“stima modello esponenziale senza covariate”

The LIFEREG Procedure

Model Information	
Data Set	WORK.MIO
Dependent Variable	Log(durata)
Censoring Variable	des
Censoring Value(s)	0
Number of Observations	600
Noncensored Values	458
Right Censored Values	142
Left Censored Values	0
Interval Censored Values	0
Number of Parameters	1
Name of Distribution	Exponential
Log Likelihood	-937.9681037

Number of Observations Read	600
Number of Observations Used	600

Fit Statistics	
-2 Log Likelihood	1875.936
AIC (smaller is better)	1877.936
AICC (smaller is better)	1877.943
BIC (smaller is better)	1882.333

Fit Statistics (Unlogged Response)	
-2 Log Likelihood	5028.040
Exponential AIC (smaller is better)	5030.040
Exponential AICC (smaller is better)	5030.047
Exponential BIC (smaller is better)	5034.437

Algorithm converged.

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The LIFEREG Procedure

Analysis of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	4.4891	0.0467	4.3975	4.5807	9229.74	<.0001
Scale	0	1.0000	0.0000	1.0000	1.0000		
Weibull Scale	1	89.0437	4.1607	81.2510	97.5836		
Weibull Shape	0	1.0000	0.0000	1.0000	1.0000		

Lagrange Multiplier Statistics		
Parameter	Chi-Square	Pr > ChiSq
Scale	14.9636	0.0001

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
0.000		1.0000	0	0	0	600
2.000		.	.	.	1	599
2.000		0.9967	0.00333	0.00235	2	598
2.000	*	.	.	.	2	597
3.000		.	.	.	3	596
3.000		.	.	.	4	595
3.000		.	.	.	5	594
3.000		.	.	.	6	593
3.000		0.9883	0.0117	0.00439	7	592
3.000	*	.	.	.	7	591
3.000	*	.	.	.	7	590
4.000		.	.	.	8	589
4.000		.	.	.	9	588
4.000		.	.	.	10	587
4.000		.	.	.	11	586
4.000		.	.	.	12	585
4.000		.	.	.	13	584
4.000		.	.	.	14	583
4.000		.	.	.	15	582
4.000		0.9732	0.0268	0.00660	16	581
5.000		.	.	.	17	580
5.000		.	.	.	18	579
5.000		0.9682	0.0318	0.00717	19	578
5.000	*	.	.	.	19	577
6.000		.	.	.	20	576
6.000		.	.	.	21	575
6.000		.	.	.	22	574
6.000		.	.	.	23	573
6.000		.	.	.	24	572
6.000		.	.	.	25	571
6.000		.	.	.	26	570
6.000		.	.	.	27	569
6.000		.	.	.	28	568
6.000		0.9514	0.0486	0.00880	29	567

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
7.000		.	.	.	30	566
7.000		.	.	.	31	565
7.000		.	.	.	32	564
7.000		.	.	.	33	563
7.000		.	.	.	34	562
7.000		.	.	.	35	561
7.000		.	.	.	36	560
7.000		.	.	.	37	559
7.000		0.9363	0.0637	0.00999	38	558
7.000	*	.	.	.	38	557
8.000		.	.	.	39	556
8.000		.	.	.	40	555
8.000		.	.	.	41	554
8.000		.	.	.	42	553
8.000		.	.	.	43	552
8.000		0.9262	0.0738	0.0107	44	551
8.000	*	.	.	.	44	550
8.000	*	.	.	.	44	549
8.000	*	.	.	.	44	548
9.000		.	.	.	45	547
9.000		.	.	.	46	546
9.000		.	.	.	47	545
9.000		.	.	.	48	544
9.000		.	.	.	49	543
9.000		.	.	.	50	542
9.000		0.9144	0.0856	0.0115	51	541
9.000	*	.	.	.	51	540
10.000		.	.	.	52	539
10.000		.	.	.	53	538
10.000		.	.	.	54	537
10.000		.	.	.	55	536
10.000		.	.	.	56	535
10.000		.	.	.	57	534
10.000		.	.	.	58	533

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
10.000		0.9009	0.0991	0.0123	59	532
10.000	*	.	.	.	59	531
10.000	*	.	.	.	59	530
10.000	*	.	.	.	59	529
10.000	*	.	.	.	59	528
11.000		.	.	.	60	527
11.000		.	.	.	61	526
11.000		.	.	.	62	525
11.000		0.8940	0.1060	0.0126	63	524
12.000		.	.	.	64	523
12.000		.	.	.	65	522
12.000		.	.	.	66	521
12.000		.	.	.	67	520
12.000		.	.	.	68	519
12.000		.	.	.	69	518
12.000		.	.	.	70	517
12.000		.	.	.	71	516
12.000		.	.	.	72	515
12.000		.	.	.	73	514
12.000		.	.	.	74	513
12.000		.	.	.	75	512
12.000		.	.	.	76	511
12.000		.	.	.	77	510
12.000		.	.	.	78	509
12.000		.	.	.	79	508
12.000		.	.	.	80	507
12.000		.	.	.	81	506
12.000		.	.	.	82	505
12.000		.	.	.	83	504
12.000		.	.	.	84	503
12.000		.	.	.	85	502
12.000		.	.	.	86	501
12.000		0.8531	0.1469	0.0146	87	500
12.000	*	.	.	.	87	499

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
13.000		.	.	.	88	498
13.000		.	.	.	89	497
13.000		.	.	.	90	496
13.000		.	.	.	91	495
13.000		.	.	.	92	494
13.000		.	.	.	93	493
13.000		.	.	.	94	492
13.000		0.8394	0.1606	0.0151	95	491
13.000	*	.	.	.	95	490
13.000	*	.	.	.	95	489
13.000	*	.	.	.	95	488
14.000		.	.	.	96	487
14.000		.	.	.	97	486
14.000		.	.	.	98	485
14.000		.	.	.	99	484
14.000		.	.	.	100	483
14.000		.	.	.	101	482
14.000		.	.	.	102	481
14.000		.	.	.	103	480
14.000		.	.	.	104	479
14.000		0.8222	0.1778	0.0157	105	478
14.000	*	.	.	.	105	477
15.000		.	.	.	106	476
15.000		.	.	.	107	475
15.000		.	.	.	108	474
15.000		.	.	.	109	473
15.000		.	.	.	110	472
15.000		0.8119	0.1881	0.0161	111	471
16.000		.	.	.	112	470
16.000		.	.	.	113	469
16.000		.	.	.	114	468
16.000		0.8050	0.1950	0.0163	115	467
17.000		.	.	.	116	466
17.000		.	.	.	117	465

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
17.000		.	.	.	118	464
17.000		.	.	.	119	463
17.000		.	.	.	120	462
17.000		.	.	.	121	461
17.000		.	.	.	122	460
17.000		.	.	.	123	459
17.000		0.7895	0.2105	0.0168	124	458
18.000		.	.	.	125	457
18.000		.	.	.	126	456
18.000		.	.	.	127	455
18.000		.	.	.	128	454
18.000		.	.	.	129	453
18.000		0.7791	0.2209	0.0171	130	452
19.000		.	.	.	131	451
19.000		.	.	.	132	450
19.000		.	.	.	133	449
19.000		.	.	.	134	448
19.000		.	.	.	135	447
19.000		.	.	.	136	446
19.000		.	.	.	137	445
19.000		0.7653	0.2347	0.0175	138	444
19.000	*	.	.	.	138	443
20.000		.	.	.	139	442
20.000		.	.	.	140	441
20.000		.	.	.	141	440
20.000		.	.	.	142	439
20.000		.	.	.	143	438
20.000		.	.	.	144	437
20.000		.	.	.	145	436
20.000		.	.	.	146	435
20.000		0.7498	0.2502	0.0179	147	434
21.000		.	.	.	148	433
21.000		.	.	.	149	432
21.000		0.7446	0.2554	0.0180	150	431

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
22.000		.	.	.	151	430
22.000		.	.	.	152	429
22.000		.	.	.	153	428
22.000		0.7377	0.2623	0.0182	154	427
22.000	*	.	.	.	154	426
23.000		.	.	.	155	425
23.000		.	.	.	156	424
23.000		.	.	.	157	423
23.000		.	.	.	158	422
23.000		0.7290	0.2710	0.0184	159	421
23.000	*	.	.	.	159	420
24.000		.	.	.	160	419
24.000		.	.	.	161	418
24.000		.	.	.	162	417
24.000		.	.	.	163	416
24.000		.	.	.	164	415
24.000		.	.	.	165	414
24.000		.	.	.	166	413
24.000		.	.	.	167	412
24.000		.	.	.	168	411
24.000		.	.	.	169	410
24.000		.	.	.	170	409
24.000		.	.	.	171	408
24.000		.	.	.	172	407
24.000		.	.	.	173	406
24.000		.	.	.	174	405
24.000		.	.	.	175	404
24.000		.	.	.	176	403
24.000		.	.	.	177	402
24.000		.	.	.	178	401
24.000		.	.	.	179	400
24.000		.	.	.	180	399
24.000		0.6908	0.3092	0.0191	181	398
25.000		.	.	.	182	397

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
25.000		.	.	.	183	396
25.000		.	.	.	184	395
25.000		.	.	.	185	394
25.000		.	.	.	186	393
25.000		.	.	.	187	392
25.000		.	.	.	188	391
25.000		.	.	.	189	390
25.000		.	.	.	190	389
25.000		.	.	.	191	388
25.000		.	.	.	192	387
25.000		0.6700	0.3300	0.0195	193	386
25.000	*	.	.	.	193	385
25.000	*	.	.	.	193	384
25.000	*	.	.	.	193	383
26.000		.	.	.	194	382
26.000		.	.	.	195	381
26.000		.	.	.	196	380
26.000		.	.	.	197	379
26.000		.	.	.	198	378
26.000		.	.	.	199	377
26.000		.	.	.	200	376
26.000		.	.	.	201	375
26.000		0.6543	0.3457	0.0197	202	374
27.000		.	.	.	203	373
27.000		.	.	.	204	372
27.000		.	.	.	205	371
27.000		.	.	.	206	370
27.000		.	.	.	207	369
27.000		.	.	.	208	368
27.000		0.6420	0.3580	0.0199	209	367
27.000	*	.	.	.	209	366
27.000	*	.	.	.	209	365
28.000		.	.	.	210	364
28.000		.	.	.	211	363

