	Dates	poultry outbrea
2006	Jan - Dec	1007
2007	Jan - Dec	282
2008	Jan - Dec	115
2009	Jan - Dec	176
2010	Jan - Dec	476
2011	Jan - Dec	386
2012	Jan - Dec	97
2013	Jan - Dec	98
2014	Jan - Dec	366
2015	Jan - Apr	189
		3192

	Year	Cases
	2006	18
	2007	25
	2008	8
	2009	39
	2010	29
	2011	39
	2012	11
	2013	4
	2014	38
	2015*	131
	Total	342
2015*: As at 15th April 2015		

Year	poulOut
2006	1007
2007	282
2008	115
2009	176
2010	476
2011	386
2012	97
2013	98
2014	366
2015	189

Name	Area(km²)	human Populati

Alexandria	2300	4,123,869
Aswan	34608	1,186,482
Asyut	13720	3,444,967
Beheira	9826	4,747,283
Beni Suef	10954	2,291,618
Cairo	3085	8,471,859
Dakahlia	3538	4,989,997
Damietta	910	1,097,339
Faiyum	6068	2,511,027
Gharbia	1942	4,011,320
Giza	13184	5,724,545
Ismailia	5067	953,006
Kafr el-Sheikh	3467	2,620,208
Matruh	166563	323,381
Minya	2262	4,166,299
Monufia	2499	3,270,431
New Valley	440098	187,263
North Sinai	27564	343,681
Port Said	1345	570,603[citation
Qalyubia	1124	4,251,672
Qena	8980	3,001,681
Red Sea	120000	288,661
Al Sharqia	4911	5,354,041
Sohag	11218	3,747,289
South Sinai	31272	150,088
Suez	9002	512,135
Luxor	2409.68	457,286

Human popn de	human cases	
1960.434783		
38.22815534		
283.3819242		
542.1331162		
237.0823443		
2840.194489		
1571.226682		
1362.637363		
474.9505603		
2285.787848		
529.3537621		
212.5518058		
847.9953851		
2.335452652		
2078.249337		
1463.385354		
0.472622007		
14.33028588		
466.9144981		

4229.537367		
311.9153675		
2.675		
1223.783344		
375.3788554		
5.084420568		
63.98578094		
441.5524053		

chicken prev

Gharbia	0.92
Kafr Elshiekh	0.87
Fayoum	4.53
Alexandria	0
Assiut	4.76
Aswan	1.16
Beni suief	4.05
Behera	0
Cairo	9.82
Dakahlya	2.26
Dumyat	3.57
Giza	8.11
Ismaliya	2.11
Luxor	9.62
Matrouh	0
Menia	5.43
Menufia	5.54
Port Said	8.7
Qalubiya	4.69
Qena	14.71
Sharkia	0.52
Sohaj	6.2
Suis (Suez)	0
Wadi Elgadid	0

human cases reported
18
25
8
39
29
39
11
4
38
131
342

Deaths	CFR
10	56%
9	36%
4	50%
4	10%
13	45%
15	38%
5	45%
3	75%
14	37%
38	29%
115	34%

humaCase
18
25
8
39
29
39
11
4
38
131

human Population (2012-01-01)

4509000
1323000
3888000
5327000
2597000
8762000
5559000
1240000
2882000
4439000
6979000
1077000
2940000
389000
4701000
3657000
208000
395000
628000
4754000
2801000
321000
6010000
4211000
159000
576000
1064000

projected poultry popn (2(	poultry population densities
721886.5333	313.8637
1821207.5	52.62389
5733786.273	417.9145
9526271.222	969.4964
4564826.667	416.7269
42072.44848	13.63775
10604010.4	2997.176
2832698.71	3112.856
5853165.833	964.5956
6118666.364	3150.704
3270656.667	248.0777
1700551.222	335.613
7326391.333	2113.179
434049.4286	2.605917
5539075.833	2448.751
5904416.8	2362.712
473304	1.075451
369460.1053	13.40372
243356.2353	180.934

