## Say No To Drug-Free School Zones

Analyzing the Effects of Relaxing Drug-Free Zone Laws on Crime

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## Abstract

This paper analyzes the effects of relaxing Drug-Free Zone (DFZ) laws on crime. DFZ laws are long-standing and wide-spread sentencing laws that harshen the penalties for illegal drug-related activities committed in defined zones around schools and other locations where minors are expected to be present. They were originally created to discourage drug-related crime near and involving minors. However, their efficiency in doing so has not been rigorously evaluated. Using a difference-in-differences model, this paper estimates the effects of policy reforms that relax the severity of DFZ laws on various crime-related outcomes. The analysis yields no evidence of the policy reforms leading to increases in crime; the results do provide weakly significant evidence of possible reductions in the number of arrestees. Overall, these findings suggest that DFZ laws are generally not efficiently defined because their severity can be reduced without causing observed increases in crime. Due to the social, human capital, and fiscal costs associated with incarceration, policy makers should seek to correct these inefficiencies through policy reform.

Table 1: State Drug-Free Zone Policy Reforms

	Reform	Reduced	Reduced	Reduced	Data Quality
State	Year	Penalties	Zone Size	Applicability	or Availability
New Jersey	2010	✓			Not Available
South Carolina	2010			✓	Low Quality
${\bf Delaware^*}$	2011	$\checkmark$	$\checkmark$		✓
Kentucky	2011	$\checkmark$	$\checkmark$		Low Quality
${\bf Massachusetts}^*$	2012		$\checkmark$	✓	✓
Indiana	2013		$\checkmark$	✓	Low Quality
${\bf Connecticut}^*$	2015	$\checkmark$			✓
${ m Utah}^*$	2015	$\checkmark$	$\checkmark$	✓	✓
Illinois	2018		$\checkmark$	✓	Low Quality

<sup>&</sup>lt;sup>a</sup> Only the emboldened states marked with an asterisk are included in the treatment group for this study due to limited data availability and quality.

Table 2: Data in the Final Sample

	Non-DFZ	DFZ	Data		Non-DFZ	DFZ	Data
State	Reform Year	Reform Year	Range	State	Reform Year	Reform Year	Range
AL	2010		2006-2019	NE			1998-2019
AR	2011		2003-2019	NH	2012		2003-2019
AZ	2012		2005-2019	ОН	2011		1998-2019
CO	2010		1997-2019	OK	2010		2008-2019
$\mathbf{CT}$	2011	2015	1999-2019	OR	2013		2004-2019
$\mathbf{DE}$	2011	2011	2001-2019	RI	2009		2005-2019
IA			1992-2019	SD	2013		2000-2019
ID	2011		1992-2019	TN			1998-2019
KS	2012		2000-2019	TX			1997-2019
LA	2012		2003-2019	$\mathbf{U}\mathbf{T}$	2013	2015	1993-2019
MA	2010	2012	1995-2019	VA			1994-2019
ME			2005-2019	VT	2013		1994-2019
MI	2010		1995-2019	WA	2012		2007-2019
MT			2005-2019	WI			2005-2019
ND	2011		1991-2019	WV	2013		1999-2019

Total pre-reform state-years for treatment states: 65

Total post-reform state-years for treatment states: 27

Total state-years for control states: 515

<sup>&</sup>lt;sup>a</sup> There are three categories of DFZ law reforms: reducing zone size; reducing sentencing penalties; reducing applicability. See Section ?? and Table 1 for more information on the DFZ reforms.

<sup>&</sup>lt;sup>b</sup> There are five general categories of non-DFZ drug law reform legislation: repealing or limiting mandatory penalties; modifying drug sentencing schemes; expanding access to early release mechanisms; expanding or strengthening community corrections; ameliorating collateral consequences. See Appendix in Subramanian & Moreno 2014 for more detailed description.

Table 3: Group Means

Crime Per 100,000	Control	Treatment	Difference
All Incidents	2,456.878	2,723.124	266.246
	(1,423.426)	(1,560.095)	(189.441)
Drug Incidents	368.697	340.510	-28.186
	(251.372)	(229.415)	(32.781)
School Incidents	124.941	179.504	54.563***
	(79.136)	(108.400)	(10.910)
Drug-School Incidents	15.521	16.393	0.872
	(11.212)	(9.434)	(1.442)
All Offenders	4,121.297	4,591.809	470.512
	(2,371.571)	(2,775.341)	(318.491)
Drug Offenders	476.982	452.567	-24.415
<u> </u>	(326.126)	(309.390)	(42.690)
School Offenders	145.832	211.629	65.797***
	(92.696)	(130.986)	(12.857)
Drug-School Offenders	20.860	22.693	1.834
	(15.391)	(13.520)	(2.000)
All Arrestees	1,156.020	1,467.382	311.362***
	(685.723)	(990.049)	(95.528)
Drug Arrestees	358.552	361.746	3.194
<u> </u>	(257.255)	(259.797)	(33.900)
School Arrestees	45.357	76.634	31.277***
	(32.235)	(53.126)	(4.629)
Drug-School Arrestees	13.612	16.822	3.210**
	(10.903)	(10.621)	(1.431)
N	515	65	580

Note, Treatment means calculated only using pre-reform data.