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
28.000		.	.	.	212	362
28.000		.	.	.	213	361
28.000		.	.	.	214	360
28.000		.	.	.	215	359
28.000		.	.	.	216	358
28.000		.	.	.	217	357
28.000		.	.	.	218	356
28.000		0.6244	0.3756	0.0201	219	355
28.000	*	.	.	.	219	354
29.000		.	.	.	220	353
29.000		.	.	.	221	352
29.000		.	.	.	222	351
29.000		0.6174	0.3826	0.0202	223	350
29.000	*	.	.	.	223	349
30.000		.	.	.	224	348
30.000		.	.	.	225	347
30.000		.	.	.	226	346
30.000		.	.	.	227	345
30.000		0.6085	0.3915	0.0203	228	344
30.000	*	.	.	.	228	343
30.000	*	.	.	.	228	342
31.000		.	.	.	229	341
31.000		.	.	.	230	340
31.000		.	.	.	231	339
31.000		.	.	.	232	338
31.000		0.5996	0.4004	0.0204	233	337
31.000	*	.	.	.	233	336
32.000		.	.	.	234	335
32.000		.	.	.	235	334
32.000		.	.	.	236	333
32.000		.	.	.	237	332
32.000		.	.	.	238	331
32.000		.	.	.	239	330
32.000		.	.	.	240	329

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
32.000		0.5854	0.4146	0.0205	241	328
33.000		.	.	.	242	327
33.000		.	.	.	243	326
33.000		0.5800	0.4200	0.0205	244	325
34.000		.	.	.	245	324
34.000		.	.	.	246	323
34.000		.	.	.	247	322
34.000		0.5729	0.4271	0.0206	248	321
34.000	*	.	.	.	248	320
34.000	*	.	.	.	248	319
35.000		.	.	.	249	318
35.000		.	.	.	250	317
35.000		.	.	.	251	316
35.000		.	.	.	252	315
35.000		.	.	.	253	314
35.000		0.5621	0.4379	0.0207	254	313
35.000	*	.	.	.	254	312
36.000		.	.	.	255	311
36.000		.	.	.	256	310
36.000		.	.	.	257	309
36.000		.	.	.	258	308
36.000		.	.	.	259	307
36.000		.	.	.	260	306
36.000		.	.	.	261	305
36.000		.	.	.	262	304
36.000		.	.	.	263	303
36.000		0.5441	0.4559	0.0208	264	302
36.000	*	.	.	.	264	301
37.000		.	.	.	265	300
37.000		.	.	.	266	299
37.000		.	.	.	267	298
37.000		0.5368	0.4632	0.0208	268	297
38.000		.	.	.	269	296
38.000		.	.	.	270	295

“stima modello esponenziale senza covariate”

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		**Survival**	**Failure**	**Survival Standard Error**	**Number Failed**	**Number Left**
38.000		.	.	.	271	294
38.000		.	.	.	272	293
38.000		.	.	.	273	292
38.000		0.5260	0.4740	0.0209	274	291
38.000	*	.	.	.	274	290
38.000	*	.	.	.	274	289
39.000		.	.	.	275	288
39.000		.	.	.	276	287
39.000		.	.	.	277	286
39.000		.	.	.	278	285
39.000		0.5169	0.4831	0.0209	279	284
39.000	*	.	.	.	279	283
39.000	*	.	.	.	279	282
39.000	*	.	.	.	279	281
40.000		.	.	.	280	280
40.000		.	.	.	281	279
40.000		0.5114	0.4886	0.0209	282	278
40.000	*	.	.	.	282	277
41.000		.	.	.	283	276
41.000		.	.	.	284	275
41.000		0.5058	0.4942	0.0209	285	274
41.000	*	.	.	.	285	273
42.000		0.5040	0.4960	0.0209	286	272
43.000		.	.	.	287	271
43.000		0.5003	0.4997	0.0209	288	270
43.000	*	.	.	.	288	269
44.000		.	.	.	289	268
44.000		.	.	.	290	267
44.000		.	.	.	291	266
44.000		.	.	.	292	265
44.000		0.4910	0.5090	0.0210	293	264
44.000	*	.	.	.	293	263
45.000		0.4891	0.5109	0.0210	294	262
46.000		.	.	.	295	261

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
46.000		0.4854	0.5146	0.0210	296	260
47.000		.	.	.	297	259
47.000		0.4817	0.5183	0.0210	298	258
47.000	*	.	.	.	298	257
48.000		.	.	.	299	256
48.000		.	.	.	300	255
48.000		.	.	.	301	254
48.000		.	.	.	302	253
48.000		.	.	.	303	252
48.000		0.4704	0.5296	0.0210	304	251
48.000	*	.	.	.	304	250
49.000		0.4685	0.5315	0.0210	305	249
50.000		.	.	.	306	248
50.000		.	.	.	307	247
50.000		0.4629	0.5371	0.0210	308	246
50.000	*	.	.	.	308	245
51.000		.	.	.	309	244
51.000		.	.	.	310	243
51.000		0.4572	0.5428	0.0210	311	242
53.000		.	.	.	312	241
53.000		.	.	.	313	240
53.000		.	.	.	314	239
53.000		0.4497	0.5503	0.0210	315	238
54.000		.	.	.	316	237
54.000		.	.	.	317	236
54.000		.	.	.	318	235
54.000		.	.	.	319	234
54.000		.	.	.	320	233
54.000		.	.	.	321	232
54.000		.	.	.	322	231
54.000		.	.	.	323	230
54.000		.	.	.	324	229
54.000		0.4308	0.5692	0.0209	325	228
55.000		.	.	.	326	227

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		**Survival**	**Failure**	**Survival Standard Error**	**Number Failed**	**Number Left**
55.000		.	.	.	327	226
55.000		.	.	.	328	225
55.000		.	.	.	329	224
55.000		0.4213	0.5787	0.0209	330	223
56.000		0.4194	0.5806	0.0209	331	222
56.000	*	.	.	.	331	221
57.000		0.4175	0.5825	0.0209	332	220
58.000		0.4156	0.5844	0.0209	333	219
58.000	*	.	.	.	333	218
58.000	*	.	.	.	333	217
59.000		.	.	.	334	216
59.000		.	.	.	335	215
59.000		0.4099	0.5901	0.0208	336	214
59.000	*	.	.	.	336	213
60.000		.	.	.	337	212
60.000		.	.	.	338	211
60.000		.	.	.	339	210
60.000		.	.	.	340	209
60.000		.	.	.	341	208
60.000		.	.	.	342	207
60.000		.	.	.	343	206
60.000		.	.	.	344	205
60.000		0.3926	0.6074	0.0207	345	204
61.000		.	.	.	346	203
61.000		0.3887	0.6113	0.0207	347	202
62.000		.	.	.	348	201
62.000		.	.	.	349	200
62.000		0.3829	0.6171	0.0207	350	199
62.000	*	.	.	.	350	198
63.000		0.3810	0.6190	0.0207	351	197
64.000	*	.	.	.	351	196
66.000		.	.	.	352	195
66.000		.	.	.	353	194
66.000		0.3752	0.6248	0.0206	354	193

“stima modello esponenziale senza covariate”

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
66.000	*	.	.	.	354	192
66.000	*	.	.	.	354	191
67.000		.	.	.	355	190
67.000		0.3713	0.6287	0.0206	356	189
67.000	*	.	.	.	356	188
68.000		.	.	.	357	187
68.000		.	.	.	358	186
68.000		0.3653	0.6347	0.0205	359	185
68.000	*	.	.	.	359	184
69.000		0.3633	0.6367	0.0205	360	183
69.000	*	.	.	.	360	182
70.000		.	.	.	361	181
70.000		.	.	.	362	180
70.000		.	.	.	363	179
70.000		0.3554	0.6446	0.0205	364	178
70.000	*	.	.	.	364	177
71.000		0.3533	0.6467	0.0204	365	176
71.000	*	.	.	.	365	175
72.000		.	.	.	366	174
72.000		.	.	.	367	173
72.000		.	.	.	368	172
72.000		0.3453	0.6547	0.0204	369	171
72.000	*	.	.	.	369	170
73.000		0.3432	0.6568	0.0203	370	169
73.000	*	.	.	.	370	168
74.000		0.3412	0.6588	0.0203	371	167
74.000	*	.	.	.	371	166
75.000		.	.	.	372	165
75.000		.	.	.	373	164
75.000		0.3350	0.6650	0.0203	374	163
75.000	*	.	.	.	374	162
76.000		0.3330	0.6670	0.0202	375	161
77.000		0.3309	0.6691	0.0202	376	160
78.000		0.3288	0.6712	0.0202	377	159

“stima modello esponenziale senza covariate”

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
78.000	*	.	.	.	377	158
80.000		0.3267	0.6733	0.0202	378	157
81.000		.	.	.	379	156
81.000		.	.	.	380	155
81.000		0.3205	0.6795	0.0201	381	154
83.000		0.3184	0.6816	0.0201	382	153
86.000		0.3163	0.6837	0.0201	383	152
87.000		.	.	.	384	151
87.000		.	.	.	385	150
87.000		0.3101	0.6899	0.0200	386	149
87.000	*	.	.	.	386	148
89.000		0.3080	0.6920	0.0200	387	147
91.000	*	.	.	.	387	146
91.000	*	.	.	.	387	145
92.000		0.3059	0.6941	0.0199	388	144
96.000		.	.	.	389	143
96.000		.	.	.	390	142
96.000		.	.	.	391	141
96.000		0.2974	0.7026	0.0198	392	140
97.000		.	.	.	393	139
97.000		0.2931	0.7069	0.0198	394	138
98.000		.	.	.	395	137
98.000		0.2889	0.7111	0.0197	396	136
100.000		0.2868	0.7132	0.0197	397	135
101.000	*	.	.	.	397	134
101.000	*	.	.	.	397	133
102.000		0.2846	0.7154	0.0197	398	132
103.000	*	.	.	.	398	131
103.000	*	.	.	.	398	130
105.000		0.2824	0.7176	0.0196	399	129
105.000	*	.	.	.	399	128
106.000	*	.	.	.	399	127
106.000	*	.	.	.	399	126
106.000	*	.	.	.	399	125

“stima modello esponenziale senza covariate”

