



[6]

:

1959 (92)
2001 (78)

:

265000

:

:

:

:

148 4
149 5

6
7
8
9
10
11

(1)

:

(1)

	()	%	()	%	()	%
1996	596	-	901	-	1496	-
1997	609	2.2	972	7.9	1580	5.6
1998	608	- 0.1	714	- 26.5	1322	16.3
1999	655	7.9	787	10.2	1442	9.1
2000	697	6.4	849	7.9	1546	7.2
2001	796	14.2	913	7.6	1710	10.6
2002	890	11.8	1014	11.1	1904	11.4
2003	988	11.0	1147	13.1	2134	12.1
2004	1062	7.6	1311	14.3	2373	11.2
⁽²⁾	767	6.6	956	4.3	1723	5.3
	166	4.5	173	12.4	328	8.8
%	21.6	-	18.1	-	19.0	-

() :

: $Gr = \left(\left(\frac{x_t}{x_0} \right)^{\frac{1}{n}} - 1 \right) * 100\%$: (2)
 $Gr = \left(\left(\frac{2373}{1496} \right)^{\frac{1}{9}} - 1 \right) * 100 = 5.3\%$

:

. %4.3 %6.6
 .%5.3 ()

.0.035

: 2

: ((2))

(2)

	()	%	()	%	()	%
1996	3001	-	566	-	569	-
1997	3226	7.5	590	4.3	593	4.3
1998	2767	- 14.2	357	- 39.5	360	- 39.4
1999	2853	3.1	386	801	389	801
2000	2980	4.5	413	7.1	416	7.1
2001	3071	3.1	445	7.7	448	7.7
2002	4129	34.5	483	8.5	489	8.6
2003	8323	101.6	573	18.7	581	19.4
2004	8454	1.6	614	7.1	622	7.0
	4312	12	492	0.9	496	1.0
	2211	34	91	17	92	17
	51.3	-	18.5	-	18.6	-

:

2004 1996

%12

. %0.9

.%1

2003

2001 78

% 4

:

3

1995

(3)

. 2004

(3)

	()	%
1995	5977	-
1996	7325	22.6
1997	8657	18.2
1998	6788	- 21.6
1999	5793	- 14.7
2000	6244	7.8
2001	7520	20.4
2002	10243	36.2
2003	19043	85.9
2004	19482	2.3
	9707	12.5
	4934	-
%	50.8	-

()

2003 : (3)
%12.5
.(%2.3) 2004 (%58.9)
1999 1998

2004

.. (3)

[12]

: 4

[13] :

:(4)

(3)

(4)

العلم	شيفرة	معدل النمو %	رفاة طبيعية	معدل النمو %	عجز طبيعي	معدل النمو %	معدل النمو %	إصابة الرفاة	معدل النمو %	عجز إصابة	معدل النمو %	إجمالي	معدل النمو %
1996	41856	-	3127	-	2381	-	7349	-	9812	-	93008	-	
1997	45269	8.2	33163	5.9	2621	10.1	7659	4.2	10681	8.9	99393	6.9	
1998	49224	8.7	35567	7.3	2865	9.3	8060	5.2	11730	9.8	107446	8.1	
1999	53763	9.2	38197	7.4	3130	9.3	8459	5.0	12604	7.5	116153	8.1	
2000	59422	10.5	41113	7.6	3342	6.8	8873	4.9	13817	9.6	126567	9.0	
2001	65247	9.8	44064	7.2	3553	6.3	9204	3.7	14994	8.5	137062	8.3	
2002	73225	12.2	47298	7.3	3766	6.0	9508	3.3	16165	7.8	149962	9.4	
2003	81354	11.1	50549	6.9	4086	8.5	9829	3.4	17264	8.6	163082	8.8	
2004	98*92	13.2	54387	7.6	4502	10.2	10163	3.4	18467	7.0	179617	10.1	
المتوسط ⁽⁴⁾	62384	9.2	41741	6.3	3361	7.3	8789	3.7	13948	7.3	130254	7.6	
الاحتراف المعياري	16121	1.63	7505	0.53	653	1.59	922	0.75	2827	19.66	27931	0.92	
معامل الاختلاف	25.8	-	18.0	-	19.4	-	10.5	-	20.3	-	21.4	-	

2004 1996 .%7.6
 (%9.2)
 . (%7.3)
).
 : 5
 (%14) (%7)
 . (5)
 1995 (5)
 %13 2004
 %26.9 2004
 .(%3.4) 1998
 (5)

	()	%	()	%
1995	2847	-	7332	-
1996	3176	11.6	8782	19.8
1997	3550	11.8	10374	18.1
1998	3669	3.4	8295	- 20.0
1999	4025	9.7	7075	- 14.7
2000	4593	14.1	7959	12.5
2001	5093	10.9	9741	22.4
2002	6186	21.5	11428	17.3
2003	7643	23.6	20218	76.9
2004	9695	26.9	17154	- 15.2
	5048	13	10836	8.9
	2082	7.1	4184	27.7
%	41.2	-	38.6	-

() :

10836

2004
(2004)

% 8.9

)

.(

: 6

:

.(Ie)

.(Wp)

.((6)). (Wp1)

:(Ie) ()

