High Powered Incentives with Weak Institutions: The case of the Colombian 'False Positives'

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- Army ranks
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 - Highlights difficulty of making weak institutions stronger.
 - Many approaches to strengthening institutions are based on strong incentives (e.g. Duflo, Hanna, and Ryan, 2012), but there may be unintended consequences (Miller and Babiarz, 2013).

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- Pred. 2 When it is easier to falsify for given incentives.

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- Also informal and unregulated incentives confirmed by observers (e.g. UN Special Rapporteur)
 - days off when important holidays approached (foot soldiers), medals, and promotions (commanders).

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 - Explicitly exclude rewards to military personnel.
 - Prioritize rewards to successful operations that did not involve killings.
 - Require first investigation of combat-related deaths by judiciary.
 - 8 Require prior intelligence for operations.
- Also ousted high-ranked officials involved in FP cases and created a special unit to investigate FP the Office of the Attorney General.

False positives and career concerns

The case of colonels: FP more likely in colonel-led brigades

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Semana, July 2013

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"When my colonel came in he started insulting us and scolding us, and told us that we were good for nothing, that we did not understand that a guerrilla member alive was useless for him, and that what mattered were killings because he was going to be promoted to general and that is how his performance was measured. He told us he was going to have us all expelled."

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- If one (or several) of the branches of the judiciary is corrupt or inefficient at the local level, the incentives to commit abuses in its jurisdiction is higher.
 - Of the 1,056 cases of killings by armed forces that were assigned to the Fiscalía (Attorney General) through April 2009, only 16 resulted in convictions (Alston, 2010, p. 13).

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- Example: testimony from witnesses in case against Colonel Mejía
 - In one episode, 19 false guerrilla members were killed: "Mejía had no trouble doing it because the local director of the Attorney General Office helped him with the setup"
 - "When a person disappeared, his family members went to denounce it to the Police or the Ombudsman or any other institution in charge and, after this, the next victims where those denouncing."

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False positives and army ranks

• For each municipality *m* and year *t*, we run the following regression:

F. Positive_{*m*,*t*} =
$$\alpha + \delta_m + \delta_t + \beta_0 \text{Colonel}_{m,t} + \beta_1 (\text{Colonel}_{m,t} \times \text{Post}_{\bar{y}})$$

+ $\sum_{x \in \mathbf{X}_m} \sum_{i=1}^4 \Phi_{x,i} x^i \times \text{Post}_{\bar{y}} + \varepsilon_{m,t},$

where:

- F. positive_{m,t} is either the number of false positive or a dummy,
- Colonel_{m,t} equals 1 if the brigade commander is a colonel, and
- $Post_{\bar{y}}$ is a dummy equal to 1 for each year t since $\bar{y} \in \{2006, 2007\}$.
- → We expect $\beta_1 > 0$: larger increase in false positives following the increase in incentives in municipalities under the jurisdiction of brigades commanded by colonels.

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Empirical strategy II

False positives and quality of judicial institutions

F. positive_{*m*,*t*} =
$$\alpha + \delta_m + \delta_t + \beta_2$$
 (Judicial Efficiency_{*m*} × Post _{\bar{y}})
+ $\sum_{x \in \mathbf{X}_m} \sum_{i=1}^{4} \Phi_{x,i} x^i \times Post_{\bar{y}} + \varepsilon_{m,t}$,

→ We expect $\beta_2 < 0$, implying that the increase in false positives following the increase in incentives was smaller in municipalities with better (judicial) institutions.

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Table 1 : Descriptive Statistics for Variables, 2000-2008

VARIABLES	Mean	Std. Dev.	Min	Max
False positives Dummy	0.0498	0.2175	0.00	1.00
Number of False positives	0.0782	0.4716	0.00	15.00
False positives Execution	0.1229	0.7747	0.00	20.00
True positives Dummy	0.1838	0.3873	0.00	1.00
Number of True positives	0.3608	1.0813	0.00	24.00
Number of True positives Kills	0.8385	3.7624	0.00	260.00
Colonel on Charge Dummy	0.2215	0.4152	0.00	1.00
Mean Time Colonel on Charge	0.2042	0.3924	0.00	1.00
Judicial Efficiency Index	0.5409	0.8958	-2.27	23.00

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Table 2 : False Positives and Rank of Brigade Commanders, 2000-2008

