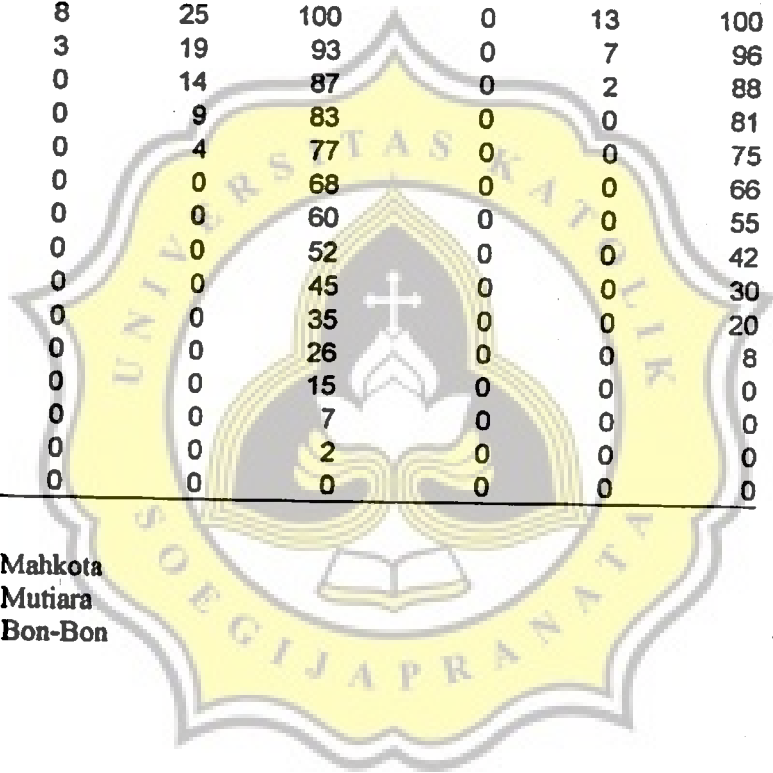


Lampiran 1. Jumlah Roti Tawar Yang Bertahan Selama Penyimpanan.

Jam ke -	Ruang Kaca			Ruang Terbuka		
	Merk I	Merk II	Merk III	Merk I	Merk II	Merk III
0 s/d 96	100	100	100	100	100	100
108	99	100	100	100	100	100
120	91	97	100	93	98	100
132	84	93	100	80	90	100
144	75	85	100	74	80	100
156	68	77	100	62	70	100
168	57	68	100	52	62	100
180	48	58	100	37	51	100
192	36	51	100	18	39	100
204	26	43	100	11	31	100
216	18	37	100	5	25	100
228	12	30	100	0	18	100
240	8	25	100	0	13	100
252	3	19	93	0	7	96
264	0	14	87	0	2	88
276	0	9	83	0	0	81
288	0	4	77	0	0	75
300	0	0	68	0	0	66
312	0	0	60	0	0	55
324	0	0	52	0	0	42
336	0	0	45	0	0	30
348	0	0	35	0	0	20
360	0	0	26	0	0	8
372	0	0	15	0	0	0
384	0	0	7	0	0	0
396	0	0	2	0	0	0
408	0	0	0	0	0	0

Keterangan :

- Merk I = Merk Mahkota
- Merk II = Merk Mutiara
- Merk III = Merk Bon-Bon



Lampiran 2. Data Model Distribusi Weibull

Jam ke-	Lemari Kaca						Ruang Terbuka					
	Merek I		Merek II		Merek III		Merek I		Merek II		Merek III	
	Observasi	Model	Observasi	Model	Observasi	Model	Observasi	Model	Observasi	Model	Observasi	Model
12	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1	1	1	1	1	1
60	1	1	1	0.99	1	1	1	1	1	1	1	1
72	1	0.99	1	0.99	1	1	1	1	1	0.99	1	1
84	1	0.99	1	0.98	1	1	1	0.99	1	0.98	1	1
96	1	0.98	1	0.96	1	1	1	0.98	1	0.97	1	1
108	1	0.96	1	0.94	1	1	1	0.95	1	0.94	1	1
120	0.99	0.93	0.97	0.91	1	1	0.93	0.91	0.98	0.91	1	1
132	0.91	0.89	0.93	0.88	1	1	0.8	0.85	0.9	0.86	1	1
144	0.84	0.84	0.85	0.83	1	1	0.74	0.76	0.8	0.8	1	1
156	0.75	0.77	0.77	0.77	1	1	0.62	0.64	0.7	0.73	1	1
168	0.68	0.69	0.68	0.7	1	1	0.52	0.49	0.62	0.64	1	1
180	0.57	0.59	0.58	0.63	1	0.99	0.37	0.35	0.51	0.54	1	1
192	0.48	0.48	0.51	0.55	1	0.99	0.18	0.21	0.39	0.43	1	0.99
204	0.36	0.37	0.43	0.46	1	0.98	0.11	0.11	0.31	0.33	1	0.99
216	0.26	0.26	0.37	0.38	1	0.98	0.05	0.04	0.25	0.23	1	0.98
228	0.18	0.17	0.3	0.3	1	0.96	0	0	0.18	0.15	1	0.97
240	0.12	0.1	0.25	0.22	1	0.94	0	0	0.13	0.09	1	0.96
252	0.08	0.06	0.19	0.16	0.93	0.92	0	0	0.07	0.05	0.96	0.93
264	0.03	0.03	0.14	0.11	0.87	0.88	0	0	0.02	0.02	0.88	0.89
276	0	0	0.09	0.07	0.83	0.84	0	0	0	0	0.81	0.84
288	0	0	0.04	0.04	0.77	0.78	0	0	0	0	0.75	0.76
300	0	0	0	0	0.68	0.71	0	0	0	0	0.66	0.67
312	0	0	0	0	0.6	0.63	0	0	0	0	0.55	0.55
324	0	0	0	0	0.52	0.53	0	0	0	0	0.42	0.42
336	0	0	0	0	0.45	0.43	0	0	0	0	0.3	0.29
348	0	0	0	0	0.35	0.33	0	0	0	0	0.2	0.18
360	0	0	0	0	0.26	0.23	0	0	0	0	0.08	0.09
372	0	0	0	0	0.15	0.15	0	0	0	0	0	0
384	0	0	0	0	0.07	0.09	0	0	0	0	0	0
396	0	0	0	0	0.02	0.04	0	0	0	0	0	0

