

311+332+339

: , 2017, 4 (96), 200-219

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2014 . -

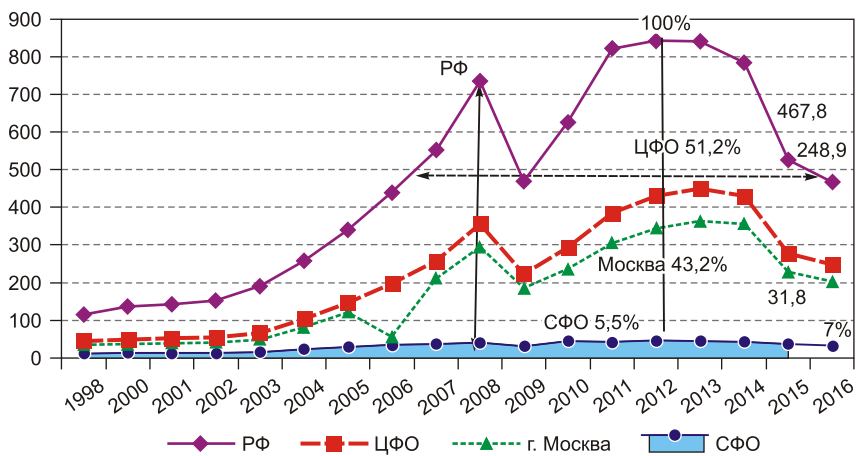
, , -

. 2014-2015 . -

1-2,2% .

1

, . . . ,
 , (40%, – 50%)
 [1; 2].
 , -
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 , -
 , -
 , -
 2012 . 130%-
 () , 2013 .
 842 , 2014 . -
 0,7 . 2014 . 7%, 2015 . – 33%, 2016 . – 11%.
 2017 . 467,8
 , 2009 . (469,2 .)
 2006 . (. 1).
 2,85% 2013 . 2,1%
 2015 . [4].
 , , .
 [3], 2015 . -
 6,9% 15% ()
).
 ? , -
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 , -
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 1 - - -
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. 1.

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» 2000–2016

1

17

2.

2

– 2011. – 2 (30).

, 2000–2016 .
 111%,
 – 114%, – 124%,
 108%. 2016 .
 2000 . 43%, , 53%, , 10% 26,5%
 6,8%.
 2004 . -
 13 . -
 .1
 . 2013 . -
 36,1 . , 2014 .
 1 ., 2015 .- 4,7 . 2014 .
 28,6 ., 2015 .- 153,8 . -
 , ()
 , 2016 .
 (58 .), -
 4,28 - .
 25,9 .
 2016 . 28%.
 2017 .,
 21,4 .
 2016 .,
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 2016 . , 2013 . -
 , .
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 2012 . -

317

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193

49%.

0,991.

2016

2013

(

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9,3

10,5

5,6

[3].

. 2

3

($r = 0,988$)

($r = 0,97$).

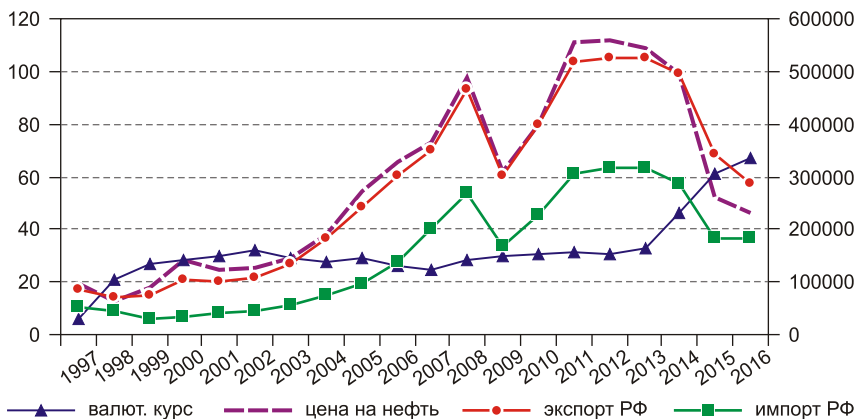
3

«British Petroleum»

1998–2016

1

Brent



. 2. ()
), , / . , . (Brent,
 ()

($r = 0,329$ $= 0,15$).

2 , ,
 2009 . , -

($r = 0,259$, $= 0,27$), -

[3].