	All	Drug	School	Drug-School
	Incidents	Incidents	Incidents	Incidents
DFZ Reform	-424.2	-71.57	-46.35	-4.460
	(314.7)	(91.88)	(33.68)	(2.935)
	[0.232713]	[0.513993]	[0.275132]	[0.190937]
	$\{0.6589\}$	$\{0.6589\}$	$\{0.6589\}$	$\{0.6083\}$
N	607	607	607	607
Sample Average	2519.51	373.83	131.7	15.84
Baseline Average	2533.95	348.57	141.27	17.81
State Fixed Effects	yes	yes	yes	yes
Year Fixed Effects	yes	yes	yes	yes
Other Reforms	ves	ves	ves	Ves

Table 4: Incidents of Crime per 100,000 People

	All	Drug	School	Drug-School
	Offenders	Offenders	Offenders	Offenders
DFZ Reform	-692.3	-85.23	-51.34	-5.226
	(594.4)	(125.2)	(37.44)	(3.913)
	[0.320742]	[0.546365]	[0.266481]	[0.239876]
	$\{0.6589\}$	$\{0.6589\}$	$\{0.6589\}$	$\{0.6589\}$
N	607	607	607	607
Sample Average	4219.46	485.06	154.2	21.38
Baseline Average	4285.8	458.41	165.76	24.4
State Fixed Effects	yes	yes	yes	yes
Year Fixed Effects	yes	yes	yes	yes
Other Reforms	yes	yes	yes	yes

Table 5: Offenders per 100,000 People

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 30 states. Wild clustered bootstrapped p-values in square brackets; calculated using 1 million iterations. Romano-Wolf FWER correction p-values in braces; calculated using 10 thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 30 states. Wild clustered bootstrapped p-values in square brackets; calculated using 1 million iterations. Romano-Wolf FWER correction p-values in braces; calculated using 10 thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.

Table 6: Arrestees per 100,000 People

	All	Drug	School	Drug-School
	Arrestees	Arrestees	Arrestees	Arrestees
DFZ Reform	-290.7	-108.2	-27.25*	-8.433***
	(171.5)	(97.98)	(13.74)	(2.633)
	[0.125407]	[0.32601]	[0.098713]	[0.024997]
	$\{0.5443\}$	$\{0.6589\}$	$\{0.4534\}$	$\{0.2372\}$
N	607	607	607	607
Sample Average	1217.36	365.42	49.3	13.98
Baseline Average	1272.37	354.81	56.98	16.49
State Fixed Effects	yes	yes	yes	yes
Year Fixed Effects	yes	yes	yes	yes
Other Reforms	yes	yes	yes	yes

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 30 states. Wild clustered bootstrapped p-values in square brackets; calculated using 1 million iterations. Romano-Wolf FWER correction p-values in braces; calculated using 10 thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.

Table 7: Offenders per 100,000 People by Race

Race		All Offenders	Drug Offenders	School Offenders	Drug-School Offenders
Black	DFZ Reform	-1361.4 (1030.4) [0.261393] {0.5719}	-92.81 (484.7) [0.862207] {0.8666}	-124.4** (49.39) [0.023118] {0.3963}	-15.42 (9.289) [0.140073] {0.5544}
	Sample Average Baseline Average	7611.12 7663.68	$   \begin{array}{r}     \hline     1294.37 \\     1245.95   \end{array} $	315.65 361.57	43.15 45.16
White	DFZ Reform	-304.3 (227.6) [0.222692] {0.5312}	-40.74 (103.6) [0.711167] {0.7136}	-24.79 (17.57) [0.246281] {0.5312}	-5.917* (3.236) [0.114455] {0.4358}
	Sample Average Baseline Average	2030.17 2041.73	405.01 380.34	77.68 84.13	19.01 22.21
	N	607	607	607	607
	State Fixed Effects Year Fixed Effects Other Reforms	yes yes	yes yes	yes yes yes	yes yes yes

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 30 states. Wild cluster bootstrapped p-values in square brackets; calculated using one million iterations. Romano-Wolf familywise error rate correction p-values in braces; calculated using ten thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.