Keterangan :

- Merk I = Merk Mahkota
- Merk II = Merk Mutiara
- Merk III = Merk Bon-Bon

LAMPIRAN 3. OUTPUT MODEL DISTRIBUSI WEIBULI, MEREK I DALAM LEMARI KACA

Iteration	Residual SS	BETA	ALFA
1	,1327025188	4,10000000	,004500000
1.1	,0093103588	4,76785503	,004905592
2	,0093103588	4,76785503	,004905592
2.1	,0075443652	5,05109296	,004897916
3	,0075443652	5,05109296	,004897916
3.1	,0075407529	5,04189523	,004899284
4	,0075407529	5,04189523	,004899284
4.1	,0075407344	5,04292680	,004899286
5	,0075407344	5,04292680	,004899286
5.1	,0075407343	5,04286165	,004899291
6	,0075407343	5,04286165	,004899291
6.1	,0075407343	5,04286716	,004899290

Run stopped after 12 model evaluations and 6 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSCON = 1,000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

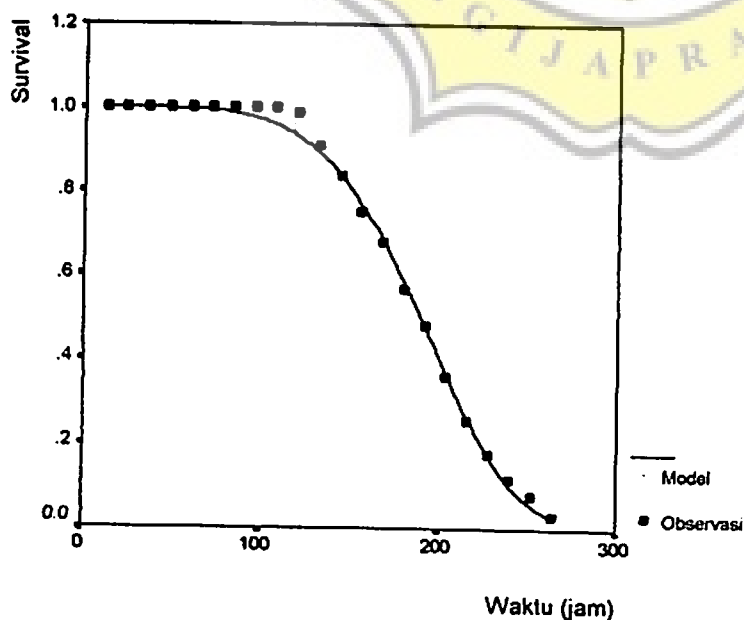
Source	DF	Sum of Squares	Mean Square
Regression	2	13,33776	6,66888
Residual	20	7,540734E-03	3,770367E-04
Uncorrected Total	22	13,34530	
(Corrected Total)	21	2,77428	

R squared = 1 - Residual SS / Corrected SS = ,99728

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
BETA	5,042867155	,144972564	4,740459686	5,345274624
ALFA	,004899290	,000021451	,004854544	,004944037

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK I DALAM LEMARI KACA



LAMPIRAN 4. UTPUT MODEL DISTRIBUSI WEIBULL MEREK II DALAM LEMARI KACA

Iteration	Residual SS	ALFA	BETA
1	.0275854774	.004500000	4.06000000
1.1	.0195551266	.004593997	4.02601495
2	.0195551266	.004593997	4.02601495
2.1	.0194844435	.004599183	4.06912913
3	.0194844435	.004599183	4.06912913
3.1	.0194838091	.004599637	4.06557630
4	.0194838091	.004599637	4.06557630
4.1	.0194837985	.004599631	4.06615920
5	.0194837985	.004599631	4.06615920
5.1	.0194837983	.004599635	4.06608471
6	.0194837983	.004599635	4.06608471
6.1	.0194837983	.004599635	4.06609509
7	.0194837983	.004599635	4.06609509
7.1	.0194837983	.004599635	4.06609369

Run stopped after 14 model evaluations and 7 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSSCON = 1.000E-10