Dependent variable:	Number of	False positives	False positi	ives Dummy	False positi	ves Execution
-	(1)	(2)	(3)	(4)	(5)	(6)
Panel A: Post Dummy	Start - 2006					
Colonel x Post 2006	0.1470***	0.1350***	0.0658***	0.0401**	0.2240***	0.2085**
	0.0310	0.0491	0.0141	0.0188	0.0563	0.0839
R-squared	0.035	0.125	0.049	0.129	0.029	0.108
Panel B: Post Dummy	Start - 2007					
Colonel x Post 2007	0.1559***	0.1932***	0.0636***	0.0561**	0.2702***	0.3203***
	0.0369	0.0716	0.0156	0.0230	0.0664	0.1137
R-squared	0.035	0.123	0.049	0.114	0.031	0.112
Year & mun f.e.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Scale (1)		\checkmark		\checkmark		\checkmark
Geography (7)		\checkmark		\checkmark		\checkmark
Conflict and crime (4)		\checkmark		\checkmark		\checkmark
Education (4)		\checkmark		\checkmark		\checkmark
Income/rents (6)		\checkmark		\checkmark		\checkmark
Natural resources (5)		\checkmark		\checkmark		\checkmark
State presence (22)		\checkmark		\checkmark		\checkmark
Observations	9790	7317	9790	7317	9790	7317
Number of municipalities	1094	813	1094	813	1094	813

V (MIT, UAndes, Harvard, URosario) Incentives with Weak Institutions The case of False Positives

Image: A matrix

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Table 3 : False Positives and Judicial Efficiency, 2000-2008

Dependent variable:	Number of	False positives	False posit	ives Dummy	False positives Execution		
·	(1)	(2)	(3)	(4)	(5)	(6)	
Panel A: Post Dummy Start	- 2006						
Judicial Efficiency x Post 2006	-0.0228^{*}	-0.0277***	-0.0117^{**}	-0.0120^{***}	-0.0308*	-0.0330^{*}	
·	0.0119	0.0097	0.0056	0.0043	0.0167	0.0171	
R-squared	0.030	0.121	0.046	0.125	0.025	0.103	
Panel B: Post Dummy Start	- 2007						
Judicial Efficiency × Post 2007	-0.0180*	-0.0235**	-0.0082^{*}	-0.0107^{**}	-0.0214*	-0.0208	
	0.0100	0.0106	0.0042	0.0051	0.0129	0.0182	
R-squared	0.030	0.115	0.045	0.109	0.025	0.104	
Year & mun f.e.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Scale (1)		\checkmark		\checkmark		\checkmark	
Geography (7)		\checkmark		\checkmark		\checkmark	
Conflict and crime (4)		\checkmark		\checkmark		\checkmark	
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Income/rents (6)		\checkmark		\checkmark		\checkmark	
Natural resources (5)		\checkmark		\checkmark		\checkmark	
State presence (22)		\checkmark		\checkmark		\checkmark	
Observations	9671	7470	9671	7470	9671	7470	
Number of municipalities	1075	830	1075	830	1075	830	

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 The case of False Positives

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Testing for pre-trends

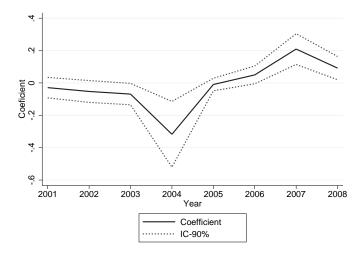
 We estimate our baseline equations with a full set of interactions with year dummies instead of the post dummy:

F. positive_{*m*,*t*} =
$$\alpha + \delta_m + \delta_t + \sum_{t \ge 2001} \beta_t (\Gamma \times \delta_t)$$

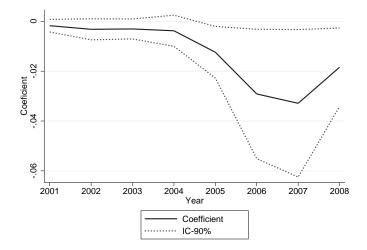
+ $\sum_{x \in \mathbf{X}_m} \sum_{i=1}^4 \Phi_{x,i} x^i \times Post_{\bar{y}} + \varepsilon_{m,t},$

where $\Gamma \in { \text{Judicial Efficiency}_m, \text{Colonel}_{m,t} }$.