0,861 (= 000). -

12 -

6 ,, -

71-72% -

1-6 -

100 1 -

100 -

2000-2016 -

13,3 -

2007 -

2010 . 2011 . -

2016 . -

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6,1 , -

9,8), -

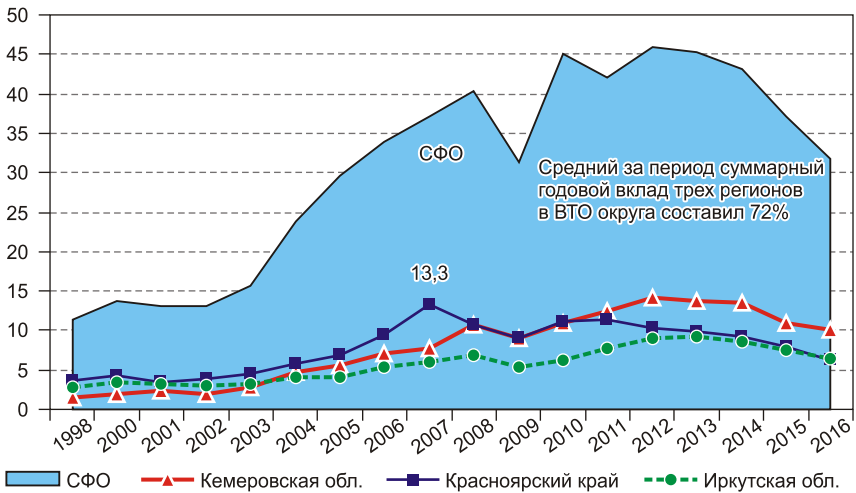
80%. 2012 . -

2016 . -

2012 .

2014 . (.3).

7,3



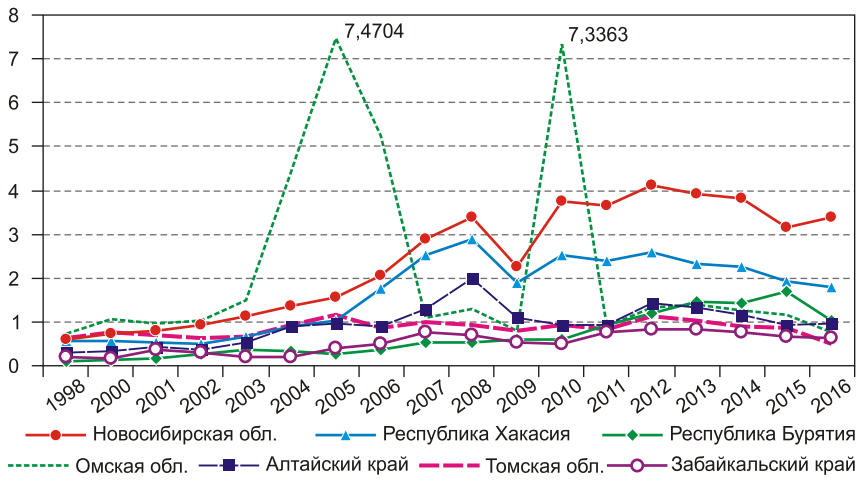
. 3.

» 1998–2016 ., « . 2017 . », « »
(URL: http://www.gks.ru/wps/wcm/connect/rosstat_main/rosstat/ru/statistics/publications/catalog/);

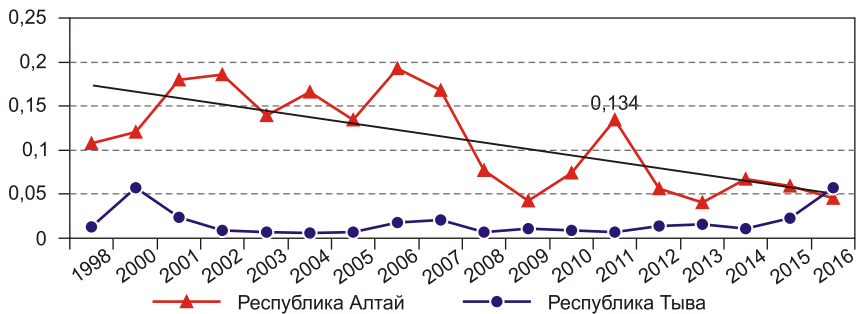
2010 .,
);

2017 . (URL: http://stu.customs.ru/index.php?option=com_content&view=section&id=34&Itemid=250)

0,84 . . . 2011 . . .
 42,2 ,, 6,4 . . . 2011 . . .
 48,6 ,, . . .
 . 4 5.
 2000–2016 ,, (4-),
 (5-), (8-), (6-).
 (9- 10-), (4- 7-).
 0,4% : 2016 . . . 11-



. 4.
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. 5.

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2015 . 53,7

2014–2016 .

89% 83%

53%, 200 , 373,5 ,, – 161

⁴ 1996 . « »,

1 2003 .

: , 2017, 4 (96)

209

1.

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I

2013 .

						2016 - 2013,	2016 - 2013, %
	2012	2013	2014	2015	2016		
	842,0	841,3	784,4	526,3	467,8	373,47	56
	430,7	449,1	429,2	277,7	248,9	200,21	55
	344,2	363,3	356,1	227,7	202,3	161,0	56
	46,0	45,3	43,0	37,1	31,82	13,51	70
:	14,108	13,702	13,437	10,985	10,09	3,61	74
	10,275	9,944	9,21	8,043	6,13	3,81	62
	8,963	9,33	8,687	7,584	6,49	2,85	70
	4,118	3,908	3,829	3,149	3,37	0,53	86
	2,58	2,316	2,259	1,926	1,78	0,54	77
	1,203	1,464	1,425	1,68	1,02	0,44	70
	1,332	1,409	1,271	1,16	0,77	0,64	54
	1,42	1,342	1,168	0,919	0,96	0,38	71
	1,114	1,039	0,91	0,879	0,49	0,55	47
	0,830	0,815	0,769	0,669	0,62	0,2	76
	0,057	0,041	0,068	0,06	0,05	0,0	112
	0,013	0,015	0,011	0,023	0,06	-0,04	375

: 2012 .