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
108.000		.	.	.	400	124
108.000		.	.	.	401	123
108.000		.	.	.	402	122
108.000		0.2734	0.7266	0.0195	403	121
109.000	*	.	.	.	403	120
110.000		0.2711	0.7289	0.0195	404	119
110.000	*	.	.	.	404	118
111.000		0.2688	0.7312	0.0195	405	117
112.000		.	.	.	406	116
112.000		0.2642	0.7358	0.0194	407	115
112.000	*	.	.	.	407	114
112.000	*	.	.	.	407	113
117.000		0.2619	0.7381	0.0194	408	112
117.000	*	.	.	.	408	111
118.000		0.2595	0.7405	0.0193	409	110
119.000		.	.	.	410	109
119.000		.	.	.	411	108
119.000		0.2524	0.7476	0.0192	412	107
119.000	*	.	.	.	412	106
120.000		0.2501	0.7499	0.0192	413	105
121.000		.	.	.	414	104
121.000		.	.	.	415	103
121.000		.	.	.	416	102
121.000		0.2405	0.7595	0.0190	417	101
121.000	*	.	.	.	417	100
122.000		0.2381	0.7619	0.0190	418	99
122.000	*	.	.	.	418	98
123.000		.	.	.	419	97
123.000		0.2333	0.7667	0.0189	420	96
123.000	*	.	.	.	420	95
124.000	*	.	.	.	420	94
124.000	*	.	.	.	420	93
127.000		.	.	.	421	92
127.000		0.2282	0.7718	0.0188	422	91

“stima modello esponenziale senza covariate”

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
127.000	*	.	.	.	422	90
127.000	*	.	.	.	422	89
129.000		.	.	.	423	88
129.000		0.2231	0.7769	0.0188	424	87
132.000	*	.	.	.	424	86
133.000		0.2205	0.7795	0.0187	425	85
134.000	*	.	.	.	425	84
135.000		0.2179	0.7821	0.0187	426	83
137.000		.	.	.	427	82
137.000		0.2126	0.7874	0.0186	428	81
138.000		0.2100	0.7900	0.0186	429	80
139.000	*	.	.	.	429	79
141.000		.	.	.	430	78
141.000		0.2047	0.7953	0.0185	431	77
142.000		.	.	.	432	76
142.000		0.1994	0.8006	0.0184	433	75
142.000	*	.	.	.	433	74
144.000		0.1967	0.8033	0.0183	434	73
145.000	*	.	.	.	434	72
145.000	*	.	.	.	434	71
146.000		0.1939	0.8061	0.0183	435	70
146.000	*	.	.	.	435	69
146.000	*	.	.	.	435	68
148.000		0.1911	0.8089	0.0182	436	67
150.000		0.1882	0.8118	0.0182	437	66
151.000		0.1854	0.8146	0.0181	438	65
154.000		0.1825	0.8175	0.0181	439	64
156.000	*	.	.	.	439	63
157.000	*	.	.	.	439	62
160.000		0.1796	0.8204	0.0180	440	61
162.000	*	.	.	.	440	60
163.000		0.1766	0.8234	0.0180	441	59
170.000		.	.	.	442	58
170.000		0.1706	0.8294	0.0178	443	57

“stima modello esponenziale senza covariate”

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
170.000	*	.	.	.	443	56
172.000	*	.	.	.	443	55
176.000		0.1675	0.8325	0.0178	444	54
178.000		0.1644	0.8356	0.0177	445	53
184.000		0.1613	0.8387	0.0177	446	52
185.000		0.1582	0.8418	0.0176	447	51
188.000	*	.	.	.	447	50
194.000		0.1550	0.8450	0.0175	448	49
195.000	*	.	.	.	448	48
195.000	*	.	.	.	448	47
196.000	*	.	.	.	448	46
197.000	*	.	.	.	448	45
199.000	*	.	.	.	448	44
200.000	*	.	.	.	448	43
202.000	*	.	.	.	448	42
207.000	*	.	.	.	448	41
209.000		0.1512	0.8488	0.0175	449	40
210.000		0.1475	0.8525	0.0175	450	39
215.000		0.1437	0.8563	0.0174	451	38
220.000		0.1399	0.8601	0.0174	452	37
220.000	*	.	.	.	452	36
220.000	*	.	.	.	452	35
224.000	*	.	.	.	452	34
226.000	*	.	.	.	452	33
232.000	*	.	.	.	452	32
241.000	*	.	.	.	452	31
247.000	*	.	.	.	452	30
253.000	*	.	.	.	452	29
256.000	*	.	.	.	452	28
259.000	*	.	.	.	452	27
272.000	*	.	.	.	452	26
275.000		0.1345	0.8655	0.0175	453	25
278.000	*	.	.	.	453	24
283.000	*	.	.	.	453	23

“stima modello esponenziale senza covariate”

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
288.000	*	.	.	.	453	22
289.000	*	.	.	.	453	21
291.000	*	.	.	.	453	20
293.000		0.1278	0.8722	0.0179	454	19
295.000	*	.	.	.	454	18
304.000	*	.	.	.	454	17
310.000	*	.	.	.	454	16
312.000		0.1198	0.8802	0.0185	455	15
312.000	*	.	.	.	455	14
326.000		0.1112	0.8888	0.0190	456	13
328.000	*	.	.	.	456	12
329.000	*	.	.	.	456	11
332.000		0.1011	0.8989	0.0198	457	10
340.000	*	.	.	.	457	9
350.000		0.0899	0.9101	0.0205	458	8
367.000	*	.	.	.	458	7
377.000	*	.	.	.	458	6
388.000	*	.	.	.	458	5
397.000	*	.	.	.	458	4
404.000	*	.	.	.	458	3
407.000	*	.	.	.	458	2
414.000	*	.	.	.	458	1
428.000	*	.	.	.	458	0

Note: The marked survival times are censored observations.

“stima modello esponenziale senza covariate”

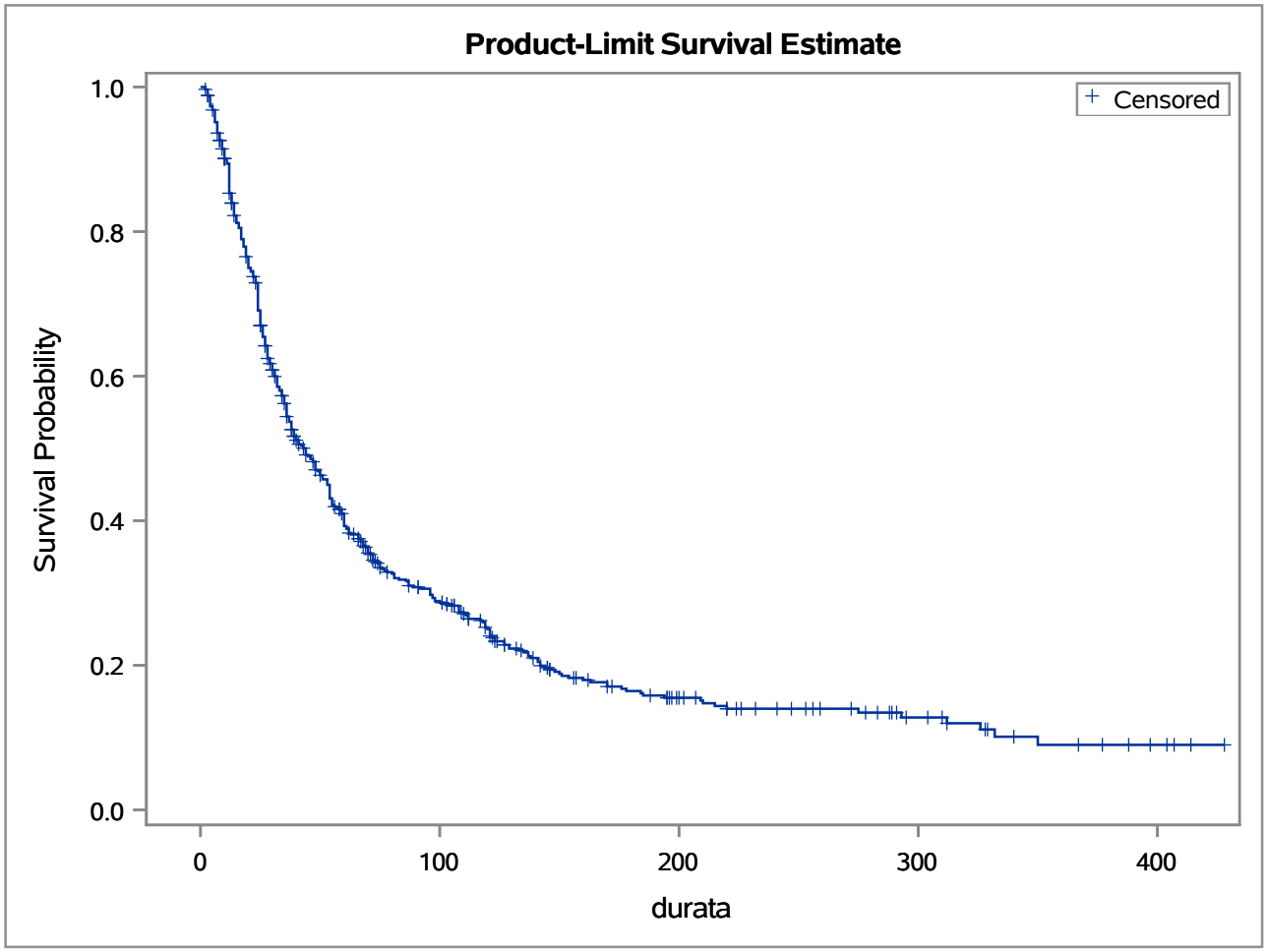
The LIFETEST Procedure

Summary Statistics for Time Variable durata

Quartile Estimates				
		95% Confidence Interval		
Percent	Point Estimate	Transform	[Lower	Upper)
75	121.000	LOGLOG	100.000	138.000
50	44.000	LOGLOG	37.000	51.000
25	20.000	LOGLOG	18.000	24.000