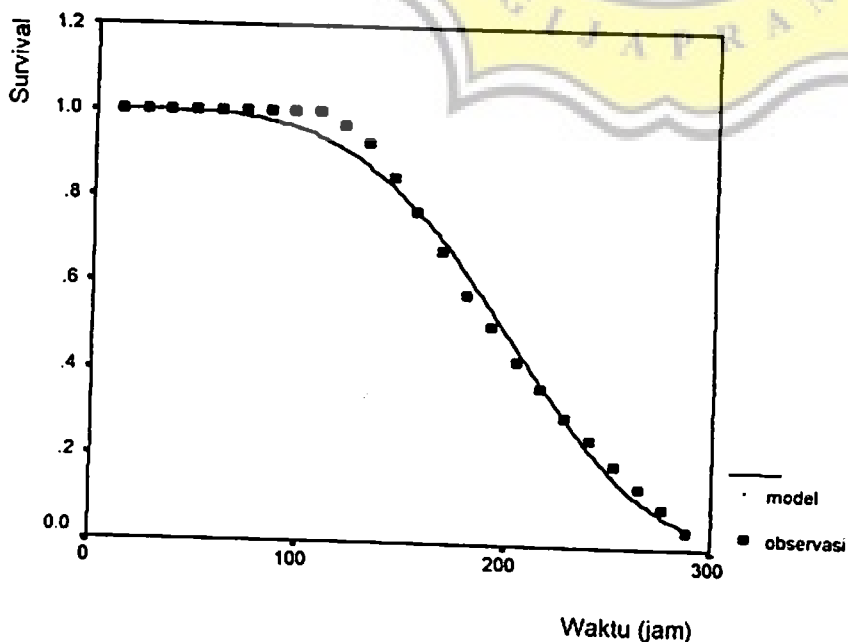
Nonlinear Regression Summary Statistics Dependent Variable ST

Source	DF	Sum of Squares	Mean Square
Regression	2	13.70032	6.85016
Residual	22	.01948	8.856272E-04
Uncorrected Total	24	13.71980	
(Corrected Total)	23	2.91938	

R squared = 1 - Residual SS / Corrected SS = .99333

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95.% Confidence Interval	
			Lower	Upper
ALFA	.004599635	.000033476	.004530209	.004669060
BETA	4.066093694	.161241506	3.731699277	4.400488112

GRAFIK ROTI MEREK II DALAM LEMARI KACA



LAMPIRAN 5. OUTPUT MODEL DISTRIBUSI WEIBULL MEREK III DI LEMARI KACA

Iteration	Residual SS	ALFA	BETA
1	.0115106378	.002900000	7.95000000
1.1	.0104097510	.002913026	7.95363930
2	.0104097510	.002913026	7.95363930
2.1	.0104097386	.002913039	7.95254215
3	.0104097386	.002913039	7.95254215
3.1	.0104097385	.002913041	7.95265393
4	.0104097385	.002913041	7.95265393
4.1	.0104097385	.002913041	7.95264157
5	.0104097385	.002913041	7.95264157
5.1	.0104097385	.002913041	7.95264293

Run stopped after 10 model evaluations and 5 derivative evaluations.
 Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

Source	DF	Sum of Squares	Mean Square
Regression	2	24.40639	12.20320
Residual	31	.01041	3.357980E-04
Uncorrected Total	33	24.41680	

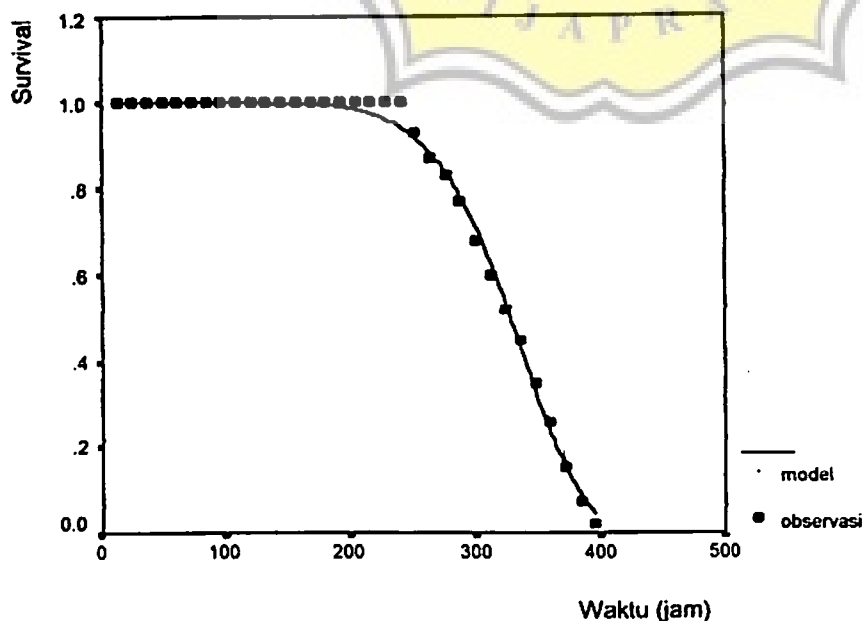
(Corrected Total) 32 3.13650

R squared = 1 - Residual SS / Corrected SS = .99668

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
ALFA	.002913041	7.46904E-06	.002897807	.002928274
BETA	7.952642933	.205414815	7.533696656	8.371589210