3743854.4	3330.831
3885216.8	432.6522
53818.37949	0.448486
13098754.4	2667.228
7501303.444	668.6846
90015.66667	2.878475
140734	15.63364
432777.4286	179.5995

Statistics/Data Analysis

User: CLEBV data
Project: 01-04-2015

month4	**2.976274**	**2.37486**	**1.37**	**0.172**	**.6229787**	**14.21912**
month6	**3.15e-07**	**1.95e-07**	**-24.14**	**0.000**	**9.34e-08**	**1.06e-06**
month7	**2.09e-07**	**1.56e-07**	**-20.65**	**0.000**	**4.86e-08**	**9.00e-07**
month8	**2.89e-07**	**.**	**.**	**.**	**.**	**.**
month9	**6.52e-07**	**4.79e-07**	**-19.41**	**0.000**	**1.55e-07**	**2.75e-06**
month10	**154.955**	**207.7862**	**3.76**	**0.000**	**11.189**	**2145.953**
month11	**112.6909**	**141.6056**	**3.76**	**0.000**	**9.600253**	**1322.803**
month12	**130.2455**	**161.6787**	**3.92**	**0.000**	**11.43232**	**1483.854**
farmtype1	**.5874433**	**.1511055**	**-2.07**	**0.039**	**.3548258**	**.972561**
farmtype3	**2.684589**	**.8783236**	**3.02**	**0.003**	**1.4138**	**5.097621**
gov2	**3.988322**	**1.674646**	**3.29**	**0.001**	**1.751385**	**9.082364**
gov4	**7.653381**	**4.06115**	**3.84**	**0.000**	**2.705056**	**21.65362**
gov6	**5.196878**	**2.790617**	**3.07**	**0.002**	**1.814115**	**14.88745**
gov8	**14.12778**	**6.68304**	**5.60**	**0.000**	**5.590102**	**35.70495**
gov9	**2.981548**	**1.383222**	**2.35**	**0.019**	**1.201008**	**7.401805**
gov10	**4.473358**	**3.610046**	**1.86**	**0.063**	**.919825**	**21.75515**
gov12	**6.087266**	**2.637095**	**4.17**	**0.000**	**2.604169**	**14.22904**
gov14	**17.62338**	**10.24904**	**4.93**	**0.000**	**5.637223**	**55.09512**
gov16	**16.07535**	**8.589629**	**5.20**	**0.000**	**5.640705**	**45.81288**
gov17	**6.211138**	**2.557405**	**4.44**	**0.000**	**2.771362**	**13.92032**
gov18	**22.93431**	**19.29722**	**3.72**	**0.000**	**4.408329**	**119.3156**
gov19	**6.443814**	**2.756368**	**4.36**	**0.000**	**2.786366**	**14.90211**
gov20	**28.85175**	**14.14496**	**6.86**	**0.000**	**11.0372**	**75.41979**
gov22	**9.831615**	**4.255892**	**5.28**	**0.000**	**4.2088**	**22.96632**

note: 80 failures and 0 successes completely determined.

```
1 . logistic result specie1 specie2 season1 season2 season3 season4 lbmtype1 lbmtype2 month1 month3 mont
> ov4 gov6 gov8 gov9 gov10 gov12 gov14 gov16 gov17 gov18 gov19 gov20 gov22
```

note: season4 dropped due to collinearity
note: lbmtype1 dropped due to collinearity