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True positives

- The incidence of FP may just be collateral damage following the intensification of the Colombian conflict:
 - With president's Uribe *Democratic Security Policy* the army hits the insurgents strongly (i.e. "True Positives", TP) and civilians die as a byproduct of these clashes and attacks.
- But:
 - Timing of FP and that TP is different. <u>see Figure</u>. If anything there is substitution, not complementarity
 - TP do increase in colonel-led brigades but the effect is proportionally smaller.
 - Example with post 2007: In colonel-led brigades effect is of 5 times the mean on FP incidence and as large as the standard deviation, but a third of the mean on TP and 1/6 of its standard deviation.

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• TP do not happen disproportionally in places with weaker judicial institutions.

Table 4 : True positives and rank brigade commander, 2000-2008

Dependent variable:	True positi	ves Dummy	Number of	True positives	Number of True positives Kills		
	(1)	(2)	(3)	(4)	(5)	(6)	
Panel C: Post Dummy	Start - 2006						
Colonel x Post 2006	0.0566***	0.0317	0.1915***	0.1223*	0.4188***	0.4000**	
	0.0196	0.0271	0.0476	0.0729	0.1214	0.1992	
R-squared	0.008	0.049	0.013	0.058	0.009	0.034	
Panel D: Post Dummy	Start - 2007	,					
Colonel x Post 2007	0.0540***	0.0654**	0.2004***	0.2137***	0.3713***	0.4644**	
	0.0185	0.0261	0.0517	0.0772	0.1190	0.1955	
R-squared	0.007	0.043	0.014	0.058	0.009	0.029	
Year & mun f.e.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Scale (1)		\checkmark		\checkmark		\checkmark	
Geography (7)		\checkmark		\checkmark		\checkmark	
Conflict and crime (4)		\checkmark		\checkmark		\checkmark	
Education (4)		\checkmark		\checkmark		\checkmark	
Income/rents (6)		\checkmark		\checkmark		\checkmark	
Natural resources (5)		\checkmark		\checkmark		\checkmark	
State presence (22)		\checkmark		\checkmark		\checkmark	
Observations	9790	7317	9790	7317	9790	7317	
Number of municipalities	1094	813	1094	813	1094	813	

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Table 5 : True Positives and Judicial Efficiency, 2000-2008

Dependent variable:	True posit	ives Dummy	Number of	True positives	Number of True positives Kills		
	(1)	(2)	(3)	(4)	(5)	(6)	
Panel C: Post Dummy Start	- 2006						
Judicial Efficiency x Post 2006	-0.0050	-0.0044	-0.0151	-0.0099	0.0132	0.0443	
	0.0048	0.0077	0.0140	0.0233	0.0373	0.0530	
R-squared	0.006	0.048	0.011	0.058	0.008	0.033	
Panel D: Post Dummy Start	- 2007						
Judicial Efficiency × Post 2007	-0.0029	0.0012	-0.0095	-0.0021	0.0149	0.0752	
	0.0042	0.0081	0.0127	0.0221	0.0363	0.0547	
R-squared	0.006	0.040	0.011	0.055	0.008	0.027	
Year & mun f.e.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Scale (1)		\checkmark		√		\checkmark	
Geography (7)		\checkmark		\checkmark		\checkmark	
Conflict and crime (4)		\checkmark		\checkmark		\checkmark	
Education (4)		\checkmark		\checkmark		\checkmark	
Income/rents (6)		\checkmark		\checkmark		\checkmark	
Natural resources (5)		\checkmark		\checkmark		\checkmark	
State presence (22)		\checkmark		\checkmark		\checkmark	
Observations	9671	7470	9671	7470	9671	7470	
Number of municipalities	1075	830	1075	830	1075	830	

AFRRV (MIT, UAndes, Harvard, URosario) Incent

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 The case of False Positives

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Contents

- - Empirical Strategy
 - Descriptive Statistics
- - Army ranks
 - Judicial Efficiency
 - Testing for pre-trends
 - Alternative explanation: collateral damage

Conclusions

3

Conclusion

- High powered incentives may have unintended negative consequences if there are incentives to misbehave.
- For given incentives, the worse is the institutional environment (in particular the quality of the judiciary) the greater the misbehavior.
- We show that in the case of the Colombian army the introduction of high powered incentives in the form of money, vacations and promotions pushed some of its members to engage in 'false positives'.
 - This outcome was more likely for officials for which the incentives were higher (colonels relative to generals),
 - It is more frequent in places with less efficient state judicial institutions.