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK III DALAM RUANG KACA



LAMPIRAN 6. OUTPUT MODEL DISTRIBUSI WEIBULL MEREK I DI RUANG TERBUKA

Iteration	Residual SS	ALFA	BETA
1	.0084950441	.005600000	5.95000000
1.1	.0084085673	.005611502	5.95897303
2	.0084085673	.005611502	5.95897303
2.1	.0084085667	.005611532	5.95903814
3	.0084085667	.005611532	5.95903814
3.1	.0084085667	.005611532	5.95903546

Run stopped after 6 model evaluations and 3 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

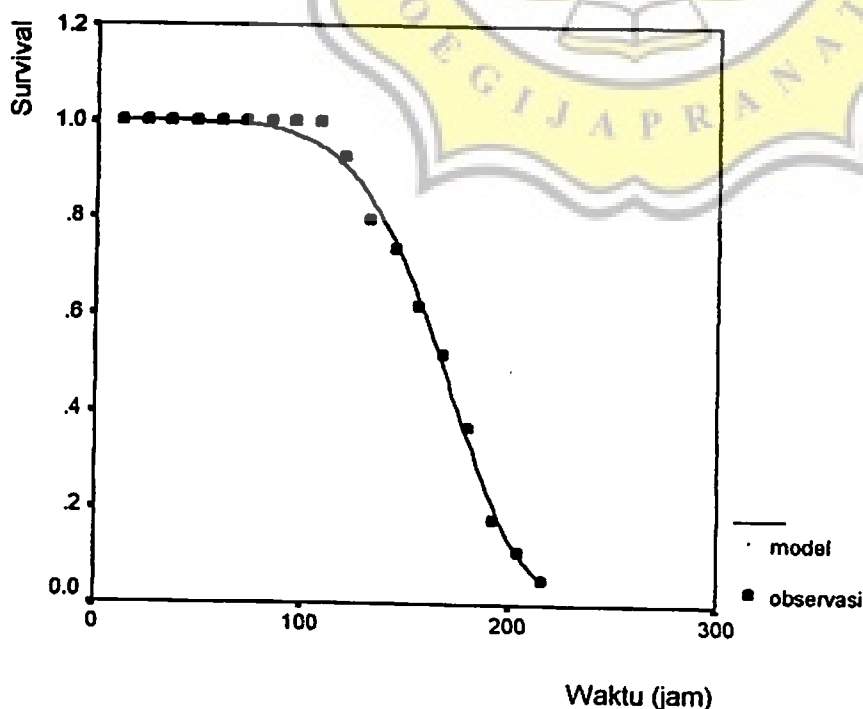
Source	DF	Sum of Squares	Mean Square
Regression	2	11.88279	5.94140
Residual	16	8.408567E-03	5.255354E-04
Uncorrected Total	18	11.89120	
(Corrected Total)	17	2.03440	

R squared = 1 - Residual SS / Corrected SS = .99587

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
ALFA	.005611532	.000028693	.005550706	.005672358
BETA	5.959035457	.234005417	5.462966133	6.455104781

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK I DALAM RUANG TERBUKA



LAMPIRAN 7. OUTPUT MODEL DISTRIBUSI WEIBULL MEREK II DI RUANG TERBUKA

Iteration	Residual SS	BETA	ALFA
1	.0176482737	4.68800000	.005000000
1.1	.0172722491	4.67757054	.005021846
2	.0172722491	4.67757054	.005021846
2.1	.0172690535	4.68935233	.005022881
3	.0172690535	4.68935233	.005022881
3.1	.0172690210	4.68857890	.005023031
4	.0172690210	4.68857890	.005023031
4.1	.0172690205	4.68873039	.005023031
5	.0172690205	4.68873039	.005023031
5.1	.0172690205	4.68871431	.005023033
6	.0172690205	4.68871431	.005023033
6.1	.0172690205	4.68871664	.005023033

Run stopped after 12 model evaluations and 6 derivative evaluations.
 Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

Source	DF	Sum of Squares	Mean Square
Regression	2	12.89293	6.44647
Residual	20	.01727	8.634510E-04
Uncorrected Total	22	12.91020	

