

The SAS System

The LIFEREG Procedure

Model Information	
Data Set	WORK.SHORT
Dependent Variable	Log(Duration)
Censoring Variable	Event_kind
Censoring Value(s)	0
Number of Observations	104
Noncensored Values	104
Right Censored Values	0
Left Censored Values	0
Interval Censored Values	0
Number of Parameters	8
Name of Distribution	Weibull
Log Likelihood	-109.8841399

Number of Observations Read	104
Number of Observations Used	104

Fit Statistics	
-2 Log Likelihood	219.768
AIC (smaller is better)	235.768
AICC (smaller is better)	237.284
BIC (smaller is better)	256.923

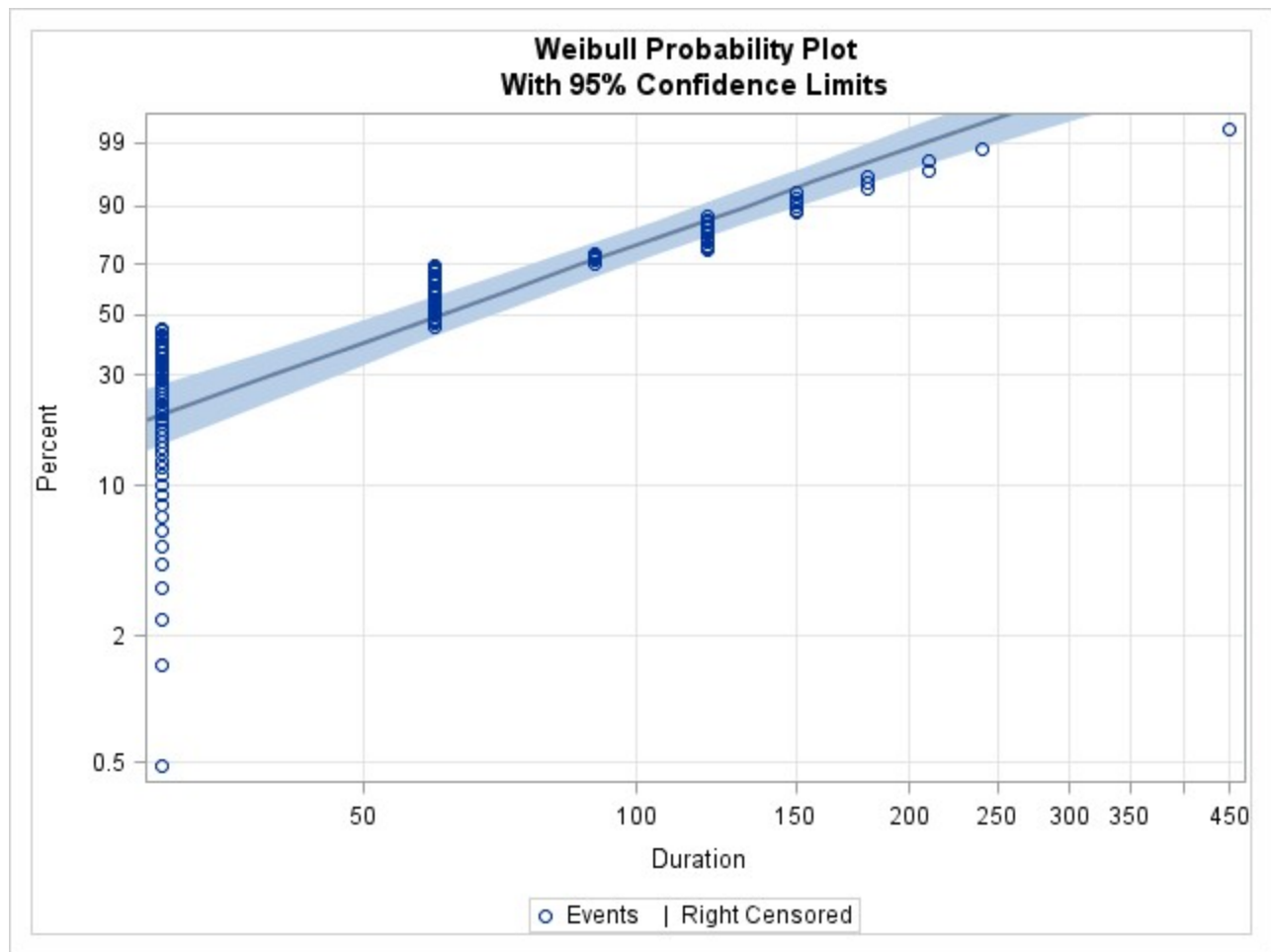
Fit Statistics (Unlogged Response)	
-2 Log Likelihood	1057.713
Weibull AIC (smaller is better)	1073.713
Weibull AICC (smaller is better)	1075.229
Weibull BIC (smaller is better)	1094.868

Algorithm converged.