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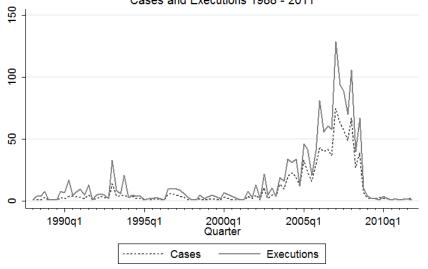
• It is not explained by collateral damage in the upsurge of the counterinsurgency effort.

Thank you!

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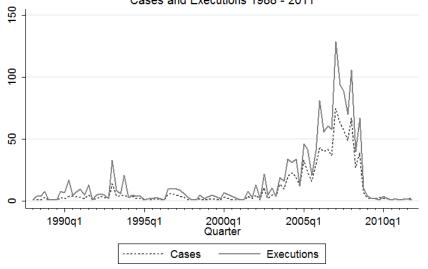
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False Positives by Quarter Cases and Executions 1988 - 2011





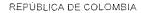
False Positives by Quarter Cases and Executions 1988 - 2011





SECRETO

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MINISTERIO DE DEFENSA NACIONAL

COPIA NO <u>12</u> DE <u>16</u> COPIAS MINISTERIO DE DEFENSA NACIONAL BOGOTÁ, D.C. **17 NGV**. 2005

DIRECTIVA MINISTERIAL PERMANENTE

No_29_/2005

ASUNTO : Politica ministerial que desarrolla criterios para el pago de recompensas por la captura o abatimiento en combate de cabecillas de las organizaciones armadas al margen de la ley, material de guerra, intendencia o comunicaciones e información sobre actividades relacionadas con el narcotráfico y pago de información que sirva de fundamento para la continuación de labores de inteligencia y el posterior planeamiento de operaciones.



DEPARTAMENTO ADMINISTRATIVO DE LA FUNCIÓN PUBLICA

DECRETO NUMERÓ 1400 DE 2006

5 MAY 2006

Por el cual se crea la Bonificación por Operaciones de Importancia Nacional -BOINA

EL PRESIDENTE DE LA REPÚBLICA DE COLOMBIA,

En desarrollo de las normas generales señaladas en la Ley 4ª de 1992,

DECRETA:

ARTÍCULO 1º. BONIFICACIÓN POR OPERACIONES DE IMPORTANCIA NACIONAL -BOINA. Créase la Bonificación por Operaciones de Importancia Nacional - BOINA, para los Miembros de la Fuerza Pública y funcionarios del Departamento Administrativo de Segundad - DAS, que participen en una operación de importancia nacional, la cual se otorgará por cada ocasión,

PARÁGRAFO 1º. Esta bonificación podrá ser otorgada a una misma persona tantas veces cuantas se haga acreedora a ella, por participación en operaciones de importancia nacional.

PARÁGRAFO 2º. La Bonificación de que trata este artículo, solo será reconocida y pagada por la participación en la respectiva operación de importancia nacional.

PARÁGRAFO 3º. Esta bonificación no constituye factor para liquidar elementos salariales o prestacionales, ni se tendrá en cuenta para determinar remuneraciones de otros servidores públicos.

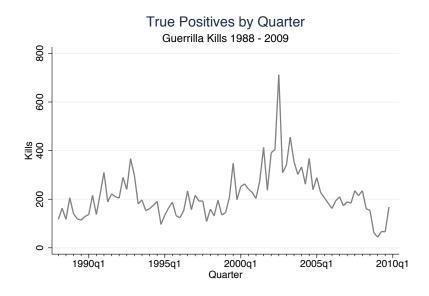
ARTÍCULO 2º. OPERACIONES DE IMPORTANCIA NACIONAL. Para efectos del presente decreto, se consideran de importancia nacional aquellas operaciones en las cuales se logre la captura de los cabecillas de los niveles I y II que se encuentran determinados en la Directiva expedida por el Ministro de Defensa Nacional.