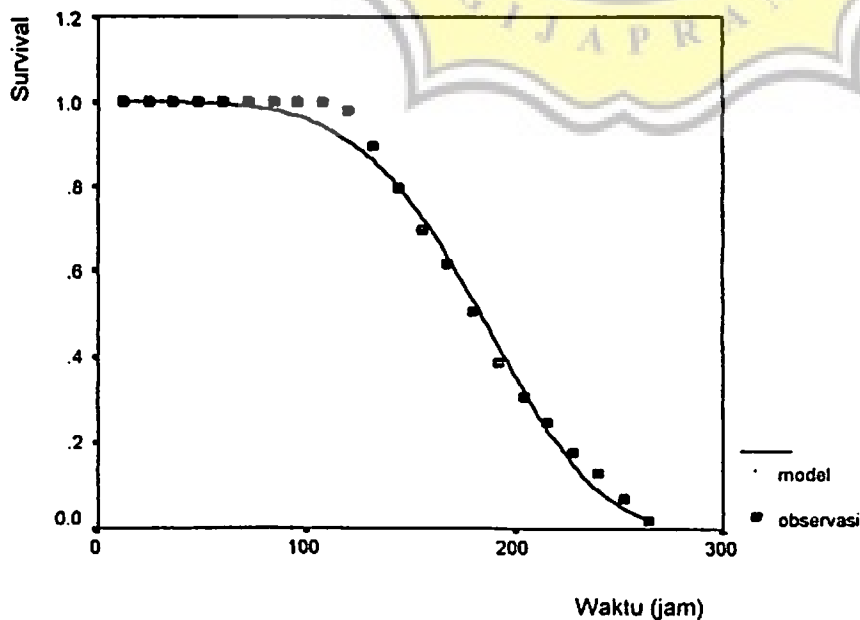
(Corrected Total) 21 2.87295

R squared = 1 - Residual SS / Corrected SS = .99399

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
BETA	4.688716635	.200076600	4.271364161	5.106069109
ALFA	.005023033	.000034906	.004950219	.005095846

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK II DALAM RUANG TERBUKA



IAMPIRAN 8. OUTPUT MODEL DISTRIBUSI WEIBULL MEREK III DI RUANG TERBUKA

Iteration	Residual SS	BETA	ALFA
1	.0158179659	9.74700000	.003000000
1.1	.0057403887	9.68011715	.003037257
2	.0057403887	9.68011715	.003037257
2.1	.0057197620	9.75196178	.003038261
3	.0057197620	9.75196178	.003038261
3.1	.0057196640	9.74681713	.003038235
4	.0057196640	9.74681713	.003038235
4.1	.0057196634	9.74722755	.003038237
5	.0057196634	9.74722755	.003038237
5.1	.0057196634	9.74719491	.003038236
6	.0057196634	9.74719491	.003038236
6.1	.0057196634	9.74719751	.003038236

Run stopped after 12 model evaluations and 6 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

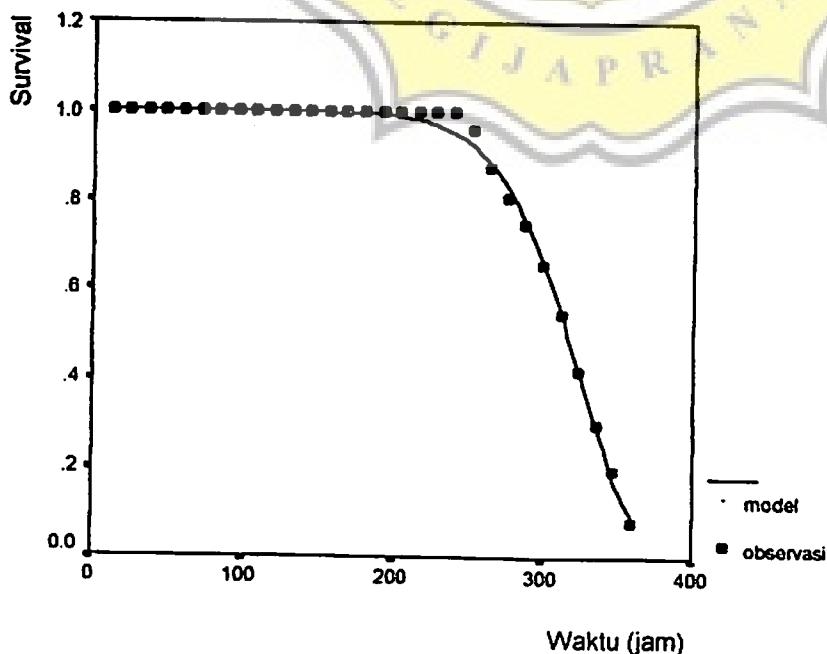
Source	DF	Sum of Squares	Mean Square
Regression	2	23.95978	11.97989
Residual	28	5.719663E-03	2.042737E-04
Uncorrected Total	30	23.96550	

(Corrected Total) 29 2.10310

R squared = 1 - Residual SS / Corrected SS = .99728

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
BETA	9.747197512	.226680904	9.282862729	10.211532295
ALFA	.003038236	5.72787E-06	.003026503	.003049969

