5.         putexcel C`r'=`r(mu_2)'
  6.         putexcel D`r'=`r(t)'
  7.         putexcel E`r'=`r(p)'
  8.         local ++r /*adds one to row count*/
  9.         }

Two-sample t test with unequal variances

   Group |      Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
       0 |    3,004    .1982085    .0030541    .1673915    .1922201    .2041968
       1 |   28,096    .2358493    .0013729    .2301161    .2331585    .2385402
---------+--------------------------------------------------------------------
Combined |   31,100    .2322136    .0012764    .2250949    .2297118    .2347153
---------+--------------------------------------------------------------------
    diff |            -.0376409    .0033485               -.0442056   -.0310761
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t = -11.2412
H0: diff = 0                     Satterthwaite's degrees of freedom =  4320.33

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	3,081	1.596423	.0105859	.5875889	1.575667	1.617179
1	24,310	1.418462	.0032588	.5080982	1.412074	1.424849
Combined	27,391	1.438479	.0031461	.5206824	1.432313	1.444646
diff		.1779617	.0110761		.1562457	.1996777

diff = mean(0) - mean(1) t = 16.0671
H0: diff = 0 Satterthwaite's degrees of freedom = 3687.23

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	2,696	1.733309	.0145598	.75599	1.704759	1.761858
1	20,191	1.726859	.0051146	.726753	1.716834	1.736883
Combined	22,887	1.727618	.004827	.7302438	1.718157	1.737079
diff		.0064501	.015432		-.0238069	.0367071

diff = mean(0) - mean(1) t = 0.4180
H0: diff = 0 Satterthwaite's degrees of freedom = 3394.25

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.6620 Pr(|T| > |t|) = 0.6760 Pr(T > t) = 0.3380
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	3,178	2796.924	30.73604	1732.706	2736.66	2857.189
1	27,153	3132.973	11.51339	1897.195	3110.406	3155.54
Combined	30,331	3097.763	10.81445	1883.423	3076.566	3118.959
diff		-336.0487	32.82167		-400.3969	-271.7005

diff = mean(0) - mean(1) t = -10.2386
H0: diff = 0 Satterthwaite's degrees of freedom = 4121.63

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	2,997	59.1635	.6489199	35.52503	57.89112	60.43587
1	26,692	48.32118	.2035122	33.24918	47.92229	48.72008
Combined	29,689	49.41568	.1952599	33.64425	49.03296	49.79839
diff		10.84231	.680084		9.508927	12.1757

diff = mean(0) - mean(1) t = 15.9426
H0: diff = 0 Satterthwaite's degrees of freedom = 3610.41

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Pre_to_MidCA.xlsx saved

```
961 .         *Note: Second part of if-statement needed because only want to compare covariates across
962 .         *       first treatment event here.
963 . *Second location attributes
964 .         *Note: Had to do separate b/c location attributes do not have missing dummy.
965 . putexcel set "$resultsfolder\ttests_LocationMeans_CA0_750m_Pre_to_MidCA.xlsx", replace
    Note: File will be replaced when the first putexcel command is issued.

966 . putexcel A1="Variable" B1="PreCA Grp Mean" C1="MidCA Grp Mean" D1="tstat" E1="p-val"
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
    > 750m_Pre_to_MidCA.xlsx saved

967 .         *Note: Set up excel file to store test results.
968 . *list variables to be added
969 . local vars rprice p_nbdev_2011_200 p_nbdev_2011_500 hwy500m /*lake500m river250m*/ ///
    >         cntTSD0_1500 cntTSD0_5000

970 . *initiate row for entering values into excel
971 . local r 2

972 . foreach v of local vars {
      2.         ttest `v' if (dpreCA0_750+dmidCA0_750>0), by(dmidCA0_750) unequal
      3.         putexcel A`r'="`v'"
      4.         putexcel B`r'=`r(mu_1)'
      5.         putexcel C`r'=`r(mu_2)'
      6.         putexcel D`r'=`r(t)'
      7.         putexcel E`r'=`r(p)'
      8.         local ++r /*adds one to row count*/
      9.         }

    Two-sample t test with unequal variances

------------------------------------------------------------------------------
   Group |     Obs        Mean    Std. err.   Std. dev.   [95% conf. interval]
---------+--------------------------------------------------------------------
       0 |   3,260    196924.5    3037.536    173432.4    190968.8    202880.2
       1 |  28,312    241903.5    1216.747    204731.9    239518.6    244288.4
---------+--------------------------------------------------------------------
Combined |  31,572    237259.1    1137.891    202186.3    235028.8    239489.5
---------+--------------------------------------------------------------------
    diff |           -44979.02     3272.17               -51394.13   -38563.91
------------------------------------------------------------------------------
    diff = mean(0) - mean(1)                                      t = -13.7459
H0: diff = 0                     Satterthwaite's degrees of freedom =  4375.79

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	3,260	51.28025	.5698741	32.53777	50.1629	52.39759
1	28,312	48.75223	.1693615	28.49706	48.42028	49.08419
Combined	31,572	49.01326	.1629291	28.95008	48.69392	49.33261
diff		2.528013	.5945081		1.362433	3.693593

diff = mean(0) - mean(1) t = 4.2523
H0: diff = 0 Satterthwaite's degrees of freedom = 3856.65

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	3,260	45.31696	.4758289	27.16812	44.38401	46.24992
1	28,312	42.35411	.1289816	21.70266	42.1013	42.60692
Combined	31,572	42.66004	.1257658	22.34671	42.41353	42.90655
diff		2.962855	.4930004		1.996281	3.92943

diff = mean(0) - mean(1) t = 6.0098
H0: diff = 0 Satterthwaite's degrees of freedom = 3753.19

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	3,260	.7131902	.0079224	.4523414	.6976568	.7287236
1	28,312	.5701116	.0029423	.4950687	.5643447	.5758786
Combined	31,572	.5848853	.0027732	.4927496	.5794498	.5903208
diff		.1430786	.0084511		.1265099	.1596472

diff = mean(0) - mean(1) t = 16.9301
H0: diff = 0 Satterthwaite's degrees of freedom = 4210.78

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	3,260	1.204601	.0075557	.4314041	1.189787	1.219416
1	28,312	1.235271	.0033779	.5683746	1.22865	1.241892
Combined	31,572	1.232104	.0031284	.5558691	1.225973	1.238236
diff		-.03067	.0082764		-.0468957	-.0144443

diff = mean(0) - mean(1) t = -3.7057
H0: diff = 0 Satterthwaite's degrees of freedom = 4670.47

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0001 Pr(|T| > |t|) = 0.0002 Pr(T > t) = 0.9999

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Pre_to_MidCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	3,260	2.869325	.0259135	1.479567	2.818517	2.920134
1	28,312	2.785391	.0142604	2.399475	2.75744	2.813342
Combined	31,572	2.794058	.0130655	2.321551	2.768449	2.819667
diff		.0839338	.0295781		.0259489	.1419187

diff = mean(0) - mean(1) t = 2.8377
H0: diff = 0 Satterthwaite's degrees of freedom = 5473.99

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9977 Pr(|T| > |t|) = 0.0046 Pr(T > t) = 0.0023

file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_750m_Pre_to_MidCA.xlsx** saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_750m_Pre_to_MidCA.xlsx** saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_750m_Pre_to_MidCA.xlsx** saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_750m_Pre_to_MidCA.xlsx** saved
file **C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_750m_Pre_to_MidCA.xlsx** saved

```
973 .
974 .
975 . *Before versus After CA Completion
976 . *First house and lot attributes
977 . putexcel set "$resultsfolder\ttests_HouseMeans_CA0_750m_Mid_to_PostCA.xlsx", replace
Note: File will be replaced when the first putexcel command is issued.

978 . putexcel A1="Variable" B1="MidCA Grp Mean" C1="PostCA Grp Mean" D1="tstat" E1="p-val"
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved

979 .         *Note: Set up excel file to store test results.
980 . *list variables to be added
981 . local vars acres stories bathtot sqftstrc age

982 . *initiate row for entering values into excel
983 . local r 2

984 . foreach v of local vars {
  2.         ttest `v' if `v'_miss==0 & (dmidCA0_750+dpostCA0_750>0), by(dpostCA0_750) unequal
  3.         putexcel A`r'="`v'"
  4.         putexcel B`r'=`r(mu_1)'
  5.         putexcel C`r'=`r(mu_2)'
  6.         putexcel D`r'=`r(t)'
  7.         putexcel E`r'=`r(p)'
  8.         local ++r /*adds one to row count*/
  9.         }
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	28,094	.235858	.0013729	.230122	.2331669	.238549
1	3,373	.2831929	.0048857	.2837511	.2736136	.2927722
Combined	31,467	.2409319	.0013355	.2369012	.2383143	.2435495
diff		-.047335	.005075		-.0572848	-.0373852

diff = mean(0) - mean(1) t = -9.3271
H0: diff = 0 Satterthwaite's degrees of freedom = 3922.64

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	24,308	1.418496	.003259	.508105	1.412108	1.424884
1	2,740	1.454901	.0103426	.5413859	1.434621	1.475182
Combined	27,048	1.422184	.0031112	.5116824	1.416086	1.428282
diff		-.0364055	.0108439		-.057667	-.015144

diff = mean(0) - mean(1) t = -3.3572
H0: diff = 0 Satterthwaite's degrees of freedom = 3306.23

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0004 Pr(|T| > |t|) = 0.0008 Pr(T > t) = 0.9996

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	20,191	1.726859	.0051146	.726753	1.716834	1.736883
1	2,708	1.684546	.0137017	.7130145	1.657679	1.711413
Combined	22,899	1.721855	.0047927	.7252552	1.712461	1.731249
diff		.0423127	.0146251		.0136381	.0709874

diff = mean(0) - mean(1) t = 2.8931
H0: diff = 0 Satterthwaite's degrees of freedom = 3504.81

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9981 Pr(|T| > |t|) = 0.0038 Pr(T > t) = 0.0019
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	27,151	3133.124	11.51374	1897.184	3110.556	3155.691
1	3,037	2960.011	30.13926	1660.944	2900.915	3019.106
Combined	30,188	3115.708	10.79422	1875.463	3094.551	3136.865
diff		173.1128	32.26362		109.858	236.3676

diff = mean(0) - mean(1) t = 5.3656
H0: diff = 0 Satterthwaite's degrees of freedom = 3977.32

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	26,690	48.32004	.2035257	33.25015	47.92112	48.71897
1	3,012	56.66501	.6504082	35.6955	55.38972	57.9403
Combined	29,702	49.16629	.1949615	33.60019	48.78415	49.54842
diff		-8.344962	.6815083		-9.68114	-7.008784

```
    diff = mean(0) - mean(1)                                      t = -12.2448
H0: diff = 0                     Satterthwaite's degrees of freedom =  3625.62

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_HouseMeans_CA0_750
> m_Mid_to_PostCA.xlsx saved

985 .         *Note: Second part of if-statement needed because only want to compare covariates across
986 .         *       first treatment event here.
987 . *Second location attributes
988 .         *Note: Had to do separate b/c location attributes do not have missing dummy.
989 . putexcel set "$resultsfolder\ttests_LocationMeans_CA0_750m_Mid_to_PostCA.xlsx", replace
    Note: File will be replaced when the first putexcel command is issued.

990 . putexcel A1="Variable" B1="MidCA Grp Mean" C1="PostCA Grp Mean" D1="tstat" E1="p-val"
    file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
    > 750m_Mid_to_PostCA.xlsx saved

991 .         *Note: Set up excel file to store test results.
992 . *list variables to be added
993 . local vars rprice p_nbdev_2011_200 p_nbdev_2011_500 hwy500m /*lake500m river250m*/ ///
    >         cntTSD0_1500 cntTSD0_5000

994 . *initiate row for entering values into excel
995 . local r 2

996 . foreach v of local vars {
      2.         ttest `v' if (dmidCA0_750+dpostCA0_750>0), by(dpostCA0_750) unequal
      3.         putexcel A`r'="`v'"
      4.         putexcel B`r'=`r(mu_1)'
      5.         putexcel C`r'=`r(mu_2)'
      6.         putexcel D`r'=`r(t)'
      7.         putexcel E`r'=`r(p)'
      8.         local ++r /*adds one to row count*/
      9.         }
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	28,310	241904.3	1216.833	204739.1	239519.2	244289.3
1	3,459	187915.6	2552.597	150126.5	182910.8	192920.3
Combined	31,769	236026	1123.354	200225	233824.2	238227.8
diff		53988.7	2827.796		48445.02	59532.37

```
    diff = mean(0) - mean(1)                                      t =  19.0921
H0: diff = 0                     Satterthwaite's degrees of freedom =  5175.56

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 1.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 0.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	28,310	48.75488	.1693631	28.49632	48.42292	49.08684
1	3,459	56.50902	.4364466	25.66885	55.6533	57.36474
Combined	31,769	49.59915	.1588045	28.30509	49.28789	49.91041
diff		-7.754138	.4681555		-8.671949	-6.836327

```
    diff = mean(0) - mean(1)                                      t = -16.5632
H0: diff = 0                     Satterthwaite's degrees of freedom =   4565.2

    Ha: diff < 0                 Ha: diff != 0                 Ha: diff > 0
 Pr(T < t) = 0.0000         Pr(|T| > |t|) = 0.0000          Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
```

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	28,310	42.35664	.1289782	21.70133	42.10384	42.60944
1	3,459	47.84695	.341909	20.10879	47.17659	48.51731
Combined	31,769	42.95442	.1211923	21.60115	42.71688	43.19197
diff		-5.490309	.3654274		-6.206726	-4.773892

diff = mean(0) - mean(1) t = -15.0244
H0: diff = 0 Satterthwaite's degrees of freedom = 4501.05

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	28,310	.5700812	.0029424	.495073	.564314	.5758485
1	3,459	.5550737	.008451	.4970295	.5385043	.5716431
Combined	31,769	.5684472	.0027789	.4953006	.5630006	.5738939
diff		.0150075	.0089486		-.0025362	.0325513

diff = mean(0) - mean(1) t = 1.6771
H0: diff = 0 Satterthwaite's degrees of freedom = 4339.4

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9532 Pr(|T| > |t|) = 0.0936 Pr(T > t) = 0.0468
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	28,310	1.235147	.003377	.568201	1.228527	1.241766
1	3,459	1.164788	.0069879	.4109797	1.151087	1.178488
Combined	31,769	1.227486	.0031064	.5536832	1.221397	1.233575
diff		.0703591	.0077611		.0551441	.0855741

diff = mean(0) - mean(1) t = 9.0656
H0: diff = 0 Satterthwaite's degrees of freedom = 5227

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved

Two-sample t test with unequal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf.	interval]
0	28,310	2.785235	.014261	2.399488	2.757283	2.813187
1	3,459	1.985256	.0252669	1.48603	1.935716	2.034795
Combined	31,769	2.698133	.0130774	2.330904	2.672501	2.723766
diff		.799979	.0290136		.7431017	.8568563

diff = mean(0) - mean(1) t = 27.5725
H0: diff = 0 Satterthwaite's degrees of freedom = 5938.48

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved
file C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\ttests_LocationMeans_CA0_
> 750m_Mid_to_PostCA.xlsx saved

```
 997 .
 998 .
 999 . *END
1000 .
1001 .
1002 .
1003 .
1004 .
1005 .
1006 .
1007 .
```
end of do-file

```
1008 .
1009 . *STEP 6: Parallel trends graphs
1010 . cd "$dofile_folder"
```
C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis

```
1011 . do analysis_RCRABenefits_Step6_ParallelTrendsGraphs.do

1012 . *RCRA Nationwide Hedonic Study
1013 . *Parallel trends graphs
1014 . *Created: 5/26/2020
1015 . *Created by: Dennis Guignet
1016 . *Last Revised: 12/02/2022
1017 . *Last Revised by: Dennis Guignet
1018 .
1019 . ********************************************************************************
1020 .
1021 . *This do-file takes the completed transaction dataset of all contiguous US transactions
1022 . *       within five kilometers of a TSD facility under RCRA, generates estimates for
1023 . *       event study graphs to examine parallel trends assumption. This includes
1024 . *       Figure 5 in the main text, as well as Figures XXXXXXXXX.
1025 .
1026 . ********************************************************************************
1027 . ********************************************************************************
1028 .
1029 .
1030 . *set empty cells for factor variables to drop
1031 . set emptycells drop

1032 . clear all

1033 . *increase max variables allowed b/c factor variables
1034 . set maxvar 100000


1035 .
1036 . *set key global variable groups
1037 .
1038 . *house structure and local neighborhood vars
1039 . global house lnacres lnacres_miss stories stories_miss bathtot bathtot_miss lnsqft ///
     >         lnsqft_miss age agesq age_miss p_nbdev_2011_200 p_nbdev_2011_500 hwy500m
```

```
1040 .
1041 . *set directory for results
1042 . cd "$resultsfolder"
     C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05

1043 .
1044 . ********************************************************************************
1045 .
1046 . *Create event study graphs corresponding to Figure 5 in main text of final paper.
1047 .
1048 . *Bring in dataset of homes w/in 5km of CA to estimate a variant of Model 4 w/
1049 . *       lead and lag coefficients.
1050 . use "$salesfolder\All_Sales_Final_Cleaned_CA5k", replace

1051 . count
       2,538,344

1052 .
1053 .
1054 . *Set corresponding global variables
1055 . *code up global variables for TSD control group counts
1056 . local vars  cntTSD

1057 . foreach v of local vars {
       2.         global `v' `v'0_250 `v'250_500 `v'500_750 `v'750_1000 ///
     >                `v'1000_1250 `v'1250_1500 `v'1500_1750 `v'1750_2000 ///
     >                `v'2000_2250 `v'2250_2500 `v'2500_2750 `v'2750_3000 ///
     >                `v'3000_3250 `v'3250_3500 `v'3500_3750 `v'3750_4000 ///
     >                `v'4000_4250 `v'4250_4500 `v'4500_4750 `v'4750_5000
       3.         }

1058 .
1059 . *repeat above variant of model 2 in final paper, but w/ 5-year incremental window
1060 . *       for lead and lag estimates.
1061 . local bins 0_750 750_1500

1062 . foreach b of local bins {
       2.         global CAopenleads`b'  dCAopen`b'_preyr20_15 dCAopen`b'_preyr15_10 ///
     >                dCAopen`b'_preyr10_5 dCAopen`b'_preyr5_0
       3.         global CAopenlags`b'  dCAopen`b'_postyr0_5 dCAopen`b'_postyr5_10 ///
     >                dCAopen`b'_postyr10_15 dCAopen`b'_postyr15_20 dCAopen`b'_postyr20_25 ///
     >                dCAopen`b'_postyr25_30 dCAopen`b'_postyr30_35
       4.         global CAendleads`b'  dCAend`b'_preyr20_15 dCAend`b'_preyr15_10 ///
     >                dCAend`b'_preyr10_5 dCAend`b'_preyr5_0
       5.         global CAendlags`b' dCAend`b'_postyr0_5 dCAend`b'_postyr5_10 ///
     >                dCAend`b'_postyr10_15 dCAend`b'_postyr15_20 dCAend`b'_postyr20_25
       6.         }

1063 .
1064 . reghdfe lnrprice $cntTSD $CAopenleads0_750 $CAopenlags0_750 $CAopenleads750_1500 $CAopenlags750_1500 ///
     >         $CAendleads0_750 $CAendlags0_750 $CAendleads750_1500 $CAendlags750_1500, ///
     >         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
     >         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
     (dropped 675 singleton observations)
     (MWFE estimator converged in 1806 iterations)
     warning: missing F statistic; dropped variables due to collinearity or too few clusters

     HDFE Linear regression                            Number of obs   =  2,537,669
     Absorbing 4 HDFE groups                           F(  60,    376) =          .
     Statistics robust to heteroskedasticity           Prob > F        =          .
                                                       R-squared       =     0.7907
                                                       Adj R-squared   =     0.7842
                                                       Within R-sq.    =     0.0007
     Number of clusters (mycntyid) =        377        Root MSE        =     0.3910
```

