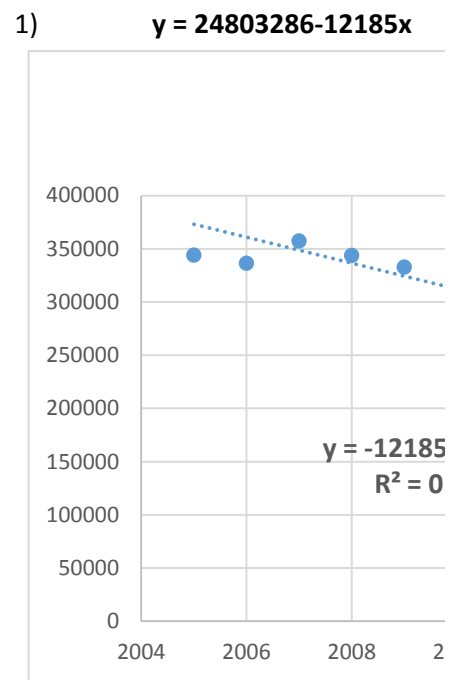


Rok (x)	Kriminalita (y) celkem
2005	344060
2006	336446
2007	357391
2008	343799
2009	332829
2010	313387
2011	317177
2012	304528
2013	325366
2014	288660
2015	247628
2016	218162
2017	202303
2018	192405
2019	199221
2020	165525
2021	153233
2022	181991
2023	181417

- 1) Lineární regresní model: gr
- 2) Rezidua
- 3) Durbin-Watsonův test
- 4) Predikce hodnot do budou
- 5) Vyrovnání časové řady pon



2)

#### REZIDUA

##### Pozorování Očekávaná Y

1	373110.48
2	360925.85
3	348741.23
4	336556.6
5	324371.97
6	312187.35
7	300002.72
8	287818.09
9	275633.47
10	263448.84
11	251264.22
12	239079.59
13	226894.96
14	214710.34
15	202525.71
16	190341.08

17 178156.46  
 18 165971.83  
 19 153787.21

3)

<i>epsilon_t</i>	epsilon:t-1
-29050.5	
-24479.9	-29050.479
8649.774	-24479.853
7242.4	8649.7737
8457.026	7242.4
1199.653	8457.0263
17174.28	1199.6526
16709.91	17174.279
49732.53	16709.905
25211.16	49732.532
-3636.22	25211.158
-20917.6	-3636.2158
-24592	-20917.589
-22305.3	-24591.963
-3304.71	-22305.337
-24816.1	-3304.7105
-24923.5	-24816.084
16019.17	-24923.458
27629.79	16019.168
<b>Suma</b>	

4)

**y = 24803286-12185x**

<b>x</b>	<b>y</b>
2024	140846
2025	128661
2026	116476
2027	104291
2028	92106

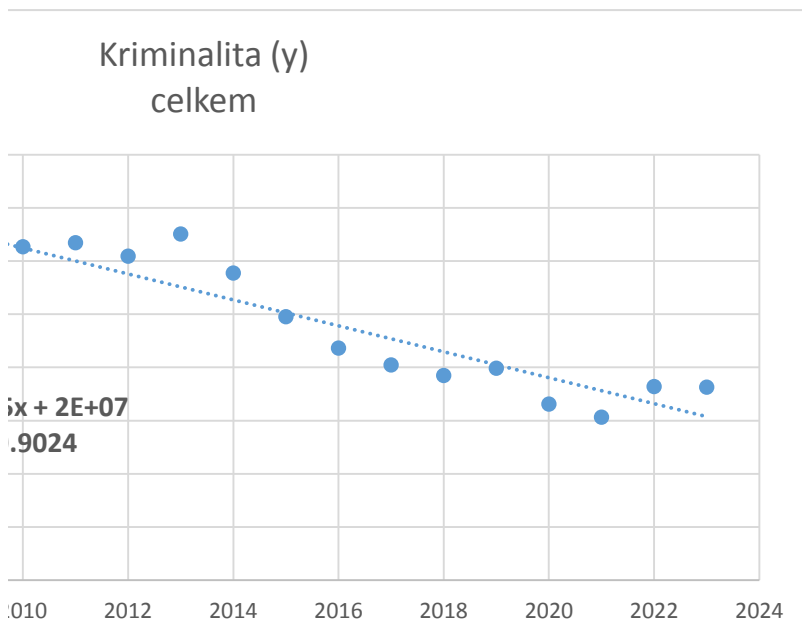
5)