Logistic regression — Number of obs = **4134**
LR chi2(**31**) = **251.31**
Prob > chi2 = **0.0000**
Log likelihood = **-525.59248** — Pseudo R2 = **0.1929**

result	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf.	Interval]
specie1	**.3243431**	**.0967526**	**-3.77**	**0.000**	**.1807542**	**.5819972**
specie2	**1.599339**	**.2992926**	**2.51**	**0.012**	**1.108284**	**2.307971**
season1	**278.5591**	**388.7066**	**4.03**	**0.000**	**18.07735**	**4292.397**
season2	**4.837755**	**2.295176**	**3.32**	**0.001**	**1.90901**	**12.25969**
season3	**29.6782**	**35.72537**	**2.82**	**0.005**	**2.804124**	**314.1073**
lbmtype2	**1.862037**	**.4020253**	**2.88**	**0.004**	**1.219576**	**2.842942**
month1	**43.33444**	**54.95374**	**2.97**	**0.003**	**3.609095**	**520.3171**
month3	**9.811437**	**8.340504**	**2.69**	**0.007**	**1.854144**	**51.91846**
month4	**3.316093**	**2.647576**	**1.50**	**0.133**	**.6934664**	**15.85725**
month6	**1.009147**	**.5961725**	**0.02**	**0.988**	**.3170233**	**3.212312**
month7	**.687145**	**.5009889**	**-0.51**	**0.607**	**.1646069**	**2.86846**
month9	**2.126267**	**1.519654**	**1.06**	**0.291**	**.5239135**	**8.629307**
month10	**169.9751**	**227.796**	**3.83**	**0.000**	**12.29217**	**2350.402**
month11	**124.1862**	**156.287**	**3.83**	**0.000**	**10.54013**	**1463.191**
month12	**143.7839**	**178.8403**	**3.99**	**0.000**	**12.55956**	**1646.061**
farmtype1	**.58736**	**.1510996**	**-2.07**	**0.039**	**.354757**	**.9724734**
farmtype3	**2.632502**	**.8535644**	**2.99**	**0.003**	**1.394359**	**4.970075**
gov2	**4.011202**	**1.683879**	**3.31**	**0.001**	**1.761753**	**9.132799**
gov4	**7.710205**	**4.092225**	**3.85**	**0.000**	**2.724501**	**21.8195**
gov6	**5.22651**	**2.807352**	**3.08**	**0.002**	**1.823895**	**14.97696**
gov8	**14.27054**	**6.750434**	**5.62**	**0.000**	**5.646689**	**36.06506**
gov9	**3.007026**	**1.395223**	**2.37**	**0.018**	**1.211128**	**7.465936**
gov10	**4.515012**	**3.644106**	**1.87**	**0.062**	**.9282108**	**21.96196**
gov12	**6.16911**	**2.667752**	**4.21**	**0.000**	**2.643208**	**14.39838**
gov14	**17.72648**	**10.31032**	**4.94**	**0.000**	**5.669367**	**55.42558**
gov16	**16.22845**	**8.669136**	**5.22**	**0.000**	**5.696004**	**46.23635**
gov17	**6.282784**	**2.582358**	**4.47**	**0.000**	**2.807309**	**14.06093**
gov18	**23.06395**	**19.40669**	**3.73**	**0.000**	**4.433099**	**119.9941**
gov19	**6.479444**	**2.76884**	**4.37**	**0.000**	**2.804119**	**14.97197**
gov20	**29.00213**	**14.22269**	**6.87**	**0.000**	**11.09173**	**75.83341**
gov22	**9.885069**	**4.280392**	**5.29**	**0.000**	**4.230541**	**23.09742**

```
2 . logistic result specie1 specie2 season1 season2 season3 season4 lbmtype1 lbmtype2 month1 month3 mont
> 6 gov8 gov9 gov10 gov12 gov14 gov16 gov17 gov18 gov19 gov20 gov22

note: season1 dropped due to collinearity
note: lbmtype1 dropped due to collinearity

Logistic regression                               Number of obs   =          4134
                                                  LR chi2(30)     =        251.30
                                                  Prob > chi2     =        0.0000
Log likelihood =   -525.5926                      Pseudo R2       =        0.1929
```