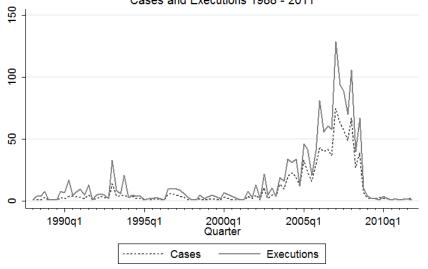






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False Positives by Quarter Cases and Executions 1988 - 2011





ANNALS OF EDUCATION | JULY 21, 2014 ISSUE

WRONG ANSWER

In an era of high-stakes testing, a struggling school made a shocking choice.

BY RACHEL AVIV

ne afternoon in the spring of 2006, Damany Lewis, a math teacher at Parks Middle School in Atlanta, unlocked the room where standardized tests were kept. It was the week before his students took the Criterion-Referenced Competency Test, which determined whether schools in Georgia had met federal standards of achievement. The tests were wrapped in cellophane and stacked in cardboard boxes. Lewis, a slim twenty-nine-year-old with dreadlocks, contemplated opening the test with scissors, but he thought his cut marks would be too obvious. Instead. he left the school, walked to the corner store, and bought a razor blade. When he returned, he slit open the cellophane and gently pulled a test book from its wrapping. Then he used a lighter to warm the razor, which he wedged under the

He photocopied the math, reading, and language-arts sections—the subjects that would determine, under the No Child Left Behind guidelines, whether Parks would be classified as a "school in need of improvement" for the sixth year in a row. Unless fifty-eight per cent of students passed the math portion of the test and sixty-seven per cent passed in language arts, the state could shut down the school. Lewis put on gloves, to prevent oil from his hands from leaving a residue on the plastic, and then used his lighter to melt the edges of the cellophane together, so that it appeared as if the package had never been opened. He gave the reading and language-arts sections to two teachers he trusted and took the math section home.

Christoph lauded in of the sch

Illustration

adhesive sealing the booklet, and peeled back the tab.



Table 6 : False Positives, 1988-2011.

Alleged group of the victim and organization of the perpetrator

	Cases	Executions
Panel A: All	leged group of	the victim
Guerrilla	693 (74.9%)	1,162 (76.8%)
Paramilitary	36 (4.9%)	67 (4.4%)
Other	196 (21.2%)	284 (18.8%)
Panel B: Or	ganization of	the perpetrator
Army	853 (92.2%)	1,422 (94%)
Police	37 (4%)	37 (2.4%)
Other	35 (3.8%)	54 (3.6%)
Total	925	1,513

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Image: A matrix

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Table 7 : False positives by rank of brigade commander, 2000-2008

	Full S	Sample				General			Coronel	
Mean	Std. Dev.	Min	Max	Ν	Mean	Std. Dev.	N	Mean	Std. Dev.	N Diff
Panel /	A: False Po	sitive [Dumm	/						
All the Years										
0.0498	0.2175	0	1	10062	0.0386		7622	0.0923	0.2894	2168 0.0537***
			Befo			strengthe			s	
	Before year									
0.0248	0.1554	0	1	6702	0.0242	2006 0.1537	6720	0.0276	0.1638	798 0.0033
0.0240	0.1554	0	1	0/05	0.0242	2007	5755	0.0270	0.1030	190 0.0055
0.0354	0.1848	0	1	7821	0.0307	0.1725	6355	0.0603	0.2381	1261 0.0296***
					. A	fter year				
0.0997	0.2997	0	1	0050	0.0823	2006 0.2749	4000	0.1299	0.3363	1370 0.0476***
0.0997	0.2997	U	1	2228	0.0625	2007	1003	0.1299	0.5505	15/0 0.04/0
0.1000	0.3000	0	1	2241	0.0781	0.2685	1267	0.1367	0.3437	907 0.0586***
Panel E	3: Number	of Fals	ie Posi	tives						
						ll the Years				
0.0782	0.4716	0	15	10062	A.		7622	0.1628	0.7660	2168 0.1069***
0.0702	0.4110	0				strengthe				2100 0.1005
					B	efore year				
						2006				
0.0358	0.2910	0	12	6703	0.0359	0.3001	5739	0.0351	0.2323	798 -0.0008
0.0514	0.3357	0	12	7821	0.0445	0.3175	6355	0.0888	0.4273	1261 0.0443***
					A	fter year				
						2006				
0.1628	0.6976	0	15	3359	0.1168	0.4669	1883	0.2372	0.9393	1370 0.1204***
0.1718	0.7708	0	15	2241	0.1129	0.4793	1267	0.2657	1.0636	907 0.1528***
Panel 0	: Number	of Fals	e Posi							
0.1229	0.7747	0	20	10062	A. 0.0896	ll the Years 0.6039	7622	0.2500	1.2111	2168 0.1604***
0.1229	0.7747	U				strengthe				2100 0.1004
						efore year	3			
						2006				
0.0562	0.4867	0	19	6703	0.0554	0.4947	5739	0.0614	0.4338	798 0.0060
0.0809	0.5719	0	19	7821	0.0714	0.5499	6355	0.1332	0.6887	1261 0.0618***
2.2000		2				fter year		1	2.3007	100010
						2006				
0.2560	1.1397	0	20	3359	0.1938	0.8464	1883	0.3599	1.4763	1370 0.1660***
0.2695	1.2355	0	20	2241	0.1807	2007 0.8173	1267	0.4123	1.6743	907 0.2316***
0.2095	1.4335	J	20	2291	10.1007	0.0175	1207	0.4125	1.0/45	901 0.2310