Table 8: Arrestees per 100,000 People by Race

Race		All Arrestees	Drug Arrestees	School Arrestees	Drug-School Arrestees
Black	DFZ Reform	-721.4 (576.3) [0.297815] {0.5719}	-174.7 (409.4) [0.694144] {0.7808}	-95.93** (39.67) [0.020701] {0.4164}	-18.63*** (5.845) [0.027224] {0.2697}
	Sample Average Baseline Average	3577.44 3665.49	1009.09 985.41	$1\overline{64.97}$ $197.84$	30.26 33.73
White	DFZ Reform	-170.0 (124.6) [0.218175] {0.5312}	-58.47 (74.93) [0.477164] {0.6243}	-19.36 (11.42) [0.194076] {0.4376}	-7.828*** (2.534) [0.027117] {0.2310}
	Sample Average Baseline Average	1030.33 1066.04	313.94 302.9	$\frac{39.9}{45.56}$	12.71 15.09
	N	607	607	607	607
	State Fixed Effects Year Fixed Effects Other Reforms	yes yes yes	yes yes yes	yes yes yes	yes yes yes

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 30 states. Wild cluster bootstrapped p-values in square brackets; calculated using one million iterations. Romano-Wolf familywise error rate correction p-values in braces; calculated using ten thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.

	Table 9: Incidents of	f Crime per	100.000 People	– excluding DE & UT
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	All	Drug	School	Drug-School
	Incidents	Incidents	Incidents	Incidents
DFZ Reform	-201.7	-196.5***	3.257	-5.949
	(258.8)	(63.98)	(14.34)	(4.126)
	[0.5295]	[0.1831]	[0.8365]	[0.4664]
	$\{0.6365\}$	$\{0.1596\}$	$\{0.7447\}$	$\{0.5520\}$
N	561	561	561	561
Sample Average	2399.16	354.52	123.24	15.11
Baseline Average	2388.87	329.46	133.28	16.96
State Fixed Effects	yes	yes	yes	yes
Year Fixed Effects	yes	yes	yes	yes
Other Reforms	yes	yes	yes	yes

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

Table 10: Offenders per 100,000 People – excluding DE & UT

	All	Drug	School	Drug-School
	Offenders	Offenders	Offenders	Offenders
DFZ Reform	-244.2	-254.0***	2.293	-7.636
	(446.1)	(79.68)	(17.31)	(5.037)
	[0.6453]	[0.1803]	[0.9058]	[0.3831]
	$\{0.7373\}$	$\{0.1436\}$	$\{0.7882\}$	$\{0.5338\}$
N	561	561	561	561
Sample Average	4019.12	458.42	143.71	20.27
Baseline Average	4056.67	433.57	156.65	23.2
State Fixed Effects	yes	yes	yes	yes
Year Fixed Effects	yes	yes	yes	yes
Other Reforms	yes	yes	yes	yes

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 28 states. Wild cluster bootstrapped p-values in square brackets; calculated using 1 million iterations. Romano-Wolf FWER correction p-values in braces; calculated using 10 thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011. <sup>c</sup> Only Massachusetts and Connecticut are included as treatment units; Delaware and Utah are excluded from the sample.

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 28 states. Wild cluster bootstrapped p-values in square brackets; calculated using 1 million iterations. Romano-Wolf FWER correction p-values in braces; calculated using 10 thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.

<sup>&</sup>lt;sup>c</sup> Only Massachusetts and Connecticut are included as treatment units; Delaware and Utah are excluded from the sample.

Table 11: Arrestees per 100,000 People – excluding DE & UT

	All	Drug	School	Drug-School
	Arrestees	Arrestees	Arrestees	Arrestees
DFZ Reform	-150.7	-196.9***	-5.775	-7.942**
	(122.5)	(56.34)	(6.128)	(2.870)
	[0.3142]	[0.1745]	[0.3853]	[0.1678]
	$\{0.5520\}$	$\{0.1091\}$	$\{0.5790\}$	$\{0.2088\}$
N	561	561	561	561
Sample Average	1131.05	344.38	44.41	13.15
Baseline Average	1166.51	329.9	51.2	15.35
State Fixed Effects	yes	yes	yes	yes
Year Fixed Effects	yes	yes	yes	yes
Other Reforms	yes	yes	yes	yes

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 28 states. Wild cluster bootstrapped p-values in square brackets; calculated using 1 million iterations. Romano-Wolf FWER correction p-values in braces; calculated using 10 thousand iterations.