Type III Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq

LaborForce	1	0.0183	0.8924
Employment	1	0.2281	0.6329
CPI_U	1	1.6711	0.1961
Ave_Temperature	1	0.1495	0.6990
Ave_Heating_Degree_D	1	0.1247	0.7240
Ave_Cooling_Degree_D	1	0.2642	0.6072

Analysis of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	5.5886	12.1214	-18.1689	29.3461	0.21	0.6448
LaborForce	1	0.0000	0.0000	-0.0000	0.0000	0.02	0.8924
Employment	1	-0.0000	0.0000	-0.0000	0.0000	0.23	0.6329
CPI_U	1	-0.0196	0.0152	-0.0494	0.0101	1.67	0.1961
Ave_Temperature	1	0.0697	0.1801	-0.2834	0.4227	0.15	0.6990
Ave_Heating_Degree_D	1	0.0653	0.1849	-0.2972	0.4278	0.12	0.7240
Ave_Cooling_Degree_D	1	-0.0977	0.1901	-0.4703	0.2749	0.26	0.6072
Scale	1	0.6465	0.0451	0.5640	0.7412		
Weibull Shape	1	1.5467	0.1078	1.3492	1.7732		



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The PHREG Procedure

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Data Set	WORK.SHORT
Dependent Variable	Duration
Censoring Variable	Event_kind
Censoring Value(s)	0
Ties Handling	EFRON

Number of Observations Read	104
Number of Observations Used	104

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
104	104	0	0.00

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	764.517	749.044
AIC	764.517	761.044
SBC	764.517	776.910

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	15.4733	6	0.0169
Score	15.8879	6	0.0144
Wald	15.3411	6	0.0178

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio
LaborForce	1	9.67797E-7	3.29904E-6	0.0861	0.7692	1.000

Employment	1	-2.9225E-8	1.7724E-6	0.0003	0.9868	1.000
CPI_U	1	0.02076	0.02337	0.7892	0.3743	1.021
Ave_Temperature	1	-0.15459	0.26765	0.3336	0.5636	0.857
Ave_Heating_Degree_D	1	-0.14087	0.27404	0.2642	0.6072	0.869
Ave_Cooling_Degree_D	1	0.20234	0.28417	0.5070	0.4764	1.224

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The PHREG Procedure

Model Information	
Data Set	WORK.SHORT
Dependent Variable	Duration
Censoring Variable	Event_kind
Censoring Value(s)	2 3
Ties Handling	EFRON

Number of Observations Read	104
Number of Observations Used	104

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
104	36	68	65.38

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	279.433	275.791
AIC	279.433	287.791
SBC	279.433	297.293

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	3.6417	6	0.7250
Score	3.7474	6	0.7108
Wald	3.6779	6	0.7202

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio
LaborForce	1	3.15479E-6	5.44992E-6	0.3351	0.5627	1.000

Employment	1	-1.328E-6	3.0032E-6	0.1955	0.6584	1.000
CPI_U	1	0.00611	0.03908	0.0244	0.8758	1.006
Ave_Temperature	1	-0.35119	0.45724	0.5899	0.4425	0.704
Ave_Heating_Degree_D	1	-0.33288	0.46836	0.5051	0.4772	0.717
Ave_Cooling_Degree_D	1	0.40807	0.48243	0.7155	0.3976	1.504

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Model Information	
Data Set	WORK.SHORT
Dependent Variable	Duration
Censoring Variable	Event_kind
Censoring Value(s)	1 3
Ties Handling	EFRON

Number of Observations Read	104
Number of Observations Used	104

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
104	33	71	68.27

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	247.006	239.430
AIC	247.006	251.430
SBC	247.006	260.409

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	7.5759	6	0.2709
Score	6.6662	6	0.3528
Wald	6.4010	6	0.3798

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio
LaborForce	1	-9.914E-6	5.91893E-6	2.8055	0.0939	1.000

Employment	1	4.62373E-6	3.1479E-6	2.1575	0.1419	1.000
CPI_U	1	0.07034	0.04342	2.6241	0.1053	1.073
Ave_Temperature	1	0.03034	0.46564	0.0042	0.9481	1.031
Ave_Heating_Degree_D	1	0.04836	0.47648	0.0103	0.9192	1.050
Ave_Cooling_Degree_D	1	0.01684	0.49336	0.0012	0.9728	1.017

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Model Information	
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Dependent Variable	Duration
Censoring Variable	Event_kind
Censoring Value(s)	1 2
Ties Handling	EFRON

Number of Observations Read	104
Number of Observations Used	104

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
104	35	69	66.35

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	271.882	265.736
AIC	271.882	277.736
SBC	271.882	287.068

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	6.1455	6	0.4071
Score	6.5583	6	0.3636
Wald	6.2969	6	0.3908

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio
LaborForce	1	5.86297E-6	5.78948E-6	1.0255	0.3112	1.000

Employment	1	-1.6028E-6	3.09782E-6	0.2677	0.6049	1.000
CPI_U	1	-0.01205	0.03815	0.0998	0.7521	0.988
Ave_Temperature	1	-0.00380	0.44686	0.0001	0.9932	0.996
Ave_Heating_Degree_D	1	-0.02135	0.45969	0.0022	0.9630	0.979
Ave_Cooling_Degree_D	1	-0.0009022	0.47480	0.0000	0.9985	0.999