GRAFIK ROTI MREK III DALAM RUANG TERBUKA



Lampiran 9. Data Model Distribusi Log-Logistik

Jam ke-	Lemari Kaca						Ruang Terbuka					
	Merek I		Merek II		Merek III		Merek I		Merek II		Merek III	
	Observasi	Model	Observasi	Model	Observasi	Model	Observasi	Model	Observasi	Model	Observasi	Model
12	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1	1	1	1	1	1
60	1	1	1	1	1	1	1	1	1	1	1	1
72	1	1	1	1	1	1	1	1	1	1	1	1
84	1	1	1	0.99	1	1	1	1	1	0.99	1	1
96	1	0.99	1	0.98	1	1	1	0.99	1	0.99	1	1
108	1	0.98	1	0.97	1	1	1	0.97	1	0.97	1	1
120	0.99	0.96	0.97	0.94	1	1	0.93	0.94	0.98	0.94	1	1
132	0.91	0.92	0.93	0.91	1	1	0.8	0.87	0.9	0.89	1	1
144	0.84	0.87	0.85	0.85	1	1	0.74	0.76	0.8	0.82	1	1
156	0.75	0.78	0.77	0.78	1	1	0.62	0.62	0.7	0.73	1	1
168	0.68	0.68	0.68	0.7	1	1	0.52	0.46	0.62	0.62	1	1
180	0.57	0.56	0.58	0.61	1	1	0.37	0.33	0.51	0.5	1	1
192	0.48	0.45	0.51	0.52	1	1	0.18	0.22	0.39	0.39	1	1
204	0.36	0.34	0.43	0.43	1	0.99	0.11	0.14	0.31	0.3	1	1
216	0.26	0.25	0.37	0.35	1	0.99	0.05	0.09	0.25	0.22	1	0.99
228	0.18	0.19	0.3	0.28	1	0.98	0	0	0.18	0.17	1	0.99
240	0.12	0.14	0.25	0.22	1	0.97	0	0	0.13	0.12	1	0.97
252	0.08	0.1	0.19	0.18	0.93	0.94	0	0	0.07	0.09	0.96	0.95
264	0.03	0.07	0.14	0.14	0.87	0.91	0	0	0.02	0.07	0.88	0.91
276	0	0	0.09	0.11	0.83	0.86	0	0	0	0	0.81	0.85
288	0	0	0.04	0.09	0.77	0.79	0	0	0	0	0.75	0.76
300	0	0	0	0	0.68	0.7	0	0	0	0	0.66	0.65
312	0	0	0	0	0.6	0.6	0	0	0	0	0.55	0.52
324	0	0	0	0	0.52	0.5	0	0	0	0	0.42	0.4
336	0	0	0	0	0.45	0.4	0	0	0	0	0.3	0.29
348	0	0	0	0	0.35	0.31	0	0	0	0	0.2	0.2
360	0	0	0	0	0.26	0.24	0	0	0	0	0.08	0.14
372	0	0	0	0	0.15	0.18	0	0	0	0	0	0
384	0	0	0	0	0.07	0.13	0	0	0	0	0	0
396	0	0	0	0	0.02	0.1	0	0	0	0	0	0

Keterangan :

- Merk I = Merk Mahkota
- Merk II = Merk Mutiara
- Merk III = Merk Bon-Bon

LAMPIRAN 10. OUTPUT MODEL LOG LOGISTIK MEREK I DI LEMARI KACA

Iteration	Residual SS	ALFA	BETA
1	.1042714603	.005000000	7.31100000
1.1	.0083447495	.005349978	7.07070359
2	.0083447495	.005349978	7.07070359
2.1	.0076621691	.005369065	7.29889598
3	.0076621691	.005369065	7.29889598
3.1	.0076595292	.005367998	7.28337889
4	.0076595292	.005367998	7.28337889
4.1	.0076595128	.005368050	7.28476715
5	.0076595128	.005368050	7.28476715
5.1	.0076595127	.005368045	7.28466365
6	.0076595127	.005368045	7.28466365
6.1	.0076595127	.005368045	7.28467193

Run stopped after 12 model evaluations and 6 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

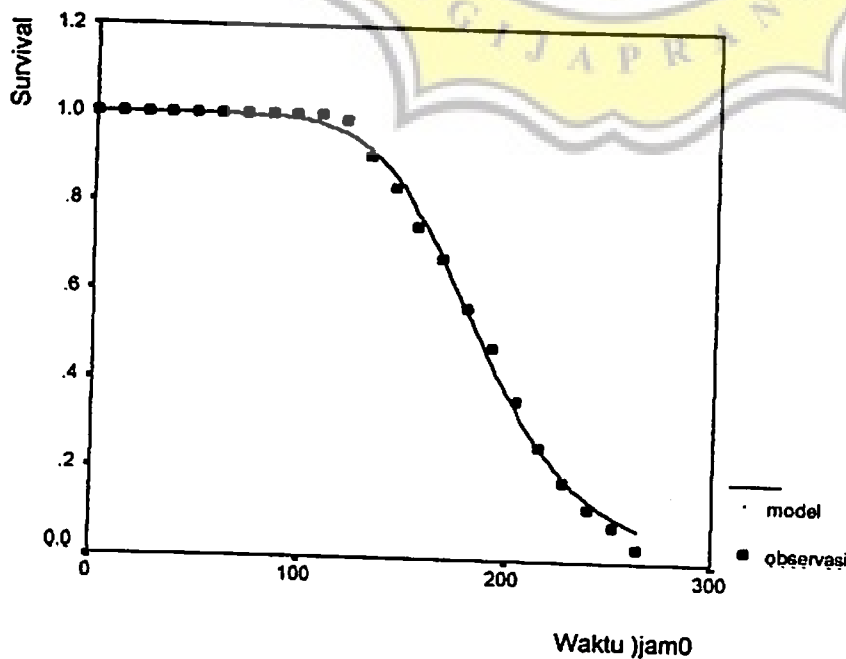
Source	DF	Sum of Squares	Mean Square
Regression	2	14.33764	7.16882
Residual	21	7.659513E-03	3.647387E-04
Uncorrected Total	23	14.34530	
(Corrected Total)	22	2.86432	

R squared = 1 - Residual SS / Corrected SS = .99733

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
ALFA	.005368045	.000023832	.005318484	.005417607
BETA	7.284671932	.218836599	6.829576311	7.739767554

