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The distortionary effects of incentives in government: Evidence from China's
“death ceiling” program

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Online Appendix

Table A1: Instatement of “no safety, no promotion” laws by province

Province	Effective Date	Passage Date	Population in 2005 (unit: 10,000)	GDP per capita in 2005 (unit: 1 RMB)
Guangdong	01-Feb-2005	01-Feb-2005	9194	24435.02
Heilongjiang	01-Jan-2007	28-Nov-2006	3820	14434.06
Guizhou	01-Jun-2006	01-Jun-2006	3730	5051.96
Ningxia	01-Nov-2006	27-Sep-2006	596	10239
Shanxi	29-Jan-2008	29-Jan-2008	3355	12495
Yunnan	18-Sep-2008	18-Sep-2008	4450	7835
Guangxi	01-Jan-2009	27-Dec-2008	4660	8787.729
Jilin	20-Jul-2009	08-Jan-2009	2716	13348
Hainan	02-Jun-2010	02-Jun-2010	828	10871
Jiangsu	23-Nov-2010	23-Nov-2010	7475	24560
Hebei	01-Jan-2011	08-Nov-2010	6851	14782.26
Henan	03-Jan-2011	03-Jan-2011	9380	11346.5
Hunan	22-Mar-2011	22-Mar-2011	6326	10426
Inner Mongolia	04-Mar-2011	04-Mar-2011	2386	16330.82
Sichuan	11-Apr-2011	11-Apr-2011	8212	9060
Chongqing	04-Jul-2011	04-Jul-2011	2798	10982
Jiangxi	03-May-2012	03-May-2012	4311	9440
Liaoning	01-Feb-2012	30-Nov-2011	4221	18983.2
Shandong	06-Apr-2012	06-Apr-2012	9248	20096.46
Shaanxi	04-Jan-2012	04-Jan-2012	3720	9899
Hubei	No safety quota	No safety quota	5710	11431
Qinghai	No safety quota	No safety quota	543	10044.74
Shanghai	No safety quota	No safety quota	1778	51474
Tianjin	No safety quota	No safety quota	1043	35783.19
Tibet	No safety quota	No safety quota	277	9114
Xinjiang	No safety quota	No safety quota	2010	13108
Zhejiang	No safety quota	No safety quota	4898	27702.69
Anhui	No safety quota	No safety quota	6120	8675.145
Beijing	No safety quota	No safety quota	1538	45443.69
Fujian	No safety quota	No safety quota	3535	18645.84
Gansu	No safety quota	No safety quota	2594	7476.529

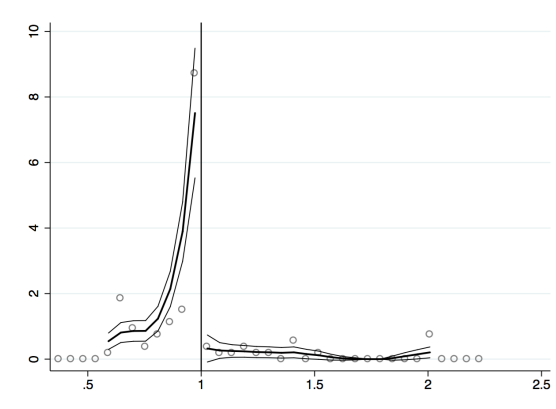
Notes: In response to the 2004 death ceiling policy, provinces began adopting “no safety, no promotion” (NSNP) policies that made promotion of safety regulators and other local government officials contingent on meeting the safety production target set for their province by the provincial government. The first two columns list the dates of NSNP legislation passage and implementation respectively. Both population and income figures are obtained from CSMAR Regional Economy Database.