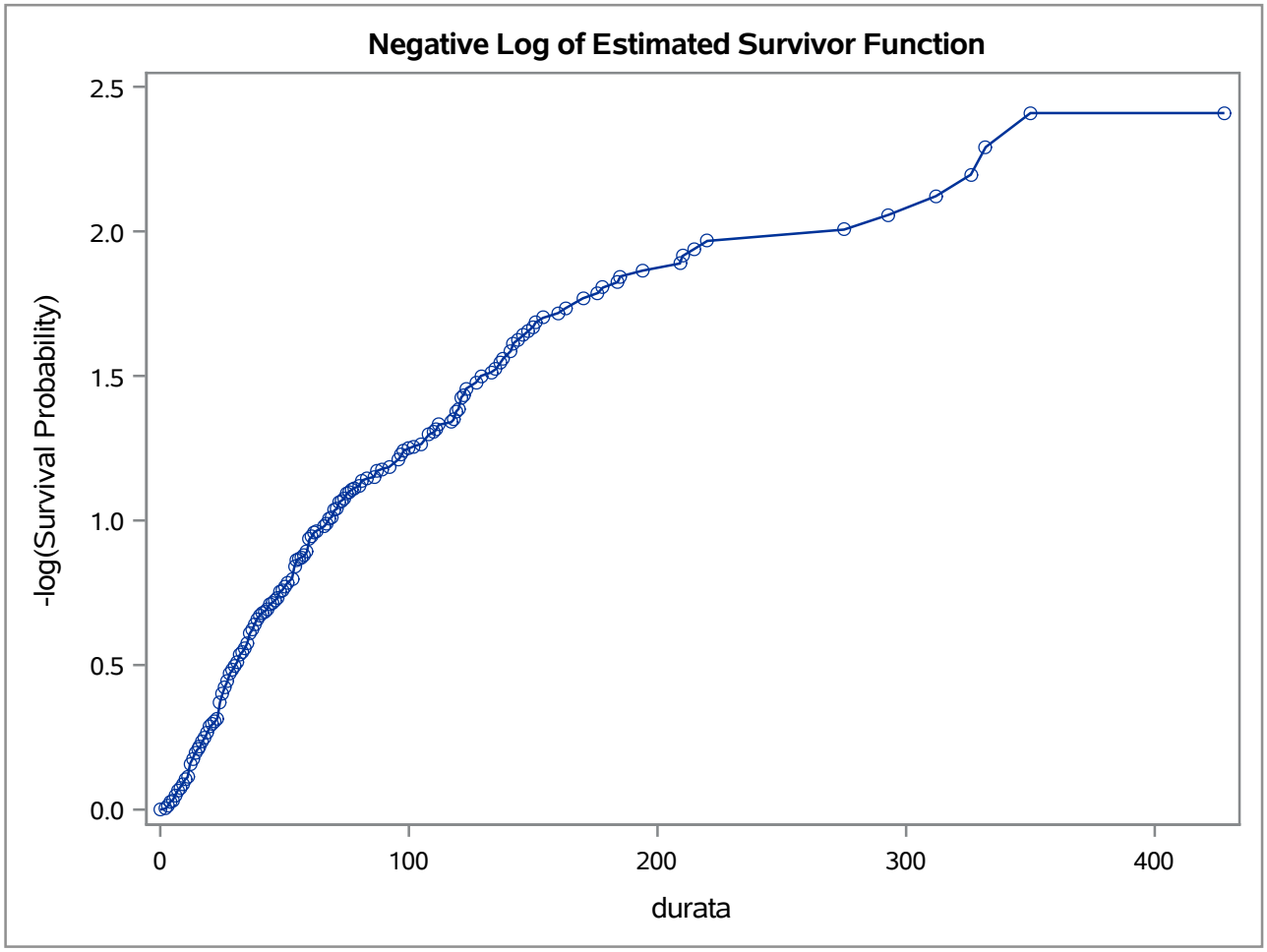
Mean	Standard Error
93.148	4.984

Note: The mean survival time and its standard error were underestimated because the largest observation was censored and the estimation was restricted to the largest event time.



“stima modello esponenziale senza covariate”

The LIFETEST Procedure



Summary of the Number of Censored and Uncensored Values			
Total	Failed	Censored	Percent Censored
600	458	142	23.67

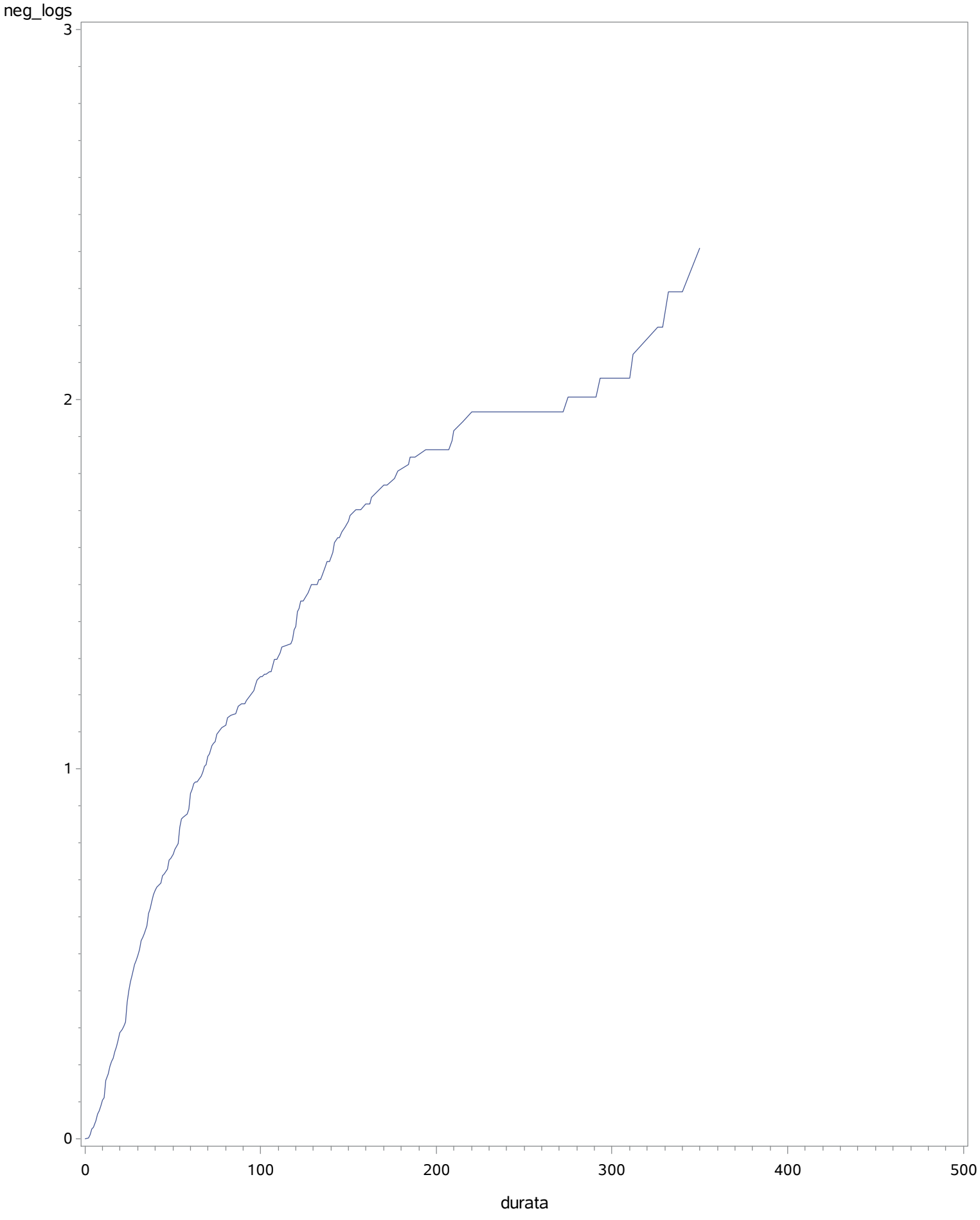
“stima modello esponenziale senza covariate”

Obs	durata	_CENSOR_	SURVIVAL	SDF_LCL	SDF_UCL
1	0	.	1.00000	1.00000	1.00000
2	2	0	0.99667	0.98674	0.99917
3	2	1	0.99667	.	.
4	3	0	0.98832	0.97566	0.99441
5	3	1	0.98832	.	.
6	3	1	0.98832	.	.
7	4	0	0.97324	0.95669	0.98352
8	5	0	0.96822	0.95062	0.97961
9	5	1	0.96822	.	.
10	6	0	0.95144	0.93087	0.96600

“stima modello esponenziale senza covariate”

Obs	durata	_CENSOR_	SURVIVAL	SDF_LCL	SDF_UCL	s	neg_logs
1	0	.	1.00000	1.00000	1.00000	1.00000	0.000000
2	2	0	0.99667	0.98674	0.99917	0.99667	0.003339
3	2	1	0.99667	.	.	0.99667	0.003339
4	3	0	0.98832	0.97566	0.99441	0.98832	0.011749
5	3	1	0.98832	.	.	0.98832	0.011749
6	3	1	0.98832	.	.	0.98832	0.011749
7	4	0	0.97324	0.95669	0.98352	0.97324	0.027121
8	5	0	0.96822	0.95062	0.97961	0.96822	0.032298
9	5	1	0.96822	.	.	0.96822	0.032298
10	6	0	0.95144	0.93087	0.96600	0.95144	0.049781

test grafico esponenziale: -ls vs t - retta che parte da origine?



“stima modello esponenziale con covariate”

The LIFEREG Procedure

Model Information	
Data Set	WORK.MIO
Dependent Variable	Log(durata)
Censoring Variable	des
Censoring Value(s)	0
Number of Observations	600
Noncensored Values	458
Right Censored Values	142
Left Censored Values	0
Interval Censored Values	0
Number of Parameters	7
Name of Distribution	Exponential
Log Likelihood	-889.9352705

Number of Observations Read	600
Number of Observations Used	600

Fit Statistics	
-2 Log Likelihood	1779.871
AIC (smaller is better)	1793.871
AICC (smaller is better)	1794.060
BIC (smaller is better)	1824.649

Fit Statistics (Unlogged Response)	
-2 Log Likelihood	4931.975
Exponential AIC (smaller is better)	4945.975
Exponential AICC (smaller is better)	4946.164
Exponential BIC (smaller is better)	4976.753

Algorithm converged.