<b>Rok (x)</b>	<b>Krim. (y)</b>
2005	344060
2006	336446
2007	357391
2008	343799
2009	332829
2010	313387
2011	317177
2012	304528
2013	325366
2014	288660

2015	247628
2016	218162
2017	202303
2018	192405
2019	199221
2020	165525
2021	153233
2022	181991
2023	181417

af, rovnice modelu, R<sup>2</sup>, statistická významnost.

cna - na příštích 5 let  
 noci klouzavého průměru o délce 3.



VÝSLEDEK

<i>Regresní statistika</i>	
Násobné R	0.949974
Hodnota s <sub>p</sub>	0.90245
Nastavená	0.896712
Chyba stř. l	23196.79
Pozorování	19

ANOVA	
	<i>Rozdíl</i>
Regrese	1
Rezidua	17
Celkem	18

<i>Koeficienty</i>	
Hranice	24803286
Soubor X 1	-12184.6

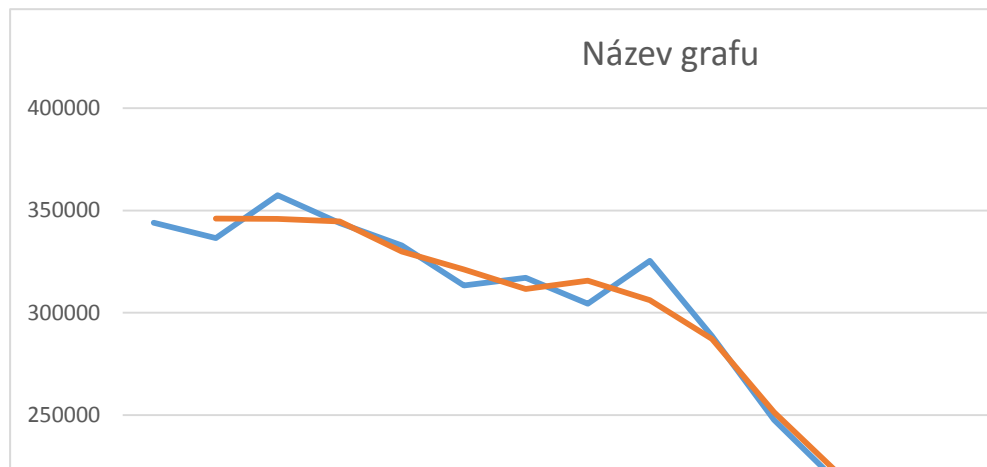
<i>Rezidua</i>
-29050.47895
-24479.85263
8649.773684
7242.4
8457.026316
1199.652632
17174.27895
16709.90526
49732.53158
25211.15789
-3636.215789
-20917.58947
-24591.96316
-22305.33684
-3304.710526
-24816.08421