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK I DI RUANG KACA



LAMPIRAN 11. OUTPUT MODEL LOG LOGISTIK MEREK II DI LEMARI KACA

Iteration	Residual SS	ALFA	BETA
1	.0230359296	.005000000	5.88800000
1.1	.0087528880	.005149546	5.84702030
2	.0087528880	.005149546	5.84702030
2.1	.0087156163	.005153006	5.89143972
3	.0087156163	.005153006	5.89143972
3.1	.0087154347	.005153153	5.88770543
4	.0087154347	.005153153	5.88770543
4.1	.0087154331	.005153142	5.88806033
5	.0087154331	.005153142	5.88806033
5.1	.0087154331	.005153143	5.88802690
6	.0087154331	.005153143	5.88802690
6.1	.0087154331	.005153143	5.88803006

Run stopped after 12 model evaluations and 6 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SCON = 1.000E-10

Nonlinear Regression Summary Statistics **Dependent Variable ST**

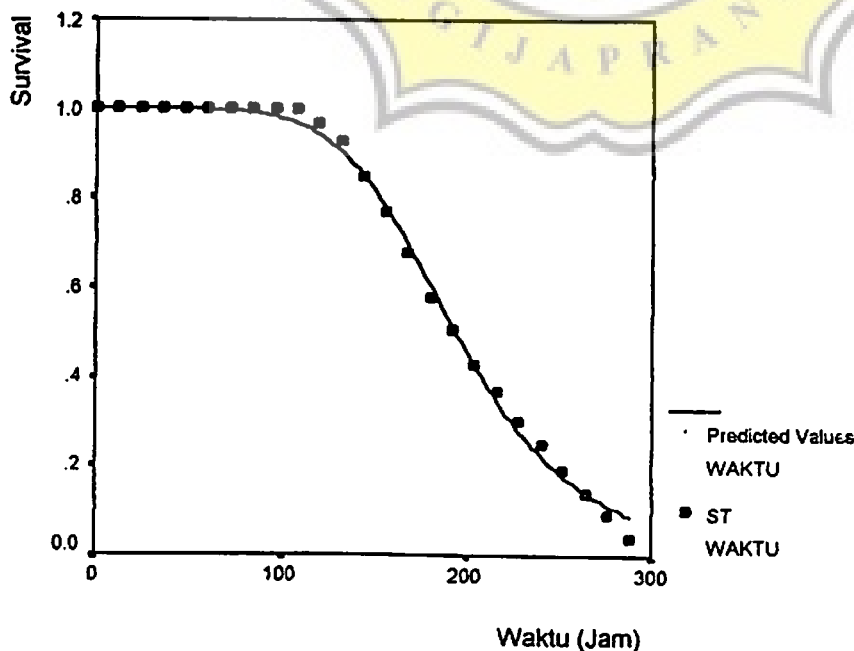
Source	DF	Sum of Squares	Mean Square
Regression	2	14.71108	7.35554
Residual	23	8.715433E-03	3.789319E-04
Uncorrected Total	25	14.71980	
(Corrected Total)	24	3.02340	

R squared = 1 - Residual SS / Corrected SS = .99712

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
ALFA	.005153143	.000025532	.005100327	.005205960
BETA	5.888030056	.163499665	5.549805229	6.226254883

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK II DI RUANG KACA



LAMPIRAN 12. OUTPUT MODEL LOG LOGISTIK MEREK III DI LEMARI KACA

Iteration	Residual SS	ALFA	BETA
1	.0608967516	.003000000	11.1430000
1.1	.0200759997	.003085953	11.1744302
2	.0200759997	.003085953	11.1744302
2.1	.0200595028	.003087554	11.1449597
3	.0200595028	.003087554	11.1449597
3.1	.0200594679	.003087622	11.1432299
4	.0200594679	.003087622	11.1432299
4.1	.0200594679	.003087626	11.1431903
5	.0200594679	.003087626	11.1431903
5.1	.0200594679	.003087626	11.1431840

Run stopped after 10 model evaluations and 5 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSSCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

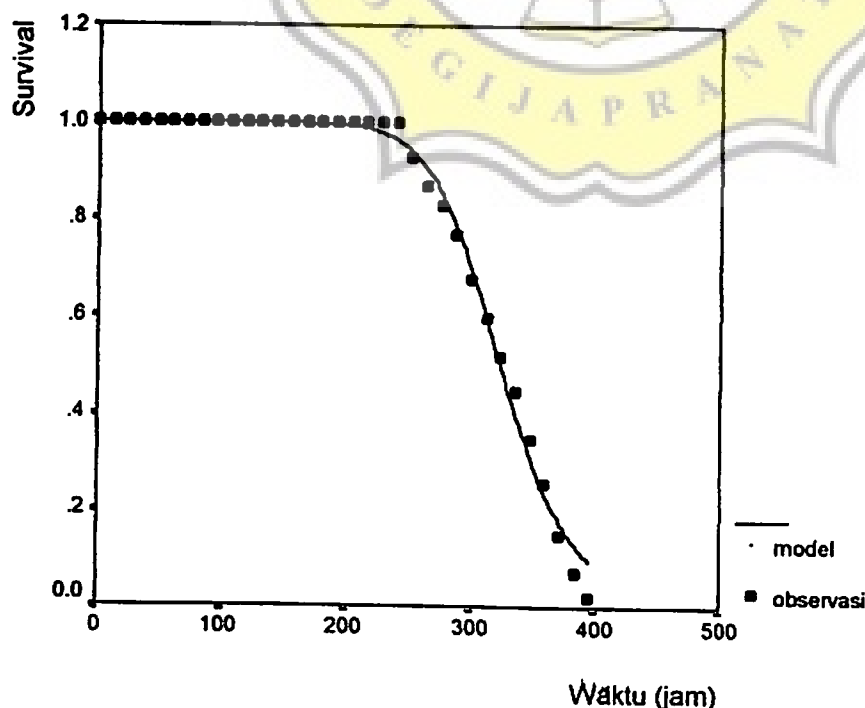
Source	DF	Sum of Squares	Mean Square
Regression	2	25.39674	12.69837
Residual	32	.02006	6.268584E-04
Uncorrected Total	34	25.41680	
(Corrected Total)	33	3.17415	