“stima modello esponenziale con covariate”

The LIFEREG Procedure

Type III Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
EDU	1	9.7918	0.0018
coho2	1	28.6733	<.0001
coho3	1	26.5493	<.0001
lfx	1	11.4923	0.0007
pnoj	1	1.8245	0.1768
PRES	1	25.6456	<.0001

Analysis of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	4.4894	0.2795	3.9416	5.0373	258.00	<.0001
EDU	1	-0.0773	0.0247	-0.1257	-0.0289	9.79	0.0018
coho2	1	-0.6080	0.1136	-0.8306	-0.3855	28.67	<.0001
coho3	1	-0.6108	0.1185	-0.8431	-0.3785	26.55	<.0001
lfx	1	0.0032	0.0009	0.0013	0.0050	11.49	0.0007
pnoj	1	-0.0596	0.0442	-0.1462	0.0269	1.82	0.1768
PRES	1	0.0280	0.0055	0.0172	0.0388	25.65	<.0001
Scale	0	1.0000	0.0000	1.0000	1.0000		
Weibull Shape	0	1.0000	0.0000	1.0000	1.0000		

Lagrange Multiplier Statistics		
Parameter	Chi-Square	Pr > ChiSq
Scale	5.6986	0.0170

«esame grafico su parametrizzazione weibull»

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
0.000		1.0000	0	0	0	600
2.000		.	.	.	1	599
2.000		0.9967	0.00333	0.00235	2	598
2.000	*	.	.	.	2	597
3.000		.	.	.	3	596
3.000		.	.	.	4	595
3.000		.	.	.	5	594
3.000		.	.	.	6	593
3.000		0.9883	0.0117	0.00439	7	592
3.000	*	.	.	.	7	591
3.000	*	.	.	.	7	590
4.000		.	.	.	8	589
4.000		.	.	.	9	588
4.000		.	.	.	10	587
4.000		.	.	.	11	586
4.000		.	.	.	12	585
4.000		.	.	.	13	584
4.000		.	.	.	14	583
4.000		.	.	.	15	582
4.000		0.9732	0.0268	0.00660	16	581
5.000		.	.	.	17	580
5.000		.	.	.	18	579
5.000		0.9682	0.0318	0.00717	19	578
5.000	*	.	.	.	19	577
6.000		.	.	.	20	576
6.000		.	.	.	21	575
6.000		.	.	.	22	574
6.000		.	.	.	23	573
6.000		.	.	.	24	572
6.000		.	.	.	25	571
6.000		.	.	.	26	570
6.000		.	.	.	27	569
6.000		.	.	.	28	568
6.000		0.9514	0.0486	0.00880	29	567

«esame grafico su parametrizzazione weibull»

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
7.000		.	.	.	30	566
7.000		.	.	.	31	565
7.000		.	.	.	32	564
7.000		.	.	.	33	563
7.000		.	.	.	34	562
7.000		.	.	.	35	561
7.000		.	.	.	36	560
7.000		.	.	.	37	559
7.000		0.9363	0.0637	0.00999	38	558
7.000	*	.	.	.	38	557
8.000		.	.	.	39	556
8.000		.	.	.	40	555
8.000		.	.	.	41	554
8.000		.	.	.	42	553
8.000		.	.	.	43	552
8.000		0.9262	0.0738	0.0107	44	551
8.000	*	.	.	.	44	550
8.000	*	.	.	.	44	549
8.000	*	.	.	.	44	548
9.000		.	.	.	45	547
9.000		.	.	.	46	546
9.000		.	.	.	47	545
9.000		.	.	.	48	544
9.000		.	.	.	49	543
9.000		.	.	.	50	542
9.000		0.9144	0.0856	0.0115	51	541
9.000	*	.	.	.	51	540
10.000		.	.	.	52	539
10.000		.	.	.	53	538
10.000		.	.	.	54	537
10.000		.	.	.	55	536
10.000		.	.	.	56	535
10.000		.	.	.	57	534
10.000		.	.	.	58	533

«esame grafico su parametrizzazione weibull»

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
10.000		0.9009	0.0991	0.0123	59	532
10.000	*	.	.	.	59	531
10.000	*	.	.	.	59	530
10.000	*	.	.	.	59	529
10.000	*	.	.	.	59	528
11.000		.	.	.	60	527
11.000		.	.	.	61	526
11.000		.	.	.	62	525
11.000		0.8940	0.1060	0.0126	63	524
12.000		.	.	.	64	523
12.000		.	.	.	65	522
12.000		.	.	.	66	521
12.000		.	.	.	67	520
12.000		.	.	.	68	519
12.000		.	.	.	69	518
12.000		.	.	.	70	517
12.000		.	.	.	71	516
12.000		.	.	.	72	515
12.000		.	.	.	73	514
12.000		.	.	.	74	513
12.000		.	.	.	75	512
12.000		.	.	.	76	511
12.000		.	.	.	77	510
12.000		.	.	.	78	509
12.000		.	.	.	79	508
12.000		.	.	.	80	507
12.000		.	.	.	81	506
12.000		.	.	.	82	505
12.000		.	.	.	83	504
12.000		.	.	.	84	503
12.000		.	.	.	85	502
12.000		.	.	.	86	501
12.000		0.8531	0.1469	0.0146	87	500
12.000	*	.	.	.	87	499

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
13.000		.	.	.	88	498
13.000		.	.	.	89	497
13.000		.	.	.	90	496
13.000		.	.	.	91	495
13.000		.	.	.	92	494
13.000		.	.	.	93	493
13.000		.	.	.	94	492
13.000		0.8394	0.1606	0.0151	95	491
13.000	*	.	.	.	95	490
13.000	*	.	.	.	95	489
13.000	*	.	.	.	95	488
14.000		.	.	.	96	487
14.000		.	.	.	97	486
14.000		.	.	.	98	485
14.000		.	.	.	99	484
14.000		.	.	.	100	483
14.000		.	.	.	101	482
14.000		.	.	.	102	481
14.000		.	.	.	103	480
14.000		.	.	.	104	479
14.000		0.8222	0.1778	0.0157	105	478
14.000	*	.	.	.	105	477
15.000		.	.	.	106	476
15.000		.	.	.	107	475
15.000		.	.	.	108	474
15.000		.	.	.	109	473
15.000		.	.	.	110	472
15.000		0.8119	0.1881	0.0161	111	471
16.000		.	.	.	112	470
16.000		.	.	.	113	469
16.000		.	.	.	114	468
16.000		0.8050	0.1950	0.0163	115	467
17.000		.	.	.	116	466
17.000		.	.	.	117	465

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
17.000		.	.	.	118	464
17.000		.	.	.	119	463
17.000		.	.	.	120	462
17.000		.	.	.	121	461
17.000		.	.	.	122	460
17.000		.	.	.	123	459
17.000		0.7895	0.2105	0.0168	124	458
18.000		.	.	.	125	457
18.000		.	.	.	126	456
18.000		.	.	.	127	455
18.000		.	.	.	128	454
18.000		.	.	.	129	453
18.000		0.7791	0.2209	0.0171	130	452
19.000		.	.	.	131	451
19.000		.	.	.	132	450
19.000		.	.	.	133	449
19.000		.	.	.	134	448
19.000		.	.	.	135	447
19.000		.	.	.	136	446
19.000		.	.	.	137	445
19.000		0.7653	0.2347	0.0175	138	444
19.000	*	.	.	.	138	443
20.000		.	.	.	139	442
20.000		.	.	.	140	441
20.000		.	.	.	141	440
20.000		.	.	.	142	439
20.000		.	.	.	143	438
20.000		.	.	.	144	437
20.000		.	.	.	145	436
20.000		.	.	.	146	435
20.000		0.7498	0.2502	0.0179	147	434
21.000		.	.	.	148	433
21.000		.	.	.	149	432
21.000		0.7446	0.2554	0.0180	150	431

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
22.000		.	.	.	151	430
22.000		.	.	.	152	429
22.000		.	.	.	153	428
22.000		0.7377	0.2623	0.0182	154	427
22.000	*	.	.	.	154	426
23.000		.	.	.	155	425
23.000		.	.	.	156	424
23.000		.	.	.	157	423
23.000		.	.	.	158	422
23.000		0.7290	0.2710	0.0184	159	421
23.000	*	.	.	.	159	420
24.000		.	.	.	160	419
24.000		.	.	.	161	418
24.000		.	.	.	162	417
24.000		.	.	.	163	416
24.000		.	.	.	164	415
24.000		.	.	.	165	414
24.000		.	.	.	166	413
24.000		.	.	.	167	412
24.000		.	.	.	168	411
24.000		.	.	.	169	410
24.000		.	.	.	170	409
24.000		.	.	.	171	408
24.000		.	.	.	172	407
24.000		.	.	.	173	406
24.000		.	.	.	174	405
24.000		.	.	.	175	404
24.000		.	.	.	176	403
24.000		.	.	.	177	402
24.000		.	.	.	178	401
24.000		.	.	.	179	400
24.000		.	.	.	180	399
24.000		0.6908	0.3092	0.0191	181	398
25.000		.	.	.	182	397

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
25.000		.	.	.	183	396
25.000		.	.	.	184	395
25.000		.	.	.	185	394
25.000		.	.	.	186	393
25.000		.	.	.	187	392
25.000		.	.	.	188	391
25.000		.	.	.	189	390
25.000		.	.	.	190	389
25.000		.	.	.	191	388
25.000		.	.	.	192	387
25.000		0.6700	0.3300	0.0195	193	386
25.000	*	.	.	.	193	385
25.000	*	.	.	.	193	384
25.000	*	.	.	.	193	383
26.000		.	.	.	194	382
26.000		.	.	.	195	381
26.000		.	.	.	196	380
26.000		.	.	.	197	379
26.000		.	.	.	198	378
26.000		.	.	.	199	377
26.000		.	.	.	200	376
26.000		.	.	.	201	375
26.000		0.6543	0.3457	0.0197	202	374
27.000		.	.	.	203	373
27.000		.	.	.	204	372
27.000		.	.	.	205	371
27.000		.	.	.	206	370
27.000		.	.	.	207	369
27.000		.	.	.	208	368
27.000		0.6420	0.3580	0.0199	209	367
27.000	*	.	.	.	209	366
27.000	*	.	.	.	209	365
28.000		.	.	.	210	364
28.000		.	.	.	211	363

