

WEB解説7.3

ダミー変数 (一時的ダミー変数)

消費関数の例

ファイルを開く

A	B	C	D	E
1	消費関数用年次データ1980－2009			
2				
3	実質民間最終可処分所得 (不実質金融資産残高			
4	RC	RYD	RMA	
5	1980	178,232.9	304,774.9	457507.3739
6	1981	181,000.2	314,386.4	489346.8401
7	1982	188,722.4	322,011.9	527042.1117
8	1983	194,070.8	329,101.9	582493.4679
9	1984	198,450.2	338,908.7	629559.5402
10	1985	205,919.8	358,121.7	683019.2135
11	1986	212,428.1	371,861.8	763625.7174
12	1987	220,709.3	386,722.5	846323.348
13	1988	230,958.4	410,766.9	954802.7263
14	1989	241,157.6	431,427.2	1070629.374
15	1990	252,408.6	455,788.9	1027010.021
16	1991	257,039.6	471,835.9	1046293.788
17	1992	262,234.2	478,055.9	1044534.187
18	1993	264,250.6	478,547.3	1101718.217
19	1994	269,749.5	480,173.3	1161100.293
20	1995	274,169.7	487,568.1	1212521.722
21	1996	280,003.0	499,707.8	1257892.059
22	1997	281,316.8	505,048.8	1263504.377
23	1998	278,649.6	498,183.1	1289971.984
24	1999	280,997.9	497,518.0	1389274.803
25	2000	282,786.3	505,945.9	1414657.1
26	2001	287,422.5	505,478.2	1409891.287
27	2002	290,572.0	508,863.0	1419756.276
28	2003	292,592.1	517,713.4	1484907.547
29	2004	298,443.1	530,307.1	1536396.174
30	2005	303,925.5	545,316.8	1665349.514
31	2006	309,510.2	553,582.2	1703642.329
32	2007	319,617.7	566,452.0	1679010.444
33	2008	323,702.2	551,157.9	1620334.585
34	2009	328,593.5	519,869.1	1689483.14
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すべてのデータで回帰

	A	B	C	D	E
1	消費関数用年次データ1980－2009				
2					
3	実質民間最終所得 RC		実質国民総可処分所得 RYD		実質全金融資産残高 RMA
4	1980	178,232.9	304,774.9	457507.3739	
5	1981	181,000.2	314,386.4	489346.8401	
6	1982	188,722.4	322,011.9	527042.1117	
7	1983	194,070.8	329,101.9	582493.4679	
8	1984	198,450.2	338,908.7	629559.5402	
9	1985	205,919.8	358,121.7	683019.2139	
10	1986	212,428.1	371,861.8	763625.7174	
11	1987	220,709.3	386,722.5	846323.348	
12	1988	230,958.4	410,766.9	954802.7263	
13	1989	241,157.6	431,427.2	1070629.374	
14	1990	252,408.6	455,788.9	1027010.021	
15	1991	257,039.6	471,835.9	1046293.788	
16	1992	262,234.2	478,055.9	1044534.187	
17	1993	264,250.6	478,547.3	1101718.217	
18	1994	269,749.5	480,173.3	1161100.293	
19	1995	274,169.7	487,568.1	1212521.723	
20	1996	280,003.0	499,707.8	1257892.059	
21	1997	281,316.8	505,048.8	1263504.371	
22	1998	278,649.6	498,183.1	1289971.984	
23	1999	280,997.9	497,518.0	1389274.803	
24	2000	282,786.3	505,945.9	1414657.1	
25	2001	287,422.5	505,478.2	1409891.287	
26	2002	290,572.0	508,863.0	1419756.276	
27	2003	292,592.1	517,713.4	1484907.547	
28	2004	298,443.1	530,307.1	1536396.174	
29	2005	303,925.5	545,316.8	1665349.514	
30	2006	309,510.2	553,582.2	1703642.329	
31	2007	319,617.7	566,452.0	1679010.444	
32	2008	323,702.2	551,157.9	1620334.589	
33	2009	328,593.5	519,869.1	1689483.144	
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32	2007	319,617.7	566,452.0	1679010.444				
33	2008	323,702.2	551,157.9	1620334.585				
34	2009	328,593.5	519,869.1	1689483.14				
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37	概要							
38								
39	回帰統計							
40	重相関 R	0.99210717						
41	重決定 R2	0.98427663						
42	補正 R2	0.98311194						
43	標準誤差	5788.69415						
44	観測数	30						
45								
46	分散分析表							
47	自由度	変動	分散	割された分散	有意 F			
48	回帰	2	56636522212	28318261106	845.0947	4.5E-25		
49	残差	27	904742458.6	33508979.95				
50	合計	29	57541264671					
51								
52	係数	標準誤差	t	P-値	下限 95%	上限 95%	下限 95.0%	上限 95.0%
53	切片	70873.1951	13440.98723	5.272915882	1.46E-05	43294.57	98451.82	43294.57
54	RYD	0.25909782	0.05704399	4.54207034	0.000104	0.142053	0.376142	0.142053
55	RMA	0.06121941	0.011730241	5.218938718	1.69E-05	0.037151	0.085288	0.037151
56								
57								