Table A2: Availability of death data by category and year

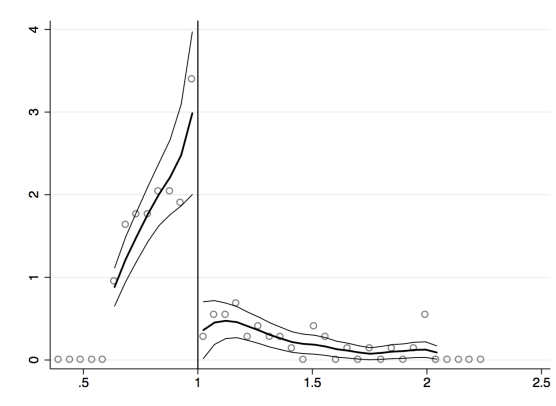
Category	2005	2006	2007	2008	2009	2010	2011	2012	Total
All	0	0	31	30	26	23	25	29	164
Agriculture	31	31	31	31	31	31	31	31	248
Coal	27	27	28	27	25	25	24	25	208
Fire	31	31	31	31	31	30	31	28	244
IMCT	31	31	31	31	31	31	31	31	248
Railway	29	31	30	31	30	29	31	30	241
Severe Accidents	0	0	31	30	31	31	31	31	185
Transportation	31	31	31	31	31	31	0	31	217
Total	180	182	244	242	236	231	204	236	1755

Notes: Each cell lists the number of provinces (out of a possible 31) with data available in a category-year cell.

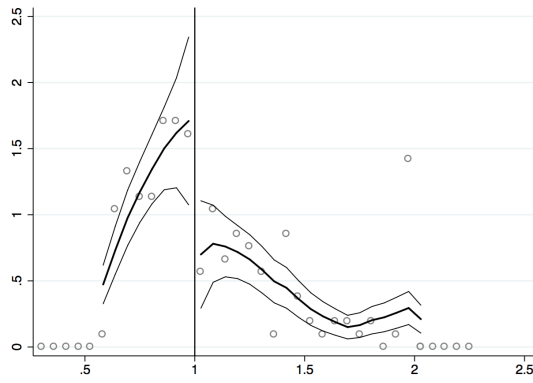
Figure A1: McCrary density tests for $Deaths_{cpy}/Ceiling_{cpy}$ for province-year level accidental deaths, by category



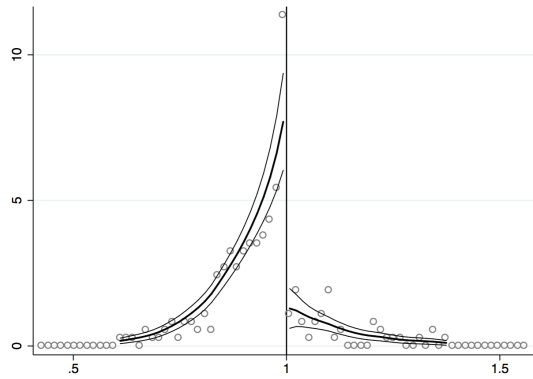
Category: Agriculture
McCrary Density Test t-stat: -3.995



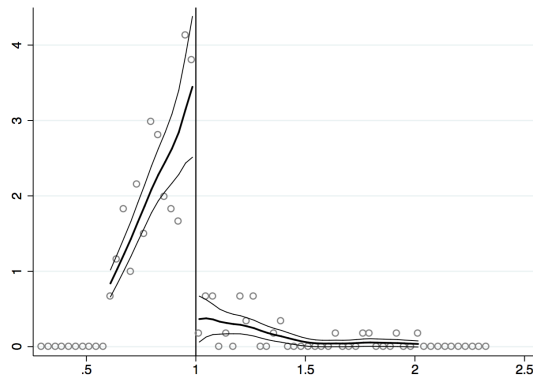
Category: Coal
McCrary Density Test t-stat: -3.426



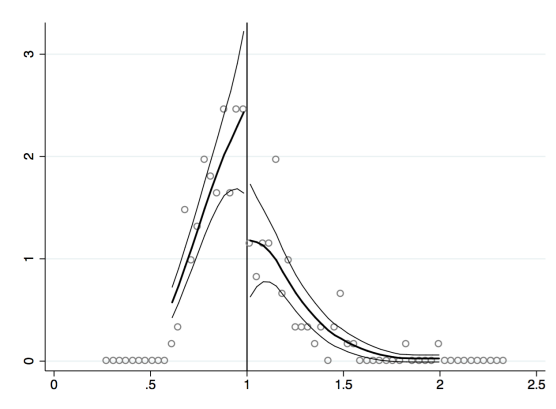
Category: Fire
 McCrary Density Test t-stat: -2.138