result	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf.	Interval]
specie1	.3243462	.0967533	-3.77	0.000	.1807562	.5820019
specie2	1.59926	.2992321	2.51	0.012	1.10829	2.307727
season2	.0172437	.0213975	-3.27	0.001	.0015149	.1962793
season3	.1058128	.0788357	-3.01	0.003	.0245669	.4557485
season4	.0035678	.0047689	-4.22	0.000	.0002598	.0489963
lbmtype2	1.862359	.4015545	2.88	0.004	1.22048	2.841817
month1	43.34193	54.96407	2.97	0.003	3.609582	520.4266
month3	9.814093	8.341498	2.69	0.007	1.855114	51.91941
month4	3.313104	2.638049	1.50	0.132	.6957742	15.77617
month7	.6825921	.4010297	-0.65	0.516	.2158101	2.15899
month9	2.111121	1.147392	1.37	0.169	.7275886	6.125483
month10	169.6389	226.3087	3.85	0.000	12.41566	2317.826
month11	124.0179	155.6977	3.84	0.000	10.5888	1452.519
month12	143.6009	178.2241	4.00	0.000	12.61028	1635.27
farmtype1	.5873637	.1511002	-2.07	0.039	.3547597	.9724783
farmtype3	2.628545	.8128913	3.13	0.002	1.433761	4.818967
gov2	4.008451	1.673319	3.33	0.001	1.768661	9.08466
gov4	7.710777	4.092376	3.85	0.000	2.724809	21.82028
gov6	5.22634	2.80723	3.08	0.002	1.823857	14.9763
gov8	14.27012	6.750188	5.62	0.000	5.646561	36.06377
gov9	3.006741	1.394978	2.37	0.018	1.211102	7.464681
gov10	4.514916	3.644023	1.87	0.062	.9281934	21.96145
gov12	6.171666	2.663631	4.22	0.000	2.648695	14.38046
gov14	17.72798	10.31066	4.94	0.000	5.670186	55.427
gov16	16.23212	8.667984	5.22	0.000	5.699436	46.22943
gov17	6.284768	2.579911	4.48	0.000	2.811054	14.05107
gov18	23.06621	19.40802	3.73	0.000	4.433752	120
gov19	6.480644	2.768243	4.38	0.000	2.805581	14.96972
gov20	29.00284	14.22297	6.87	0.000	11.09206	75.83488
gov22	9.884245	4.27969	5.29	0.000	4.230478	23.09392

```
3 . logistic result specie1 specie2 season1 season2 season3 season4 lbmtype1 lbmtype2 month1 month3 mont
> gov9 gov10 gov12 gov14 gov16 gov17 gov18 gov19 gov20 gov22

note: season1 dropped due to collinearity
note: lbmtype1 dropped due to collinearity

Logistic regression                               Number of obs   =          4134
                                                  LR chi2(29)     =        250.86
                                                  Prob > chi2     =        0.0000
Log likelihood =  -525.81714                      Pseudo R2       =        0.1926
```

result	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf.	Interval]
specie1	.3234822	.0964811	-3.78	0.000	.1802906	.5804005
specie2	1.59598	.2985316	2.50	0.012	1.106135	2.302749
season2	.0181305	.0224878	-3.23	0.001	.0015945	.2061491
season3	.1111808	.0824532	-2.96	0.003	.0259877	.4756554
season4	.0038815	.0051662	-4.17	0.000	.0002858	.0527146
lbmtype2	1.875633	.4037709	2.92	0.003	1.230009	2.860142
month1	44.69897	56.76673	2.99	0.003	3.709284	538.648
month3	10.2365	8.693347	2.74	0.006	1.937621	54.07971
month4	3.320671	2.644896	1.51	0.132	.6970257	15.81987
month9	2.267138	1.210447	1.53	0.125	.7961837	6.455691
month10	161.5247	215.273	3.82	0.000	11.85209	2201.319