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
28.000		.	.	.	212	362
28.000		.	.	.	213	361
28.000		.	.	.	214	360
28.000		.	.	.	215	359
28.000		.	.	.	216	358
28.000		.	.	.	217	357
28.000		.	.	.	218	356
28.000		0.6244	0.3756	0.0201	219	355
28.000	*	.	.	.	219	354
29.000		.	.	.	220	353
29.000		.	.	.	221	352
29.000		.	.	.	222	351
29.000		0.6174	0.3826	0.0202	223	350
29.000	*	.	.	.	223	349
30.000		.	.	.	224	348
30.000		.	.	.	225	347
30.000		.	.	.	226	346
30.000		.	.	.	227	345
30.000		0.6085	0.3915	0.0203	228	344
30.000	*	.	.	.	228	343
30.000	*	.	.	.	228	342
31.000		.	.	.	229	341
31.000		.	.	.	230	340
31.000		.	.	.	231	339
31.000		.	.	.	232	338
31.000		0.5996	0.4004	0.0204	233	337
31.000	*	.	.	.	233	336
32.000		.	.	.	234	335
32.000		.	.	.	235	334
32.000		.	.	.	236	333
32.000		.	.	.	237	332
32.000		.	.	.	238	331
32.000		.	.	.	239	330
32.000		.	.	.	240	329

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
32.000		0.5854	0.4146	0.0205	241	328
33.000		.	.	.	242	327
33.000		.	.	.	243	326
33.000		0.5800	0.4200	0.0205	244	325
34.000		.	.	.	245	324
34.000		.	.	.	246	323
34.000		.	.	.	247	322
34.000		0.5729	0.4271	0.0206	248	321
34.000	*	.	.	.	248	320
34.000	*	.	.	.	248	319
35.000		.	.	.	249	318
35.000		.	.	.	250	317
35.000		.	.	.	251	316
35.000		.	.	.	252	315
35.000		.	.	.	253	314
35.000		0.5621	0.4379	0.0207	254	313
35.000	*	.	.	.	254	312
36.000		.	.	.	255	311
36.000		.	.	.	256	310
36.000		.	.	.	257	309
36.000		.	.	.	258	308
36.000		.	.	.	259	307
36.000		.	.	.	260	306
36.000		.	.	.	261	305
36.000		.	.	.	262	304
36.000		.	.	.	263	303
36.000		0.5441	0.4559	0.0208	264	302
36.000	*	.	.	.	264	301
37.000		.	.	.	265	300
37.000		.	.	.	266	299
37.000		.	.	.	267	298
37.000		0.5368	0.4632	0.0208	268	297
38.000		.	.	.	269	296
38.000		.	.	.	270	295

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
38.000		.	.	.	271	294
38.000		.	.	.	272	293
38.000		.	.	.	273	292
38.000		0.5260	0.4740	0.0209	274	291
38.000	*	.	.	.	274	290
38.000	*	.	.	.	274	289
39.000		.	.	.	275	288
39.000		.	.	.	276	287
39.000		.	.	.	277	286
39.000		.	.	.	278	285
39.000		0.5169	0.4831	0.0209	279	284
39.000	*	.	.	.	279	283
39.000	*	.	.	.	279	282
39.000	*	.	.	.	279	281
40.000		.	.	.	280	280
40.000		.	.	.	281	279
40.000		0.5114	0.4886	0.0209	282	278
40.000	*	.	.	.	282	277
41.000		.	.	.	283	276
41.000		.	.	.	284	275
41.000		0.5058	0.4942	0.0209	285	274
41.000	*	.	.	.	285	273
42.000		0.5040	0.4960	0.0209	286	272
43.000		.	.	.	287	271
43.000		0.5003	0.4997	0.0209	288	270
43.000	*	.	.	.	288	269
44.000		.	.	.	289	268
44.000		.	.	.	290	267
44.000		.	.	.	291	266
44.000		.	.	.	292	265
44.000		0.4910	0.5090	0.0210	293	264
44.000	*	.	.	.	293	263
45.000		0.4891	0.5109	0.0210	294	262
46.000		.	.	.	295	261

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
46.000		0.4854	0.5146	0.0210	296	260
47.000		.	.	.	297	259
47.000		0.4817	0.5183	0.0210	298	258
47.000	*	.	.	.	298	257
48.000		.	.	.	299	256
48.000		.	.	.	300	255
48.000		.	.	.	301	254
48.000		.	.	.	302	253
48.000		.	.	.	303	252
48.000		0.4704	0.5296	0.0210	304	251
48.000	*	.	.	.	304	250
49.000		0.4685	0.5315	0.0210	305	249
50.000		.	.	.	306	248
50.000		.	.	.	307	247
50.000		0.4629	0.5371	0.0210	308	246
50.000	*	.	.	.	308	245
51.000		.	.	.	309	244
51.000		.	.	.	310	243
51.000		0.4572	0.5428	0.0210	311	242
53.000		.	.	.	312	241
53.000		.	.	.	313	240
53.000		.	.	.	314	239
53.000		0.4497	0.5503	0.0210	315	238
54.000		.	.	.	316	237
54.000		.	.	.	317	236
54.000		.	.	.	318	235
54.000		.	.	.	319	234
54.000		.	.	.	320	233
54.000		.	.	.	321	232
54.000		.	.	.	322	231
54.000		.	.	.	323	230
54.000		.	.	.	324	229
54.000		0.4308	0.5692	0.0209	325	228
55.000		.	.	.	326	227

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
55.000		.	.	.	327	226
55.000		.	.	.	328	225
55.000		.	.	.	329	224
55.000		0.4213	0.5787	0.0209	330	223
56.000		0.4194	0.5806	0.0209	331	222
56.000	*	.	.	.	331	221
57.000		0.4175	0.5825	0.0209	332	220
58.000		0.4156	0.5844	0.0209	333	219
58.000	*	.	.	.	333	218
58.000	*	.	.	.	333	217
59.000		.	.	.	334	216
59.000		.	.	.	335	215
59.000		0.4099	0.5901	0.0208	336	214
59.000	*	.	.	.	336	213
60.000		.	.	.	337	212
60.000		.	.	.	338	211
60.000		.	.	.	339	210
60.000		.	.	.	340	209
60.000		.	.	.	341	208
60.000		.	.	.	342	207
60.000		.	.	.	343	206
60.000		.	.	.	344	205
60.000		0.3926	0.6074	0.0207	345	204
61.000		.	.	.	346	203
61.000		0.3887	0.6113	0.0207	347	202
62.000		.	.	.	348	201
62.000		.	.	.	349	200
62.000		0.3829	0.6171	0.0207	350	199
62.000	*	.	.	.	350	198
63.000		0.3810	0.6190	0.0207	351	197
64.000	*	.	.	.	351	196
66.000		.	.	.	352	195
66.000		.	.	.	353	194
66.000		0.3752	0.6248	0.0206	354	193

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
66.000	*	.	.	.	354	192
66.000	*	.	.	.	354	191
67.000		.	.	.	355	190
67.000		0.3713	0.6287	0.0206	356	189
67.000	*	.	.	.	356	188
68.000		.	.	.	357	187
68.000		.	.	.	358	186
68.000		0.3653	0.6347	0.0205	359	185
68.000	*	.	.	.	359	184
69.000		0.3633	0.6367	0.0205	360	183
69.000	*	.	.	.	360	182
70.000		.	.	.	361	181
70.000		.	.	.	362	180
70.000		.	.	.	363	179
70.000		0.3554	0.6446	0.0205	364	178
70.000	*	.	.	.	364	177
71.000		0.3533	0.6467	0.0204	365	176
71.000	*	.	.	.	365	175
72.000		.	.	.	366	174
72.000		.	.	.	367	173
72.000		.	.	.	368	172
72.000		0.3453	0.6547	0.0204	369	171
72.000	*	.	.	.	369	170
73.000		0.3432	0.6568	0.0203	370	169
73.000	*	.	.	.	370	168
74.000		0.3412	0.6588	0.0203	371	167
74.000	*	.	.	.	371	166
75.000		.	.	.	372	165
75.000		.	.	.	373	164
75.000		0.3350	0.6650	0.0203	374	163
75.000	*	.	.	.	374	162
76.000		0.3330	0.6670	0.0202	375	161
77.000		0.3309	0.6691	0.0202	376	160
78.000		0.3288	0.6712	0.0202	377	159

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
78.000	*	.	.	.	377	158
80.000		0.3267	0.6733	0.0202	378	157
81.000		.	.	.	379	156
81.000		.	.	.	380	155
81.000		0.3205	0.6795	0.0201	381	154
83.000		0.3184	0.6816	0.0201	382	153
86.000		0.3163	0.6837	0.0201	383	152
87.000		.	.	.	384	151
87.000		.	.	.	385	150
87.000		0.3101	0.6899	0.0200	386	149
87.000	*	.	.	.	386	148
89.000		0.3080	0.6920	0.0200	387	147
91.000	*	.	.	.	387	146
91.000	*	.	.	.	387	145
92.000		0.3059	0.6941	0.0199	388	144
96.000		.	.	.	389	143
96.000		.	.	.	390	142
96.000		.	.	.	391	141
96.000		0.2974	0.7026	0.0198	392	140
97.000		.	.	.	393	139
97.000		0.2931	0.7069	0.0198	394	138
98.000		.	.	.	395	137
98.000		0.2889	0.7111	0.0197	396	136
100.000		0.2868	0.7132	0.0197	397	135
101.000	*	.	.	.	397	134
101.000	*	.	.	.	397	133
102.000		0.2846	0.7154	0.0197	398	132
103.000	*	.	.	.	398	131
103.000	*	.	.	.	398	130
105.000		0.2824	0.7176	0.0196	399	129
105.000	*	.	.	.	399	128
106.000	*	.	.	.	399	127
106.000	*	.	.	.	399	126
106.000	*	.	.	.	399	125

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
108.000		.	.	.	400	124
108.000		.	.	.	401	123
108.000		.	.	.	402	122
108.000		0.2734	0.7266	0.0195	403	121
109.000	*	.	.	.	403	120
110.000		0.2711	0.7289	0.0195	404	119
110.000	*	.	.	.	404	118
111.000		0.2688	0.7312	0.0195	405	117
112.000		.	.	.	406	116
112.000		0.2642	0.7358	0.0194	407	115
112.000	*	.	.	.	407	114
112.000	*	.	.	.	407	113
117.000		0.2619	0.7381	0.0194	408	112
117.000	*	.	.	.	408	111
118.000		0.2595	0.7405	0.0193	409	110
119.000		.	.	.	410	109
119.000		.	.	.	411	108
119.000		0.2524	0.7476	0.0192	412	107
119.000	*	.	.	.	412	106
120.000		0.2501	0.7499	0.0192	413	105
121.000		.	.	.	414	104
121.000		.	.	.	415	103
121.000		.	.	.	416	102
121.000		0.2405	0.7595	0.0190	417	101
121.000	*	.	.	.	417	100
122.000		0.2381	0.7619	0.0190	418	99
122.000	*	.	.	.	418	98
123.000		.	.	.	419	97
123.000		0.2333	0.7667	0.0189	420	96
123.000	*	.	.	.	420	95
124.000	*	.	.	.	420	94
124.000	*	.	.	.	420	93
127.000		.	.	.	421	92
127.000		0.2282	0.7718	0.0188	422	91