 $<sup>^{\</sup>rm b}$  Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.  $^{\rm c}$  Only Massachusetts and Connecticut are included as treatment units; Delaware

Table 12: Offenders per 100,000 People by Race – excluding DE & UT

Race		All Offenders	Drug Offenders	School Offenders	Drug-School Offenders
Black	DFZ Reform	-1038.4 (704.2) [0.2449] {0.2125}	-583.1** (220.5) [0.1901] {0.1752}	-56.02** (24.71) [0.2007] {0.1771}	-25.36** (10.03) [0.1710] {0.1771}
	Sample Average Baseline Average	7310.29 7317.21	1231.1 1181.78	297.7 346.89	41.41
White	DFZ Reform	-170.0 (189.3) [0.4071] {0.5017}	-202.9*** (52.57) [0.1702] {0.0364}	0.474 (9.724) [0.9698] {0.8412}	-6.570 (4.049) [0.2980] {0.3991}
	Sample Average Baseline Average	1932.05 1928.78	385.99 363.04	72.69 78.93	18.05 21.06
	N	561	561	561	561
	State Fixed Effects	yes	yes	yes	yes
	Year Fixed Effects	yes	yes	yes	yes
	Other Reforms	yes	yes	yes	yes

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 28 states. Wild cluster bootstrapped p-values in square brackets; calculated using 1 million iterations. Romano-Wolf FWER correction p-values in braces; calculated using 10 thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.

 $<sup>^{\</sup>rm c}$  Only Massachusetts and Connecticut are included as treatment units; Delaware and Utah are excluded from the sample.

Table 13: Arrestees per 100,000 People by Race – excluding DE & UT

Race		All Arrestees	Drug Arrestees	School Arrestees	Drug-School Arrestees
Black	DFZ Reform	-464.0 (368.1) [0.3145] {0.2313}	-481.5*** (172.9) [0.1787] {0.1752}	-34.77** (16.44) [0.1921] {0.1771}	-20.14*** (7.190) [0.1716] {0.1752}
	Sample Average Baseline Average	3386.26 3432.77	952.33 919.67	153.15 184.79	28.84 31.61
White	DFZ Reform	-62.95 (99.62) [0.5609] {0.6227}	-149.4*** (40.33) [0.1740] {0.0430}	-1.864 (5.769) [0.7896] {0.7174}	-6.671** (2.540) [0.1763] {0.1391}
	Sample Average Baseline Average	966.22 984.49	298.57 284.52	36.75 41.41	12.01 14.08
	N	561	561	561	561
	State Fixed Effects	yes	yes	yes	yes
	Year Fixed Effects	yes	yes	yes	yes
	Other Reforms	yes	yes	yes	yes

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

Table 14: RDD first stage & reduced form estimates

	Coefficient	Std. Error	Z Score	95% Conf. Interval
First Stage	0.3859***	0.0308	12.5222	[0.3255, 0.4463]
Reduced Form	249.3***	51.2680	4.8627	[148.821, 349.789]

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

Computed with triangular kernel and bin size of 2.

<sup>&</sup>lt;sup>a</sup> Clustered standard errors in parentheses; clustered at the state level with a total of 28 states. Wild cluster bootstrapped p-values in square brackets; calculated using 1 million iterations. Romano-Wolf FWER correction p-values in braces; calculated using 10 thousand iterations.

<sup>&</sup>lt;sup>b</sup> Sample averages calculated over the full used sample; baseline averages calculated only using data from 2009 and 2010 since the first DFZ reform was passed in 2011.

 $<sup>^{\</sup>rm c}$  Only Massachusetts and Connecticut are included as treatment units; Delaware and Utah are excluded from the sample.

Table 15: 2SLS using  $Z_3$  to instrument for  $cal\_int$ 

	Productivity
$cal\_int$	0.2352***
	(0.0661)
N	1000
Sample Average	627.0161

<sup>\*</sup> p < .10, \*\* p < .05, \*\*\* p < .01

Standard errors reported in parentheses.