-24923.45789  
 16019.16842  
 27629.79474

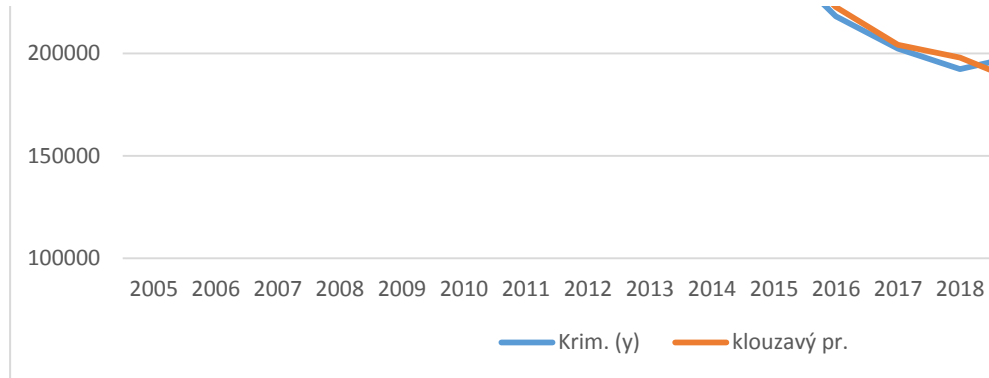
$(e_t - e_{(t-1)})^2$	$e_t^2$	$e_t * e_{(t-1)}$
843930327.1	843930327.1	0
20890624.92	599263184.9	711151444
1097572140	74818584.79	-211745185
1980700.687	52452357.76	62645121
1475317.087	71521294.11	61249167
52669472.79	1439166.436	10145494
255188685.9	294955857.4	20603169
215642.9186	279220933.9	286980574
1090493849	2473324697	831025891
601297767.4	635602482.4	1.254E+09
832170968.5	13222065.27	-91673210
298645876.4	437545549.4	76060869
13501021.97	604764652	514404590
5228659.908	497528051.6	548532022
361023800.4	10921111.66	73712681
462739197.8	615838035.5	82009975
11529.10806	621178753.4	618502630
1676298650	256613756.9	-399253070
134806643.4	763405557.2	442606335
<b>7750140875</b>	<b>9147546419</b>	<b>4.891E+09</b>

DW: 0.847237  
 r: 0.534654

klouzavý pr.
345965.6667
345878.6667
344673
330005
321131
311697.3333
315690.3333
306184.6667
287218



251483.3333
222697.6667
204290
197976.3333
185717
172659.6667
166916.3333
172213.6667

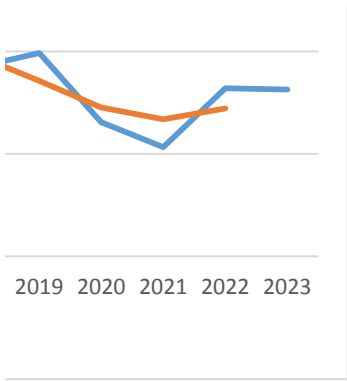


<i>SS</i>	<i>MS</i>	<i>F</i>	<i>ýznamnost F</i>
8.46E+10	8.46E+10	157.2692	5.11E-10
9.15E+09	5.38E+08		
9.38E+10			

<i>ba stř. hodn.</i>	<i>t Stat</i>	<i>Hodnota P</i>	<i>Dolní 95%</i>	<i>Horní 95%</i>	<i>Dolní 95.0%</i>	<i>Horní 95.0%</i>
1956823	12.67528	4.34E-10	20674751	28931821	20674751	28931821
971.6065	-12.5407	5.11E-10	-14234.5	-10134.7	-14234.5	-10134.7







## VÝSLEDEK

<i>Regresní statistika</i>	
Násobné R	0.949973554
Hodnota spolehlivosti R	0.902449754
Nastavená hodnota spolehlivo	0.896711504
Chyba stř. hodnoty	23196.78783
Pozorování	19

## ANOVA

	<i>Rozdíl</i>	<i>SS</i>	<i>MS</i>	<i>F</i>
Regrese	1	84625117520	84625117520	157.269166
Rezidua	17	9147546419	538090965.8	
Celkem	18	93772663939		

	<i>Koeficienty</i>	<i>Chyba stř. hodnoty</i>	<i>t Stat</i>	<i>Hodnota P</i>
Hranice	24803286.24	1956822.777	12.67528493	4.3354E-10
Soubor X 1	-12184.62632	971.6065244	-12.54070039	5.1124E-10