month11	**120.5506**	**151.3811**	**3.82**	**0.000**	**10.28669**	**1412.744**
month12	**140.3101**	**174.2581**	**3.98**	**0.000**	**12.30098**	**1600.436**
farmtype1	**.5869451**	**.1509788**	**-2.07**	**0.038**	**.3545231**	**.9717408**
farmtype3	**2.473323**	**.7338981**	**3.05**	**0.002**	**1.382635**	**4.424397**
gov2	**4.016265**	**1.67383**	**3.34**	**0.001**	**1.774489**	**9.09016**
gov4	**7.667052**	**4.071639**	**3.84**	**0.000**	**2.707648**	**21.71024**
gov6	**5.267832**	**2.829813**	**3.09**	**0.002**	**1.838134**	**15.09686**
gov8	**14.40577**	**6.814751**	**5.64**	**0.000**	**5.699933**	**36.40855**
gov9	**3.053055**	**1.415518**	**2.41**	**0.016**	**1.230505**	**7.575052**
gov10	**4.557682**	**3.678732**	**1.88**	**0.060**	**.9369081**	**22.1713**
gov12	**6.346084**	**2.722363**	**4.31**	**0.000**	**2.737503**	**14.7115**
gov14	**17.94735**	**10.43439**	**4.97**	**0.000**	**5.742767**	**56.08925**
gov16	**16.54223**	**8.830632**	**5.26**	**0.000**	**5.810353**	**47.09616**
gov17	**6.456808**	**2.634657**	**4.57**	**0.000**	**2.901955**	**14.3663**
gov18	**23.36716**	**19.65975**	**3.75**	**0.000**	**4.492159**	**121.5505**
gov19	**6.476772**	**2.7654**	**4.38**	**0.000**	**2.804913**	**14.95539**
gov20	**29.2896**	**14.36616**	**6.89**	**0.000**	**11.19981**	**76.59782**
gov22	**10.0284**	**4.340541**	**5.33**	**0.000**	**4.293493**	**23.42356**

4 . logistic result specie1 specie2 season1 season2 season3 season4 lbmtype1 lbmtype2 month1 month3 mont
> v10 gov12 gov14 gov16 gov17 gov18 gov19 gov20 gov22

note: season1 dropped due to collinearity
note: lbmtype1 dropped due to collinearity

Logistic regression Number of obs = **4134**
  LR chi2(**28**) = **248.04**
  Prob > chi2 = **0.0000**
Log likelihood = **-527.22393** Pseudo R2 = **0.1904**