(Std. err. adjusted for **377** clusters in **mycntyid**)

lnrprice	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
cntTSD0_250	-.0968847	.0177324	-5.46	0.000	-.1317519	-.0620175
cntTSD250_500	-.0627735	.0141108	-4.45	0.000	-.0905194	-.0350276
cntTSD500_750	-.0540075	.0103157	-5.24	0.000	-.0742913	-.0337238
cntTSD750_1000	-.0460956	.0094739	-4.87	0.000	-.064724	-.0274671
cntTSD1000_1250	-.0385024	.007883	-4.88	0.000	-.0540028	-.0230021
cntTSD1250_1500	-.0348846	.0073964	-4.72	0.000	-.0494281	-.0203411
cntTSD1500_1750	-.0318681	.0059099	-5.39	0.000	-.0434888	-.0202475
cntTSD1750_2000	-.028872	.0061185	-4.72	0.000	-.0409027	-.0168412
cntTSD2000_2250	-.0253015	.0048122	-5.26	0.000	-.0347637	-.0158392
cntTSD2250_2500	-.0224827	.0054179	-4.15	0.000	-.0331358	-.0118297
cntTSD2500_2750	-.020714	.0054229	-3.82	0.000	-.031377	-.0100509
cntTSD2750_3000	-.0186589	.0047555	-3.92	0.000	-.0280095	-.0093082
cntTSD3000_3250	-.0151989	.0039172	-3.88	0.000	-.0229012	-.0074965
cntTSD3250_3500	-.0130443	.0042875	-3.04	0.003	-.0214749	-.0046138
cntTSD3500_3750	-.0105577	.0040573	-2.60	0.010	-.0185356	-.0025798
cntTSD3750_4000	-.0084739	.0038011	-2.23	0.026	-.0159479	-.0009999
cntTSD4000_4250	-.005763	.0036884	-1.56	0.119	-.0130155	.0014895
cntTSD4250_4500	-.0067604	.003726	-1.81	0.070	-.0140868	.000566
cntTSD4500_4750	-.0040065	.0033426	-1.20	0.231	-.0105791	.0025661
cntTSD4750_5000	-.0013343	.0028888	-0.46	0.644	-.0070144	.0043459
dCAopen0_750_preyr20_15	.0870918	.031009	2.81	0.005	.0261189	.1480647
dCAopen0_750_preyr15_10	.0284383	.0358368	0.79	0.428	-.0420275	.098904
dCAopen0_750_preyr10_5	.0436061	.0436006	1.00	0.318	-.0421255	.1293377
dCAopen0_750_preyr5_0	.0256077	.032854	0.78	0.436	-.0389929	.0902083
dCAopen0_750_postyr0_5	.0328879	.0231826	1.42	0.157	-.0126959	.0784717
dCAopen0_750_postyr5_10	-.0027762	.0194164	-0.14	0.886	-.0409544	.0354021
dCAopen0_750_postyr10_15	-.0189613	.0138831	-1.37	0.173	-.0462595	.0083369
dCAopen0_750_postyr15_20	-.0399876	.0228194	-1.75	0.081	-.0848573	.0048821
dCAopen0_750_postyr20_25	-.0367831	.0175978	-2.09	0.037	-.0713855	-.0021807
dCAopen0_750_postyr25_30	-.0174749	.0210404	-0.83	0.407	-.0588465	.0238967
dCAopen0_750_postyr30_35	-.072661	.0342602	-2.12	0.035	-.1400266	-.0052954
dCAopen750_1500_preyr2~15	.1196436	.0141672	8.45	0.000	.0917868	.1475004
dCAopen750_1500_preyr1~10	.0295977	.0193832	1.53	0.128	-.0085153	.0677107
dCAopen750_1500_preyr10_5	.0107451	.0191015	0.56	0.574	-.0268139	.0483042
dCAopen750_1500_preyr5_0	-.0120355	.0159853	-0.75	0.452	-.0434672	.0193962
dCAopen750_1500_postyr0_5	-.0031444	.0097555	-0.32	0.747	-.0223266	.0160378
dCAopen750_1500_postyr~10	-.004354	.0084837	-0.51	0.608	-.0210354	.0123274
dCAopen750_1500_postyr~15	.0005401	.0085445	0.06	0.950	-.0162609	.017341
dCAopen750_1500_postyr~20	-.014466	.0088038	-1.64	0.101	-.0317769	.0028449
dCAopen750_1500_postyr~25	-.0034617	.0106273	-0.33	0.745	-.024358	.0174346
dCAopen750_1500_postyr~30	.0134483	.0127879	1.05	0.294	-.0116964	.0385931
dCAopen750_1500_postyr~35	-.024417	.0327037	-0.75	0.456	-.0887222	.0398881
dCAend0_750_preyr20_15	.0333906	.0336633	0.99	0.322	-.0328012	.0995824
dCAend0_750_preyr15_10	.0252702	.0281149	0.90	0.369	-.030012	.0805525
dCAend0_750_preyr10_5	.025046	.034621	0.72	0.470	-.0430291	.093121
dCAend0_750_preyr5_0	.0530557	.0321196	1.65	0.099	-.0101009	.1162124
dCAend0_750_postyr0_5	.0615092	.0230808	2.66	0.008	.0161255	.1068929
dCAend0_750_postyr5_10	.0795722	.0335023	2.38	0.018	.0136968	.1454476
dCAend0_750_postyr10_15	.0287739	.0398825	0.72	0.471	-.0496469	.1071946
dCAend0_750_postyr15_20	.0871521	.0324404	2.69	0.008	.0233648	.1509395
dCAend0_750_postyr20_25	.1248119	.1147966	1.09	0.278	-.1009119	.3505357
dCAend750_1500_preyr20_15	-.0066738	.0272617	-0.24	0.807	-.0602784	.0469307
dCAend750_1500_preyr15_10	-.0127128	.0240238	-0.53	0.597	-.0599505	.034525
dCAend750_1500_preyr10_5	-.0014759	.0146096	-0.10	0.920	-.0302027	.0272508
dCAend750_1500_preyr5_0	-.0005165	.0143127	-0.04	0.971	-.0286595	.0276264
dCAend750_1500_postyr0_5	-.0014865	.0147164	-0.10	0.920	-.0304233	.0274503
dCAend750_1500_postyr5_10	-.0046405	.0217077	-0.21	0.831	-.0473241	.0380431
dCAend750_1500_postyr1~15	-.0286408	.0245296	-1.17	0.244	-.0768732	.0195917
dCAend750_1500_postyr1~20	-.0232744	.0257562	-0.90	0.367	-.0739187	.0273699
dCAend750_1500_postyr2~25	.0144368	.0440221	0.33	0.743	-.0721236	.1009972

_cons	**12.16427**	**.0078348**	**1552.60**	**0.000**	**12.14887**	**12.17968**

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	5582	5582	**0**	*
mycntyid#quarter	1448	1448	**0**	*
mytractid	6854	0	**6854**	
mycntyid#tranyr#c.lnacres	5582	15	**5567**	?
mycntyid#tranyr#c.lnacres_miss	5582	4407	**1175**	?
mycntyid#tranyr#c.stories	5582	645	**4937**	?
mycntyid#tranyr#c.stories_miss	5582	1723	**3859**	?
mycntyid#tranyr#c.bathtot	5582	1404	**4178**	?
mycntyid#tranyr#c.bathtot_miss	5582	1423	**4159**	?
mycntyid#tranyr#c.lnsqft	5582	362	**5220**	?
mycntyid#tranyr#c.lnsqft_miss	5582	2812	**2770**	?
mycntyid#tranyr#c.age	5582	360	**5222**	?
mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1529	**4053**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
1065 . eststo m4_trends5yr

1066 . estimates save "$raw_resultsfolder\m4_trends5yr", replace
```
file **D:\RCRA_benefits2\model_estimates2023_05\m4_trends5yr.ster** saved

```
1067 .
1068 . *export trend table and graph
1069 . esttab m4_trends5yr using EventStudy_CoefEstimates_Model4_5yrforTable.csv, replace label ///
>         csv compress nogaps nolines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll) ///
>         keep($CAopenleads0_750 $CAopenlags0_750 $CAopenleads750_1500 $CAopenlags750_1500 ///
>         $CAendleads0_750 $CAendlags0_750 $CAendleads750_1500 $CAendlags750_1500)
```
(output written to EventStudy_CoefEstimates_Model4_5yrforTable.csv)

```
1070 .
1071 . esttab m4_trends5yr using EventStudy_CoefEstimates_Model4_5yrforGraph.csv, replace label ///
>         plain csv compress nogaps nolines nostar b(4) ci(4) wide noparentheses ///
>         keep($CAopenleads0_750 $CAopenlags0_750 $CAopenleads750_1500 $CAopenlags750_1500 ///
>         $CAendleads0_750 $CAendlags0_750 $CAendleads750_1500 $CAendlags750_1500)
```
(output written to EventStudy_CoefEstimates_Model4_5yrforGraph.csv)

```
1072 .
1073 . *test to see if pre-trends parallel - i.e., are differences equal
1074 . estimates use "$raw_resultsfolder\m4_trends5yr"

1075 . reghdfe
```

HDFE Linear regression — Number of obs = **2,537,669**
Absorbing 4 HDFE groups — F(60, 376) = **.**
Statistics robust to heteroskedasticity — Prob > F = **.**
R-squared = **0.7907**
Adj R-squared = **0.7842**
Within R-sq. = **0.0007**
Number of clusters (**mycntyid**) = **377** — Root MSE = **0.3910**

(Std. err. adjusted for **377** clusters in **mycntyid**)

lnrprice	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
cntTSD0_250	-.0968847	.0177324	-5.46	0.000	-.1317519	-.0620175
cntTSD250_500	-.0627735	.0141108	-4.45	0.000	-.0905194	-.0350276
cntTSD500_750	-.0540075	.0103157	-5.24	0.000	-.0742913	-.0337238
cntTSD750_1000	-.0460956	.0094739	-4.87	0.000	-.064724	-.0274671
cntTSD1000_1250	-.0385024	.007883	-4.88	0.000	-.0540028	-.0230021
cntTSD1250_1500	-.0348846	.0073964	-4.72	0.000	-.0494281	-.0203411
cntTSD1500_1750	-.0318681	.0059099	-5.39	0.000	-.0434888	-.0202475
cntTSD1750_2000	-.028872	.0061185	-4.72	0.000	-.0409027	-.0168412
cntTSD2000_2250	-.0253015	.0048122	-5.26	0.000	-.0347637	-.0158392
cntTSD2250_2500	-.0224827	.0054179	-4.15	0.000	-.0331358	-.0118297
cntTSD2500_2750	-.020714	.0054229	-3.82	0.000	-.031377	-.0100509
cntTSD2750_3000	-.0186589	.0047555	-3.92	0.000	-.0280095	-.0093082
cntTSD3000_3250	-.0151989	.0039172	-3.88	0.000	-.0229012	-.0074965
cntTSD3250_3500	-.0130443	.0042875	-3.04	0.003	-.0214749	-.0046138
cntTSD3500_3750	-.0105577	.0040573	-2.60	0.010	-.0185356	-.0025798
cntTSD3750_4000	-.0084739	.0038011	-2.23	0.026	-.0159479	-.0009999
cntTSD4000_4250	-.005763	.0036884	-1.56	0.119	-.0130155	.0014895
cntTSD4250_4500	-.0067604	.003726	-1.81	0.070	-.0140868	.000566
cntTSD4500_4750	-.0040065	.0033426	-1.20	0.231	-.0105791	.0025661
cntTSD4750_5000	-.0013343	.0028888	-0.46	0.644	-.0070144	.0043459
dCAopen0_750_preyr20_15	.0870918	.031009	2.81	0.005	.0261189	.1480647
dCAopen0_750_preyr15_10	.0284383	.0358368	0.79	0.428	-.0420275	.098904
dCAopen0_750_preyr10_5	.0436061	.0436006	1.00	0.318	-.0421255	.1293377
dCAopen0_750_preyr5_0	.0256077	.032854	0.78	0.436	-.0389929	.0902083
dCAopen0_750_postyr0_5	.0328879	.0231826	1.42	0.157	-.0126959	.0784717
dCAopen0_750_postyr5_10	-.0027762	.0194164	-0.14	0.886	-.0409544	.0354021
dCAopen0_750_postyr10_15	-.0189613	.0138831	-1.37	0.173	-.0462595	.0083369
dCAopen0_750_postyr15_20	-.0399876	.0228194	-1.75	0.081	-.0848573	.0048821
dCAopen0_750_postyr20_25	-.0367831	.0175978	-2.09	0.037	-.0713855	-.0021807
dCAopen0_750_postyr25_30	-.0174749	.0210404	-0.83	0.407	-.0588465	.0238967
dCAopen0_750_postyr30_35	-.072661	.0342602	-2.12	0.035	-.1400266	-.0052954
dCAopen750_1500_preyr2~15	.1196436	.0141672	8.45	0.000	.0917868	.1475004
dCAopen750_1500_preyr1~10	.0295977	.0193832	1.53	0.128	-.0085153	.0677107
dCAopen750_1500_preyr10_5	.0107451	.0191015	0.56	0.574	-.0268139	.0483042
dCAopen750_1500_preyr5_0	-.0120355	.0159853	-0.75	0.452	-.0434672	.0193962
dCAopen750_1500_postyr0_5	-.0031444	.0097555	-0.32	0.747	-.0223266	.0160378
dCAopen750_1500_postyr~10	-.004354	.0084837	-0.51	0.608	-.0210354	.0123274
dCAopen750_1500_postyr~15	.0005401	.0085445	0.06	0.950	-.0162609	.017341
dCAopen750_1500_postyr~20	-.014466	.0088038	-1.64	0.101	-.0317769	.0028449
dCAopen750_1500_postyr~25	-.0034617	.0106273	-0.33	0.745	-.024358	.0174346
dCAopen750_1500_postyr~30	.0134483	.0127879	1.05	0.294	-.0116964	.0385931
dCAopen750_1500_postyr~35	-.024417	.0327037	-0.75	0.456	-.0887222	.0398881
dCAend0_750_preyr20_15	.0333906	.0336633	0.99	0.322	-.0328012	.0995824
dCAend0_750_preyr15_10	.0252702	.0281149	0.90	0.369	-.030012	.0805525
dCAend0_750_preyr10_5	.025046	.034621	0.72	0.470	-.0430291	.093121
dCAend0_750_preyr5_0	.0530557	.0321196	1.65	0.099	-.0101009	.1162124
dCAend0_750_postyr0_5	.0615092	.0230808	2.66	0.008	.0161255	.1068929
dCAend0_750_postyr5_10	.0795722	.0335023	2.38	0.018	.0136968	.1454476
dCAend0_750_postyr10_15	.0287739	.0398825	0.72	0.471	-.0496469	.1071946
dCAend0_750_postyr15_20	.0871521	.0324404	2.69	0.008	.0233648	.1509395
dCAend0_750_postyr20_25	.1248119	.1147966	1.09	0.278	-.1009119	.3505357
dCAend750_1500_preyr20_15	-.0066738	.0272617	-0.24	0.807	-.0602784	.0469307
dCAend750_1500_preyr15_10	-.0127128	.0240238	-0.53	0.597	-.0599505	.034525
dCAend750_1500_preyr10_5	-.0014759	.0146096	-0.10	0.920	-.0302027	.0272508
dCAend750_1500_preyr5_0	-.0005165	.0143127	-0.04	0.971	-.0286595	.0276264
dCAend750_1500_postyr0_5	-.0014865	.0147164	-0.10	0.920	-.0304233	.0274503
dCAend750_1500_postyr5_10	-.0046405	.0217077	-0.21	0.831	-.0473241	.0380431
dCAend750_1500_postyr1~15	-.0286408	.0245296	-1.17	0.244	-.0768732	.0195917
dCAend750_1500_postyr1~20	-.0232744	.0257562	-0.90	0.367	-.0739187	.0273699
dCAend750_1500_postyr2~25	.0144368	.0440221	0.33	0.743	-.0721236	.1009972

_cons	**12.16427**	**.0078348**	**1552.60**	**0.000**	**12.14887**	**12.17968**

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	5582	5582	**0**	*
mycntyid#quarter	1448	1448	**0**	*
mytractid	6854	0	**6854**	
mycntyid#tranyr#c.lnacres	5582	15	**5567**	?
mycntyid#tranyr#c.lnacres_miss	5582	4407	**1175**	?
mycntyid#tranyr#c.stories	5582	645	**4937**	?
mycntyid#tranyr#c.stories_miss	5582	1723	**3859**	?
mycntyid#tranyr#c.bathtot	5582	1404	**4178**	?
mycntyid#tranyr#c.bathtot_miss	5582	1423	**4159**	?
mycntyid#tranyr#c.lnsqft	5582	362	**5220**	?
mycntyid#tranyr#c.lnsqft_miss	5582	2812	**2770**	?
mycntyid#tranyr#c.age	5582	360	**5222**	?
mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1529	**4053**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
1076 . eststo m4_trends5yr

1077 . *CA Opening
1078 . testnl _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] ///
     >         =_b[dCAopen0_750_preyr15_10]-_b[dCAopen750_1500_preyr15_10] ///
     >         =_b[dCAopen0_750_preyr10_5]-_b[dCAopen750_1500_preyr10_5] ///
     >         =_b[dCAopen0_750_preyr5_0]-_b[dCAopen750_1500_preyr5_0]

      (1)  _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] = _b[dCAopen0_750_preyr15_10]-_b[dCAopen750_
     > 1500_preyr15_10]
      (2)  _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] = _b[dCAopen0_750_preyr10_5]-_b[dCAopen750_1
     > 500_preyr10_5]
      (3)  _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] = _b[dCAopen0_750_preyr5_0]-_b[dCAopen750_15
     > 00_preyr5_0]

                  chi2(3) =        5.94
                Prob > chi2 =        0.1146

1079 .         *Note: Fail to reject null hypothesis that differences are statistically equal
1080 .         *       (chi2(3)=5.94, p=0.1146).
1081 . test _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] ///
     >         =_b[dCAopen0_750_preyr15_10]-_b[dCAopen750_1500_preyr15_10] ///
     >         =_b[dCAopen0_750_preyr10_5]-_b[dCAopen750_1500_preyr10_5] ///
     >         =_b[dCAopen0_750_preyr5_0]-_b[dCAopen750_1500_preyr5_0]

      ( 1)  dCAopen0_750_preyr20_15 - dCAopen0_750_preyr15_10 - dCAopen750_1500_preyr20_15 +
            dCAopen750_1500_preyr15_10 = 0
      ( 2)  dCAopen0_750_preyr20_15 - dCAopen0_750_preyr10_5 - dCAopen750_1500_preyr20_15 +
            dCAopen750_1500_preyr10_5 = 0
      ( 3)  dCAopen0_750_preyr20_15 - dCAopen0_750_preyr5_0 - dCAopen750_1500_preyr20_15 + dCAopen750_1500_preyr5_0
            = 0

            F(  3,   376) =    1.98
                 Prob > F =    0.1166
```

```
1082 .         *Note: Fail to reject null hypothesis that differences are statistically equal
1083 .         *       (F(3, 376)=1.98, p=0.1166).
1084 .
1085 . *CA Completion
1086 . testnl _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] ///
     >         =_b[dCAend0_750_preyr15_10]-_b[dCAend750_1500_preyr15_10] ///
     >         =_b[dCAend0_750_preyr10_5]-_b[dCAend750_1500_preyr10_5] ///
     >         =_b[dCAend0_750_preyr5_0]-_b[dCAend750_1500_preyr5_0]

       (1)  _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] = _b[dCAend0_750_preyr15_10]-_b[dCAend750_1500
     > _preyr15_10]
       (2)  _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] = _b[dCAend0_750_preyr10_5]-_b[dCAend750_1500_
     > preyr10_5]
       (3)  _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] = _b[dCAend0_750_preyr5_0]-_b[dCAend750_1500_p
     > reyr5_0]

                   chi2(3) =        1.28
                 Prob > chi2 =        0.7344

1087 .         *Note: Fail to reject null hypothesis that differences are statistically equal
1088 .         *       (chi2(3)=1.28, p=0.7344).
1089 . test _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] ///
     >         =_b[dCAend0_750_preyr15_10]-_b[dCAend750_1500_preyr15_10] ///
     >         =_b[dCAend0_750_preyr10_5]-_b[dCAend750_1500_preyr10_5] ///
     >         =_b[dCAend0_750_preyr5_0]-_b[dCAend750_1500_preyr5_0]

      ( 1)  dCAend0_750_preyr20_15 - dCAend0_750_preyr15_10 - dCAend750_1500_preyr20_15 + dCAend750_1500_preyr15_10
            = 0
      ( 2)  dCAend0_750_preyr20_15 - dCAend0_750_preyr10_5 - dCAend750_1500_preyr20_15 + dCAend750_1500_preyr10_5 =
            0
      ( 3)  dCAend0_750_preyr20_15 - dCAend0_750_preyr5_0 - dCAend750_1500_preyr20_15 + dCAend750_1500_preyr5_0 = 0

           F(  3,   376) =    0.43
                Prob > F =    0.7345

1090 .         *Note: Fail to reject null hypothesis that differences are statistically equal
1091 .         *       (chi2(3)=1.28, p=0.7344).
1092 .
1093 . *The estimates derived here from the initial regression estimates are what is used
1094 . *       to later populate Panel (b) of Figure 5 in main text.
1095 . eststo m4_trends5yrCAend_diffs_end: nlcom ///
     >         (diffpreyr20_15: _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15]) ///
     >         (diffpreyr15_10: _b[dCAend0_750_preyr15_10]-_b[dCAend750_1500_preyr15_10]) ///
     >         (diffpreyr10_5: _b[dCAend0_750_preyr10_5]-_b[dCAend750_1500_preyr10_5]) ///
     >         (diffpreyr5_0: _b[dCAend0_750_preyr5_0]-_b[dCAend750_1500_preyr5_0]) ///
     >         (diffpostyr0_5: _b[dCAend0_750_postyr0_5]-_b[dCAend750_1500_postyr0_5]) ///
     >         (diffpostyr5_10: _b[dCAend0_750_postyr5_10]-_b[dCAend750_1500_postyr5_10]) ///
     >         (diffpostyr10_15: _b[dCAend0_750_postyr10_15]-_b[dCAend750_1500_postyr10_15]) ///
     >         (diffpostyr15_20: _b[dCAend0_750_postyr15_20]-_b[dCAend750_1500_postyr15_20]) ///
     >         (diffpostyr20_25: _b[dCAend0_750_postyr20_25]-_b[dCAend750_1500_postyr20_25]),  post

     diffpreyr~15: _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15]
     diffpreyr~10: _b[dCAend0_750_preyr15_10]-_b[dCAend750_1500_preyr15_10]
     diffpreyr1~5: _b[dCAend0_750_preyr10_5]-_b[dCAend750_1500_preyr10_5]
     diffpreyr5_0: _b[dCAend0_750_preyr5_0]-_b[dCAend750_1500_preyr5_0]
     diffpostyr~5: _b[dCAend0_750_postyr0_5]-_b[dCAend750_1500_postyr0_5]
     diffposty~10: _b[dCAend0_750_postyr5_10]-_b[dCAend750_1500_postyr5_10]
     diffposty~15: _b[dCAend0_750_postyr10_15]-_b[dCAend750_1500_postyr10_15]
     diffposty~20: _b[dCAend0_750_postyr15_20]-_b[dCAend750_1500_postyr15_20]
     diffposty~25: _b[dCAend0_750_postyr20_25]-_b[dCAend750_1500_postyr20_25]
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
diffpreyr20_15	.0400644	.0296875	1.35	0.177	-.018122	.0982508
diffpreyr15_10	.037983	.0238895	1.59	0.112	-.0088395	.0848055
diffpreyr10_5	.0265219	.0326113	0.81	0.416	-.037395	.0904388
diffpreyr5_0	.0535723	.0305284	1.75	0.079	-.0062623	.1134069
diffpostyr0_5	.0629957	.0208243	3.03	0.002	.0221809	.1038105
diffpostyr5_10	.0842126	.031047	2.71	0.007	.0233617	.1450636
diffpostyr10_15	.0574147	.0440008	1.30	0.192	-.0288254	.1436547
diffpostyr15_20	.1104265	.030168	3.66	0.000	.0512983	.1695548
diffpostyr20_25	.1103751	.1099208	1.00	0.315	-.1050657	.3258159

```
1096 .
1097 . test _b[diffpreyr20_15]=_b[diffpreyr15_10]=_b[diffpreyr10_5]=_b[diffpreyr5_0]

 ( 1)  diffpreyr20_15 - diffpreyr15_10 = 0
 ( 2)  diffpreyr20_15 - diffpreyr10_5 = 0
 ( 3)  diffpreyr20_15 - diffpreyr5_0 = 0

           chi2(  3) =    1.28
         Prob > chi2 =    0.7344

1098 .
1099 . *export trend table and graph
1100 . esttab m4_trends5yrCAend_diffs_end using "$resultsfolder\EventStudy_CoefEstDiffs_CAEnd_Model4_5yrforTable.cs
> v", replace label ///
>         csv compress nogaps nolines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
(output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\EventStudy
> CoefEstDiffs_CAEnd_Model4_5yrforTable.csv)

1101 . esttab m4_trends5yrCAend_diffs_end using "$resultsfolder\EventStudy_CoefEstDiffs_CAEnd_Model4_5yrforGraph.cs
> v", replace label ///
>         plain csv compress nogaps nolines nostar b(4) ci(4) wide noparentheses
(output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\EventStudy
> CoefEstDiffs_CAEnd_Model4_5yrforGraph.csv)