«esame grafico su parametrizzazione weibull»

The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
127.000	*	.	.	.	422	90
127.000	*	.	.	.	422	89
129.000		.	.	.	423	88
129.000		0.2231	0.7769	0.0188	424	87
132.000	*	.	.	.	424	86
133.000		0.2205	0.7795	0.0187	425	85
134.000	*	.	.	.	425	84
135.000		0.2179	0.7821	0.0187	426	83
137.000		.	.	.	427	82
137.000		0.2126	0.7874	0.0186	428	81
138.000		0.2100	0.7900	0.0186	429	80
139.000	*	.	.	.	429	79
141.000		.	.	.	430	78
141.000		0.2047	0.7953	0.0185	431	77
142.000		.	.	.	432	76
142.000		0.1994	0.8006	0.0184	433	75
142.000	*	.	.	.	433	74
144.000		0.1967	0.8033	0.0183	434	73
145.000	*	.	.	.	434	72
145.000	*	.	.	.	434	71
146.000		0.1939	0.8061	0.0183	435	70
146.000	*	.	.	.	435	69
146.000	*	.	.	.	435	68
148.000		0.1911	0.8089	0.0182	436	67
150.000		0.1882	0.8118	0.0182	437	66
151.000		0.1854	0.8146	0.0181	438	65
154.000		0.1825	0.8175	0.0181	439	64
156.000	*	.	.	.	439	63
157.000	*	.	.	.	439	62
160.000		0.1796	0.8204	0.0180	440	61
162.000	*	.	.	.	440	60
163.000		0.1766	0.8234	0.0180	441	59
170.000		.	.	.	442	58
170.000		0.1706	0.8294	0.0178	443	57

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		Survival	Failure	Survival Standard Error	Number Failed	Number Left
170.000	*	.	.	.	443	56
172.000	*	.	.	.	443	55
176.000		0.1675	0.8325	0.0178	444	54
178.000		0.1644	0.8356	0.0177	445	53
184.000		0.1613	0.8387	0.0177	446	52
185.000		0.1582	0.8418	0.0176	447	51
188.000	*	.	.	.	447	50
194.000		0.1550	0.8450	0.0175	448	49
195.000	*	.	.	.	448	48
195.000	*	.	.	.	448	47
196.000	*	.	.	.	448	46
197.000	*	.	.	.	448	45
199.000	*	.	.	.	448	44
200.000	*	.	.	.	448	43
202.000	*	.	.	.	448	42
207.000	*	.	.	.	448	41
209.000		0.1512	0.8488	0.0175	449	40
210.000		0.1475	0.8525	0.0175	450	39
215.000		0.1437	0.8563	0.0174	451	38
220.000		0.1399	0.8601	0.0174	452	37
220.000	*	.	.	.	452	36
220.000	*	.	.	.	452	35
224.000	*	.	.	.	452	34
226.000	*	.	.	.	452	33
232.000	*	.	.	.	452	32
241.000	*	.	.	.	452	31
247.000	*	.	.	.	452	30
253.000	*	.	.	.	452	29
256.000	*	.	.	.	452	28
259.000	*	.	.	.	452	27
272.000	*	.	.	.	452	26
275.000		0.1345	0.8655	0.0175	453	25
278.000	*	.	.	.	453	24
283.000	*	.	.	.	453	23

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The LIFETEST Procedure

Product-Limit Survival Estimates						
durata		**Survival**	**Failure**	**Survival Standard Error**	**Number Failed**	**Number Left**
288.000	*	.	.	.	453	22
289.000	*	.	.	.	453	21
291.000	*	.	.	.	453	20
293.000		0.1278	0.8722	0.0179	454	19
295.000	*	.	.	.	454	18
304.000	*	.	.	.	454	17
310.000	*	.	.	.	454	16
312.000		0.1198	0.8802	0.0185	455	15
312.000	*	.	.	.	455	14
326.000		0.1112	0.8888	0.0190	456	13
328.000	*	.	.	.	456	12
329.000	*	.	.	.	456	11
332.000		0.1011	0.8989	0.0198	457	10
340.000	*	.	.	.	457	9
350.000		0.0899	0.9101	0.0205	458	8
367.000	*	.	.	.	458	7
377.000	*	.	.	.	458	6
388.000	*	.	.	.	458	5
397.000	*	.	.	.	458	4
404.000	*	.	.	.	458	3
407.000	*	.	.	.	458	2
414.000	*	.	.	.	458	1
428.000	*	.	.	.	458	0

Note: The marked survival times are censored observations.

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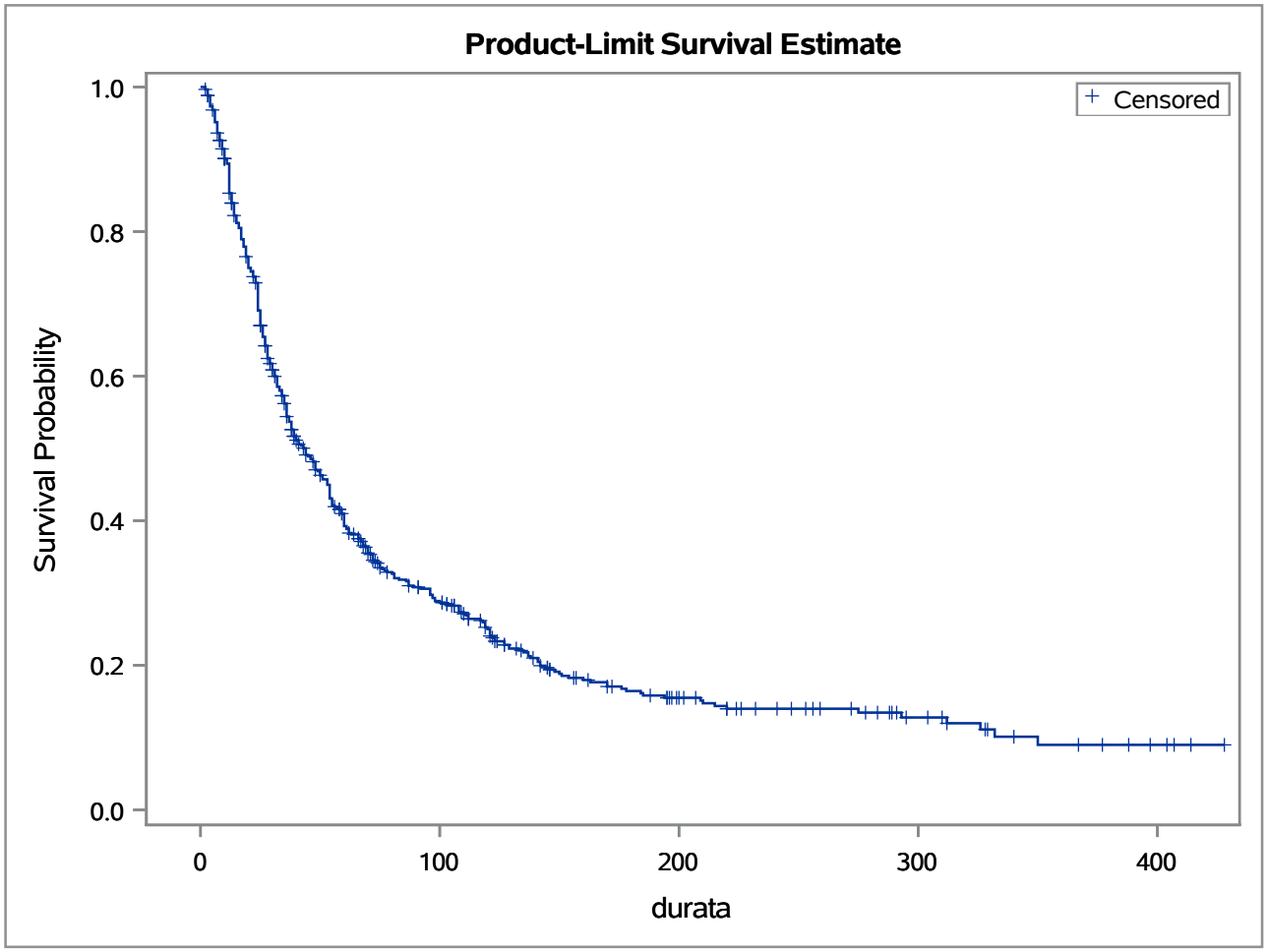
The LIFETEST Procedure

Summary Statistics for Time Variable durata

Quartile Estimates				
		95% Confidence Interval		
Percent	Point Estimate	Transform	[Lower	Upper)
75	121.000	LOGLOG	100.000	138.000
50	44.000	LOGLOG	37.000	51.000
25	20.000	LOGLOG	18.000	24.000

Mean	Standard Error
93.148	4.984

Note: The mean survival time and its standard error were underestimated because the largest observation was censored and the estimation was restricted to the largest event time.