, , -
 , -
 40,1% 2013 . 36,6% 2015 .
 , , -
 , , -
 , 9,5 8 , -
 155,6 . -
 : 33,4 35,1% 2013 2016 . -
 . -
 , -
 76,9–76,6%, -
 . -
 (29,5 38,1%),
 (18,5 17,3%), (11,1
 11,8%).
 , ,
 (33 37%). -
 , -
 2014–2015 .
 41 33,8%. -
 28 26% (26
 23%) (11 16%) .), -
 3% . , : 15,6 -
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 1%,
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 ($r = 0,985$, $\alpha = 0,000$),
 , .

	-	1	Brent	-	R2	S2	DW
	-5558,7	4786,9*(1)	64354,1*		0,99	16671,2	2,2
	-24165,2	2957,7*(1)	45863,9*		0,967	20307,3	1,2
	-5662,1	4083,4*	67277,1*(1)		0,99	13943,2	2,25
	-27756,1	2616,5*(1)	47222,54*		0,97	18644,2	1,27
	-19900,9	2276,1*(1)	57519,6*		0,98	11346,5	2,03
	-22192,9	1813,3*(1)	32619,3*		0,961	13563,4	1,3
	2546,09	273,2*(1)		157,9**	0,89	3741,6	1,62
	988,8	79,1*			0,91	892,1	1,1
	-30,018	7,307*(1)	815,4*		0,8	215,8	2,23
	21,04	1,52*			0,4	64,79	1,08
	-6,27	-0,168**(1)		0,754**	0,53	10,33	1,9
	91,32	17,25*(1)	463,7**		0,86	271,8	1,13
	70,8	5,83*(1)	-165,29		0,85	89,15	1,07

	1	Brent		R2	S2	DW	
	181,8	6,79*		0,57	206,6	0,89	
	43,27	4,39*		0,85	64,9	1,98	
	72,83	1,88*		0,56	58,3	1,79	
	-106,19	4,378*(1)		4,71*	0,89	64,88	1,49
	2406,4	67,58*		0,7	1558,5	1,2	
	160,9	18,9*		0,85	228,4	1,397	
	1402,1	47,9*(1)	1694,01*	0,92	557,9	2,01	
	308,02	11,19*(1)	269,8**	0,83	192,7	1,073	
	-352,78	111,19*(1)	3890,87*	0,95	1005,7	1,79	
	32,99	9,86*		0,69	231,5	2,08	
	-332,6	12,69*(1)		22,2*	0,91	191,6	2,04
	-119,4	20,76*(1)	332,7**	0,91	240,3	1,45	
	132,6	3,73*		0,68	89,3	1,042	
	1049,1			-11,69	0,55	141,39	1,47
	46,2	1,62*	278,8*(1)	0,68	87,5	1,8	

: * 0,05 (); 0,1 (); ** -

(. . 2)

DW

« »

(. . 2).

DW

88%

90%

3,7%

(. . 2).

R^2 25%

45%.

.2.

	R^2	DW
35%.	11%	
92%.		
	11%	43%.
		55%
	R^2	DW
«		
0,86,		

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(630090, -
, 17, e-mail: gdkov@ieie.nsc.ru); -
(630090, , 2). -
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(630090, -
, 17, e-mail: andrey.v.kostin@gmail.com); -
(630090, -
, 2).

DOI: 10.15372/REG20170409

Region: Economics & Sociology, 2017, No. 4 (96), p. 200–219

G.D. Kovaleva, A.V. Kostin

ASSESSING EXTERNAL INFLUENCE ON TRADE IN THE REGIONS OF THE SIBERIAN FEDERAL DISTRICT

The article depicts a model to test a hypothesis about the effect of world-market oil prices, the ruble exchange rate, and anti-Russia sanctions on the international trade in the regions of the Siberian Federal District and Russia in general. We present the results of studies on foreign trade dynamics, commodity structure, and regional specific features. An independent result is an experience of using iterative multiple step-by-step regression, which makes it possible to identify a significant set of influencing factors and evaluate how they impact the generation of changes in a dependent variable. The article shows that sanctions had an inconsiderable effect on international trade. We have discovered a connection to sanctions for some regions of the Siberian Federal District but no influence from them on the district's aggregated trade.

Keywords: Siberian Federal District; international trade; dynamic models of regional export and import; world market prices; exchange rate; sanctions; stepwise regression analysis; correlations; risks

The publication is prepared within the priority XI.173 (project No. XI.173.1.1) according to the research plan of the IEIE SB RAS and supported by funding from the Department of Economics Academic Foundation at Novosibirsk National Research State University

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16.10.2017 .

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