1102 .
1103 . *Do same but with CA opened.
1104 . estimates use "$raw_resultsfolder\m4_trends5yr"

1105 . reghdfe

HDFE Linear regression                          Number of obs   =  2,537,669
Absorbing 4 HDFE groups                         F(  60,    376) =          .
Statistics robust to heteroskedasticity         Prob > F        =          .
                                                R-squared       =     0.7907
                                                Adj R-squared   =     0.7842
                                                Within R-sq.    =     0.0007
Number of clusters (mycntyid) =        377      Root MSE        =     0.3910

                                      (Std. err. adjusted for 377 clusters in mycntyid)
```

lnrprice	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
cntTSD0_250	-.0968847	.0177324	-5.46	0.000	-.1317519	-.0620175
cntTSD250_500	-.0627735	.0141108	-4.45	0.000	-.0905194	-.0350276
cntTSD500_750	-.0540075	.0103157	-5.24	0.000	-.0742913	-.0337238
cntTSD750_1000	-.0460956	.0094739	-4.87	0.000	-.064724	-.0274671
cntTSD1000_1250	-.0385024	.007883	-4.88	0.000	-.0540028	-.0230021
cntTSD1250_1500	-.0348846	.0073964	-4.72	0.000	-.0494281	-.0203411
cntTSD1500_1750	-.0318681	.0059099	-5.39	0.000	-.0434888	-.0202475
cntTSD1750_2000	-.028872	.0061185	-4.72	0.000	-.0409027	-.0168412

cntTSD2000_2250	-.0253015	.0048122	-5.26	0.000	-.0347637	-.0158392
cntTSD2250_2500	-.0224827	.0054179	-4.15	0.000	-.0331358	-.0118297
cntTSD2500_2750	-.020714	.0054229	-3.82	0.000	-.031377	-.0100509
cntTSD2750_3000	-.0186589	.0047555	-3.92	0.000	-.0280095	-.0093082
cntTSD3000_3250	-.0151989	.0039172	-3.88	0.000	-.0229012	-.0074965
cntTSD3250_3500	-.0130443	.0042875	-3.04	0.003	-.0214749	-.0046138
cntTSD3500_3750	-.0105577	.0040573	-2.60	0.010	-.0185356	-.0025798
cntTSD3750_4000	-.0084739	.0038011	-2.23	0.026	-.0159479	-.0009999
cntTSD4000_4250	-.005763	.0036884	-1.56	0.119	-.0130155	.0014895
cntTSD4250_4500	-.0067604	.003726	-1.81	0.070	-.0140868	.000566
cntTSD4500_4750	-.0040065	.0033426	-1.20	0.231	-.0105791	.0025661
cntTSD4750_5000	-.0013343	.0028888	-0.46	0.644	-.0070144	.0043459
dCAopen0_750_preyr20_15	.0870918	.031009	2.81	0.005	.0261189	.1480647
dCAopen0_750_preyr15_10	.0284383	.0358368	0.79	0.428	-.0420275	.098904
dCAopen0_750_preyr10_5	.0436061	.0436006	1.00	0.318	-.0421255	.1293377
dCAopen0_750_preyr5_0	.0256077	.032854	0.78	0.436	-.0389929	.0902083
dCAopen0_750_postyr0_5	.0328879	.0231826	1.42	0.157	-.0126959	.0784717
dCAopen0_750_postyr5_10	-.0027762	.0194164	-0.14	0.886	-.0409544	.0354021
dCAopen0_750_postyr10_15	-.0189613	.0138831	-1.37	0.173	-.0462595	.0083369
dCAopen0_750_postyr15_20	-.0399876	.0228194	-1.75	0.081	-.0848573	.0048821
dCAopen0_750_postyr20_25	-.0367831	.0175978	-2.09	0.037	-.0713855	-.0021807
dCAopen0_750_postyr25_30	-.0174749	.0210404	-0.83	0.407	-.0588465	.0238967
dCAopen0_750_postyr30_35	-.072661	.0342602	-2.12	0.035	-.1400266	-.0052954
dCAopen750_1500_preyr2~15	.1196436	.0141672	8.45	0.000	.0917868	.1475004
dCAopen750_1500_preyr1~10	.0295977	.0193832	1.53	0.128	-.0085153	.0677107
dCAopen750_1500_preyr10_5	.0107451	.0191015	0.56	0.574	-.0268139	.0483042
dCAopen750_1500_preyr5_0	-.0120355	.0159853	-0.75	0.452	-.0434672	.0193962
dCAopen750_1500_postyr0_5	-.0031444	.0097555	-0.32	0.747	-.0223266	.0160378
dCAopen750_1500_postyr~10	-.004354	.0084837	-0.51	0.608	-.0210354	.0123274
dCAopen750_1500_postyr~15	.0005401	.0085445	0.06	0.950	-.0162609	.017341
dCAopen750_1500_postyr~20	-.014466	.0088038	-1.64	0.101	-.0317769	.0028449
dCAopen750_1500_postyr~25	-.0034617	.0106273	-0.33	0.745	-.024358	.0174346
dCAopen750_1500_postyr~30	.0134483	.0127879	1.05	0.294	-.0116964	.0385931
dCAopen750_1500_postyr~35	-.024417	.0327037	-0.75	0.456	-.0887222	.0398881
dCAend0_750_preyr20_15	.0333906	.0336633	0.99	0.322	-.0328012	.0995824
dCAend0_750_preyr15_10	.0252702	.0281149	0.90	0.369	-.030012	.0805525
dCAend0_750_preyr10_5	.025046	.034621	0.72	0.470	-.0430291	.093121
dCAend0_750_preyr5_0	.0530557	.0321196	1.65	0.099	-.0101009	.1162124
dCAend0_750_postyr0_5	.0615092	.0230808	2.66	0.008	.0161255	.1068929
dCAend0_750_postyr5_10	.0795722	.0335023	2.38	0.018	.0136968	.1454476
dCAend0_750_postyr10_15	.0287739	.0398825	0.72	0.471	-.0496469	.1071946
dCAend0_750_postyr15_20	.0871521	.0324404	2.69	0.008	.0233648	.1509395
dCAend0_750_postyr20_25	.1248119	.1147966	1.09	0.278	-.1009119	.3505357
dCAend750_1500_preyr20_15	-.0066738	.0272617	-0.24	0.807	-.0602784	.0469307
dCAend750_1500_preyr15_10	-.0127128	.0240238	-0.53	0.597	-.0599505	.034525
dCAend750_1500_preyr10_5	-.0014759	.0146096	-0.10	0.920	-.0302027	.0272508
dCAend750_1500_preyr5_0	-.0005165	.0143127	-0.04	0.971	-.0286595	.0276264
dCAend750_1500_postyr0_5	-.0014865	.0147164	-0.10	0.920	-.0304233	.0274503
dCAend750_1500_postyr5_10	-.0046405	.0217077	-0.21	0.831	-.0473241	.0380431
dCAend750_1500_postyr1~15	-.0286408	.0245296	-1.17	0.244	-.0768732	.0195917
dCAend750_1500_postyr1~20	-.0232744	.0257562	-0.90	0.367	-.0739187	.0273699
dCAend750_1500_postyr2~25	.0144368	.0440221	0.33	0.743	-.0721236	.1009972
_cons	12.16427	.0078348	1552.60	0.000	12.14887	12.17968

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	5582	5582	**0**	*
mycntyid#quarter	1448	1448	**0**	*
mytractid	6854	0	**6854**	
mycntyid#tranyr#c.lnacres	5582	15	**5567**	?
mycntyid#tranyr#c.lnacres_miss	5582	4407	**1175**	?
mycntyid#tranyr#c.stories	5582	645	**4937**	?
mycntyid#tranyr#c.stories_miss	5582	1723	**3859**	?
mycntyid#tranyr#c.bathtot	5582	1404	**4178**	?
mycntyid#tranyr#c.bathtot_miss	5582	1423	**4159**	?
mycntyid#tranyr#c.lnsqft	5582	362	**5220**	?
mycntyid#tranyr#c.lnsqft_miss	5582	2812	**2770**	?
mycntyid#tranyr#c.age	5582	360	**5222**	?
mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1529	**4053**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
1106 . eststo m4_trends5yr

1107 . *The estimates derived here from the initial regression estimates are what is used
1108 . *       to later populate Panel (a) of Figure 5 in main text.
1109 . eststo m4_trends5yrCAopen_diffs: nlcom ///
>         (diffpreyr20_15: _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15]) ///
>         (diffpreyr15_10: _b[dCAopen0_750_preyr15_10]-_b[dCAopen750_1500_preyr15_10]) ///
>         (diffpreyr10_5: _b[dCAopen0_750_preyr10_5]-_b[dCAopen750_1500_preyr10_5]) ///
>         (diffpreyr5_0: _b[dCAopen0_750_preyr5_0]-_b[dCAopen750_1500_preyr5_0]) ///
>         (diffpostyr0_5: _b[dCAopen0_750_postyr0_5]-_b[dCAopen750_1500_postyr0_5]) ///
>         (diffpostyr5_10: _b[dCAopen0_750_postyr5_10]-_b[dCAopen750_1500_postyr5_10]) ///
>         (diffpostyr10_15: _b[dCAopen0_750_postyr10_15]-_b[dCAopen750_1500_postyr10_15]) ///
>         (diffpostyr15_20: _b[dCAopen0_750_postyr15_20]-_b[dCAopen750_1500_postyr15_20]) ///
>         (diffpostyr20_25: _b[dCAopen0_750_postyr20_25]-_b[dCAopen750_1500_postyr20_25]) ///
>         (diffpostyr25_30: _b[dCAopen0_750_postyr25_30]-_b[dCAopen750_1500_postyr25_30]) ///
>         (diffpostyr30_35: _b[dCAopen0_750_postyr30_35]-_b[dCAopen750_1500_postyr30_35]),  post

diffpreyr~15: _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15]
diffpreyr~10: _b[dCAopen0_750_preyr15_10]-_b[dCAopen750_1500_preyr15_10]
diffpreyr1~5: _b[dCAopen0_750_preyr10_5]-_b[dCAopen750_1500_preyr10_5]
diffpreyr5_0: _b[dCAopen0_750_preyr5_0]-_b[dCAopen750_1500_preyr5_0]
diffpostyr~5: _b[dCAopen0_750_postyr0_5]-_b[dCAopen750_1500_postyr0_5]
diffposty~10: _b[dCAopen0_750_postyr5_10]-_b[dCAopen750_1500_postyr5_10]
diffposty~15: _b[dCAopen0_750_postyr10_15]-_b[dCAopen750_1500_postyr10_15]
diffposty~20: _b[dCAopen0_750_postyr15_20]-_b[dCAopen750_1500_postyr15_20]
diffposty~25: _b[dCAopen0_750_postyr20_25]-_b[dCAopen750_1500_postyr20_25]
diffposty~30: _b[dCAopen0_750_postyr25_30]-_b[dCAopen750_1500_postyr25_30]
diffposty~35: _b[dCAopen0_750_postyr30_35]-_b[dCAopen750_1500_postyr30_35]
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
diffpreyr20_15	-.0325518	.0274067	-1.19	0.235	-.0862679	.0211643
diffpreyr15_10	-.0011595	.0281735	-0.04	0.967	-.0563786	.0540597
diffpreyr10_5	.032861	.0362431	0.91	0.365	-.0381743	.1038962
diffpreyr5_0	.0376432	.0338352	1.11	0.266	-.0286726	.103959
diffpostyr0_5	.0360323	.0209642	1.72	0.086	-.0050568	.0771215
diffpostyr5_10	.0015778	.0184033	0.09	0.932	-.0344921	.0376477
diffpostyr10_15	-.0195013	.0132333	-1.47	0.141	-.0454381	.0064354
diffpostyr15_20	-.0255216	.0204581	-1.25	0.212	-.0656187	.0145756
diffpostyr20_25	-.0333214	.016704	-1.99	0.046	-.0660607	-.0005822
diffpostyr25_30	-.0309232	.0172582	-1.79	0.073	-.0647486	.0029022
diffpostyr30_35	-.048244	.0432201	-1.12	0.264	-.1329539	.036466

```
1110 .
1111 . test _b[diffpreyr20_15]=_b[diffpreyr15_10]=_b[diffpreyr10_5]=_b[diffpreyr5_0]

 ( 1)  diffpreyr20_15 - diffpreyr15_10 = 0
 ( 2)  diffpreyr20_15 - diffpreyr10_5 = 0
 ( 3)  diffpreyr20_15 - diffpreyr5_0 = 0

           chi2(  3) =    5.94
         Prob > chi2 =    0.1146

1112 .
1113 . *export trend table and graph
1114 . esttab m4_trends5yrCAopen_diffs using "$resultsfolder\EventStudy_CoefEstDiffs_CAOpen_Model4_5yrforTable.csv"
> , replace label ///
>         csv compress nogaps nolines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll)
(output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\EventStudy
> CoefEstDiffs_CAOpen_Model4_5yrforTable.csv)

1115 . esttab m4_trends5yrCAopen_diffs using "$resultsfolder\EventStudy_CoefEstDiffs_CAOpen_Model4_5yrforGraph.csv"
> , replace label ///
>         plain csv compress nogaps nolines nostar b(4) ci(4) wide noparentheses
(output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\EventStudy
> CoefEstDiffs_CAOpen_Model4_5yrforGraph.csv)

1116 .
1117 .
1118 . ********************************************************************************
1119 .
1120 . *Variant of model 6 w/ lead and lag terms (only includes CEM-matched sales
1121 . *       within 1,500m of CA). Generates estimates for Figure A7 in Appendix F.3.
1122 .
1123 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m_CEM_MatchOnly", replace

1124 .
1125 . *reset global vars to only account for TSDs in closer distance bins
1126 .
1127 . *TSD counts
```

```
1128 . local vars  cntTSD

1129 . foreach v of local vars {
  2.         global `v' `v'0_250 `v'250_500 `v'500_750 `v'750_1000 ///
>                `v'1000_1250 `v'1250_1500 /* `v'1500_1750 `v'1750_2000 ///
>                `v'2000_2250 `v'2250_2500 `v'2500_2750 `v'2750_3000 ///
>                `v'3000_3250 `v'3250_3500 `v'3500_3750 `v'3750_4000 ///
>                `v'4000_4250 `v'4250_4500 `v'4500_4750 `v'4750_5000 */
  3.         }

1130 .
1131 .
1132 . *repeat variant of model 2 (CEM-sample) in final paper, but w/ 5-year
1133 . *       incremental window.
1134 . local bins 0_750 750_1500

1135 . foreach b of local bins {
  2.         global CAopenleads`b'  dCAopen`b'_preyr20_15 dCAopen`b'_preyr15_10 ///
>                dCAopen`b'_preyr10_5 dCAopen`b'_preyr5_0
  3.         global CAopenlags`b'  dCAopen`b'_postyr0_5 dCAopen`b'_postyr5_10 ///
>                dCAopen`b'_postyr10_15 dCAopen`b'_postyr15_20 dCAopen`b'_postyr20_25 ///
>                dCAopen`b'_postyr25_30 dCAopen`b'_postyr30_35
  4.         global CAendleads`b'  dCAend`b'_preyr20_15 dCAend`b'_preyr15_10 ///
>                dCAend`b'_preyr10_5 dCAend`b'_preyr5_0
  5.         global CAendlags`b' dCAend`b'_postyr0_5 dCAend`b'_postyr5_10 ///
>                dCAend`b'_postyr10_15 dCAend`b'_postyr15_20 dCAend`b'_postyr20_25
  6.         }

1136 .
1137 . reghdfe lnrprice $cntTSD $CAopenleads0_750 $CAopenlags0_750 $CAopenleads750_1500 $CAopenlags750_1500 ///
>         $CAendleads0_750 $CAendlags0_750 $CAendleads750_1500 $CAendlags750_1500 ///
>         [pweight=cem_weights], absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
>         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
(dropped 140 singleton observations)
(MWFE estimator converged in 3103 iterations)
warning: missing F statistic; dropped variables due to collinearity or too few clusters

HDFE Linear regression                            Number of obs   =    100,507
Absorbing 4 HDFE groups                           F(  46,    161) =          .
Statistics robust to heteroskedasticity           Prob > F        =          .
                                                  R-squared       =     0.8521
                                                  Adj R-squared   =     0.8112
                                                  Within R-sq.    =     0.0033
Number of clusters (mycntyid) =        162        Root MSE        =     0.3804

                                      (Std. err. adjusted for 162 clusters in mycntyid)
------------------------------------------------------------------------------
             lnrprice | Coefficient  Robust std. err.      t    P>|t|     [95% conf. interval]
----------------------+-------------------------------------------------------
           cntTSD0_250 |  -.1200579   .0300144    -4.00   0.000    -.1793305   -.0607853
        cntTSD250_500 |  -.0618146   .0349537    -1.77   0.079    -.1308413    .0072122
        cntTSD500_750 |  -.0588455   .0325814    -1.81   0.073    -.1231875    .0054965
       cntTSD750_1000 |  -.0147353   .0191327    -0.77   0.442    -.0525186     .023048
      cntTSD1000_1250 |  -.0149496   .0171902    -0.87   0.386    -.0488969    .0189976
      cntTSD1250_1500 |  -.0035893   .0155916    -0.23   0.818    -.0343798    .0272012
dCAopen0_750_preyr20_15 |   .1768032   .1154643     1.53   0.128    -.0512167     .404823
dCAopen0_750_preyr15_10 |   .0623929   .0851901     0.73   0.465    -.1058411    .2306269
 dCAopen0_750_preyr10_5 |   .0707569   .0658897     1.07   0.284    -.0593627    .2008764
  dCAopen0_750_preyr5_0 |   .0363078   .0636102     0.57   0.569    -.0893101    .1619258
 dCAopen0_750_postyr0_5 |    .052118   .0376565     1.38   0.168    -.0222463    .1264823
dCAopen0_750_postyr5_10 |   .0296519   .0406399     0.73   0.467     -.050604    .1099078
dCAopen0_750_postyr10_15 |   .0191444   .0359841     0.53   0.595    -.0519174    .0902061
dCAopen0_750_postyr15_20 |  -.0175506   .0341152    -0.51   0.608    -.0849216    .0498203
dCAopen0_750_postyr20_25 |  -.0096032   .0459689    -0.21   0.835     -.100383    .0811765
```

dCAopen0_750_postyr25_30	.0273133	.0677911	0.40	0.688	-.1065612	.1611877
dCAopen0_750_postyr30_35	-.0341376	.0437933	-0.78	0.437	-.120621	.0523459
dCAopen750_1500_preyr2~15	.1751446	.0815764	2.15	0.033	.0140469	.3362424
dCAopen750_1500_preyr1~10	.0939739	.0880903	1.07	0.288	-.0799876	.2679353
dCAopen750_1500_preyr10_5	.0214449	.0493114	0.43	0.664	-.0759357	.1188255
dCAopen750_1500_preyr5_0	.0124474	.0384067	0.32	0.746	-.0633983	.0882932
dCAopen750_1500_postyr0_5	.0269579	.0243908	1.11	0.271	-.0212093	.0751252
dCAopen750_1500_postyr~10	.0011514	.0195699	0.06	0.953	-.0374954	.0397982
dCAopen750_1500_postyr~15	.0049049	.0202871	0.24	0.809	-.0351581	.044968
dCAopen750_1500_postyr~20	-.0347126	.0248649	-1.40	0.165	-.0838161	.0143909
dCAopen750_1500_postyr~25	-.015793	.0350792	-0.45	0.653	-.0850677	.0534818
dCAopen750_1500_postyr~30	.0147607	.0507239	0.29	0.771	-.0854092	.1149307
dCAopen750_1500_postyr~35	-.0217624	.0485725	-0.45	0.655	-.1176837	.074159
dCAend0_750_preyr20_15	.0426146	.0421784	1.01	0.314	-.0406796	.1259088
dCAend0_750_preyr15_10	.0915584	.0341409	2.68	0.008	.0241367	.1589801
dCAend0_750_preyr10_5	.0530662	.0623183	0.85	0.396	-.0700005	.1761329
dCAend0_750_preyr5_0	.1141037	.0709326	1.61	0.110	-.0259745	.254182
dCAend0_750_postyr0_5	.0156678	.0593173	0.26	0.792	-.1014725	.1328082
dCAend0_750_postyr5_10	-.0232414	.0905429	-0.26	0.798	-.2020462	.1555634
dCAend0_750_postyr10_15	-.1529406	.1183295	-1.29	0.198	-.3866186	.0807374
dCAend0_750_postyr15_20	-.0712343	.1159888	-0.61	0.540	-.3002898	.1578212
dCAend0_750_postyr20_25	-.5783024	.3893824	-1.49	0.139	-1.347258	.190653
dCAend750_1500_preyr20_15	-.0030971	.0492382	-0.06	0.950	-.100333	.0941389
dCAend750_1500_preyr15_10	.0450628	.0266042	1.69	0.092	-.0074755	.097601
dCAend750_1500_preyr10_5	.0116751	.0373058	0.31	0.755	-.0619967	.0853469
dCAend750_1500_preyr5_0	.0387951	.0616434	0.63	0.530	-.0829388	.160529
dCAend750_1500_postyr0_5	-.0544006	.0545125	-1.00	0.320	-.1620524	.0532511
dCAend750_1500_postyr5_10	-.1760694	.087859	-2.00	0.047	-.349574	-.0025648
dCAend750_1500_postyr1~15	-.1698699	.1571847	-1.08	0.281	-.4802795	.1405397
dCAend750_1500_postyr1~20	-.1720109	.1246372	-1.38	0.169	-.4181454	.0741236
dCAend750_1500_postyr2~25	-.3622143	.1591392	-2.28	0.024	-.6764838	-.0479449
_cons	12.05999	.0187743	642.37	0.000	12.02291	12.09706

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	1971	1971	**0**	*
mycntyid#quarter	614	614	**0**	*
mytractid	912	912	**0**	*
mycntyid#tranyr#c.lnacres	1971	35	**1936**	?
mycntyid#tranyr#c.lnacres_miss	1971	1923	**48**	?
mycntyid#tranyr#c.stories	1971	263	**1708**	?
mycntyid#tranyr#c.stories_miss	1971	1268	**703**	?
mycntyid#tranyr#c.bathtot	1971	559	**1412**	?
mycntyid#tranyr#c.bathtot_miss	1971	1237	**734**	?
mycntyid#tranyr#c.lnsqft	1971	172	**1799**	?
mycntyid#tranyr#c.lnsqft_miss	1971	1708	**263**	?
mycntyid#tranyr#c.age	1971	180	**1791**	?
mycntyid#tranyr#c.agesq	1971	180	**1791**	?
mycntyid#tranyr#c.age_miss	1971	1604	**367**	?
mycntyid#tranyr#c.p_nbdev_2011_200	1971	2	**1969**	?
mycntyid#tranyr#c.p_nbdev_2011_500	1971	0	**1971**	?
mycntyid#tranyr#c.hwy500m	1971	236	**1735**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
1138 . eststo m6_trends5yr

1139 . estimates save "$raw_resultsfolder\m6_trends5yr", replace
     (note: file D:\RCRA_benefits2\model_estimates2023_05\m6_trends5yr.ster not found)
     file D:\RCRA_benefits2\model_estimates2023_05\m6_trends5yr.ster saved

1140 .
1141 . *export trends results for table and graph
1142 . esttab m6_trends5yr using EventStudy_CoefEstimates_Model6_5yrforTable.csv, replace label ///
     >         csv compress nogaps nolines star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll) ///
     >         keep($CAopenleads0_750 $CAopenlags0_750 $CAopenleads750_1500 $CAopenlags750_1500 ///
     >         $CAendleads0_750 $CAendlags0_750 $CAendleads750_1500 $CAendlags750_1500)
     (file EventStudy_CoefEstimates_Model6_5yrforTable.csv not found)
     (output written to EventStudy_CoefEstimates_Model6_5yrforTable.csv)

1143 .
1144 . esttab m6_trends5yr using EventStudy_CoefEstimates_Model6_5yrforGraph.csv, replace label ///
     >         plain csv compress nogaps nolines nostar b(4) ci(4) wide noparentheses ///
     >         keep($CAopenleads0_750 $CAopenlags0_750 $CAopenleads750_1500 $CAopenlags750_1500 ///
     >         $CAendleads0_750 $CAendlags0_750 $CAendleads750_1500 $CAendlags750_1500)
     (file EventStudy_CoefEstimates_Model6_5yrforGraph.csv not found)
     (output written to EventStudy_CoefEstimates_Model6_5yrforGraph.csv)

1145 .
1146 . *test to see if pre-trends parallel - i.e., are differences equal
1147 . estimates use "$raw_resultsfolder\m6_trends5yr"

1148 . reghdfe

     HDFE Linear regression                          Number of obs   =    100,507
     Absorbing 4 HDFE groups                         F(  46,    161) =          .
     Statistics robust to heteroskedasticity         Prob > F        =          .
                                                     R-squared       =     0.8521
                                                     Adj R-squared   =     0.8112
                                                     Within R-sq.    =     0.0033
     Number of clusters (mycntyid) =        162      Root MSE        =     0.3804

                                        (Std. err. adjusted for 162 clusters in mycntyid)
------------------------------------------------------------------------------
             lnrprice | Coefficient  Robust std. err.      t    P>|t|     [95% conf. interval]
----------------------+-------------------------------------------------------
          cntTSD0_250 |  -.1200579   .0300144    -4.00   0.000    -.1793305   -.0607853
        cntTSD250_500 |  -.0618146   .0349537    -1.77   0.079    -.1308413    .0072122
        cntTSD500_750 |  -.0588455   .0325814    -1.81   0.073    -.1231875    .0054965
       cntTSD750_1000 |  -.0147353   .0191327    -0.77   0.442    -.0525186     .023048
      cntTSD1000_1250 |  -.0149496   .0171902    -0.87   0.386    -.0488969    .0189976
      cntTSD1250_1500 |  -.0035893   .0155916    -0.23   0.818    -.0343798    .0272012
dCAopen0_750_preyr20_15 |   .1768032   .1154643     1.53   0.128    -.0512167     .404823
dCAopen0_750_preyr15_10 |   .0623929   .0851901     0.73   0.465    -.1058411    .2306269
 dCAopen0_750_preyr10_5 |   .0707569   .0658897     1.07   0.284    -.0593627    .2008764
  dCAopen0_750_preyr5_0 |   .0363078   .0636102     0.57   0.569    -.0893101    .1619258
 dCAopen0_750_postyr0_5 |    .052118   .0376565     1.38   0.168    -.0222463    .1264823
dCAopen0_750_postyr5_10 |   .0296519   .0406399     0.73   0.467     -.050604    .1099078
dCAopen0_750_postyr10_15 |   .0191444   .0359841     0.53   0.595    -.0519174    .0902061
dCAopen0_750_postyr15_20 |  -.0175506   .0341152    -0.51   0.608    -.0849216    .0498203
dCAopen0_750_postyr20_25 |  -.0096032   .0459689    -0.21   0.835     -.100383    .0811765
dCAopen0_750_postyr25_30 |   .0273133   .0677911     0.40   0.688    -.1065612    .1611877
dCAopen0_750_postyr30_35 |  -.0341376   .0437933    -0.78   0.437     -.120621    .0523459
dCAopen750_1500_preyr2~15 |   .1751446   .0815764     2.15   0.033     .0140469    .3362424
dCAopen750_1500_preyr1~10 |   .0939739   .0880903     1.07   0.288    -.0799876    .2679353
dCAopen750_1500_preyr10_5 |   .0214449   .0493114     0.43   0.664    -.0759357    .1188255
 dCAopen750_1500_preyr5_0 |   .0124474   .0384067     0.32   0.746    -.0633983    .0882932
dCAopen750_1500_postyr0_5 |   .0269579   .0243908     1.11   0.271    -.0212093    .0751252
dCAopen750_1500_postyr~10 |   .0011514   .0195699     0.06   0.953    -.0374954    .0397982
```