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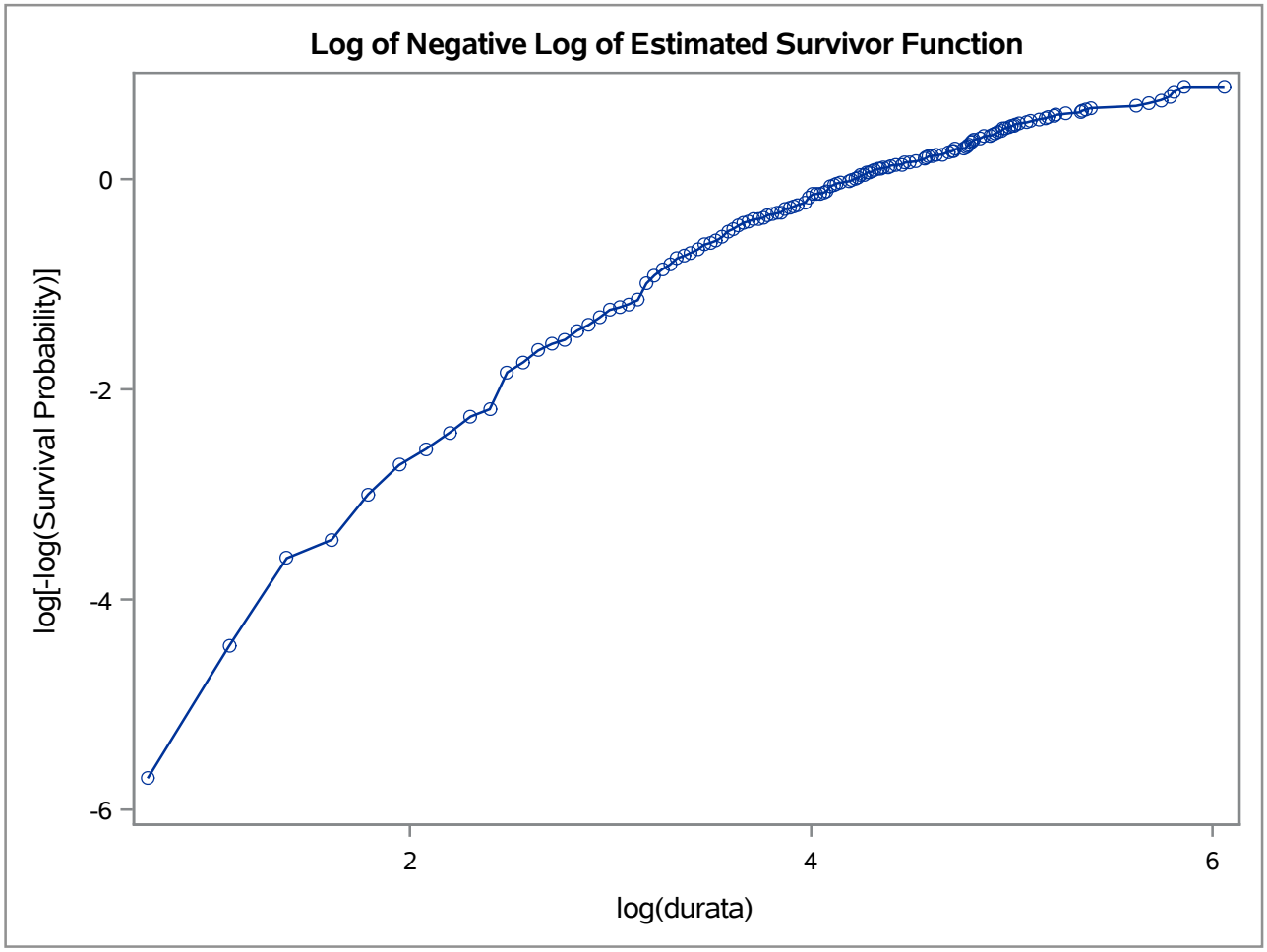
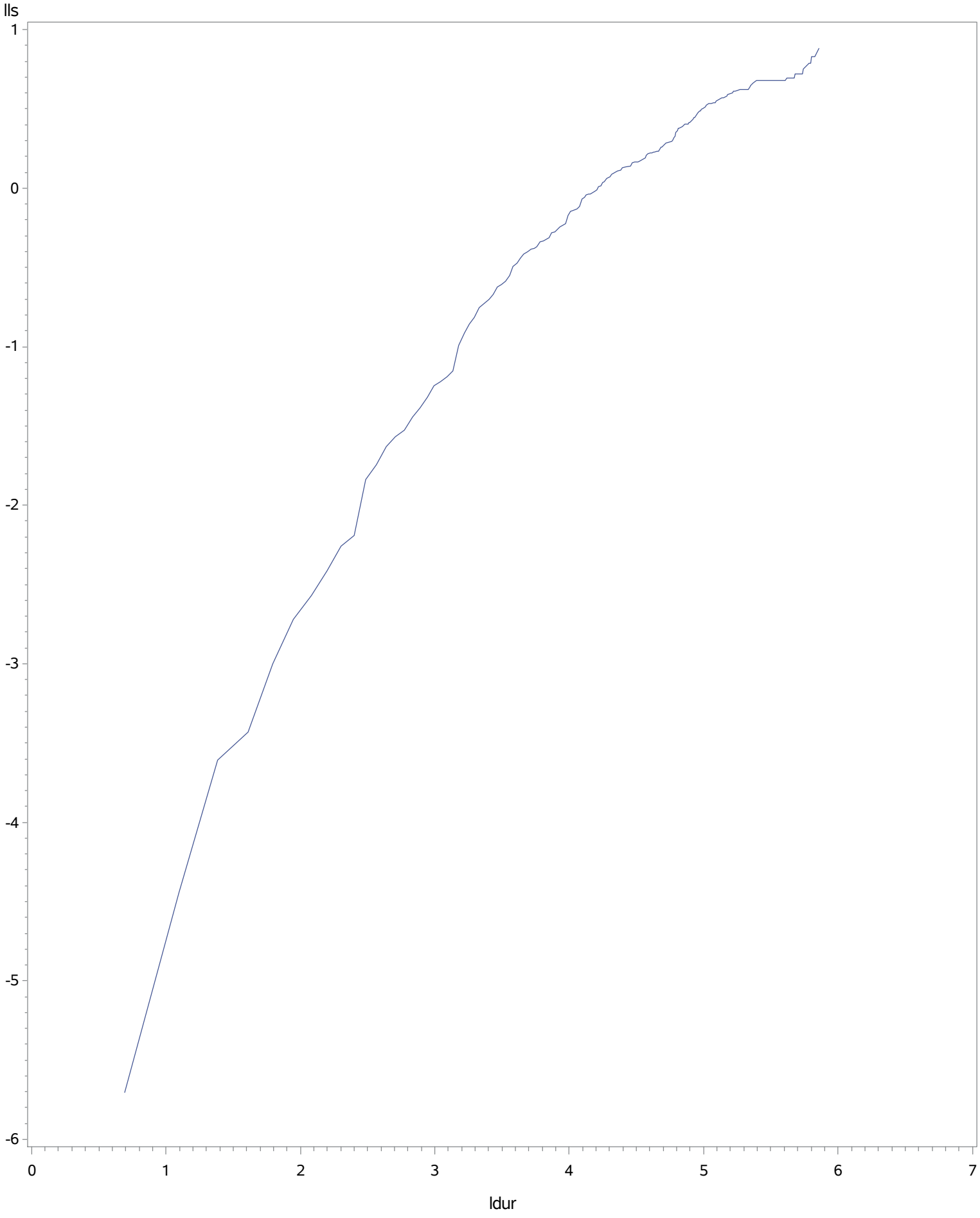
The LIFETEST Procedure



Summary of the Number of Censored and Uncensored Values			
Total	Failed	Censored	Percent Censored
600	458	142	23.67

test grafico weibull: -lls vs logt



“stima modello weibull senza covariate”

The LIFEREG Procedure

Model Information	
Data Set	WORK.MIO
Dependent Variable	Log(durata)
Censoring Variable	des
Censoring Value(s)	0
Number of Observations	600
Noncensored Values	458
Right Censored Values	142
Left Censored Values	0
Interval Censored Values	0
Number of Parameters	2
Name of Distribution	Weibull
Log Likelihood	-928.8473396

Number of Observations Read	600
Number of Observations Used	600

Fit Statistics	
-2 Log Likelihood	1857.695
AIC (smaller is better)	1861.695
AICC (smaller is better)	1861.715
BIC (smaller is better)	1870.489

Fit Statistics (Unlogged Response)	
-2 Log Likelihood	5009.799
Weibull AIC (smaller is better)	5013.799
Weibull AICC (smaller is better)	5013.819
Weibull BIC (smaller is better)	5022.593

Algorithm converged.

“stima modello weibull senza covariate”

The LIFEREG Procedure

Analysis of Maximum Likelihood Parameter Estimates							
Parameter	**DF**	**Estimate**	**Standard Error**	**95% Confidence Limits**		**Chi-Square**	**Pr > ChiSq**
Intercept	1	4.4616	0.0544	4.3550	4.5682	6728.00	<.0001
Scale	1	1.1592	0.0417	1.0802	1.2439		
Weibull Scale	1	86.6289	4.7121	77.8686	96.3747		
Weibull Shape	1	0.8627	0.0311	0.8039	0.9258		

“stima modello weibull con covariate”

The LIFEREG Procedure

Model Information	
Data Set	WORK.MIO
Dependent Variable	Log(durata)
Censoring Variable	des
Censoring Value(s)	0
Number of Observations	600
Noncensored Values	458
Right Censored Values	142
Left Censored Values	0
Interval Censored Values	0
Number of Parameters	8
Name of Distribution	Weibull
Log Likelihood	-886.7067563

Number of Observations Read	600
Number of Observations Used	600

Fit Statistics	
-2 Log Likelihood	1773.414
AIC (smaller is better)	1789.414
AICC (smaller is better)	1789.657
BIC (smaller is better)	1824.589

Fit Statistics (Unlogged Response)	
-2 Log Likelihood	4925.518
Weibull AIC (smaller is better)	4941.518
Weibull AICC (smaller is better)	4941.761
Weibull BIC (smaller is better)	4976.693

Algorithm converged.

“stima modello weibull con covariate”

The LIFEREG Procedure

Type III Analysis of Effects			
Effect	**DF**	**Wald Chi-Square**	**Pr > ChiSq**
EDU	1	8.3223	0.0039
coho2	1	23.8350	<.0001
coho3	1	19.6409	<.0001
lfx	1	12.2783	0.0005
pnoj	1	1.7382	0.1874
PRES	1	23.4219	<.0001

Analysis of Maximum Likelihood Parameter Estimates							
Parameter	**DF**	**Estimate**	**Standard Error**	**95% Confidence Limits**		**Chi-Square**	**Pr > ChiSq**
Intercept	1	4.4063	0.3060	3.8066	5.0061	207.35	<.0001
EDU	1	-0.0779	0.0270	-0.1309	-0.0250	8.32	0.0039
coho2	1	-0.6062	0.1242	-0.8496	-0.3628	23.83	<.0001
coho3	1	-0.5777	0.1303	-0.8332	-0.3222	19.64	<.0001
lfx	1	0.0036	0.0010	0.0016	0.0057	12.28	0.0005
pnoj	1	-0.0637	0.0484	-0.1585	0.0310	1.74	0.1874
PRES	1	0.0292	0.0060	0.0174	0.0410	23.42	<.0001
Scale	1	1.0945	0.0398	1.0192	1.1753		
Weibull Shape	1	0.9137	0.0332	0.8508	0.9812		