Category	Average $2003-2005$	Average $2006\text{-}2008$	Average 2009-2010	Average 2011-2013	Average $2014-2016$	Average 2017-Mar 2020	2020 (Pandemic)
Market work	37.38	38.16	35.1	35.66	36.55	36.45	32.12
Other income	0.15	0.15	0.25	0.16	0.11	0.24	0.24
Job search	0.27	0.37	0.56	0.47	0.44	0.36	0.27
Child care	2.9	2.82	2.98	2.84	2.76	2.69	2.39
Nonmarket work	14.52	13.78	35.1	13.39	13.66	13.19	14.6
Core home production	5.53	5.75	5.83	5.89	6.13	6.02	7.01
Home ownership	3.21	2.95	2.93	2.48	2.56	2.41	3.59
Obtaining goods	4.13	3.93	4.05	3.89	3.87	3.7	3.08
Others care	1.64	1.13	1.21	0.99	1.1	1.05	0.91
Leisure	108.25	108.62	110.36	110.9	110.35	110.7	115.19
TV	18.61	19.29	20.33	20.08	19.66	19.15	20.76
Socializing	7.48	7.24	7.23	7.56	7.61	7.63	8.82
Sleeping	58.51	58.88	59.39	59.83	60.19	60.99	62.27
Eating and personal	12.99	12.76	12.84	12.85	12.44	12.37	11.68
Other leisure	10.64	10.43	10.54	10.58	10.44	10.55	11.66
Other	4.49	4.07	4.69	4.59	4.13	4.38	3.19
Education	1.97	1.54	1.98	2.3	1.75	2.3	1.73
Civic	1.68	1.75	1.88	1.62	1.71	1.42	0.86
Own medical care	0.83	0.77	0.82	0.66	0.67	0.66	0.6

Category	Average 2003-2005	Average 2006-2008	Average 2009-2010	Average 2011-2013	Average 2014-2016	Average 2017-Mar 2020	2020 (Pandemic)
Market work	31.48	32.53	30.41	30.54	31.16	31.68	27.46
Other income	0.16	0.16	0.24	0.21	0.16	0.21	0.17
Job search	0.2	0.27	0.42	0.39	0.32	0.31	0.28
Child care	4.84	4.57	4.47	4.41	4.4	4.18	3.98
Nonmarket work	18.78	17.78	17.58	17.03	17.26	16.61	18.17
Core home production	9.56	9.38	9.38	9.42	9.54	9.36	10.45
Home ownership	2.4	2.17	2.11	1.88	1.88	1.71	2.74
Obtaining goods	5.2	5.03	4.84	4.61	4.71	4.42	3.91
Others care	1.61	1.19	1.24	1.12	1.12	1.12	1.08
Leisure	107.46	107.71	109.55	110.31	109.66	109.95	113.98
TV	17.03	17.55	18.57	18.52	18.03	17.87	19.22
Socializing	7.82	7.59	7.59	7.65	7.53	7.41	7.96
Sleeping	59.3	59.54	60.18	60.79	61.13	61.76	63.18
Eating and personal	13.36	13.26	13.32	13.36	13.06	12.96	12.1
Other leisure	9.93	9.74	9.86	9.99	9.92	9.95	11.52
Other	5.03	4.95	5.29	5.1	5.03	5.06	3.95
Education	2.11	2	2.16	2.29	2.16	2.45	2.18
Civic	1.93	1.98	2.15	1.93	1.95	1.76	1.01
Own medical care	0.98	0.96	0.97	0.88	0.92	0.84	0.77

Category	Average $2003-2005$	Average $2006\text{-}2008$	Average 2009-2010	Average 2011-2013	Average 2014-2016	Average 2017-Mar 2020	2020 (Pandemic)
Market work	37.38	38.16	35.1	35.66	36.55	36.45	32.12
Other income	0.15	0.15	0.25	0.16	0.11	0.24	0.24
Job search	0.27	0.37	0.56	0.47	0.44	0.36	0.27
Child care	2.9	2.82	2.98	2.84	2.76	2.69	2.39
Nonmarket work	14.52	13.78	35.1	13.39	13.66	13.19	14.6
Core home production	5.53	5.75	5.83	5.89	6.13	6.02	7.01
Home ownership	3.21	2.95	2.93	2.48	2.56	2.41	3.59
Obtaining goods	4.13	3.93	4.05	3.89	3.87	3.7	3.08
Others care	1.64	1.13	1.21	0.99	1.1	1.05	0.91
Leisure	108.25	108.62	110.36	110.9	110.35	110.7	115.19
TV	18.61	19.29	20.33	20.08	19.66	19.15	20.76
Socializing	7.48	7.24	7.23	7.56	7.61	7.63	8.82
Sleeping	58.51	58.88	59.39	59.83	60.19	60.99	62.27
Eating and personal	12.99	12.76	12.84	12.85	12.44	12.37	11.68
Other leisure	10.64	10.43	10.54	10.58	10.44	10.55	11.66
Other	4.49	4.07	4.69	4.59	4.13	4.38	3.19
Education	1.97	1.54	1.98	2.3	1.75	2.3	1.73
Civic	1.68	1.75	1.88	1.62	1.71	1.42	0.86
Own medical care	0.83	0.77	0.82	0.66	0.67	0.66	0.6