dCAopen750_1500_postyr~15	.0049049	.0202871	0.24	0.809	-.0351581	.044968
dCAopen750_1500_postyr~20	-.0347126	.0248649	-1.40	0.165	-.0838161	.0143909
dCAopen750_1500_postyr~25	-.015793	.0350792	-0.45	0.653	-.0850677	.0534818
dCAopen750_1500_postyr~30	.0147607	.0507239	0.29	0.771	-.0854092	.1149307
dCAopen750_1500_postyr~35	-.0217624	.0485725	-0.45	0.655	-.1176837	.074159
dCAend0_750_preyr20_15	.0426146	.0421784	1.01	0.314	-.0406796	.1259088
dCAend0_750_preyr15_10	.0915584	.0341409	2.68	0.008	.0241367	.1589801
dCAend0_750_preyr10_5	.0530662	.0623183	0.85	0.396	-.0700005	.1761329
dCAend0_750_preyr5_0	.1141037	.0709326	1.61	0.110	-.0259745	.254182
dCAend0_750_postyr0_5	.0156678	.0593173	0.26	0.792	-.1014725	.1328082
dCAend0_750_postyr5_10	-.0232414	.0905429	-0.26	0.798	-.2020462	.1555634
dCAend0_750_postyr10_15	-.1529406	.1183295	-1.29	0.198	-.3866186	.0807374
dCAend0_750_postyr15_20	-.0712343	.1159888	-0.61	0.540	-.3002898	.1578212
dCAend0_750_postyr20_25	-.5783024	.3893824	-1.49	0.139	-1.347258	.190653
dCAend750_1500_preyr20_15	-.0030971	.0492382	-0.06	0.950	-.100333	.0941389
dCAend750_1500_preyr15_10	.0450628	.0266042	1.69	0.092	-.0074755	.097601
dCAend750_1500_preyr10_5	.0116751	.0373058	0.31	0.755	-.0619967	.0853469
dCAend750_1500_preyr5_0	.0387951	.0616434	0.63	0.530	-.0829388	.160529
dCAend750_1500_postyr0_5	-.0544006	.0545125	-1.00	0.320	-.1620524	.0532511
dCAend750_1500_postyr5_10	-.1760694	.087859	-2.00	0.047	-.349574	-.0025648
dCAend750_1500_postyr1~15	-.1698699	.1571847	-1.08	0.281	-.4802795	.1405397
dCAend750_1500_postyr1~20	-.1720109	.1246372	-1.38	0.169	-.4181454	.0741236
dCAend750_1500_postyr2~25	-.3622143	.1591392	-2.28	0.024	-.6764838	-.0479449
_cons	12.05999	.0187743	642.37	0.000	12.02291	12.09706

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	1971	1971	**0**	*
mycntyid#quarter	614	614	**0**	*
mytractid	912	912	**0**	*
mycntyid#tranyr#c.lnacres	1971	35	**1936**	?
mycntyid#tranyr#c.lnacres_miss	1971	1923	**48**	?
mycntyid#tranyr#c.stories	1971	263	**1708**	?
mycntyid#tranyr#c.stories_miss	1971	1268	**703**	?
mycntyid#tranyr#c.bathtot	1971	559	**1412**	?
mycntyid#tranyr#c.bathtot_miss	1971	1237	**734**	?
mycntyid#tranyr#c.lnsqft	1971	172	**1799**	?
mycntyid#tranyr#c.lnsqft_miss	1971	1708	**263**	?
mycntyid#tranyr#c.age	1971	180	**1791**	?
mycntyid#tranyr#c.agesq	1971	180	**1791**	?
mycntyid#tranyr#c.age_miss	1971	1604	**367**	?
mycntyid#tranyr#c.p_nbdev_2011_200	1971	2	**1969**	?
mycntyid#tranyr#c.p_nbdev_2011_500	1971	0	**1971**	?
mycntyid#tranyr#c.hwy500m	1971	236	**1735**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

1149 . eststo m6_trends5yr

```
1150 . *CA Opening
1151 . testnl _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] ///
     >         =_b[dCAopen0_750_preyr15_10]-_b[dCAopen750_1500_preyr15_10] ///
     >         =_b[dCAopen0_750_preyr10_5]-_b[dCAopen750_1500_preyr10_5] ///
     >         =_b[dCAopen0_750_preyr5_0]-_b[dCAopen750_1500_preyr5_0]

       (1)  _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] = _b[dCAopen0_750_preyr15_10]-_b[dCAopen750_
     > 1500_preyr15_10]
       (2)  _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] = _b[dCAopen0_750_preyr10_5]-_b[dCAopen750_1
     > 500_preyr10_5]
       (3)  _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] = _b[dCAopen0_750_preyr5_0]-_b[dCAopen750_15
     > 00_preyr5_0]

                   chi2(3) =        5.24
                 Prob > chi2 =        0.1551

1152 .         *Note: Fail to reject null hypothesis that differences are statistically equal
1153 .         *       (chi2(3)=5.24, p=0.1551.
1154 . test _b[dCAopen0_750_preyr20_15]-_b[dCAopen750_1500_preyr20_15] ///
     >         =_b[dCAopen0_750_preyr15_10]-_b[dCAopen750_1500_preyr15_10] ///
     >         =_b[dCAopen0_750_preyr10_5]-_b[dCAopen750_1500_preyr10_5] ///
     >         =_b[dCAopen0_750_preyr5_0]-_b[dCAopen750_1500_preyr5_0]

       ( 1)  dCAopen0_750_preyr20_15 - dCAopen0_750_preyr15_10 - dCAopen750_1500_preyr20_15 +
             dCAopen750_1500_preyr15_10 = 0
       ( 2)  dCAopen0_750_preyr20_15 - dCAopen0_750_preyr10_5 - dCAopen750_1500_preyr20_15 +
             dCAopen750_1500_preyr10_5 = 0
       ( 3)  dCAopen0_750_preyr20_15 - dCAopen0_750_preyr5_0 - dCAopen750_1500_preyr20_15 + dCAopen750_1500_preyr5_0
             = 0

             F(  3,   161) =    1.75
                  Prob > F =    0.1597

1155 .         *Note: Fail to reject null hypothesis that differences are statistically equal
1156 .         *       (F(3, 161)=1.75, p=0.1597).
1157 .
1158 . *CA Completion
1159 . testnl _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] ///
     >         =_b[dCAend0_750_preyr15_10]-_b[dCAend750_1500_preyr15_10] ///
     >         =_b[dCAend0_750_preyr10_5]-_b[dCAend750_1500_preyr10_5] ///
     >         =_b[dCAend0_750_preyr5_0]-_b[dCAend750_1500_preyr5_0]

       (1)  _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] = _b[dCAend0_750_preyr15_10]-_b[dCAend750_1500
     > _preyr15_10]
       (2)  _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] = _b[dCAend0_750_preyr10_5]-_b[dCAend750_1500_
     > preyr10_5]
       (3)  _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] = _b[dCAend0_750_preyr5_0]-_b[dCAend750_1500_p
     > reyr5_0]

                   chi2(3) =        1.08
                 Prob > chi2 =        0.7808

1160 .         *Note: Fail to reject null hypothesis that differences are statistically equal
```

```
1161 .         *       (chi2(3)=1.08, p=0.7808).
1162 . test _b[dCAend0_750_preyr20_15]-_b[dCAend750_1500_preyr20_15] ///
     >         =_b[dCAend0_750_preyr15_10]-_b[dCAend750_1500_preyr15_10] ///
     >         =_b[dCAend0_750_preyr10_5]-_b[dCAend750_1500_preyr10_5] ///
     >         =_b[dCAend0_750_preyr5_0]-_b[dCAend750_1500_preyr5_0]

      ( 1)  dCAend0_750_preyr20_15 - dCAend0_750_preyr15_10 - dCAend750_1500_preyr20_15 + dCAend750_1500_preyr15_10
            = 0
      ( 2)  dCAend0_750_preyr20_15 - dCAend0_750_preyr10_5 - dCAend750_1500_preyr20_15 + dCAend750_1500_preyr10_5 =
            0
      ( 3)  dCAend0_750_preyr20_15 - dCAend0_750_preyr5_0 - dCAend750_1500_preyr20_15 + dCAend750_1500_preyr5_0 = 0

           F(  3,   161) =    0.36
                Prob > F =    0.7809

1163 .         *Note: Fail to reject null hypothesis that differences are statistically equal
1164 .         *       (F(3, 161)=0.36, p=0.7809).
1165 .
1166 .
1167 . *END
1168 .
1169 .
1170 .
1171 .
     end of do-file

1172 .
1173 . *STEP 7: Total capitalization and welfare effects.
1174 . cd "$dofile_folder"
     C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis

1175 . do analysis_RCRABenefits_Step7_ExtrapExcercise.do

1176 . *RCRA Nationwide Hedonic Study
1177 . *Extrapolation Excercise
1178 . *Created: 6/1/2021
1179 . *Created by: Dennis Guignet
1180 . *Last Revised: 5/25/2023
1181 . *Last Revised by: Dennis Guignet
1182 .
1183 . ********************************************************************************
1184 .
1185 . *This do-file takes the hedonic results and first calculates the total
1186 . *       capitalization effects across all "impacted" parcels. It then estimates
1187 . *       a variant of the hedonic regressions suggested by Banzhaf (2021) to derive
1188 . *       an ex post lower bound welfare estimate. Ultimately, the code here generates
1189 . *       the estimates presented in Figure 6 and Table 4 in the main text.
1190 .
1191 .
1192 . ********************************************************************************
1193 . ********************************************************************************
1194 .
1195 .
```

```
1196 . *set empty cells for factor variables to drop
1197 . set emptycells drop

1198 . clear all

1199 . *increase max variables allowed b/c factor variables
1200 . set maxvar 100000


1201 .
1202 . *set directory for results
1203 . cd "$resultsfolder"
     C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05

1204 .
1205 . *set key parameters for capitalization and welfare calculations
1206 . global pbarpost 206950

1207 .         *Note: This is the mean transaction price in 2018, based on 627 post-CA sales
1208 .         *       within 0-750m (see a few lines below).
1209 . global Nparcels 25415

1210 .         *Note: Number of post-CA parcels, see details a few lines below after bring
1211 .         *       in parcel dataset.
1212 . global Nmidparcels 41973

1213 .         *Note: This is number of parcels within 0-750m of an open CA site, as of the
1214 .         *       end of our study period (2018).
1215 .
1216 . ********************************************************************************
1217 . ********************************************************************************
1218 .
1219 . *bring in sales dataset to get nationwide post-CA price for homes within 750 meters.
1220 . use "$salesfolder\All_Sales_Final_Cleaned_CA1500m", replace

1221 . sum rprice if dpostCA0_750==1 & tranyr==2018, detail

                            rprice
-------------------------------------------------------------
      Percentiles      Smallest
 1%     24887.94       20362.39
 5%     42761.03       20362.39
10%     55996.59       20362.39       Obs                 627
25%     97230.44       21217.62       Sum of wgt.         627

50%     162899.2                      Mean           206949.2
                        Largest       Std. dev.      170554.3
75%     254529.9       931579.6
90%     376602.5       941760.8       Variance       2.91e+10
95%     580328.3       967213.8       Skewness       2.185743
99%     916307.8       992666.8       Kurtosis       8.636635

1222 .         *Note: Mean price is $206,950. This is value set for global variable above.
```

```
1223 .
1224 . tab tranyr if dpostCA0_750==1
```

tranyr	Freq.	Percent	Cum.
2000	**35**	**1.01**	**1.01**
2001	**22**	**0.64**	**1.65**
2002	**37**	**1.07**	**2.72**
2003	**52**	**1.50**	**4.22**
2004	**66**	**1.91**	**6.13**
2005	**84**	**2.43**	**8.56**
2006	**87**	**2.52**	**11.07**
2007	**102**	**2.95**	**14.02**
2008	**84**	**2.43**	**16.45**
2009	**103**	**2.98**	**19.43**
2010	**146**	**4.22**	**23.65**
2011	**163**	**4.71**	**28.36**
2012	**164**	**4.74**	**33.10**
2013	**189**	**5.46**	**38.57**
2014	**225**	**6.50**	**45.07**
2015	**288**	**8.33**	**53.40**
2016	**462**	**13.36**	**66.75**
2017	**523**	**15.12**	**81.87**
2018	**627**	**18.13**	**100.00**
Total	**3,459**	**100.00**	

```
1225 .         *Note: At least have highest number of sales (n=627) in last year, which
1226 .         *       is most relevant for ex post welfare calculations later.
1227 .
1228 . ********************************************************************************
1229 . ********************************************************************************
1230 .
1231 . *Rerun model 2 in from Table 3 in main paper, but just with mid and post
1232 . *       observations (i.e., all pre-CA sales within 0-750m or 750-1500 are dropped).
1233 . *       The resulting estimates are labelled as Model 5 in Table 4 of final paper.
1234 . use "$salesfolder\All_Sales_Final_Cleaned_CA5k", replace

1235 .
1236 . *code up global variable for TSD counts
1237 . local vars  cntTSD

1238 . foreach v of local vars {
  2.         global `v' `v'0_250 `v'250_500 `v'500_750 `v'750_1000 ///
>                `v'1000_1250 `v'1250_1500 `v'1500_1750 `v'1750_2000 ///
>                `v'2000_2250 `v'2250_2500 `v'2500_2750 `v'2750_3000 ///
>                `v'3000_3250 `v'3250_3500 `v'3500_3750 `v'3750_4000 ///
>                `v'4000_4250 `v'4250_4500 `v'4500_4750 `v'4750_5000
  3.         }

1239 .
1240 . *Need to re-set CA global variables for this sample
1241 . local stages /*pre*/ mid post
```

```
1242 . foreach s of local stages {
  2.         global d`s'CA d`s'CA0_750 d`s'CA750_1500 /*d`s'CA1500_5000*/
  3.         }

1243 .
1244 . count
  2,538,344

1245 . drop if dpreCA0_750>0 | dpreCA750_1500>0
(16,268 observations deleted)

1246 . count
  2,522,076

1247 .         *Note: Sample size went from 2,538,334 to 2,522,076, dropping 16,268 sales.
1248 .
1249 . reghdfe lnrprice $cntTSD $dmidCA $dpostCA, ///
>         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
>         i.mycntyid#i.tranyr#c.($house)) vce(cluster mycntyid)  compact poolsize(20)
(dropped 672 singleton observations)
(MWFE estimator converged in 1866 iterations)

HDFE Linear regression                            Number of obs   =  2,521,404
Absorbing 4 HDFE groups                           F(  24,    376) =       3.42
Statistics robust to heteroskedasticity           Prob > F        =     0.0000
                                                  R-squared       =     0.7906
                                                  Adj R-squared   =     0.7840
                                                  Within R-sq.    =     0.0005
Number of clusters (mycntyid) =        377        Root MSE        =     0.3911

                                (Std. err. adjusted for 377 clusters in mycntyid)
------------------------------------------------------------------------------
             |               Robust
    lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    cntTSD0_250 |  -.0953774   .0172347    -5.53   0.000    -.1292659   -.0614889
  cntTSD250_500 |  -.0623112   .0142517    -4.37   0.000    -.0903342   -.0342882
  cntTSD500_750 |  -.0534847   .0104983    -5.09   0.000    -.0741274   -.0328421
 cntTSD750_1000 |  -.0455395   .0095946    -4.75   0.000    -.0644053   -.0266737
cntTSD1000_1250 |  -.0373649   .0078027    -4.79   0.000    -.0527073   -.0220226
cntTSD1250_1500 |  -.0338248   .0075285    -4.49   0.000     -.048628   -.0190216
cntTSD1500_1750 |  -.0312199    .005908    -5.28   0.000    -.0428368    -.019603
cntTSD1750_2000 |  -.0286013    .006234    -4.59   0.000    -.0408593   -.0163434
cntTSD2000_2250 |  -.0251919   .0049004    -5.14   0.000    -.0348276   -.0155561
cntTSD2250_2500 |   -.022358   .0055094    -4.06   0.000    -.0331912   -.0115249
cntTSD2500_2750 |  -.0207451   .0055139    -3.76   0.000    -.0315871   -.0099031
cntTSD2750_3000 |  -.0184444   .0048239    -3.82   0.000    -.0279295   -.0089593
cntTSD3000_3250 |  -.0149075   .0039411    -3.78   0.000    -.0226569    -.007158
cntTSD3250_3500 |  -.0128579   .0042789    -3.00   0.003    -.0212714   -.0044445
cntTSD3500_3750 |  -.0103367    .004055    -2.55   0.011    -.0183101   -.0023633
cntTSD3750_4000 |  -.0082946   .0038266    -2.17   0.031    -.0158189   -.0007704
cntTSD4000_4250 |  -.0054594   .0036727    -1.49   0.138    -.0126811    .0017622
cntTSD4250_4500 |  -.0065744   .0037373    -1.76   0.079     -.013923    .0007742
cntTSD4500_4750 |  -.0037182   .0033443    -1.11   0.267    -.0102942    .0028577
cntTSD4750_5000 |  -.0011002   .0029098    -0.38   0.706    -.0068218    .0046214
    dmidCA0_750 |  -.0112186    .014612    -0.77   0.443    -.0399501    .0175129
 dmidCA750_1500 |  -.0048317   .0070618    -0.68   0.494    -.0187172    .0090538
   dpostCA0_750 |   .0389443   .0208865     1.86   0.063    -.0021246    .0800132
dpostCA750_1500 |  -.0123791   .0144109    -0.86   0.391    -.0407151     .015957
          _cons |   12.16519   .0078784  1544.12   0.000      12.1497    12.18068
------------------------------------------------------------------------------
```