result	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf.	Interval]
specie1	**.3236043**	**.0965467**	**-3.78**	**0.000**	**.1803267**	**.5807224**
specie2	**1.592552**	**.2978923**	**2.49**	**0.013**	**1.103757**	**2.297808**
season2	**.0335301**	**.0366257**	**-3.11**	**0.002**	**.0039414**	**.2852481**
season3	**.2676091**	**.0914497**	**-3.86**	**0.000**	**.1369686**	**.5228544**
season4	**.0070583**	**.0084293**	**-4.15**	**0.000**	**.0006795**	**.0733214**
lbmtype2	**1.888516**	**.4067037**	**2.95**	**0.003**	**1.238252**	**2.880263**
month1	**24.00117**	**26.97684**	**2.83**	**0.005**	**2.651543**	**217.2532**
month3	**4.402744**	**2.426128**	**2.69**	**0.007**	**1.495098**	**12.96514**
month9	**2.216379**	**1.180319**	**1.49**	**0.135**	**.7804443**	**6.29428**
month10	**88.17626**	**105.5911**	**3.74**	**0.000**	**8.43408**	**921.8614**
month11	**65.86011**	**73.29227**	**3.76**	**0.000**	**7.436435**	**583.2841**
month12	**75.60755**	**82.84398**	**3.95**	**0.000**	**8.828659**	**647.4937**
farmtype1	**.5879253**	**.1512247**	**-2.07**	**0.039**	**.3551225**	**.9733436**
farmtype3	**2.502176**	**.7434299**	**3.09**	**0.002**	**1.397702**	**4.479414**
gov2	**3.946758**	**1.639615**	**3.30**	**0.001**	**1.748328**	**8.909598**
gov4	**7.887389**	**4.194455**	**3.88**	**0.000**	**2.781446**	**22.36639**
gov6	**5.361227**	**2.883884**	**3.12**	**0.002**	**1.868057**	**15.38644**
gov8	**13.64978**	**6.422567**	**5.55**	**0.000**	**5.427674**	**34.32713**
gov9	**3.071472**	**1.426214**	**2.42**	**0.016**	**1.236226**	**7.631242**
gov10	**4.35724**	**3.507894**	**1.83**	**0.068**	**.8993582**	**21.1101**
gov12	**6.389591**	**2.744158**	**4.32**	**0.000**	**2.753626**	**14.82659**
gov14	**18.7855**	**10.94711**	**5.03**	**0.000**	**5.995032**	**58.8646**
gov16	**15.52102**	**8.223496**	**5.18**	**0.000**	**5.494501**	**43.84419**
gov17	**6.397321**	**2.605814**	**4.56**	**0.000**	**2.879248**	**14.21403**
gov18	**24.40849**	**20.59845**	**3.79**	**0.000**	**4.668828**	**127.6069**
gov19	**6.494412**	**2.77342**	**4.38**	**0.000**	**2.812138**	**14.99834**
gov20	**30.53589**	**15.03036**	**6.95**	**0.000**	**11.63677**	**80.1288**
gov22	**10.31934**	**4.474579**	**5.38**	**0.000**	**4.411247**	**24.14027**

```
5 . logistic result specie1 specie2 season1 season2 season3 season4 lbmtype1 lbmtype2 month1 month3  mon
> v12 gov14 gov16 gov17 gov18 gov19 gov20 gov22

note: season1 dropped due to collinearity
note: lbmtype1 dropped due to collinearity

Logistic regression                               Number of obs   =          4134
                                                  LR chi2(27)     =        245.96
                                                  Prob > chi2     =        0.0000
Log likelihood = -528.26398                       Pseudo R2       =        0.1888
```

result	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf.	Interval]
specie1	.323268	.096383	-3.79	0.000	.1802085	.5798961
specie2	1.595475	.2978429	2.50	0.012	1.106593	2.300341
season2	.0298636	.0326615	-3.21	0.001	.003501	.2547367
season3	.2465511	.08273	-4.17	0.000	.1277283	.4759123
season4	.005569	.0066508	-4.35	0.000	.0005361	.0578538
lbmtype2	1.920548	.4134598	3.03	0.002	1.259438	2.928693
month1	23.2457	26.15872	2.80	0.005	2.561377	210.9657
month3	4.297398	2.360816	2.65	0.008	1.464165	12.61308
month10	101.4059	121.8893	3.84	0.000	9.614426	1069.554
month11	70.35114	78.64034	3.81	0.000	7.866396	629.1677
month12	79.36281	87.32008	3.98	0.000	9.184811	685.7469
farmtype1	.5854494	.1505901	-2.08	0.037	.3536244	.9692517
farmtype3	2.842387	.8021505	3.70	0.000	1.634803	4.941979
gov2	3.616453	1.486906	3.13	0.002	1.615515	8.095703
gov4	7.87342	4.190787	3.88	0.000	2.773921	22.34769
gov6	5.438159	2.928453	3.14	0.002	1.892689	15.62516
gov8	13.81234	6.50768	5.57	0.000	5.485594	34.77848
gov9	3.145435	1.461641	2.47	0.014	1.265141	7.820285
gov10	4.408061	3.550346	1.84	0.066	.9092256	21.37093
gov12	6.587366	2.826518	4.39	0.000	2.841037	15.27379
gov14	19.02853	11.10561	5.05	0.000	6.062046	59.72985
gov16	15.88474	8.422169	5.22	0.000	5.619126	44.90466
gov17	6.532963	2.659351	4.61	0.000	2.94181	14.50794
gov18	25.21341	21.28961	3.82	0.000	4.818338	131.9368
gov19	6.207039	2.64475	4.28	0.000	2.692756	14.30777
gov20	31.31974	15.439	6.99	0.000	11.91846	82.30312
gov22	11.22231	4.810541	5.64	0.000	4.844037	25.99904

```
6 . logistic result specie1 specie2 season1 season2 season3 season4 lbmtype1 lbmtype2 month1 month3  mon
> v14 gov16 gov17 gov18 gov19 gov20 gov22

note: season1 dropped due to collinearity
note: lbmtype1 dropped due to collinearity

Logistic regression                               Number of obs   =          4134
                                                  LR chi2(26)     =        243.44
                                                  Prob > chi2     =        0.0000
Log likelihood = -529.52322                       Pseudo R2       =        0.1869
```