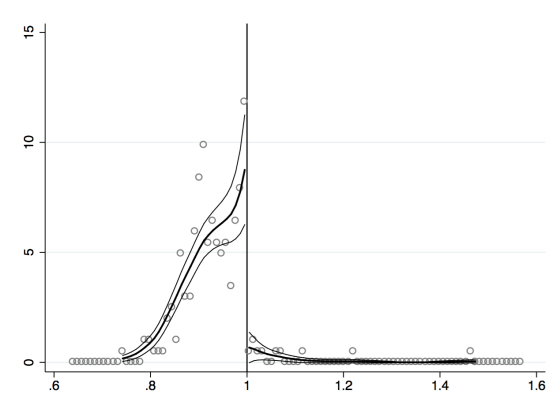
Category: IMCT
 McCrary Density Test t-stat: -5.76



Category: Railways
 McCrary Density Test t-stat: -4.557



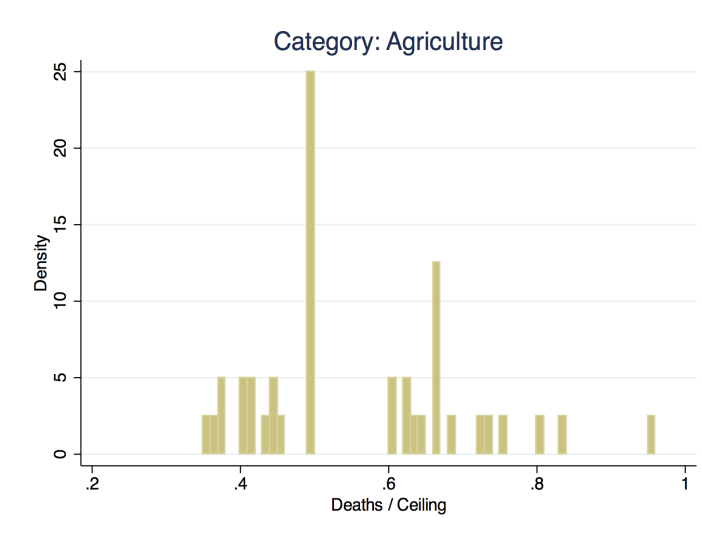
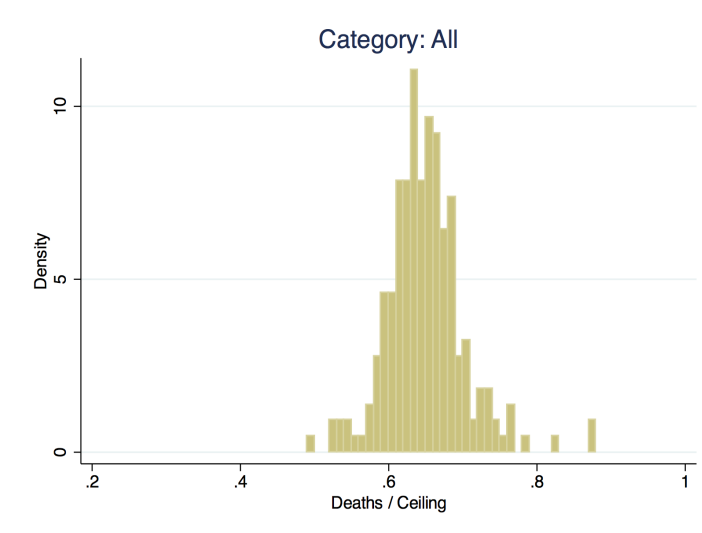
Category: Severe Accidents
 McCrary Density Test t-stat: -2.321