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	5582	5582	**0**	*
mycntyid#quarter	1448	1448	**0**	*
mytractid	6852	0	**6852**	
mycntyid#tranyr#c.lnacres	5582	15	**5567**	?
mycntyid#tranyr#c.lnacres_miss	5582	4416	**1166**	?
mycntyid#tranyr#c.stories	5582	645	**4937**	?
mycntyid#tranyr#c.stories_miss	5582	1728	**3854**	?
mycntyid#tranyr#c.bathtot	5582	1404	**4178**	?
mycntyid#tranyr#c.bathtot_miss	5582	1427	**4155**	?
mycntyid#tranyr#c.lnsqft	5582	362	**5220**	?
mycntyid#tranyr#c.lnsqft_miss	5582	2817	**2765**	?
mycntyid#tranyr#c.age	5582	360	**5222**	?
mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1531	**4051**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
1250 . eststo m4_nopre

1251 . estimates save "$raw_resultsfolder\m4_nopre", replace
     file D:\RCRA_benefits2\model_estimates2023_05\m4_nopre.ster saved

1252 .
1253 .
1254 . *bring in parcel level dataset
1255 . use "$salesfolder\All_parcel_CA_counts_750m.dta", clear

1256 . tab cntpostCA0_750
```

cntpostCA0_750	Freq.	Percent	Cum.
0	**51,968**	**67.16**	**67.16**
1	**25,415**	**32.84**	**100.00**
Total	**77,383**	**100.00**	

```
1257 .         *Note: 25,415 post-CA single-family residential parcels within 750-meters.
1258 . tab cntmidCA0_750
```

cntmidCA0_750	Freq.	Percent	Cum.
0	**35,410**	**45.76**	**45.76**
1	**41,411**	**53.51**	**99.27**
2	**561**	**0.72**	**100.00**
3	**1**	**0.00**	**100.00**
Total	**77,383**	**100.00**	

```
1259 . count if cntmidCA0_750>0
  41,973

1260 .         *Note: 41,973 mid-CA single-family residential parcels within 750-meters.
1261 .
1262 .
1263 . *Restore results from Model 5 in the main paper.
1264 . estimates use "$raw_resultsfolder/m4_nopre"

1265 .         *Note: Selected for comparability with welfare excercise later, which
1266 .         *       uses variant of Model 2 b/c need full 5k sample of CA to identify numerous
1267 .         *       interaction terms, and because it is conservative in the sense that it is
1268 .         *       lowest among most credible estimates.
1269 .
1270 . *Estimate corresponding capitalization effects for completed cleanups. These are
1271 . *       estimates for Model 5 in Table 4 of final paper.
1272 . eststo Ests5: nlcom ///
>         (D3PostMid_0_750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
> -1)*100)) ///
>         (MeanDeltaP_PostMid_0_750: $pbarpost*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-
> _b[dmidCA750_1500]))-1)) ///
>                         /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])
> )-1)))) ///
>         (TotalDeltaP_0_750m: $Nparcels*($pbarpost*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1
> 500]-_b[dmidCA750_1500]))-1)) ///
>                         /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])
> )-1))))),  post

D3PostMi~750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
MeanDelt~750: 206950*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1))
>                       /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
> -1)))
TotalDe~750m: 25415*(206950*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])
> )-1))                         /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_
> 1500]))-1))))
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750	5.940802	2.268634	2.62	0.009	1.494361	10.38724
MeanDeltaP_PostMid_0_750	11605.06	4183.15	2.77	0.006	3406.234	19803.88
TotalDeltaP_0_750m	2.95e+08	1.06e+08	2.77	0.006	8.66e+07	5.03e+08

```
1273 .
1274 . *Estimate corresponding capitalization effects if open cleanups completed.
1275 . estimates use "$raw_resultsfolder/m4_nopre"

1276 . eststo Ests5mid_to_post: nlcom ///
>         (D3PostMid_0_750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
> -1)*100)) ///
>         (MeanDeltaP_PostMid_0_750: $pbarpost*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-
> _b[dmidCA750_1500]))-1)) ///
>                         /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])
> )-1)))) ///
>         (TotalDeltaP_0_750m: $Nmidparcels*($pbarpost*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA75
> 0_1500]-_b[dmidCA750_1500]))-1)) ///
>                         /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])
> )-1))))),  post
```

D3PostMi~750: **((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)**
MeanDelt~750: **206950*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1))**
> **/(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))**
> **-1)))**
TotalDe~750m: **41973*(206950*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])**
> **)-1))** **/(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_**
> **1500]))-1))))**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750	**5.940802**	**2.268634**	**2.62**	**0.009**	**1.494361**	**10.38724**
MeanDeltaP_PostMid_0_750	**11605.06**	**4183.15**	**2.77**	**0.006**	**3406.234**	**19803.88**
TotalDeltaP_0_750m	**4.87e+08**	**1.76e+08**	**2.77**	**0.006**	**1.43e+08**	**8.31e+08**

```
1277 .
1278 . *Export capitalization estimates
1279 . esttab Ests5 using "$resultsfolder\CapitalizationEffects_Model5.csv", replace label csv compress ///
     >         nogaps nolines star (* 0.10 ** 0.05 *** 0.01) b(4) /*se(4)*/ ci(4) scalars(ll)
     (output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\Capitalizat
     > ionEffects Model5.csv)

1280 .
1281 .
1282 . ********************************************************************************
1283 . ********************************************************************************
1284 .
1285 . *Estimate lowerbound of ex post welfare effects of cleanup based on variation of
1286 . *       Banzhaf (2021) framework.  Based on variants of Model 5 in main paper. Estimates
1287 . *       below correspond to Model 5' and 5'' in Table 4 of final paper.
1288 .
1289 .
1290 . *Bring in data and set up global variables
1291 . use "$salesfolder\All_Sales_Final_Cleaned_CA5k", clear

1292 .
1293 . count
       2,538,344

1294 . drop if dpreCA0_750>0 | dpreCA750_1500>0
     (16,268 observations deleted)

1295 . count
       2,522,076

1296 .         *Note: Sample size went from 2,538,334 to 2,522,076, dropping 16,268 sales.
1297 .
1298 . *Create Region variable based on states
1299 . gen region=""
     (2,522,076 missing values generated)

1300 . replace region="Northeast" if State=="CT"|State=="ME"|State=="MA"|State=="NH"| ///
     >         State=="RI"|State=="VT"|State=="NJ"|State=="NY"|State=="PA"
     variable region was str1 now str9
     (708,296 real changes made)
```

```
1301 . replace region="Midwest" if State=="IN"|State=="IL"|State=="MI"|State=="OH"| ///
     >         State=="WI"|State=="IA"|State=="CT"|State=="KS"|State=="MN"|State=="MO"| ///
     >         State=="NE"|State=="ND"|State=="SD"
     (583,362 real changes made)

1302 . replace region="South" if State=="DE"|State=="DC"|State=="FL"|State=="GA"| ///
     >         State=="MD"|State=="NC"|State=="SC"|State=="VA"|State=="WV"|State=="AL"| ///
     >         State=="KY"|State=="MS"|State=="TN"|State=="AR"|State=="LA"|State=="OK"| ///
     >         State=="TX"
     (797,431 real changes made)

1303 . replace region="West" if State=="AZ"|State=="CO"|State=="ID"|State=="NM"| ///
     >         State=="MT"|State=="UT"|State=="NV"|State=="WY"|State=="AK"|State=="CA"| ///
     >         State=="HI"|State=="OR"|State=="WA"
     (572,680 real changes made)

1304 . count
       2,522,076

1305 . tab region
```

region	Freq.	Percent	Cum.
Midwest	583,362	23.13	23.13
Northeast	568,603	22.55	45.68
South	797,431	31.62	77.29
West	572,680	22.71	100.00
Total	2,522,076	100.00	

```
1306 . tab region dpostCA0_750
```

region	dpostCA0_750		Total
	0	1	
Midwest	581,805	1,557	583,362
Northeast	567,422	1,181	568,603
South	796,778	653	797,431
West	572,612	68	572,680
Total	2,518,617	3,459	2,522,076

```
1307 .
1308 . *generate interactions with relevant CA variables
1309 . gen R1=(region=="Northeast")

1310 . gen R2=(region=="Midwest")

1311 . gen R3=(region=="South")

1312 . gen R4=(region=="West")

1313 .
```

```
1314 . *house and location attributes global var
1315 . global house lnacres lnacres_miss stories stories_miss bathtot bathtot_miss lnsqft ///
     >         lnsqft_miss age agesq age_miss p_nbdev_2011_200 p_nbdev_2011_500 hwy500m

1316 .
1317 . *code up global variable for TSD counts
1318 . local vars  cntTSD

1319 . foreach v of local vars {
       2.         global `v' `v'0_250 `v'250_500 `v'500_750 `v'750_1000 ///
     >                `v'1000_1250 `v'1250_1500 `v'1500_1750 `v'1750_2000 ///
     >                `v'2000_2250 `v'2250_2500 `v'2500_2750 `v'2750_3000 ///
     >                `v'3000_3250 `v'3250_3500 `v'3500_3750 `v'3750_4000 ///
     >                `v'4000_4250 `v'4250_4500 `v'4500_4750 `v'4750_5000
       3.         }

1320 .
1321 . *Loop through to create interaction terms between stage dummies and year of sale
1322 . local stages /*pre*/ mid post

1323 . foreach s of local stages {
       2.         forvalues y=2000/2017 {
       3.                 gen d`s'CA0_750_y`y'=0
       4.                 replace d`s'CA0_750_y`y'=d`s'CA0_750 if tranyr==`y'
       5.                 gen d`s'CA750_1500_y`y'=0
       6.                 replace d`s'CA750_1500_y`y'=d`s'CA750_1500 if tranyr==`y'
       7.                 }
       8.         global d`s'CA_Yrs d`s'CA0_750_y* d`s'CA750_1500_y*
       9.         }
     (1,504 real changes made)
     (6,562 real changes made)
     (1,428 real changes made)
     (6,944 real changes made)
     (1,597 real changes made)
     (7,813 real changes made)
     (1,672 real changes made)
     (8,036 real changes made)
     (1,798 real changes made)
     (8,500 real changes made)
     (1,952 real changes made)
     (9,984 real changes made)
     (1,851 real changes made)
     (9,202 real changes made)
     (1,674 real changes made)
     (7,740 real changes made)
     (1,607 real changes made)
     (7,619 real changes made)
     (1,721 real changes made)
     (7,326 real changes made)
     (1,412 real changes made)
     (6,519 real changes made)
     (1,290 real changes made)
     (5,803 real changes made)
     (1,279 real changes made)
     (6,000 real changes made)
     (1,333 real changes made)
     (6,363 real changes made)
     (1,209 real changes made)
     (5,843 real changes made)
     (1,243 real changes made)
     (5,959 real changes made)
     (1,149 real changes made)
     (6,076 real changes made)
     (1,316 real changes made)
     (6,431 real changes made)
```

```
(35 real changes made)
(232 real changes made)
(22 real changes made)
(279 real changes made)
(37 real changes made)
(319 real changes made)
(52 real changes made)
(460 real changes made)
(66 real changes made)
(639 real changes made)
(84 real changes made)
(787 real changes made)
(87 real changes made)
(769 real changes made)
(102 real changes made)
(817 real changes made)
(84 real changes made)
(779 real changes made)
(103 real changes made)
(745 real changes made)
(146 real changes made)
(954 real changes made)
(163 real changes made)
(1,007 real changes made)
(164 real changes made)
(1,123 real changes made)
(189 real changes made)
(1,288 real changes made)
(225 real changes made)
(1,474 real changes made)
(288 real changes made)
(1,796 real changes made)
(462 real changes made)
(2,535 real changes made)
(523 real changes made)
(2,945 real changes made)

1324 .         *Note: Changed inner loop to just go to 2017, instead of 2018.
1325 .         *       Therefore, 2018 will be omitted category.
1326 .
1327 .
1328 . ********************************************************************************
1329 .
1330 . *Model 5' in Table 4 and Figure 6 of final paper.
1331 .
1332 . *set base global variables for omitted 2018 category
1333 . local stages /*pre*/ mid post

1334 . foreach s of local stages {
       2.         global d`s'CA d`s'CA0_750 d`s'CA750_1500
       3.         }

1335 .
```

```
1336 . reghdfe lnrprice /*$dpreCA $dpreCA_Yrs*/ $dmidCA $dmidCA_Yrs $dpostCA $dpostCA_Yrs, ///
>         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
>         i.mycntyid#i.tranyr#c.($house) i.tranyr#c.($cntTSD) ///
>         i.R1#c.($cntTSD) i.R2#c.($cntTSD) i.R3#c.($cntTSD) i.R4#c.($cntTSD)) ///
>         vce(cluster mycntyid)  compact poolsize(20)
(dropped 672 singleton observations)
(MWFE estimator converged in 1517 iterations)

HDFE Linear regression                            Number of obs   =  2,521,404
Absorbing 9 HDFE groups                           F(  76,    376) =       6.80
Statistics robust to heteroskedasticity           Prob > F        =     0.0000
                                                  R-squared       =     0.7907
                                                  Adj R-squared   =     0.7841
                                                  Within R-sq.    =     0.0001
Number of clusters (mycntyid) =        377        Root MSE        =     0.3910

                                  (Std. err. adjusted for 377 clusters in mycntyid)
```

lnrprice	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
dmidCA0_750	-.00438	.026463	-0.17	0.869	-.0564139	.0476539
dmidCA750_1500	.0035913	.0143436	0.25	0.802	-.0246124	.031795
dmidCA0_750_y2000	.0336577	.0362255	0.93	0.353	-.0375722	.1048876
dmidCA0_750_y2001	-.0113642	.0376833	-0.30	0.763	-.0854606	.0627321
dmidCA0_750_y2002	.0085238	.0370912	0.23	0.818	-.0644083	.0814559
dmidCA0_750_y2003	.0326922	.032637	1.00	0.317	-.0314817	.096866
dmidCA0_750_y2004	.0089903	.031938	0.28	0.778	-.053809	.0717897
dmidCA0_750_y2005	.0083303	.0310737	0.27	0.789	-.0527696	.0694303
dmidCA0_750_y2006	.0182036	.0304262	0.60	0.550	-.0416231	.0780304
dmidCA0_750_y2007	.0252191	.0322007	0.78	0.434	-.0380969	.088535
dmidCA0_750_y2008	.0136829	.0295699	0.46	0.644	-.0444601	.0718259
dmidCA0_750_y2009	.0158701	.0370601	0.43	0.669	-.0570009	.0887412
dmidCA0_750_y2010	-.0346546	.0353531	-0.98	0.328	-.1041692	.03486
dmidCA0_750_y2011	-.059474	.0385107	-1.54	0.123	-.1351975	.0162494
dmidCA0_750_y2012	-.0182112	.0317468	-0.57	0.567	-.0806348	.0442124
dmidCA0_750_y2013	-.0043459	.0337434	-0.13	0.898	-.0706953	.0620035
dmidCA0_750_y2014	-.0308205	.0305721	-1.01	0.314	-.0909341	.0292932
dmidCA0_750_y2015	-.0433507	.0307978	-1.41	0.160	-.1039082	.0172067
dmidCA0_750_y2016	.0016478	.0241827	0.07	0.946	-.0459024	.049198
dmidCA0_750_y2017	-.0150641	.0247851	-0.61	0.544	-.0637989	.0336707
dmidCA750_1500_y2000	-.0073759	.0184212	-0.40	0.689	-.0435975	.0288456
dmidCA750_1500_y2001	-.0001872	.0178354	-0.01	0.992	-.0352568	.0348825
dmidCA750_1500_y2002	-.0002618	.0151808	-0.02	0.986	-.0301117	.0295881
dmidCA750_1500_y2003	.0129154	.0151639	0.85	0.395	-.0169012	.042732
dmidCA750_1500_y2004	-.0047442	.0160764	-0.30	0.768	-.0363551	.0268667
dmidCA750_1500_y2005	-.0165421	.0139808	-1.18	0.237	-.0440324	.0109483
dmidCA750_1500_y2006	-.0004219	.0162693	-0.03	0.979	-.0324122	.0315684
dmidCA750_1500_y2007	-.0179266	.0156691	-1.14	0.253	-.0487367	.0128835
dmidCA750_1500_y2008	-.0062119	.0165874	-0.37	0.708	-.0388276	.0264037
dmidCA750_1500_y2009	-.0075887	.0137078	-0.55	0.580	-.0345423	.019365
dmidCA750_1500_y2010	-.00992	.013217	-0.75	0.453	-.0359084	.0160684
dmidCA750_1500_y2011	-.0016325	.0172495	-0.09	0.925	-.0355502	.0322851
dmidCA750_1500_y2012	-.0197848	.0153692	-1.29	0.199	-.0500052	.0104356
dmidCA750_1500_y2013	-.0076565	.0176689	-0.43	0.665	-.0423988	.0270857
dmidCA750_1500_y2014	-.0221165	.0162735	-1.36	0.175	-.054115	.0098821
dmidCA750_1500_y2015	.0028139	.0142274	0.20	0.843	-.0251614	.0307893
dmidCA750_1500_y2016	-.0204238	.0132845	-1.54	0.125	-.046545	.0056975
dmidCA750_1500_y2017	.0040317	.012476	0.32	0.747	-.0204998	.0285631
dpostCA0_750	.0351895	.0287761	1.22	0.222	-.0213928	.0917718
dpostCA750_1500	.0128809	.0194311	0.66	0.508	-.0253264	.0510882
dpostCA0_750_y2000	-.083286	.1210761	-0.69	0.492	-.321357	.154785
dpostCA0_750_y2001	.0852117	.0681249	1.25	0.212	-.0487418	.2191652
dpostCA0_750_y2002	.0553727	.0691427	0.80	0.424	-.080582	.1913275
dpostCA0_750_y2003	.0854743	.0394928	2.16	0.031	.0078198	.1631287

dpostCA0_750_y2004	-.080867	.0625296	-1.29	0.197	-.2038186	.0420845
dpostCA0_750_y2005	.0517759	.0517624	1.00	0.318	-.0500042	.1535561
dpostCA0_750_y2006	.0501023	.0760712	0.66	0.511	-.0994761	.1996806
dpostCA0_750_y2007	-.0864455	.0684177	-1.26	0.207	-.2209748	.0480838
dpostCA0_750_y2008	.0698147	.0525391	1.33	0.185	-.0334925	.1731219
dpostCA0_750_y2009	-.112277	.0774403	-1.45	0.148	-.2645473	.0399934
dpostCA0_750_y2010	-.0144454	.0701616	-0.21	0.837	-.1524038	.1235129
dpostCA0_750_y2011	-.0398228	.0405667	-0.98	0.327	-.1195888	.0399432
dpostCA0_750_y2012	.0078906	.0499207	0.16	0.874	-.0902681	.1060493
dpostCA0_750_y2013	.0503292	.0468632	1.07	0.284	-.0418176	.142476
dpostCA0_750_y2014	-.0120321	.0319099	-0.38	0.706	-.0747763	.0507121
dpostCA0_750_y2015	-.0006763	.0343849	-0.02	0.984	-.0682871	.0669344
dpostCA0_750_y2016	.0073385	.0285161	0.26	0.797	-.0487324	.0634095
dpostCA0_750_y2017	.0630282	.031646	1.99	0.047	.0008028	.1252536
dpostCA750_1500_y2000	-.0519124	.0596941	-0.87	0.385	-.1692885	.0654637
dpostCA750_1500_y2001	-.0552733	.0378852	-1.46	0.145	-.1297668	.0192202
dpostCA750_1500_y2002	-.0167373	.0399714	-0.42	0.676	-.0953327	.0618582
dpostCA750_1500_y2003	-.0069831	.0376546	-0.19	0.853	-.0810231	.0670569
dpostCA750_1500_y2004	-.0328968	.0330222	-1.00	0.320	-.0978281	.0320345
dpostCA750_1500_y2005	-.0413558	.0322563	-1.28	0.201	-.1047812	.0220696
dpostCA750_1500_y2006	-.0264078	.0280309	-0.94	0.347	-.0815248	.0287092
dpostCA750_1500_y2007	-.0137809	.0300491	-0.46	0.647	-.0728663	.0453046
dpostCA750_1500_y2008	-.0482932	.0284828	-1.70	0.091	-.1042988	.0077124
dpostCA750_1500_y2009	-.058607	.0444159	-1.32	0.188	-.1459417	.0287277
dpostCA750_1500_y2010	-.0289723	.0293121	-0.99	0.324	-.0866085	.028664
dpostCA750_1500_y2011	-.026388	.0249295	-1.06	0.291	-.0754066	.0226306
dpostCA750_1500_y2012	-.0171513	.0256934	-0.67	0.505	-.067672	.0333694
dpostCA750_1500_y2013	-.0156882	.0389386	-0.40	0.687	-.0922528	.0608764
dpostCA750_1500_y2014	-.0210202	.0247919	-0.85	0.397	-.0697684	.0277281
dpostCA750_1500_y2015	-.0135195	.0194342	-0.70	0.487	-.0517328	.0246939
dpostCA750_1500_y2016	-.0181911	.0163147	-1.12	0.266	-.0502707	.0138884
dpostCA750_1500_y2017	-.0115279	.0162365	-0.71	0.478	-.0434536	.0203978
_cons	12.13467	.0005446	2.2e+04	0.000	12.13359	12.13574

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs	
mycntyid#tranyr	5582	5582	**0**	*
mycntyid#quarter	1448	1448	**0**	*
mytractid	6852	0	**6852**	
mycntyid#tranyr#c.lnacres	5582	15	**5567**	?
mycntyid#tranyr#c.lnacres_miss	5582	4416	**1166**	?
mycntyid#tranyr#c.stories	5582	645	**4937**	?
mycntyid#tranyr#c.stories_miss	5582	1728	**3854**	?
mycntyid#tranyr#c.bathtot	5582	1404	**4178**	?
mycntyid#tranyr#c.bathtot_miss	5582	1427	**4155**	?
mycntyid#tranyr#c.lnsqft	5582	362	**5220**	?
mycntyid#tranyr#c.lnsqft_miss	5582	2817	**2765**	?
mycntyid#tranyr#c.age	5582	360	**5222**	?
mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1531	**4051**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?
tranyr#c.cntTSD0_250	19	0	**19**	?
tranyr#c.cntTSD250_500	19	0	**19**	?
tranyr#c.cntTSD500_750	19	0	**19**	?
tranyr#c.cntTSD750_1000	19	0	**19**	?
tranyr#c.cntTSD1000_1250	19	0	**19**	?
tranyr#c.cntTSD1250_1500	19	0	**19**	?
tranyr#c.cntTSD1500_1750	19	0	**19**	?
tranyr#c.cntTSD1750_2000	19	0	**19**	?
tranyr#c.cntTSD2000_2250	19	0	**19**	?