(%22.6-) 2000

2003

⁽⁴⁾(%4.1 -)

(4)

(6)

	% w _p	%	I _e %	%	% W _{pl}	%
1996	537.42	-	257.5	-	1609	-
1997	523.72	- 2.6	276.5	7.4	1590	- 1.2
1998	410.65	- 21.6	292.2	5.7	1230	- 22.6
1999	316.56	- 22.9	226.1	- 22.6	1242	1.0
2000	276.77	- 12.6	175.8	- 22.3	1222	- 1.6
2001	260.39	- 5.9	173.3	- 1.4	1248	2.1
2002	292.91	12.5	191.3	10.4	1270	1.8
2003	425.26	45.2	184.7	- 3.4	1309	3.1
2004	318.43	- 25.1	264.5	43.2	1321	0.9

:

:(W_p)()

1996 %25.1- 2004

%40

.%5.7-

:(w_{pl}) ()

(%22.6-) 1998

2004 %3.1

: 1996 %18-

1996 16 %2.2-

13 2004

:

2006

265000

: MESOSAURE

(ADELSTAT)⁽⁵⁾ :

2006 2005

1

. 2007

2

3

4

5

(R²)

(R.S.E)

:

$$Y = f(t) = a t + b$$

:

$$Y = f(t) = a t^2 + b t + c$$

:

1

(1)

:

(8)

(W)

$$W = f(t) = 25990 t^2 - 149890 t + 1649500$$

(1)⁽⁶⁾

. ADELSTAT Ver.1

:

(5)

2002

t: (6.16) (3.47) (17.51)
 Sig.: (0.0008) (0.0134) (0.000)
 $R^2 = 0.97$ R.S.E = 74049

(1)

%97

:

(1)

(7)

2005	2749628	2562598	2936658
2006	3145530	2910648	3380411
2007	3593411	3285367	3901455

(7)

2007

%95

3901455

3285367

3593411

: **2**

265000

(W)

(P)

:

$P = f(W) = - 4568.1 + 0.0783 W$ (2)

t: (6.14)
 Sig.: (0.0005)
 L.b.: 0.048
 U.b.: 0.108
 $R^2 = 0.84$ F = 37.66

"

(6)

. 2005 "

48

78

(2)

.%95

108

265

:

(8)

2006	3410530
2007	3858411

2

(8)

.(9)

(II)

(9)

2006	262476	159137	363769
2007	297546	180636	412140

2005

.() 2006

180636

(9)

.%95

412140

:

3

:

(P)

(E)

E = f (P) = - 3998.5 + 0.0713 P (3)

t : (10.5)

Sig.: (0.000)

L.b.: 0.056

U.b. : 0.087

R² = 0.94 F = 110.15

%95 (3)

8.7 5.6

.%985

(9) 3

.(10) 2007 2006

3 (10)

	()	()	()
2006	14716	10700	18837
2007	17217	12664	21888

12664 2006 . 10700

. 18837

2007 .

. 2007 . 21888 2006

: 4

.(5) 2007 2006

(I)

[13]

$$I = f(t) = 189.79 t^2 - 1401.2 t + 10297 \quad (4)$$

t: (2.56) (1.67) (5.13)

Sig.: (0.000) (0.138) (0.001)

R² = 0.74 R.S.E = 1705.3

4

.(11)

4

(11)

	()	()	()
2005	17848	13596	22100
2006	20812	15652	25972
2007	24156	17639	30673

17.639

% 139.3

2007

30.673

%140.1

:

5

[9] [2] ()

[2]

2005

:

: (R1 (t))

$$R1(t) = 294.42 t^2 - 100.4 t + 9902.3 \quad (5)$$

$$t: (5.72) (1.72) (7.1)$$

$$\text{Sig.: (0.0007) (0.129) (0.0002)}$$

$$R^2 = 0.98 \quad \text{R.S.E} = 1181.9$$

: (R2 (t))

$$R2(t) = 292.4 t^2 - 1260.3 t + 19067 \quad (6)$$

$$t: (2.247) (0.86) (0.001)$$

$$\text{Sig.: (0.000) (0.419) (0.001)}$$

$$R^2 = 0.96 \quad \text{R.S.E} = 2989.9$$

2007 2006

%3

%6.5

:

2007

(12)

	()	()
2005	34523	68311
2006	47091	98891
2007	55094	115698

:

:(13)

(13)

	()	()	
2006	12568	30580	43148
2007	8003	16807	24810

:

:

2006

1

:

$$+ 20812 - 14716 = + 6096$$

()

: 2

$$+ 6096 - 43148 = - 37052$$

()

. 2006

10700 **3**
 : **15652**
 $15652 - 10700 = + 4952$
 .()
2006 % 8
 . **43148**
 :

: **265000** **-1**
 / 37 / (..)
 . **2006**
 . **2**
 . **3**
 . **4**
 . **5**

% 8

6

. 2005	-1
. 1982	2
.1999	-3
	-4
. 1996	
ADELSTAT Ver.1	-5
	. 2002
. 1988	-6
	-7
. 1990	-8
	-9
	. 2003
.1981	-10
	-11
	.(2004 1996)
) 2005/10/13 11943	-12
	:(

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