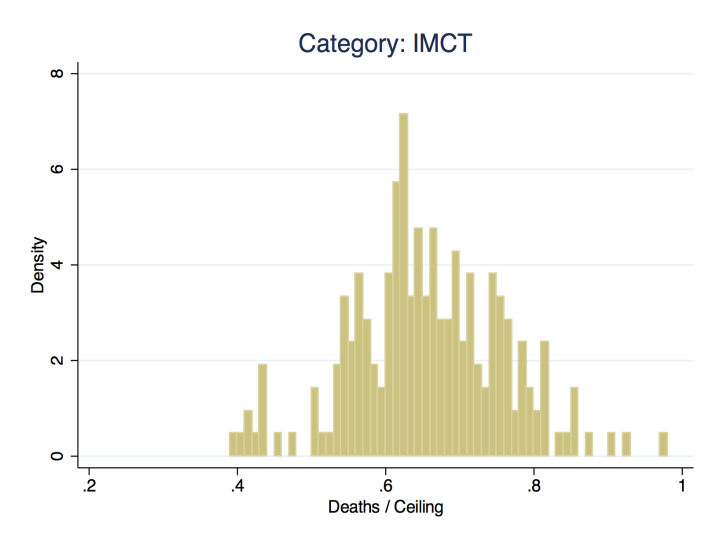
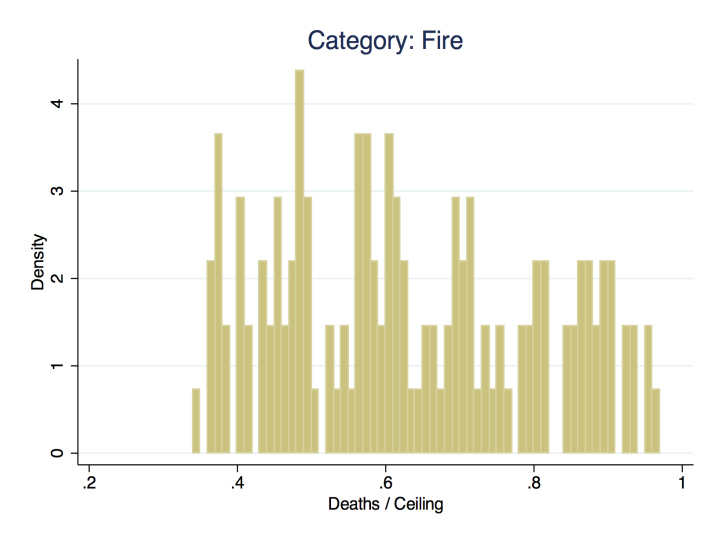
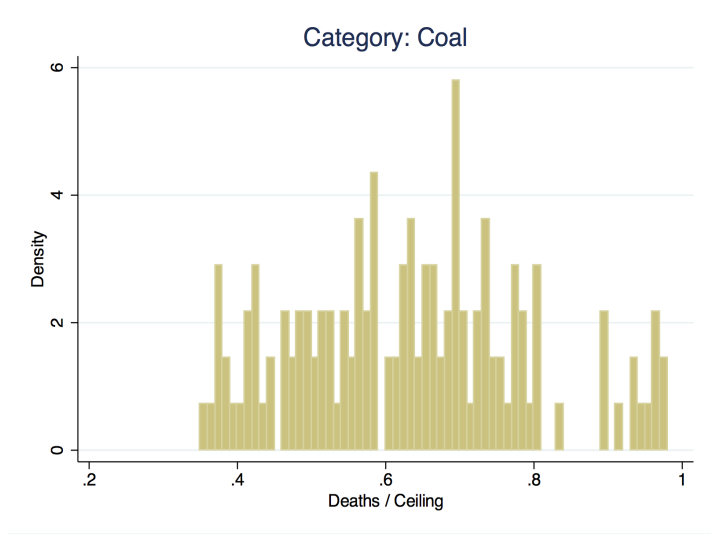