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Table 8 : False positives by Efficiency of Institutions, 2000-2008

	Full S	Sample			L	ow Efficiency		Н	igh Efficiency	/	
Mean	Std. Dev.			Ν	Mean	Std. Dev.	Ν	Mean	Std. Dev.	Ν	Diff
Panel A	: False Pos	sitive D	Dummy	/							
All the Years											
0.0498	0.2175	0	1	10062	0.0580		4021	0.0450	0.2074	4940	-0.0129***
0.0450	0.2175	0								4040	-0.0129
	Before and after the strengthening of incentives Before year										
						2006					
0.0248	0.1554	0	1	6703	0.0280	0.1649	3220	0.0236	0.1517	3226	-0.0044
0.005.4	0.4040			2004		2007	0757		0.4705	0764	
0.0354	0.1848	0	1	7821	0.0421	0.2007 After year	3757	0.0311	0.1736	3764	-0.0110**
						2006					
0.0997	0.2997	0	1	3359	0.1179	0.3226	1611	0.0880	0.2834	1614	-0.0300***
						2007					
0.1000	0.3000	0	1		0.1136	0.3175	1074	0.0939	0.2918	1076	-0.0197
Panel E	3: Number	of Fals	e Posi	tives							
						I the Years					
0.0782	0.4716	0	15	10062	م 0.0907		4021	0.0715	0.4277	4940	-0.0192**
0.0702	0.4710	0				e strengthe				4040	-0.0192
						Before year					
						2006					
0.0358	0.2910	0	12	6703	0.0357	0.2371	3220	0.0387	0.3460	3226	0.0030
						2007					
0.0514	0.3357	0	12	7821	0.0564	0.3164 After year	3757	0.0499	0.3655	3764	-0.0065
						2006					
0.1628	0.6976	0	15	3359	0.2005	0.8401	1611	0.1369	0.5505	1614	-0.0636**
						2007					
0.1718	0.7708	0	15		0.2104	0.9412	1074	0.1468	0.5905	1076	-0.0636*
Panel C	: Number	of Fals	e Posi	tives E	recutions						
						All the Years					
0 1229	0.7747	0	20	10062	0.1395		4021	0.1155	0.7523	4940	-0.0240
0.1229	0.1141	0				e strengthe				4040	-0.0240
						Before year	3				
						2006					
0.0562	0.4867	0	19	6703	0.0534	0.3849	3220	0.0635	0.5867	3226	0.0101
0.0809	0 5719	0	19	7001	1.0.0000	2007 0.5628	2757	0.0776	0.6015	3764	-0.0124
0.0809	0.5/19	U	19	1621	0.0900	0.5628 After vear	2151	0.0776	0.0015	5/04	-0.0124
						2006					
0.2560	1.1397	0	20	3359	0.3116	1.3045	1611	0.2193	0.9967	1614	-0.0923**
						2007					
0.2695	1.2355	0	20	2241	0.3128	1.3845	1074	0.2481	1.1218	1076	-0.0647
_	_				_	_					

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