ダミー変数の作成

A	B	C	D	E	F
1 消費関数用年次データ1980－2009					
2					
3 実質民間最終実質国民総可処分所得（不実質金融資産残高					
4	RC	RYD	RMA	D2008	
5	1980	178,232.9	304,774.9	457507.3739	0
6	1981	181,000.2	314,386.4	489346.8401	0
7	1982	188,722.4	322,011.9	527042.1117	0
8	1983	194,070.8	329,101.9	582493.4679	0
9	1984	198,450.2	338,908.7	629559.5402	0
10	1985	205,919.8	358,121.7	683019.2135	0
11	1986	212,428.1	371,861.8	763625.7174	0
12	1987	220,709.3	386,722.5	846323.348	0
13	1988	230,958.4	410,766.9	954802.7263	0
14	1989	241,157.6	431,427.2	1070629.374	0
15	1990	252,408.6	455,788.9	1027010.021	0
16	1991	257,039.6	471,835.9	1046293.788	0
17	1992	262,234.2	478,055.9	1044534.187	0
18	1993	264,250.6	478,547.3	1101718.217	0
19	1994	269,749.5	480,173.3	1161100.293	0
20	1995	274,169.7	487,568.1	1212521.722	0
21	1996	280,003.0	499,707.8	1257892.059	0
22	1997	281,316.8	505,048.8	1263504.377	0
23	1998	278,649.6	498,183.1	1289971.984	0
24	1999	280,997.9	497,518.0	1389274.803	0
25	2000	282,786.3	505,945.9	1414657.1	0
26	2001	287,422.5	505,478.2	1409891.287	0
27	2002	290,572.0	508,863.0	1419756.276	0
28	2003	292,592.1	517,713.4	1484907.547	0
29	2004	298,443.1	530,307.1	1536396.174	0
30	2005	303,925.5	545,316.8	1665349.514	0
31	2006	309,510.2	553,582.2	1703642.329	0
32	2007	319,617.7	566,452.0	1679010.444	0
33	2008	328,702.2	551,157.0	1620334.585	1
34	2009	328,593.5	519,869.1	1689483.14	0
35					
36					

D2008の名前で、
ダミー変数を作成。

	A	B	C	D	E	F	G
1	消費関数用年次データ1980-2009						
2							
実質民間最終実質国民総可処分所得（不実質金融資産残高）							
4	RC	RYD	RMA	D2008	D2009		
5	1980	178,232.9	304,774.9	457507.3739	0	0	
6	1981	181,000.2	314,386.4	489346.8401	0	0	
7	1982	188,722.4	322,011.9	527042.1117	0	0	
8	1983	194,070.8	329,101.9	582493.4679	0	0	
9	1984	198,450.2	338,908.7	629559.5402	0	0	
10	1985	205,919.8	358,121.7	683019.2135	0	0	
11	1986	212,428.1	371,861.8	763625.7174	0	0	
12	1987	220,709.3	386,722.5	846323.348	0	0	
13	1988	230,958.4	410,766.9	954802.7263	0	0	
14	1989	241,157.6	431,427.2	1070629.374	0	0	
15	1990	252,408.6	455,788.9	1027010.021	0	0	
16	1991	257,039.6	471,835.9	1046293.788	0	0	
17	1992	262,234.2	478,055.9	1044534.187	0	0	
18	1993	264,250.6	478,547.3	1101718.217	0	0	
19	1994	269,749.5	480,173.3	1161100.293	0	0	
20	1995	274,169.7	487,568.1	1212521.722	0	0	
21	1996	280,003.0	499,707.8	1257892.059	0	0	
22	1997	281,316.8	505,048.8	1263504.377	0	0	
23	1998	278,649.6	498,183.1	1289971.984	0	0	
24	1999	280,997.9	497,518.0	1389274.803	0	0	
25	2000	282,786.3	505,945.9	1414657.1	0	0	
26	2001	287,422.5	505,478.2	1409891.287	0	0	
27	2002	290,572.0	508,863.0	1419756.276	0	0	
28	2003	292,592.1	517,713.4	1484907.547	0	0	
29	2004	298,443.1	530,307.1	1536396.174	0	0	
30	2005	303,925.5	545,316.8	1665349.514	0	0	
31	2006	309,510.2	553,582.2	1703642.329	0	0	
32	2007	319,617.7	566,452.0	1679010.444	0	0	
33	2008	323,702.2	551,157.9	1620334.585	1	0	
34	2009	328,593.5	519,869.1	1689483.14	0	1	
35							

D2009の名前で、
ダミー変数を作成。

ダミー変数を使った回帰

	係数	標準誤差	t	P-値	下限 95%	上限 95%	下限 95.0%	上限 95.0%	
52									
53	切片	70873.1951	13440.98723	5.272915882	1.46E-05	43294.57	98451.82	43294.57	98451.82
54	RYD	0.25909782	0.05704399	4.54207034	0.000104	0.142053	0.376142	0.142053	0.376142
55	RMA	0.06121941	0.011730241	5.218938718	1.69E-05	0.037151	0.085288	0.037151	0.085288
56									
57	概要								
58									
59	回帰統計								
60	重相関 R	0.99870463							
61	重決定 R2	0.99741094							
62	補正 R2	0.99699669							
63	標準誤差	2441.12807							
64	観測数	30							
65									
66	分散分析表								
67	自由度	変動	分散	割られた分散	有意 F				
68	回帰	4	57392287014	14348071754	2407.756	6.22E-32			
69	残差	25	148977656.8	5959106.273					
70	合計	29	57541264671						
71									
72	係数	標準誤差	t	P-値	下限 95%	上限 95%	下限 95.0%	上限 95.0%	
73	切片	44381.39	6265.443146	7.083519707	2E-07	31477.47	57285.31	31477.47	57285.31
74	RYD	0.39554227	0.027439412	14.41511441	1.28E-13	0.33903	0.452055	0.33903	0.452055
75	RMA	0.02858726	0.005812728	4.918045594	4.61E-05	0.016616	0.040559	0.016616	0.040559
76	D2008	14993.6311	2569.813338	5.834521455	4.38E-06	9701.001	20286.26	9701.001	20286.26
77	D2009	30284.2061	2950.800254	10.26304848	1.89E-10	24206.92	36361.49	24206.92	36361.49
78									
79									