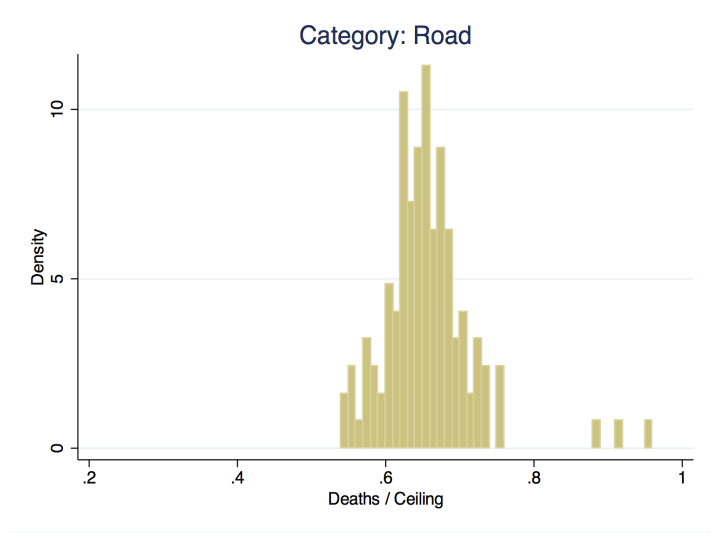
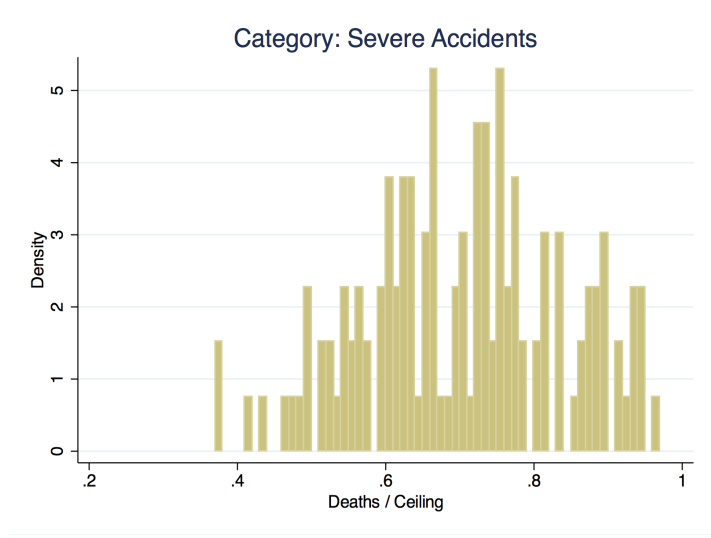
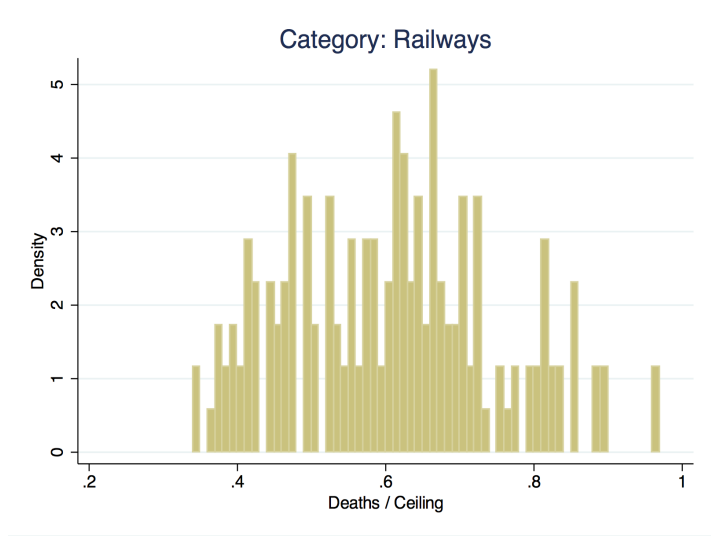
Category: Road
 McCrary Density Test t-stat: -4.359

Notes: Each panel shows a McCrary density test for discontinuity in the distribution of $Deaths_{cpy}/Ceiling_{cpy}$ at 1 for a separate category of accidental deaths. In each case, the bold line shows the local linear regression estimated on either side of 1, and the lighter lines show the 90 percent confidence interval. The t-statistic for the significance of the discontinuity at 1 is listed below each panel.

Appendix Figure A2: Histograms of Death/Ceiling Ratios by Category







Notes: Each figure shows a histogram of the ratio of overall reported accidental deaths to the end of the third quarter of the year to the government-mandated year-end ceiling, for province-year observations during 2005-2012.