## REZIDUA

<i>Pozorování</i>	<i>Očekávaná Y</i>	<i>Rezidua</i>
1	373110.4789	-29050.47895
2	360925.8526	-24479.85263
3	348741.2263	8649.773684
4	336556.6	7242.4
5	324371.9737	8457.026316
6	312187.3474	1199.652632
7	300002.7211	17174.27895
8	287818.0947	16709.90526
9	275633.4684	49732.53158
10	263448.8421	25211.15789
11	251264.2158	-3636.215789
12	239079.5895	-20917.58947
13	226894.9632	-24591.96316
14	214710.3368	-22305.33684
15	202525.7105	-3304.710526
16	190341.0842	-24816.08421
17	178156.4579	-24923.45789
18	165971.8316	16019.16842
19	153787.2053	27629.79474

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*Významnost F*

5.11236E-10

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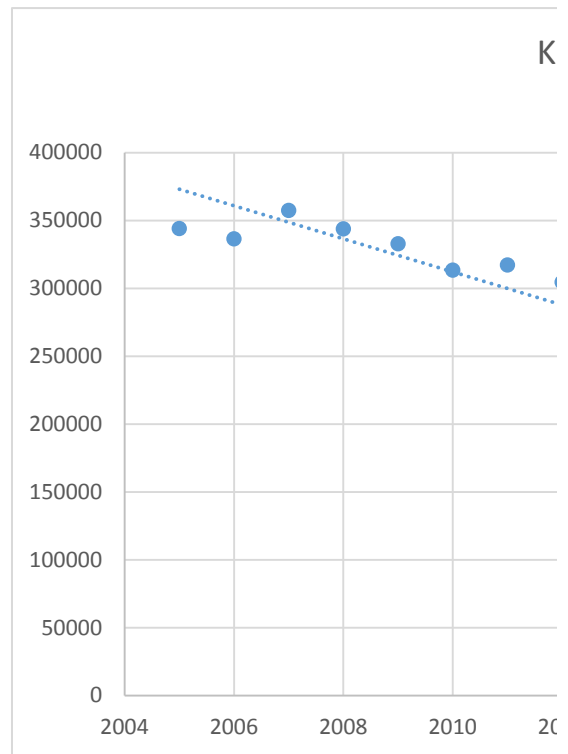
*Dolní 95%      Horní 95% Dolní 95,0%-horní 95,0%*

20674751.07 28931821 20674751 28931821

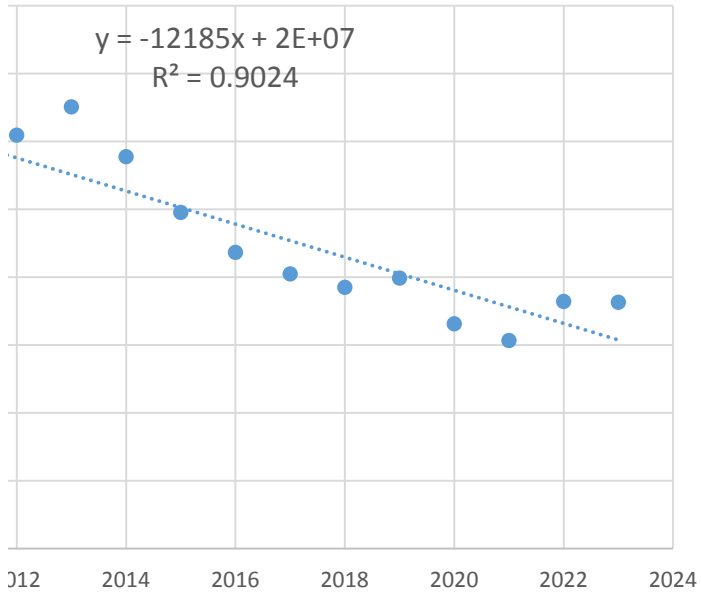
-14234.5369 -10134.7 -14234.5 -10134.7

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2019	199221
2020	165525
2021	153233
2022	181991
2023	181417



riminalita (y)  
celkem



<b>Rok (x)</b>	<b>Kriminalita (y) celkem</b>
2005	344060
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2010	313387
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2013	325366
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2017	202303
2018	192405
2019	199221
2020	165525
2021	153233
2022	181991
2023	181417