tranyr#c.cntTSD2250_2500	19	0	**19**	?
tranyr#c.cntTSD2500_2750	19	0	**19**	?
tranyr#c.cntTSD2750_3000	19	0	**19**	?
tranyr#c.cntTSD3000_3250	19	0	**19**	?
tranyr#c.cntTSD3250_3500	19	0	**19**	?
tranyr#c.cntTSD3500_3750	19	0	**19**	?
tranyr#c.cntTSD3750_4000	19	0	**19**	?
tranyr#c.cntTSD4000_4250	19	0	**19**	?
tranyr#c.cntTSD4250_4500	19	0	**19**	?
tranyr#c.cntTSD4500_4750	19	0	**19**	?
tranyr#c.cntTSD4750_5000	19	0	**19**	?
R1#c.cntTSD0_250	2	0	**2**	?
R1#c.cntTSD250_500	2	0	**2**	?
R1#c.cntTSD500_750	2	0	**2**	?
R1#c.cntTSD750_1000	2	0	**2**	?
R1#c.cntTSD1000_1250	2	0	**2**	?
R1#c.cntTSD1250_1500	2	0	**2**	?
R1#c.cntTSD1500_1750	2	0	**2**	?
R1#c.cntTSD1750_2000	2	0	**2**	?
R1#c.cntTSD2000_2250	2	0	**2**	?
R1#c.cntTSD2250_2500	2	0	**2**	?
R1#c.cntTSD2500_2750	2	0	**2**	?
R1#c.cntTSD2750_3000	2	0	**2**	?
R1#c.cntTSD3000_3250	2	0	**2**	?
R1#c.cntTSD3250_3500	2	0	**2**	?
R1#c.cntTSD3500_3750	2	0	**2**	?
R1#c.cntTSD3750_4000	2	0	**2**	?
R1#c.cntTSD4000_4250	2	0	**2**	?
R1#c.cntTSD4250_4500	2	0	**2**	?
R1#c.cntTSD4500_4750	2	0	**2**	?
R1#c.cntTSD4750_5000	2	0	**2**	?
R2#c.cntTSD0_250	2	0	**2**	?
R2#c.cntTSD250_500	2	0	**2**	?
R2#c.cntTSD500_750	2	0	**2**	?
R2#c.cntTSD750_1000	2	0	**2**	?
R2#c.cntTSD1000_1250	2	0	**2**	?
R2#c.cntTSD1250_1500	2	0	**2**	?
R2#c.cntTSD1500_1750	2	0	**2**	?
R2#c.cntTSD1750_2000	2	0	**2**	?
R2#c.cntTSD2000_2250	2	0	**2**	?
R2#c.cntTSD2250_2500	2	0	**2**	?
R2#c.cntTSD2500_2750	2	0	**2**	?
R2#c.cntTSD2750_3000	2	0	**2**	?
R2#c.cntTSD3000_3250	2	0	**2**	?
R2#c.cntTSD3250_3500	2	0	**2**	?
R2#c.cntTSD3500_3750	2	0	**2**	?
R2#c.cntTSD3750_4000	2	0	**2**	?
R2#c.cntTSD4000_4250	2	0	**2**	?
R2#c.cntTSD4250_4500	2	0	**2**	?
R2#c.cntTSD4500_4750	2	0	**2**	?
R2#c.cntTSD4750_5000	2	0	**2**	?
R3#c.cntTSD0_250	2	0	**2**	?
R3#c.cntTSD250_500	2	0	**2**	?
R3#c.cntTSD500_750	2	0	**2**	?
R3#c.cntTSD750_1000	2	0	**2**	?
R3#c.cntTSD1000_1250	2	0	**2**	?
R3#c.cntTSD1250_1500	2	0	**2**	?
R3#c.cntTSD1500_1750	2	0	**2**	?
R3#c.cntTSD1750_2000	2	0	**2**	?
R3#c.cntTSD2000_2250	2	0	**2**	?
R3#c.cntTSD2250_2500	2	0	**2**	?
R3#c.cntTSD2500_2750	2	0	**2**	?
R3#c.cntTSD2750_3000	2	0	**2**	?
R3#c.cntTSD3000_3250	2	0	**2**	?
R3#c.cntTSD3250_3500	2	0	**2**	?

R3#c.cntTSD3500_3750	2	0	**2**	?
R3#c.cntTSD3750_4000	2	0	**2**	?
R3#c.cntTSD4000_4250	2	0	**2**	?
R3#c.cntTSD4250_4500	2	0	**2**	?
R3#c.cntTSD4500_4750	2	0	**2**	?
R3#c.cntTSD4750_5000	2	0	**2**	?
R4#c.cntTSD0_250	2	0	**2**	?
R4#c.cntTSD250_500	2	0	**2**	?
R4#c.cntTSD500_750	2	0	**2**	?
R4#c.cntTSD750_1000	2	0	**2**	?
R4#c.cntTSD1000_1250	2	0	**2**	?
R4#c.cntTSD1250_1500	2	0	**2**	?
R4#c.cntTSD1500_1750	2	0	**2**	?
R4#c.cntTSD1750_2000	2	0	**2**	?
R4#c.cntTSD2000_2250	2	0	**2**	?
R4#c.cntTSD2250_2500	2	0	**2**	?
R4#c.cntTSD2500_2750	2	0	**2**	?
R4#c.cntTSD2750_3000	2	0	**2**	?
R4#c.cntTSD3000_3250	2	0	**2**	?
R4#c.cntTSD3250_3500	2	0	**2**	?
R4#c.cntTSD3500_3750	2	0	**2**	?
R4#c.cntTSD3750_4000	2	0	**2**	?
R4#c.cntTSD4000_4250	2	0	**2**	?
R4#c.cntTSD4250_4500	2	0	**2**	?
R4#c.cntTSD4500_4750	2	0	**2**	?
R4#c.cntTSD4750_5000	2	0	**2**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
1337 . eststo m5v2 /*v2 is for variant 2 of model 5*/

1338 . estimates save "$raw_resultsfolder\m5v2", replace
     file D:\RCRA_benefits2\model_estimates2023_05\m5v2.ster saved

1339 .
1340 . *Wald test of incremental difference relative to omitted 2018 coef jointly
1341 . *       significant or not.
1342 .         *Note: Essentially this tells us if deviation from flat line significant across
1343 .         *       years, and if not significant, then can pool coefficients across years.
1344 . estimates restore m5v2
     (results m5v2 are active now)

1345 . test (_b[dpostCA0_750_y2000]=_b[dpostCA0_750_y2001]=_b[dpostCA0_750_y2002] ///
     >         =_b[dpostCA0_750_y2003]=_b[dpostCA0_750_y2004]=_b[dpostCA0_750_y2005] ///
     >         =_b[dpostCA0_750_y2006]=_b[dpostCA0_750_y2007]=_b[dpostCA0_750_y2008] ///
     >         =_b[dpostCA0_750_y2009]=_b[dpostCA0_750_y2010]=_b[dpostCA0_750_y2011] ///
     >         =_b[dpostCA0_750_y2012]=_b[dpostCA0_750_y2013]=_b[dpostCA0_750_y2014] ///
     >         =_b[dpostCA0_750_y2015]=_b[dpostCA0_750_y2016]=_b[dpostCA0_750_y2017]=0) ///
     >         (_b[dmidCA0_750_y2000]=_b[dmidCA0_750_y2001]=_b[dmidCA0_750_y2002] ///
     >         =_b[dmidCA0_750_y2003]=_b[dmidCA0_750_y2004]=_b[dmidCA0_750_y2005] ///
     >         =_b[dmidCA0_750_y2006]=_b[dmidCA0_750_y2007]=_b[dmidCA0_750_y2008] ///
     >         =_b[dmidCA0_750_y2009]=_b[dmidCA0_750_y2010]=_b[dmidCA0_750_y2011] ///
     >         =_b[dmidCA0_750_y2012]=_b[dmidCA0_750_y2013]=_b[dmidCA0_750_y2014] ///
     >         =_b[dmidCA0_750_y2015]=_b[dmidCA0_750_y2016]=_b[dmidCA0_750_y2017]=0) ///
     >         (_b[dpostCA750_1500_y2000]=_b[dpostCA750_1500_y2001]=_b[dpostCA750_1500_y2002] ///
     >         =_b[dpostCA750_1500_y2003]=_b[dpostCA750_1500_y2004]=_b[dpostCA750_1500_y2005] ///
     >         =_b[dpostCA750_1500_y2006]=_b[dpostCA750_1500_y2007]=_b[dpostCA750_1500_y2008] ///
     >         =_b[dpostCA750_1500_y2009]=_b[dpostCA750_1500_y2010]=_b[dpostCA750_1500_y2011] ///
     >         =_b[dpostCA750_1500_y2012]=_b[dpostCA750_1500_y2013]=_b[dpostCA750_1500_y2014] ///
     >         =_b[dpostCA750_1500_y2015]=_b[dpostCA750_1500_y2016]=_b[dpostCA750_1500_y2017]=0) ///
     >         (_b[dmidCA750_1500_y2000]=_b[dmidCA750_1500_y2001]=_b[dmidCA750_1500_y2002] ///
     >         =_b[dmidCA750_1500_y2003]=_b[dmidCA750_1500_y2004]=_b[dmidCA750_1500_y2005] ///
     >         =_b[dmidCA750_1500_y2006]=_b[dmidCA750_1500_y2007]=_b[dmidCA750_1500_y2008] ///
     >         =_b[dmidCA750_1500_y2009]=_b[dmidCA750_1500_y2010]=_b[dmidCA750_1500_y2011] ///
```

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>         =_b[dmidCA750_1500_y2012]=_b[dmidCA750_1500_y2013]=_b[dmidCA750_1500_y2014] ///
>         =_b[dmidCA750_1500_y2015]=_b[dmidCA750_1500_y2016]=_b[dmidCA750_1500_y2017]=0)

 ( 1)  dpostCA0_750_y2000 - dpostCA0_750_y2001 = 0
 ( 2)  dpostCA0_750_y2000 - dpostCA0_750_y2002 = 0
 ( 3)  dpostCA0_750_y2000 - dpostCA0_750_y2003 = 0
 ( 4)  dpostCA0_750_y2000 - dpostCA0_750_y2004 = 0
 ( 5)  dpostCA0_750_y2000 - dpostCA0_750_y2005 = 0
 ( 6)  dpostCA0_750_y2000 - dpostCA0_750_y2006 = 0
 ( 7)  dpostCA0_750_y2000 - dpostCA0_750_y2007 = 0
 ( 8)  dpostCA0_750_y2000 - dpostCA0_750_y2008 = 0
 ( 9)  dpostCA0_750_y2000 - dpostCA0_750_y2009 = 0
 (10)  dpostCA0_750_y2000 - dpostCA0_750_y2010 = 0
 (11)  dpostCA0_750_y2000 - dpostCA0_750_y2011 = 0
 (12)  dpostCA0_750_y2000 - dpostCA0_750_y2012 = 0
 (13)  dpostCA0_750_y2000 - dpostCA0_750_y2013 = 0
 (14)  dpostCA0_750_y2000 - dpostCA0_750_y2014 = 0
 (15)  dpostCA0_750_y2000 - dpostCA0_750_y2015 = 0
 (16)  dpostCA0_750_y2000 - dpostCA0_750_y2016 = 0
 (17)  dpostCA0_750_y2000 - dpostCA0_750_y2017 = 0
 (18)  dpostCA0_750_y2000 = 0
 (19)  dmidCA0_750_y2000 - dmidCA0_750_y2001 = 0
 (20)  dmidCA0_750_y2000 - dmidCA0_750_y2002 = 0
 (21)  dmidCA0_750_y2000 - dmidCA0_750_y2003 = 0
 (22)  dmidCA0_750_y2000 - dmidCA0_750_y2004 = 0
 (23)  dmidCA0_750_y2000 - dmidCA0_750_y2005 = 0
 (24)  dmidCA0_750_y2000 - dmidCA0_750_y2006 = 0
 (25)  dmidCA0_750_y2000 - dmidCA0_750_y2007 = 0
 (26)  dmidCA0_750_y2000 - dmidCA0_750_y2008 = 0
 (27)  dmidCA0_750_y2000 - dmidCA0_750_y2009 = 0
 (28)  dmidCA0_750_y2000 - dmidCA0_750_y2010 = 0
 (29)  dmidCA0_750_y2000 - dmidCA0_750_y2011 = 0
 (30)  dmidCA0_750_y2000 - dmidCA0_750_y2012 = 0
 (31)  dmidCA0_750_y2000 - dmidCA0_750_y2013 = 0
 (32)  dmidCA0_750_y2000 - dmidCA0_750_y2014 = 0
 (33)  dmidCA0_750_y2000 - dmidCA0_750_y2015 = 0
 (34)  dmidCA0_750_y2000 - dmidCA0_750_y2016 = 0
 (35)  dmidCA0_750_y2000 - dmidCA0_750_y2017 = 0
 (36)  dmidCA0_750_y2000 = 0
 (37)  dpostCA750_1500_y2000 - dpostCA750_1500_y2001 = 0
 (38)  dpostCA750_1500_y2000 - dpostCA750_1500_y2002 = 0
 (39)  dpostCA750_1500_y2000 - dpostCA750_1500_y2003 = 0
 (40)  dpostCA750_1500_y2000 - dpostCA750_1500_y2004 = 0
 (41)  dpostCA750_1500_y2000 - dpostCA750_1500_y2005 = 0
 (42)  dpostCA750_1500_y2000 - dpostCA750_1500_y2006 = 0
 (43)  dpostCA750_1500_y2000 - dpostCA750_1500_y2007 = 0
 (44)  dpostCA750_1500_y2000 - dpostCA750_1500_y2008 = 0
 (45)  dpostCA750_1500_y2000 - dpostCA750_1500_y2009 = 0
 (46)  dpostCA750_1500_y2000 - dpostCA750_1500_y2010 = 0
 (47)  dpostCA750_1500_y2000 - dpostCA750_1500_y2011 = 0
 (48)  dpostCA750_1500_y2000 - dpostCA750_1500_y2012 = 0
 (49)  dpostCA750_1500_y2000 - dpostCA750_1500_y2013 = 0
 (50)  dpostCA750_1500_y2000 - dpostCA750_1500_y2014 = 0
 (51)  dpostCA750_1500_y2000 - dpostCA750_1500_y2015 = 0
 (52)  dpostCA750_1500_y2000 - dpostCA750_1500_y2016 = 0
 (53)  dpostCA750_1500_y2000 - dpostCA750_1500_y2017 = 0
 (54)  dpostCA750_1500_y2000 = 0
 (55)  dmidCA750_1500_y2000 - dmidCA750_1500_y2001 = 0
 (56)  dmidCA750_1500_y2000 - dmidCA750_1500_y2002 = 0
 (57)  dmidCA750_1500_y2000 - dmidCA750_1500_y2003 = 0
 (58)  dmidCA750_1500_y2000 - dmidCA750_1500_y2004 = 0
 (59)  dmidCA750_1500_y2000 - dmidCA750_1500_y2005 = 0
 (60)  dmidCA750_1500_y2000 - dmidCA750_1500_y2006 = 0
 (61)  dmidCA750_1500_y2000 - dmidCA750_1500_y2007 = 0
 (62)  dmidCA750_1500_y2000 - dmidCA750_1500_y2008 = 0
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 (63)  dmidCA750_1500_y2000 - dmidCA750_1500_y2009 = 0
 (64)  dmidCA750_1500_y2000 - dmidCA750_1500_y2010 = 0
 (65)  dmidCA750_1500_y2000 - dmidCA750_1500_y2011 = 0
 (66)  dmidCA750_1500_y2000 - dmidCA750_1500_y2012 = 0
 (67)  dmidCA750_1500_y2000 - dmidCA750_1500_y2013 = 0
 (68)  dmidCA750_1500_y2000 - dmidCA750_1500_y2014 = 0
 (69)  dmidCA750_1500_y2000 - dmidCA750_1500_y2015 = 0
 (70)  dmidCA750_1500_y2000 - dmidCA750_1500_y2016 = 0
 (71)  dmidCA750_1500_y2000 - dmidCA750_1500_y2017 = 0
 (72)  dmidCA750_1500_y2000 = 0

       F( 72,   376) =    4.85
            Prob > F =    0.0000

1346 .         *Note: Reject null hypothesis that CA mid and post coefficients constant
1347 .         *       over time (i.e., equal to omitted 2018 category) - F(72, 376)=4.85, p=0.0000
1348 .
1349 .
1350 .
1351 . *Estimate Direct Unmediated Effect (DUE) along 2018 price surface. These are
1352 . *       estimates used to populate Model 5' results in Table 4 of main text, as well
1353 . *       as Figure 6.
1354 . *       Note: 2018 is the omitted year category, so don't need to put year interaction
1355 . *             coefficients in below calculations for 2018 (first three calculations).
1356 . estimates restore m5v2
     (results m5v2 are active now)

1357 . eststo TE5v2: nlcom ///
     >         (D3PostMid_0_750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
     > -1)*100)) ///
     >         (MeanDeltaP_PostMid_0_750: $pbarpost*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-
     > _b[dmidCA750_1500]))-1)) ///
     >                         /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])
     > )-1)))) ///
     >         (TotalDeltaP_0_750m: $Nparcels*($pbarpost*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1
     > 500]-_b[dmidCA750_1500]))-1)) ///
     >                         /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])
     > )-1)))) ///
     >         (D3PostMid_0_750_y2017: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2017]-(_b[dmidCA0_750]+_b[dmidCA0_7
     > 50_y2017])) ///
     >                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2017]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2017]
     > )))-1)*100)) ///
     >         (D3PostMid_0_750_y2016: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2016]-(_b[dmidCA0_750]+_b[dmidCA0_7
     > 50_y2016])) ///
     >                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2016]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2016]
     > )))-1)*100)) ///
     >         (D3PostMid_0_750_y2015: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2015]-(_b[dmidCA0_750]+_b[dmidCA0_7
     > 50_y2015])) ///
     >                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2015]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2015]
     > )))-1)*100)) ///
     >         (D3PostMid_0_750_y2014: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2014]-(_b[dmidCA0_750]+_b[dmidCA0_7
     > 50_y2014])) ///
     >                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2014]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2014]
     > )))-1)*100)) ///
     >         (D3PostMid_0_750_y2013: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2013]-(_b[dmidCA0_750]+_b[dmidCA0_7
     > 50_y2013])) ///
     >                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2013]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2013]
     > )))-1)*100)) ///
     >         (D3PostMid_0_750_y2012: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2012]-(_b[dmidCA0_750]+_b[dmidCA0_7
     > 50_y2012])) ///
     >                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2012]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2012]
     > )))-1)*100)) ///
     >         (D3PostMid_0_750_y2011: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2011]-(_b[dmidCA0_750]+_b[dmidCA0_7
     > 50_y2011])) ///
     >                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2011]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2011]
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> )))-1)*100)) ///
>         (D3PostMid_0_750_y2010: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2010]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2010])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2010]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2010]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2009: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2009]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2009])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2009]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2009]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2008: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2008]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2008])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2008]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2008]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2007: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2007]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2007])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2007]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2007]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2006: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2006]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2006])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2006]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2006]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2005: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2005]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2005])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2005]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2005]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2004: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2004]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2004])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2004]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2004]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2003: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2003]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2003])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2003]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2003]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2002: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2002]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2002])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2002]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2002]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2001: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2001]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2001])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2001]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2001]
> )))-1)*100)) ///
>         (D3PostMid_0_750_y2000: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2000]-(_b[dmidCA0_750]+_b[dmidCA0_7
> 50_y2000])) ///
>                 -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2000]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2000]
> )))-1)*100)),  post

D3PostMi~750: ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100)
MeanDelt~750: 206950*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1))
>                       /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))
> -1)))
TotalDe~750m: 25415*(206950*(((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500])
> )-1))                         /(1+(exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_
> 1500]))-1))))
D3PostM~2017: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2017]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2017]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2017]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2017])))-1)*1
> 00)
D3PostM~2016: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2016]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2016]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2016]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2016])))-1)*1
> 00)
D3PostM~2015: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2015]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2015]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2015]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2015])))-1)*1
> 00)
D3PostM~2014: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2014]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2014]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2014]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2014])))-1)*1
> 00)
```

```
D3PostM~2013: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2013]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2013]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2013]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2013])))-1)*1
> 00)
D3PostM~2012: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2012]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2012]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2012]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2012])))-1)*1
> 00)
D3PostM~2011: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2011]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2011]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2011]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2011])))-1)*1
> 00)
D3PostM~2010: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2010]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2010]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2010]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2010])))-1)*1
> 00)
D3PostM~2009: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2009]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2009]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2009]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2009])))-1)*1
> 00)
D3PostM~2008: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2008]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2008]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2008]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2008])))-1)*1
> 00)
D3PostM~2007: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2007]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2007]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2007]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2007])))-1)*1
> 00)
D3PostM~2006: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2006]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2006]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2006]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2006])))-1)*1
> 00)
D3PostM~2005: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2005]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2005]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2005]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2005])))-1)*1
> 00)
D3PostM~2004: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2004]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2004]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2004]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2004])))-1)*1
> 00)
D3PostM~2003: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2003]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2003]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2003]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2003])))-1)*1
> 00)
D3PostM~2002: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2002]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2002]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2002]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2002])))-1)*1
> 00)
D3PostM~2001: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2001]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2001]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2001]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2001])))-1)*1
> 00)
D3PostM~2000: ((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2000]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2000]))
>         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2000]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2000])))-1)*1
> 00)
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750	3.074297	3.074932	1.00	0.317	-2.952458	9.101053
MeanDeltaP_PostMid_0_750	6172.498	5989.632	1.03	0.303	-5566.966	17911.96
TotalDeltaP_0_750m	1.57e+08	1.52e+08	1.03	0.303	-1.41e+08	4.55e+08
D3PostMid_0_750_y2017	13.19386	4.887067	2.70	0.007	3.615384	22.77234
D3PostMid_0_750_y2016	3.431355	2.713897	1.26	0.206	-1.887786	8.750496
D3PostMid_0_750_y2015	9.339517	3.633707	2.57	0.010	2.217582	16.46145
D3PostMid_0_750_y2014	4.914123	3.980982	1.23	0.217	-2.888458	12.7167
D3PostMid_0_750_y2013	9.744704	4.579438	2.13	0.033	.7691712	18.72024
D3PostMid_0_750_y2012	5.521879	5.759783	0.96	0.338	-5.767088	16.81085
D3PostMid_0_750_y2011	7.754636	5.183063	1.50	0.135	-2.40398	17.91325
D3PostMid_0_750_y2010	7.201634	6.872749	1.05	0.295	-6.268706	20.67197
D3PostMid_0_750_y2009	-4.576842	5.161998	-0.89	0.375	-14.69417	5.540489
D3PostMid_0_750_y2008	13.71134	4.719247	2.91	0.004	4.461786	22.96089
D3PostMid_0_750_y2007	-8.19748	5.81108	-1.41	0.158	-19.58699	3.192028
D3PostMid_0_750_y2006	9.216772	9.172283	1.00	0.315	-8.760572	27.19412
D3PostMid_0_750_y2005	10.35577	4.891642	2.12	0.034	.7683282	19.94321
D3PostMid_0_750_y2004	-3.093632	5.270868	-0.59	0.557	-13.42434	7.23708
D3PostMid_0_750_y2003	10.84476	3.658131	2.96	0.003	3.674955	18.01456
D3PostMid_0_750_y2002	9.812508	7.953936	1.23	0.217	-5.776921	25.40194

D3PostMid_0_750_y2001	**19.95445**	**8.024666**	**2.49**	**0.013**	**4.226393**	**35.68251**
D3PostMid_0_750_y2000	**-4.125231**	**7.223132**	**-0.57**	**0.568**	**-18.28231**	**10.03185**