result	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf.	Interval]
specie1	.322101	.0960384	-3.80	0.000	.1795542	.5778146
specie2	1.591544	.2970674	2.49	0.013	1.103923	2.294554
season2	.0296716	.0324241	-3.22	0.001	.0034848	.2526426
season3	.2458662	.0824891	-4.18	0.000	.1273847	.4745482
season4	.0055699	.0066421	-4.35	0.000	.000538	.0576636
lbmtype2	1.975793	.4216245	3.19	0.001	1.300467	3.001813
month1	23.48212	26.40736	2.81	0.005	2.591187	212.802
month3	4.252292	2.332493	2.64	0.008	1.451165	12.46032
month10	101.8266	122.2056	3.85	0.000	9.689586	1070.083
month11	71.44125	79.80511	3.82	0.000	8.000084	637.9748
month12	79.85859	87.79784	3.98	0.000	9.257563	688.8847
farmtype1	.5894818	.1516857	-2.05	0.040	.3559909	.9761171
farmtype3	2.767806	.7758902	3.63	0.000	1.597795	4.794576
gov2	3.24508	1.281865	2.98	0.003	1.496185	7.038262
gov4	6.909655	3.582865	3.73	0.000	2.500821	19.09106
gov6	4.682261	2.448634	2.95	0.003	1.680009	13.04968

gov8	**11.85714**	**5.370127**	**5.46**	**0.000**	**4.88055**	**28.80654**
gov9	**2.740215**	**1.228283**	**2.25**	**0.025**	**1.138254**	**6.59675**
gov12	**5.757389**	**2.366196**	**4.26**	**0.000**	**2.572736**	**12.88415**
gov14	**16.5879**	**9.460618**	**4.92**	**0.000**	**5.42405**	**50.72935**
gov16	**14.03075**	**7.246389**	**5.11**	**0.000**	**5.098768**	**38.60971**
gov17	**5.762908**	**2.244705**	**4.50**	**0.000**	**2.685907**	**12.36495**
gov18	**22.31544**	**18.65406**	**3.71**	**0.000**	**4.335748**	**114.8542**
gov19	**5.516852**	**2.260793**	**4.17**	**0.000**	**2.470989**	**12.31719**
gov20	**27.41738**	**13.09496**	**6.93**	**0.000**	**10.75175**	**69.91538**
gov22	**9.845656**	**4.048041**	**5.56**	**0.000**	**4.398182**	**22.04023**

7 . estat gof, group(10)

Logistic model for result, goodness-of-fit test

(Table collapsed on quantiles of estimated probabilities)

number of observations = **4134**
number of groups = **10**
Hosmer-Lemeshow chi2(**8**) = **11.77**
Prob > chi2 = **0.1620**

8 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	**4134**	**-651.245**	**-529.5232**	**27**	**1113.046**	**1283.875**

9 .