```
1358 .
1359 .
1360 . *Redo total welfare calculation, but with 2017 as assumed ex post year
1361 . estimates restore m5v2
     (results m5v2 are active now)

1362 . nlcom $Nparcels*$pbarpost*((exp(((_b[dpostCA0_750]+_b[dpostCA0_750_y2017])-(_b[dmidCA0_750]+_b[dmidCA0_750_y
     > 2017])) ///
     >         -((_b[dpostCA750_1500]+_b[dpostCA750_1500_y2017])-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2017])))-1)
     >  ///
     >         /(1+(exp(((_b[dpostCA0_750]+_b[dpostCA0_750_y2017])-(_b[dmidCA0_750]+_b[dmidCA0_750_y2017])) ///
     >         -((_b[dpostCA750_1500]+_b[dpostCA750_1500_y2017])-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2017])))-1)
     > ))

       _nl_1: 25415*206950*((exp(((_b[dpostCA0_750]+_b[dpostCA0_750_y2017])-(_b[dmidCA0_750]+_b[dmidCA0_750_y2
     > 017]))         -((_b[dpostCA750_1500]+_b[dpostCA750_1500_y2017])-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2017
     > ])))-1)         /(1+(exp(((_b[dpostCA0_750]+_b[dpostCA0_750_y2017])-(_b[dmidCA0_750]+_b[dmidCA0_750_y2017]))
     >          -((_b[dpostCA750_1500]+_b[dpostCA750_1500_y2017])-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2017])))-1
     > )))
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
_nl_1	**6.13e+08**	**2.01e+08**	**3.06**	**0.002**	**2.20e+08**	**1.01e+09**

```
1363 .
1364 .
1365 . *test for whether statistically different across years
1366 . estimates restore m5v2
     (results m5v2 are active now)

1367 . testnl ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2017]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2017])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2017]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2017])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2016]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2016])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2016]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2016])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2015]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2015])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2015]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2015])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2014]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2014])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2014]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2014])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2013]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2013])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2013]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2013])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2012]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2012])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2012]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2012])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2011]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2011])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2011]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2011])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2010]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2010])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2010]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2010])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2009]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2009])) ///
     >                        -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2009]-(_b[dmidCA750_1500]+_b[dmidCA750_150
     > 0_y2009])))-1)*100) ///
     >                =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2008]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2008])) ///
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>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2008]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2008])))-1)*100) ///
>                 =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2007]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2007])) ///
>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2007]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2007])))-1)*100) ///
>                 =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2006]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2006])) ///
>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2006]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2006])))-1)*100) ///
>                 =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2005]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2005])) ///
>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2005]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2005])))-1)*100) ///
>                 =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2004]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2004])) ///
>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2004]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2004])))-1)*100) ///
>                 =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2003]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2003])) ///
>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2003]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2003])))-1)*100) ///
>                 =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2002]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2002])) ///
>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2002]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2002])))-1)*100) ///
>                 =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2001]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2001])) ///
>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2001]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2001])))-1)*100) ///
>                 =((exp((_b[dpostCA0_750]+_b[dpostCA0_750_y2000]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2000])) ///
>                         -(_b[dpostCA750_1500]+_b[dpostCA750_1500_y2000]-(_b[dmidCA750_1500]+_b[dmidCA750_150
> 0_y2000])))-1)*100)

  (1)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2017]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2017])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2017]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2017])))-1)*100)
  (2)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2016]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2016])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2016]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2016])))-1)*100)
  (3)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2015]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2015])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2015]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2015])))-1)*100)
  (4)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2014]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2014])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2014]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2014])))-1)*100)
  (5)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2013]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2013])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2013]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2013])))-1)*100)
  (6)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2012]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2012])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2012]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2012])))-1)*100)
  (7)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2011]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2011])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2011]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2011])))-1)*100)
  (8)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2010]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2010])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2010]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2010])))-1)*100)
  (9)  ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2009]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2009])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2009]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2009])))-1)*100)
  (10) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2008]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2008])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2008]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2008])))-1)*100)
  (11) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2007]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2007])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2007]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2007])))-1)*100)
  (12) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2006]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2006])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2006]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2006])))-1)*100)
  (13) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2005]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2005])) -(_b[dpostCA750_1500]+_b[dpost
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```
> CA750_1500_y2005]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2005])))-1)*100)
  (14) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2004]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2004])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2004]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2004])))-1)*100)
  (15) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2003]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2003])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2003]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2003])))-1)*100)
  (16) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2002]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2002])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2002]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2002])))-1)*100)
  (17) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2001]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2001])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2001]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2001])))-1)*100)
  (18) ((exp((_b[dpostCA0_750]-_b[dmidCA0_750])-(_b[dpostCA750_1500]-_b[dmidCA750_1500]))-1)*100) = ((exp((_b[
> dpostCA0_750]+_b[dpostCA0_750_y2000]-(_b[dmidCA0_750]+_b[dmidCA0_750_y2000])) -(_b[dpostCA750_1500]+_b[dpost
> CA750_1500_y2000]-(_b[dmidCA750_1500]+_b[dmidCA750_1500_y2000])))-1)*100)

           chi2(18) =      41.16
         Prob > chi2 =       0.0014

. *Note: Reject null hypothesis that estimates statistically equal (chi2(18)=41.16, p=0.0014)
.
.
. *Export results for table
. esttab TE5v2 using ///
>         "$resultsfolder\TreatmentEffectEsts_Model5v2_forWelfareCalcs.csv", replace label ///
>         csv compress nogaps nolines star ///
>         (* 0.10 ** 0.05 *** 0.01) b(4) ci(4) scalars(ll)
(output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\TreatmentEf
> fectEsts Model5v2 forWelfareCalcs.csv)

. *Export results for all years for graph and table
. esttab TE5v2 using "$resultsfolder\TreatmentEffectEsts_Model5v2_AllYears.csv", replace label ///
>         csv compress nogaps nolines star (* 0.10 ** 0.05 *** 0.01) b(2) se(4) scalars(ll)
(output written to C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\TreatmentEf
> fectEsts_Model5v2_AllYears.csv)

. esttab TE5v2 using TreatmentEffectEsts_Model5v2_AllYearsForGraph.csv, replace label ///
>                 plain csv compress nogaps nolines nostar b(4) ci(4) wide noparentheses
(output written to TreatmentEffectEsts_Model5v2_AllYearsForGraph.csv)

.
.
. *Tabulation for graphic of number of identifying observations by year; Figure A8
. *       in Appendix G.
. tab tranyr dpostCA0_750
```

tranyr	dpostCA0_750 0	1	Total
2000	133,368	35	133,403
2001	137,401	22	137,423
2002	145,421	37	145,458
2003	151,060	52	151,112
2004	156,323	66	156,389
2005	172,381	84	172,465
2006	156,738	87	156,825
2007	134,821	102	134,923
2008	129,326	84	129,410
2009	123,238	103	123,341
2010	115,711	146	115,857
2011	106,125	163	106,288
2012	109,791	164	109,955
2013	117,719	189	117,908
2014	112,419	225	112,644

2015	**113,713**	**288**	**114,001**
2016	**126,211**	**462**	**126,673**
2017	**135,081**	**523**	**135,604**
2018	**141,770**	**627**	**142,397**
Total	**2,518,617**	**3,459**	**2,522,076**

```
1381 .
1382 .
1383 . ********************************************************************************
1384 .
1385 . *Model 5'' in Table 4 and Figure 6 of final paper.
1386 .
1387 . *add trend line
1388 . gen trend=tranyr-2000

1389 . tab tranyr trend
```

	trend						
tranyr	0	1	2	3	4	5	Total
2000	**133,403**	**0**	**0**	**0**	**0**	**0**	**133,403**
2001	**0**	**137,423**	**0**	**0**	**0**	**0**	**137,423**
2002	**0**	**0**	**145,458**	**0**	**0**	**0**	**145,458**
2003	**0**	**0**	**0**	**151,112**	**0**	**0**	**151,112**
2004	**0**	**0**	**0**	**0**	**156,389**	**0**	**156,389**
2005	**0**	**0**	**0**	**0**	**0**	**172,465**	**172,465**
2006	**0**	**0**	**0**	**0**	**0**	**0**	**156,825**
2007	**0**	**0**	**0**	**0**	**0**	**0**	**134,923**
2008	**0**	**0**	**0**	**0**	**0**	**0**	**129,410**
2009	**0**	**0**	**0**	**0**	**0**	**0**	**123,341**
2010	**0**	**0**	**0**	**0**	**0**	**0**	**115,857**
2011	**0**	**0**	**0**	**0**	**0**	**0**	**106,288**
2012	**0**	**0**	**0**	**0**	**0**	**0**	**109,955**
2013	**0**	**0**	**0**	**0**	**0**	**0**	**117,908**
2014	**0**	**0**	**0**	**0**	**0**	**0**	**112,644**
2015	**0**	**0**	**0**	**0**	**0**	**0**	**114,001**
2016	**0**	**0**	**0**	**0**	**0**	**0**	**126,673**
2017	**0**	**0**	**0**	**0**	**0**	**0**	**135,604**
2018	**0**	**0**	**0**	**0**	**0**	**0**	**142,397**
Total	**133,403**	**137,423**	**145,458**	**151,112**	**156,389**	**172,465**	**2,522,076**

	trend						
tranyr	6	7	8	9	10	11	Total
2000	**0**	**0**	**0**	**0**	**0**	**0**	**133,403**
2001	**0**	**0**	**0**	**0**	**0**	**0**	**137,423**
2002	**0**	**0**	**0**	**0**	**0**	**0**	**145,458**
2003	**0**	**0**	**0**	**0**	**0**	**0**	**151,112**
2004	**0**	**0**	**0**	**0**	**0**	**0**	**156,389**
2005	**0**	**0**	**0**	**0**	**0**	**0**	**172,465**
2006	**156,825**	**0**	**0**	**0**	**0**	**0**	**156,825**
2007	**0**	**134,923**	**0**	**0**	**0**	**0**	**134,923**
2008	**0**	**0**	**129,410**	**0**	**0**	**0**	**129,410**
2009	**0**	**0**	**0**	**123,341**	**0**	**0**	**123,341**
2010	**0**	**0**	**0**	**0**	**115,857**	**0**	**115,857**
2011	**0**	**0**	**0**	**0**	**0**	**106,288**	**106,288**
2012	**0**	**0**	**0**	**0**	**0**	**0**	**109,955**
2013	**0**	**0**	**0**	**0**	**0**	**0**	**117,908**
2014	**0**	**0**	**0**	**0**	**0**	**0**	**112,644**
2015	**0**	**0**	**0**	**0**	**0**	**0**	**114,001**
2016	**0**	**0**	**0**	**0**	**0**	**0**	**126,673**
2017	**0**	**0**	**0**	**0**	**0**	**0**	**135,604**

2018	**0**	**0**	**0**	**0**	**0**	**0**	**142,397**
Total	**156,825**	**134,923**	**129,410**	**123,341**	**115,857**	**106,288**	**2,522,076**

	trend						
tranyr	12	13	14	15	16	17	Total
2000	**0**	**0**	**0**	**0**	**0**	**0**	**133,403**
2001	**0**	**0**	**0**	**0**	**0**	**0**	**137,423**
2002	**0**	**0**	**0**	**0**	**0**	**0**	**145,458**
2003	**0**	**0**	**0**	**0**	**0**	**0**	**151,112**
2004	**0**	**0**	**0**	**0**	**0**	**0**	**156,389**
2005	**0**	**0**	**0**	**0**	**0**	**0**	**172,465**
2006	**0**	**0**	**0**	**0**	**0**	**0**	**156,825**
2007	**0**	**0**	**0**	**0**	**0**	**0**	**134,923**
2008	**0**	**0**	**0**	**0**	**0**	**0**	**129,410**
2009	**0**	**0**	**0**	**0**	**0**	**0**	**123,341**
2010	**0**	**0**	**0**	**0**	**0**	**0**	**115,857**
2011	**0**	**0**	**0**	**0**	**0**	**0**	**106,288**
2012	**109,955**	**0**	**0**	**0**	**0**	**0**	**109,955**
2013	**0**	**117,908**	**0**	**0**	**0**	**0**	**117,908**
2014	**0**	**0**	**112,644**	**0**	**0**	**0**	**112,644**
2015	**0**	**0**	**0**	**114,001**	**0**	**0**	**114,001**
2016	**0**	**0**	**0**	**0**	**126,673**	**0**	**126,673**
2017	**0**	**0**	**0**	**0**	**0**	**135,604**	**135,604**
2018	**0**	**0**	**0**	**0**	**0**	**0**	**142,397**
Total	**109,955**	**117,908**	**112,644**	**114,001**	**126,673**	**135,604**	**2,522,076**

	trend	
tranyr	18	Total
2000	**0**	**133,403**
2001	**0**	**137,423**
2002	**0**	**145,458**
2003	**0**	**151,112**
2004	**0**	**156,389**
2005	**0**	**172,465**
2006	**0**	**156,825**
2007	**0**	**134,923**
2008	**0**	**129,410**
2009	**0**	**123,341**
2010	**0**	**115,857**
2011	**0**	**106,288**
2012	**0**	**109,955**
2013	**0**	**117,908**
2014	**0**	**112,644**
2015	**0**	**114,001**
2016	**0**	**126,673**
2017	**0**	**135,604**
2018	**142,397**	**142,397**
Total	**142,397**	**2,522,076**

```
1390 . *interact trend line with CA stage and bin dummies
1391 . local stages /*pre*/ mid post

1392 . foreach s of local stages {
  2.         gen d`s'CA0_750_trend = d`s'CA0_750*trend
  3.         gen d`s'CA750_1500_trend = d`s'CA750_1500*trend
  4.         *set global for intercepts of trend lines (i.e., just the pre, mid, and post
1393 .         *       dummies)
1394 .         global d`s'CA d`s'CA0_750 d`s'CA750_1500 /*d`s'CA1500_5000*/
  5.         }

1395 .
1396 . *Regression 5'': With linear trend in CAs effects across years.
1397 . reghdfe lnrprice /*$dpreCA*/ $dmidCA $dpostCA ///
>         /*dpreCA0_750_trend dpreCA750_1500_trend*/ dmidCA0_750_trend dmidCA750_1500_trend ///
>         dpostCA0_750_trend dpostCA750_1500_trend, ///
>         absorb(i.mycntyid#i.tranyr i.mycntyid#i.quarter i.mytractid ///
>         i.mycntyid#i.tranyr#c.($house) i.tranyr#c.($cntTSD) ///
>         i.R1#c.($cntTSD) i.R2#c.($cntTSD) i.R3#c.($cntTSD) i.R4#c.($cntTSD)) ///
>         vce(cluster mycntyid)  compact poolsize(20)
(dropped 672 singleton observations)
(MWFE estimator converged in 1517 iterations)

HDFE Linear regression                            Number of obs   =  2,521,404
Absorbing 9 HDFE groups                           F(   8,    376) =       1.72
Statistics robust to heteroskedasticity           Prob > F        =     0.0917
                                                  R-squared       =     0.7907
                                                  Adj R-squared   =     0.7841
                                                  Within R-sq.    =     0.0000
Number of clusters (mycntyid) =        377        Root MSE        =     0.3910

                                  (Std. err. adjusted for 377 clusters in mycntyid)
------------------------------------------------------------------------------
             |               Robust
    lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
    dmidCA0_750 |    .016563   .019842     0.83   0.404    -.0224523    .0555783
  dmidCA750_1500 |   .0001436   .0097788     0.01   0.988    -.0190844    .0193715
    dpostCA0_750 |   .0210942   .0361106     0.58   0.559    -.0499098    .0920982
  dpostCA750_1500 |   -.029592   .0282026    -1.05   0.295    -.0850465    .0258626
dmidCA0_750_trend |  -.0024924   .0016689    -1.49   0.136    -.0057741    .0007892
dmidCA750_1500_trend |  -.0003246   .0008011    -0.41   0.686    -.0018998    .0012506
  dpostCA0_750_trend |   .0016168   .0026523     0.61   0.543    -.0035985    .0068321
dpostCA750_1500_trend |   .0017951   .0018194     0.99   0.324    -.0017824    .0053727
        _cons |   12.13466   .0005463  2.2e+04   0.000     12.13359    12.13574
------------------------------------------------------------------------------

Absorbed degrees of freedom:
-----------------------------------------------------------------------------
                  Absorbed FE | Categories  - Redundant  = Num. Coefs   |
------------------------------+----------------------------------------------
          mycntyid#tranyr |       5582        5582           0     *
        mycntyid#quarter |       1448        1448           0     *
              mytractid |       6852           0        6852
   mycntyid#tranyr#c.lnacres |       5582          15        5567     ?
mycntyid#tranyr#c.lnacres_miss |       5582        4416        1166     ?
   mycntyid#tranyr#c.stories |       5582         645        4937     ?
mycntyid#tranyr#c.stories_miss |       5582        1728        3854     ?
   mycntyid#tranyr#c.bathtot |       5582        1404        4178     ?
mycntyid#tranyr#c.bathtot_miss |       5582        1427        4155     ?
    mycntyid#tranyr#c.lnsqft |       5582         362        5220     ?
 mycntyid#tranyr#c.lnsqft_miss |       5582        2817        2765     ?
      mycntyid#tranyr#c.age |       5582         360        5222     ?
     mycntyid#tranyr#c.agesq |       5582         360        5222     ?
  mycntyid#tranyr#c.age_miss |       5582        1531        4051     ?
-----------------------------------------------------------------------------
```

mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?
tranyr#c.cntTSD0_250	19	0	**19**	?
tranyr#c.cntTSD250_500	19	0	**19**	?
tranyr#c.cntTSD500_750	19	0	**19**	?
tranyr#c.cntTSD750_1000	19	0	**19**	?
tranyr#c.cntTSD1000_1250	19	0	**19**	?
tranyr#c.cntTSD1250_1500	19	0	**19**	?
tranyr#c.cntTSD1500_1750	19	0	**19**	?
tranyr#c.cntTSD1750_2000	19	0	**19**	?
tranyr#c.cntTSD2000_2250	19	0	**19**	?
tranyr#c.cntTSD2250_2500	19	0	**19**	?
tranyr#c.cntTSD2500_2750	19	0	**19**	?
tranyr#c.cntTSD2750_3000	19	0	**19**	?
tranyr#c.cntTSD3000_3250	19	0	**19**	?
tranyr#c.cntTSD3250_3500	19	0	**19**	?
tranyr#c.cntTSD3500_3750	19	0	**19**	?
tranyr#c.cntTSD3750_4000	19	0	**19**	?
tranyr#c.cntTSD4000_4250	19	0	**19**	?
tranyr#c.cntTSD4250_4500	19	0	**19**	?
tranyr#c.cntTSD4500_4750	19	0	**19**	?
tranyr#c.cntTSD4750_5000	19	0	**19**	?
R1#c.cntTSD0_250	2	0	**2**	?
R1#c.cntTSD250_500	2	0	**2**	?
R1#c.cntTSD500_750	2	0	**2**	?
R1#c.cntTSD750_1000	2	0	**2**	?
R1#c.cntTSD1000_1250	2	0	**2**	?
R1#c.cntTSD1250_1500	2	0	**2**	?
R1#c.cntTSD1500_1750	2	0	**2**	?
R1#c.cntTSD1750_2000	2	0	**2**	?
R1#c.cntTSD2000_2250	2	0	**2**	?
R1#c.cntTSD2250_2500	2	0	**2**	?
R1#c.cntTSD2500_2750	2	0	**2**	?
R1#c.cntTSD2750_3000	2	0	**2**	?
R1#c.cntTSD3000_3250	2	0	**2**	?
R1#c.cntTSD3250_3500	2	0	**2**	?
R1#c.cntTSD3500_3750	2	0	**2**	?
R1#c.cntTSD3750_4000	2	0	**2**	?
R1#c.cntTSD4000_4250	2	0	**2**	?
R1#c.cntTSD4250_4500	2	0	**2**	?
R1#c.cntTSD4500_4750	2	0	**2**	?
R1#c.cntTSD4750_5000	2	0	**2**	?
R2#c.cntTSD0_250	2	0	**2**	?
R2#c.cntTSD250_500	2	0	**2**	?
R2#c.cntTSD500_750	2	0	**2**	?
R2#c.cntTSD750_1000	2	0	**2**	?
R2#c.cntTSD1000_1250	2	0	**2**	?
R2#c.cntTSD1250_1500	2	0	**2**	?
R2#c.cntTSD1500_1750	2	0	**2**	?
R2#c.cntTSD1750_2000	2	0	**2**	?
R2#c.cntTSD2000_2250	2	0	**2**	?
R2#c.cntTSD2250_2500	2	0	**2**	?
R2#c.cntTSD2500_2750	2	0	**2**	?
R2#c.cntTSD2750_3000	2	0	**2**	?
R2#c.cntTSD3000_3250	2	0	**2**	?
R2#c.cntTSD3250_3500	2	0	**2**	?
R2#c.cntTSD3500_3750	2	0	**2**	?
R2#c.cntTSD3750_4000	2	0	**2**	?
R2#c.cntTSD4000_4250	2	0	**2**	?
R2#c.cntTSD4250_4500	2	0	**2**	?
R2#c.cntTSD4500_4750	2	0	**2**	?
R2#c.cntTSD4750_5000	2	0	**2**	?
R3#c.cntTSD0_250	2	0	**2**	?
R3#c.cntTSD250_500	2	0	**2**	?

R3#c.cntTSD500_750	2	0	**2**	?
R3#c.cntTSD750_1000	2	0	**2**	?
R3#c.cntTSD1000_1250	2	0	**2**	?
R3#c.cntTSD1250_1500	2	0	**2**	?
R3#c.cntTSD1500_1750	2	0	**2**	?
R3#c.cntTSD1750_2000	2	0	**2**	?
R3#c.cntTSD2000_2250	2	0	**2**	?
R3#c.cntTSD2250_2500	2	0	**2**	?
R3#c.cntTSD2500_2750	2	0	**2**	?
R3#c.cntTSD2750_3000	2	0	**2**	?
R3#c.cntTSD3000_3250	2	0	**2**	?
R3#c.cntTSD3250_3500	2	0	**2**	?
R3#c.cntTSD3500_3750	2	0	**2**	?
R3#c.cntTSD3750_4000	2	0	**2**	?
R3#c.cntTSD4000_4250	2	0	**2**	?
R3#c.cntTSD4250_4500	2	0	**2**	?
R3#c.cntTSD4500_4750	2	0	**2**	?
R3#c.cntTSD4750_5000	2	0	**2**	?
R4#c.cntTSD0_250	2	0	**2**	?
R4#c.cntTSD250_500	2	0	**2**	?
R4#c.cntTSD500_750	2	0	**2**	?
R4#c.cntTSD750_1000	2	0	**2**	?
R4#c.cntTSD1000_1250	2	0	**2**	?
R4#c.cntTSD1250_1500	2	0	**2**	?
R4#c.cntTSD1500_1750	2	0	**2**	?
R4#c.cntTSD1750_2000	2	0	**2**	?
R4#c.cntTSD2000_2250	2	0	**2**	?
R4#c.cntTSD2250_2500	2	0	**2**	?
R4#c.cntTSD2500_2750	2	0	**2**	?
R4#c.cntTSD2750_3000	2	0	**2**	?
R4#c.cntTSD3000_3250	2	0	**2**	?
R4#c.cntTSD3250_3500	2	0	**2**	?
R4#c.cntTSD3500_3750	2	0	**2**	?
R4#c.cntTSD3750_4000	2	0	**2**	?
R4#c.cntTSD4000_4250	2	0	**2**	?
R4#c.cntTSD4250_4500	2	0	**2**	?
R4#c.cntTSD4500_4750	2	0	**2**	?
R4#c.cntTSD4750_5000	2	0	**2**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
1398 . eststo m5v3

1399 . estimates save "$raw_resultsfolder\m5v3", replace
     file D:\RCRA_benefits2\model_estimates2023_05\m5v3.ster saved

1400 .
1401 . *test joint signifigance of relevant slope terms
1402 . estimates restore m5v3
     (results m5v3 are active now)

1403 . estimates use "$raw_resultsfolder\m5v3"
```

```
1404 . /*
     > test dpreCA0_750_trend=dpreCA750_1500_trend=dmidCA0_750_trend=dmidCA750_1500_trend ///
     >         =dpostCA0_750_trend=dpostCA750_1500_trend=0
     >         *Note: Trend variables jointly insignificant (F(6, 376)=1.36, p=0.2303)
     > */
1405 . test /*dpreCA0_750_trend=dpreCA750_1500_trend=*/dmidCA0_750_trend=dmidCA750_1500_trend ///
     >         =dpostCA0_750_trend=dpostCA750_1500_trend=0

      ( 1)  dmidCA0_750_trend - dmidCA750_1500_trend = 0
      ( 2)  dmidCA0_750_trend - dpostCA0_750_trend = 0
      ( 3)  dmidCA0_750_trend - dpostCA750_1500_trend = 0
      ( 4)  dmidCA0_750_trend = 0

           F(  4,   376) =    1.11
                Prob > F =    0.3533

1406 .         *Note: Fail to reject null hypothesis that trend interactions statistically
1407 .         *       insignificant: F(4, 376)=1.11, p=0.3533.
1408 .
1409 . *Loop through and calculate percent change in price estimates for each year.
1410 . *       These are estimates used to populate Model 5'' results in Figure 6.
1411 . estimates use "$raw_resultsfolder\m5v3"

1412 . reghdfe /* Just reactivates results just brought back in. */

HDFE Linear regression                            Number of obs   =  2,521,404
Absorbing 9 HDFE groups                           F(   8,    376) =       1.72
Statistics robust to heteroskedasticity           Prob > F        =     0.0917
                                                  R-squared       =     0.7907
                                                  Adj R-squared   =     0.7841
                                                  Within R-sq.    =     0.0000
Number of clusters (mycntyid) =        377        Root MSE        =     0.3910

                                  (Std. err. adjusted for 377 clusters in mycntyid)
------------------------------------------------------------------------------
             |               Robust
    lnrprice |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
  dmidCA0_750 |    .016563   .019842     0.83   0.404    -.0224523    .0555783
dmidCA750_1500 |   .0001436   .0097788     0.01   0.988    -.0190844    .0193715
  dpostCA0_750 |   .0210942   .0361106     0.58   0.559    -.0499098    .0920982
dpostCA750_1500 |  -.029592   .0282026    -1.05   0.295    -.0850465    .0258626
dmidCA0_750_trend |  -.0024924   .0016689    -1.49   0.136    -.0057741    .0007892
dmidCA750_1500_trend |  -.0003246   .0008011    -0.41   0.686    -.0018998    .0012506
  dpostCA0_750_trend |   .0016168   .0026523     0.61   0.543    -.0035985    .0068321
dpostCA750_1500_trend |   .0017951   .0018194     0.99   0.324    -.0017824    .0053727
       _cons |   12.13466   .0005463  2.2e+04   0.000     12.13359    12.13574
------------------------------------------------------------------------------

Absorbed degrees of freedom:
-----------------------------------------------------------------------------
                  Absorbed FE | Categories  - Redundant  = Num. Coefs   |
------------------------------+----------------------------------------------
          mycntyid#tranyr |      5582        5582           0     *
         mycntyid#quarter |      1448        1448           0     *
               mytractid |      6852           0        6852
    mycntyid#tranyr#c.lnacres |      5582          15        5567     ?
mycntyid#tranyr#c.lnacres_miss |      5582        4416        1166     ?
    mycntyid#tranyr#c.stories |      5582         645        4937     ?
mycntyid#tranyr#c.stories_miss |      5582        1728        3854     ?
    mycntyid#tranyr#c.bathtot |      5582        1404        4178     ?
mycntyid#tranyr#c.bathtot_miss |      5582        1427        4155     ?
     mycntyid#tranyr#c.lnsqft |      5582         362        5220     ?
 mycntyid#tranyr#c.lnsqft_miss |      5582        2817        2765     ?
        mycntyid#tranyr#c.age |      5582         360        5222     ?
-----------------------------------------------------------------------------
```

mycntyid#tranyr#c.agesq	5582	360	**5222**	?
mycntyid#tranyr#c.age_miss	5582	1531	**4051**	?
mycntyid#tranyr#c.p_nbdev_2011_200	5582	1	**5581**	?
mycntyid#tranyr#c.p_nbdev_2011_500	5582	0	**5582**	?
mycntyid#tranyr#c.hwy500m	5582	318	**5264**	?
tranyr#c.cntTSD0_250	19	0	**19**	?
tranyr#c.cntTSD250_500	19	0	**19**	?
tranyr#c.cntTSD500_750	19	0	**19**	?
tranyr#c.cntTSD750_1000	19	0	**19**	?
tranyr#c.cntTSD1000_1250	19	0	**19**	?
tranyr#c.cntTSD1250_1500	19	0	**19**	?
tranyr#c.cntTSD1500_1750	19	0	**19**	?
tranyr#c.cntTSD1750_2000	19	0	**19**	?
tranyr#c.cntTSD2000_2250	19	0	**19**	?
tranyr#c.cntTSD2250_2500	19	0	**19**	?
tranyr#c.cntTSD2500_2750	19	0	**19**	?
tranyr#c.cntTSD2750_3000	19	0	**19**	?
tranyr#c.cntTSD3000_3250	19	0	**19**	?
tranyr#c.cntTSD3250_3500	19	0	**19**	?
tranyr#c.cntTSD3500_3750	19	0	**19**	?
tranyr#c.cntTSD3750_4000	19	0	**19**	?
tranyr#c.cntTSD4000_4250	19	0	**19**	?
tranyr#c.cntTSD4250_4500	19	0	**19**	?
tranyr#c.cntTSD4500_4750	19	0	**19**	?
tranyr#c.cntTSD4750_5000	19	0	**19**	?
R1#c.cntTSD0_250	2	0	**2**	?
R1#c.cntTSD250_500	2	0	**2**	?
R1#c.cntTSD500_750	2	0	**2**	?
R1#c.cntTSD750_1000	2	0	**2**	?
R1#c.cntTSD1000_1250	2	0	**2**	?
R1#c.cntTSD1250_1500	2	0	**2**	?
R1#c.cntTSD1500_1750	2	0	**2**	?
R1#c.cntTSD1750_2000	2	0	**2**	?
R1#c.cntTSD2000_2250	2	0	**2**	?
R1#c.cntTSD2250_2500	2	0	**2**	?
R1#c.cntTSD2500_2750	2	0	**2**	?
R1#c.cntTSD2750_3000	2	0	**2**	?
R1#c.cntTSD3000_3250	2	0	**2**	?
R1#c.cntTSD3250_3500	2	0	**2**	?
R1#c.cntTSD3500_3750	2	0	**2**	?
R1#c.cntTSD3750_4000	2	0	**2**	?
R1#c.cntTSD4000_4250	2	0	**2**	?
R1#c.cntTSD4250_4500	2	0	**2**	?
R1#c.cntTSD4500_4750	2	0	**2**	?
R1#c.cntTSD4750_5000	2	0	**2**	?
R2#c.cntTSD0_250	2	0	**2**	?
R2#c.cntTSD250_500	2	0	**2**	?
R2#c.cntTSD500_750	2	0	**2**	?
R2#c.cntTSD750_1000	2	0	**2**	?
R2#c.cntTSD1000_1250	2	0	**2**	?
R2#c.cntTSD1250_1500	2	0	**2**	?
R2#c.cntTSD1500_1750	2	0	**2**	?
R2#c.cntTSD1750_2000	2	0	**2**	?
R2#c.cntTSD2000_2250	2	0	**2**	?
R2#c.cntTSD2250_2500	2	0	**2**	?
R2#c.cntTSD2500_2750	2	0	**2**	?
R2#c.cntTSD2750_3000	2	0	**2**	?
R2#c.cntTSD3000_3250	2	0	**2**	?
R2#c.cntTSD3250_3500	2	0	**2**	?
R2#c.cntTSD3500_3750	2	0	**2**	?
R2#c.cntTSD3750_4000	2	0	**2**	?
R2#c.cntTSD4000_4250	2	0	**2**	?
R2#c.cntTSD4250_4500	2	0	**2**	?
R2#c.cntTSD4500_4750	2	0	**2**	?
R2#c.cntTSD4750_5000	2	0	**2**	?

R3#c.cntTSD0_250	2	0	**2**	?
R3#c.cntTSD250_500	2	0	**2**	?
R3#c.cntTSD500_750	2	0	**2**	?
R3#c.cntTSD750_1000	2	0	**2**	?
R3#c.cntTSD1000_1250	2	0	**2**	?
R3#c.cntTSD1250_1500	2	0	**2**	?
R3#c.cntTSD1500_1750	2	0	**2**	?
R3#c.cntTSD1750_2000	2	0	**2**	?
R3#c.cntTSD2000_2250	2	0	**2**	?
R3#c.cntTSD2250_2500	2	0	**2**	?
R3#c.cntTSD2500_2750	2	0	**2**	?
R3#c.cntTSD2750_3000	2	0	**2**	?
R3#c.cntTSD3000_3250	2	0	**2**	?
R3#c.cntTSD3250_3500	2	0	**2**	?
R3#c.cntTSD3500_3750	2	0	**2**	?
R3#c.cntTSD3750_4000	2	0	**2**	?
R3#c.cntTSD4000_4250	2	0	**2**	?
R3#c.cntTSD4250_4500	2	0	**2**	?
R3#c.cntTSD4500_4750	2	0	**2**	?
R3#c.cntTSD4750_5000	2	0	**2**	?
R4#c.cntTSD0_250	2	0	**2**	?
R4#c.cntTSD250_500	2	0	**2**	?
R4#c.cntTSD500_750	2	0	**2**	?
R4#c.cntTSD750_1000	2	0	**2**	?
R4#c.cntTSD1000_1250	2	0	**2**	?
R4#c.cntTSD1250_1500	2	0	**2**	?
R4#c.cntTSD1500_1750	2	0	**2**	?
R4#c.cntTSD1750_2000	2	0	**2**	?
R4#c.cntTSD2000_2250	2	0	**2**	?
R4#c.cntTSD2250_2500	2	0	**2**	?
R4#c.cntTSD2500_2750	2	0	**2**	?
R4#c.cntTSD2750_3000	2	0	**2**	?
R4#c.cntTSD3000_3250	2	0	**2**	?
R4#c.cntTSD3250_3500	2	0	**2**	?
R4#c.cntTSD3500_3750	2	0	**2**	?
R4#c.cntTSD3750_4000	2	0	**2**	?
R4#c.cntTSD4000_4250	2	0	**2**	?
R4#c.cntTSD4250_4500	2	0	**2**	?
R4#c.cntTSD4500_4750	2	0	**2**	?
R4#c.cntTSD4750_5000	2	0	**2**	?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation

```
1413 . eststo m5v3

1414 . foreach t of num 0(1)18 {
  2.         estimates restore m5v3
  3.         eststo Ests5v3_y`t': nlcom ///
>                 (D3PostMid_0_750_y: ((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*`t')) ///
>                         -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*`t'))) ///
>                         -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*`t')) ///
>                         -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*`t'))))-1)*100)), post
  4.         }
(results m5v3 are active now)

D3PostMid_~y: ((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*0)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*0
> ))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*0)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*0))
> ))-1)*100)
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**3.486058**	**2.938858**	**1.19**	**0.236**	**-2.273998**	**9.246114**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*1)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*1**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*1)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*1))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**3.692141**	**2.768071**	**1.33**	**0.182**	**-1.733178**	**9.117461**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*2)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*2**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*2)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*2))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**3.898635**	**2.605573**	**1.50**	**0.135**	**-1.208195**	**9.005465**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*3)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*3**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*3)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*3))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**4.10554**	**2.45327**	**1.67**	**0.094**	**-.7027815**	**8.913862**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*4)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*4**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*4)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*4))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**4.312857**	**2.313451**	**1.86**	**0.062**	**-.2214244**	**8.847138**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*5)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*5**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*5)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*5))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**4.520587**	**2.188803**	**2.07**	**0.039**	**.2306119**	**8.810562**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*6)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*6**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*6)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*6))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**4.72873**	**2.082362**	**2.27**	**0.023**	**.6473766**	**8.810084**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*7)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*7**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*7)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*7))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**4.937288**	**1.997367**	**2.47**	**0.013**	**1.022522**	**8.852055**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*8)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*8**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*8)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*8))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**5.146261**	**1.936983**	**2.66**	**0.008**	**1.349845**	**8.942678**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*9)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*9**
> **))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*9)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*9))**
> **))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**5.355651**	**1.9039**	**2.81**	**0.005**	**1.624075**	**9.087227**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*10)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]***
> **10))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*10)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]***
> **10))))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**5.565457**	**1.899898**	**2.93**	**0.003**	**1.841725**	**9.289189**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*11)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]***
> **11))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*11)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]***
> **11))))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**5.775682**	**1.925506**	**3.00**	**0.003**	**2.001759**	**9.549604**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*12)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*
> 12))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*12)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*
> 12))))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**5.986324**	**1.979917**	**3.02**	**0.002**	**2.105758**	**9.866891**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*13)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*
> 13))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*13)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*
> 13))))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**6.197387**	**2.061183**	**3.01**	**0.003**	**2.157542**	**10.23723**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*14)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*
> 14))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*14)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*
> 14))))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**6.408869**	**2.166601**	**2.96**	**0.003**	**2.162409**	**10.65533**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*15)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*
> 15))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*15)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*
> 15))))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**6.620773**	**2.293145**	**2.89**	**0.004**	**2.126292**	**11.11525**

(results m5v3 are active now)

D3PostMid_~y: **((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend]*16)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*
> 16))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*16)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*
> 16))))-1)*100)**

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**6.833099**	**2.437813**	**2.80**	**0.005**	**2.055073**	**11.61113**

(results m5v3 are active now)

```
D3PostMid_~y: ((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*17)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*
> 17))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*17)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*
> 17))))-1)*100)
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**7.045848**	**2.597851**	**2.71**	**0.007**	**1.954154**	**12.13754**

```
(results m5v3 are active now)

D3PostMid_~y: ((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18)) -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*
> 18))) -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18)) -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*
> 18))))-1)*100)
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750_y	**7.25902**	**2.770852**	**2.62**	**0.009**	**1.82825**	**12.68979**

```
1415 .
1416 . *2018 welfare calculations based on trend specification. These are
1417 . *       estimates used to populate Model 5'' results in Table 4 of main text.
1418 . estimates restore m5v3
(results m5v3 are active now)

1419 . eststo WelfareEsts_y2018: nlcom ///
>         (D3PostMid_0_750: ((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18)) ///
>                 -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*18))) ///
>                 -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18)) ///
>                 -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*18))))-1)*100)) ///
>         (MeanDeltaP_PostMid_0_750: $pbarpost*((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18)) ///
>                 -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*18))) ///
>                 -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18)) ///
>                 -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*18))))-1) ///
>                         /(1+(exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18)) ///
>                 -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*18))) ///
>                 -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18)) ///
>                 -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*18))))-1)))) ///
>         (TotalDeltaP_0_750m: $Nparcels*( $pbarpost*((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18)) //
> /
>                 -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*18))) ///
>                 -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18)) ///
>                 -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*18))))-1) ///
>                         /(1+(exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18)) ///
>                 -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*18))) ///
>                 -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18)) ///
>                 -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*18))))-1))))), post

D3PostMi~750: ((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18))                -(_b[dmidCA0_750]+(_b[dmi
> dCA0_750_trend]*18)))                -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18))
>  -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*18))))-1)*100)
MeanDelt~750: 206950*((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18))                -(_b[dmidCA0_750]+
> (_b[dmidCA0_750_trend]*18)))                -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18))
>         -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*18))))-1)                        /(1+(exp(((_b[dpost
> CA0_750]+(_b[dpostCA0_750_trend ]*18))                -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*18)))
>           -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18))                -(_b[dmidCA750_1500]+(_b[dm
> idCA750_1500_trend]*18))))-1)))
TotalDe~750m: 25415*( 206950*((exp(((_b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18))                -(_b[dmidC
> A0_750]+(_b[dmidCA0_750_trend]*18)))                -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18))
>                 -(_b[dmidCA750_1500]+(_b[dmidCA750_1500_trend]*18))))-1)                        /(1+(exp(((
> _b[dpostCA0_750]+(_b[dpostCA0_750_trend ]*18))                -(_b[dmidCA0_750]+(_b[dmidCA0_750_trend]*18))
> )                -((_b[dpostCA750_1500]+(_b[dpostCA750_1500_trend]*18))                -(_b[dmidCA750_1500
> ]+(_b[dmidCA750_1500_trend]*18))))-1))))
```

lnrprice	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
D3PostMid_0_750	**7.25902**	**2.770852**	**2.62**	**0.009**	**1.82825**	**12.68979**
MeanDeltaP_PostMid_0_750	**14005.85**	**4984.38**	**2.81**	**0.005**	**4236.649**	**23775.06**
TotalDeltaP_0_750m	**3.56e+08**	**1.27e+08**	**2.81**	**0.005**	**1.08e+08**	**6.04e+08**

```
1420 .
1421 . *Export results for table
1422 . esttab WelfareEsts_y2018 using ///
     >         "$resultsfolder\TreatmentEffectEsts_Model5v3_forWelfareCalcs.csv", replace label ///
     >         csv compress nogaps nolines star ///
     >         (* 0.10 ** 0.05 *** 0.01) b(4) ci(4) scalars(ll)
     (output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\TreatmentEf
     > fectEsts_Model5v3_forWelfareCalcs.csv)

1423 .
1424 . *Export results for all years for graph and table
1425 . esttab Ests5v3_y0 Ests5v3_y1 Ests5v3_y2 Ests5v3_y3 Ests5v3_y4 ///
     >         Ests5v3_y5 Ests5v3_y6 Ests5v3_y7 Ests5v3_y8 Ests5v3_y9 ///
     >         Ests5v3_y10 Ests5v3_y11 Ests5v3_y12 Ests5v3_y13 Ests5v3_y14 ///
     >         Ests5v3_y15 Ests5v3_y16 Ests5v3_y17 Ests5v3_y18 ///
     >         using "$resultsfolder\TreatmentEffectEsts_Model5v3_LinearTrend.csv", ///
     >         replace label mtitle("2000" "2001" "2002" "2003" "2004" "2005" "2006" "2007" ///
     >         "2008" "2009" "2010" "2011" "2012" "2013" "2014" "2015" "2016" "2017" "2018") ///
     >         csv compress nogaps nolines star (* 0.10 ** 0.05 *** 0.01) b(2) se(4) scalars(ll) ///
     >         keep(D3PostMid_0_750_y)
     (output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\TreatmentEf
     > fectEsts_Model5v3_LinearTrend.csv)

1426 .
1427 . esttab Ests5v3_y0 Ests5v3_y1 Ests5v3_y2 Ests5v3_y3 Ests5v3_y4 ///
     >         Ests5v3_y5 Ests5v3_y6 Ests5v3_y7 Ests5v3_y8 Ests5v3_y9 ///
     >         Ests5v3_y10 Ests5v3_y11 Ests5v3_y12 Ests5v3_y13 Ests5v3_y14 ///
     >         Ests5v3_y15 Ests5v3_y16 Ests5v3_y17 Ests5v3_y18 ///
     >         using "$resultsfolder\TreatmentEffectEsts_Model5v3_LinearTrend_ForGraphs.csv", ///
     >         replace label plain csv compress nogaps nolines nostar b(4) ci(4) ///
     >         wide noparentheses keep(D3PostMid_0_750_y)
     (output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\TreatmentEf
     > fectEsts_Model5v3_LinearTrend_ForGraphs.csv)

1428 .
1429 . *export hedonic regression results for appendix
1430 . esttab m5v2 using "$resultsfolder\HedonicReg_Model5v2_NoCEM.csv", replace label csv compress nogaps nolines
     > star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
     (output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\HedonicReg
     > Model5v2_NoCEM.csv)

1431 . esttab m5v3 using "$resultsfolder\HedonicReg_Model5v3_NoCEM.csv", replace label csv compress nogaps nolines
     > star (* 0.10 ** 0.05 *** 0.01) b(4) se(4) scalars(ll N_g) r2 ar2
     (output written to C:\Users\guignetdb\Documents\Research TEMP\RCRA analysis\results\results2023 05\HedonicReg
     > Model5v3_NoCEM.csv)
```

```
1432 .
1433 . *END
1434 .
1435 .
1436 .
1437 .
1438 .
end of do-file

1439 .
1440 .
1441 . *END
1442 .
1443 . *Close log file
1444 . log close
      name:  <unnamed>
       log:  C:\Users\guignetdb\Documents\Research_TEMP\RCRA_analysis\results\results2023_05\Full_Analysis_Log
> _2023_05_26.smcl
  log type:  smcl
 closed on:  29 May 2023, 15:26:59
```