R squared = 1 - Residual SS / Corrected SS = .99368

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
ALFA	.003087626	.000011037	.003065144	.003110108
BETA	11.143183980	.421996785	10.283604656	12.002763303

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK III DI LEMARI KACA



LAMPIRAN 13. OUTPUT MODEL LOG LOGISTIK MEREK I DI RUANG TERBUKA

Iteration	Residual SS	ALFA	BETA
1	.0176449025	.006000000	8.38800000
1.1	.0157476333	.006059641	8.43579283
2	.0157476333	.006059641	8.43579283
2.1	.0157379488	.006060115	8.38679433
3	.0157379488	.006060115	8.38679433
3.1	.0157378579	.006060489	8.38897229
4	.0157378579	.006060489	8.38897229
4.1	.0157378570	.006060477	8.38850596
5	.0157378570	.006060477	8.38850596
5.1	.0157378570	.006060480	8.38854102
6	.0157378570	.006060480	8.38854102
6.1	.0157378570	.006060480	8.38853609

Run stopped after 12 model evaluations and 6 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

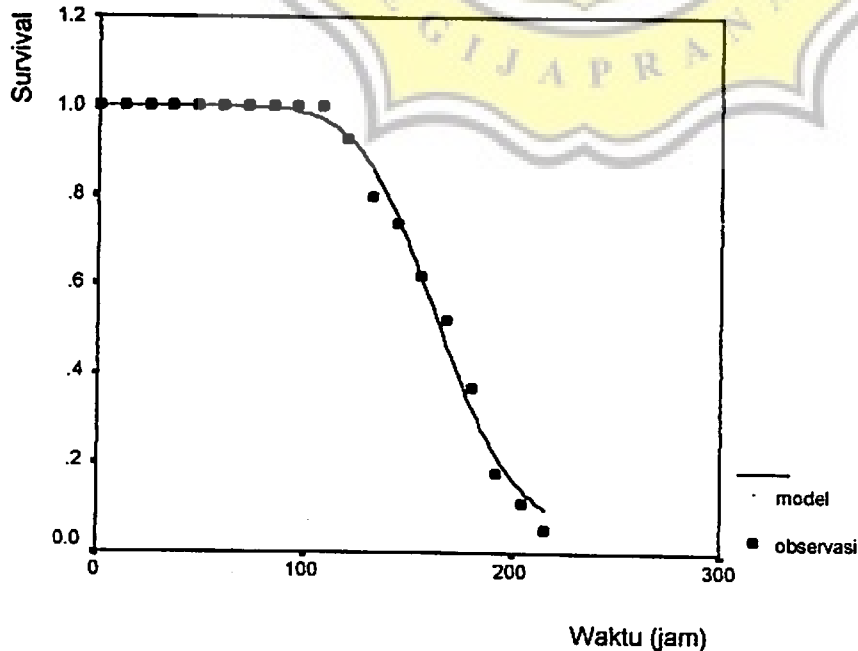
Source	DF	Sum of Squares	Mean Square
Regression	2	12.87546	6.43773
Residual	17	.01574	9.257563E-04
Uncorrected Total	19	12.89120	
(Corrected Total)	18	2.09844	

R squared = 1 - Residual SS / Corrected SS = .99250

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
ALFA	.006060480	.000042494	.005970825	.006150134
BETA	8.388536093	.466588473	7.404120466	9.372951721

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK I DI RUANG TERBUKA



LAMPIRAN 14. OUTPUT MODEL LOG LOGISTIK MEREK II DI RUANG TERBUKA

Iteration	Residual SS	ALFA	BETA
1	.0089841763	.005500000	6.86000000
1.1	.0077473780	.005546396	6.86063901
2	.0077473780	.005546396	6.86063901
2.1	.0077470599	.005546929	6.86447855
3	.0077470599	.005546929	6.86447855
3.1	.0077470589	.005546938	6.86413788
4	.0077470589	.005546938	6.86413788
4.1	.0077470589	.005546938	6.86416794
5	.0077470589	.005546938	6.86416794
5.1	.0077470589	.005546938	6.86416528

Run stopped after 10 model evaluations and 5 derivative evaluations.
 Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable: ST

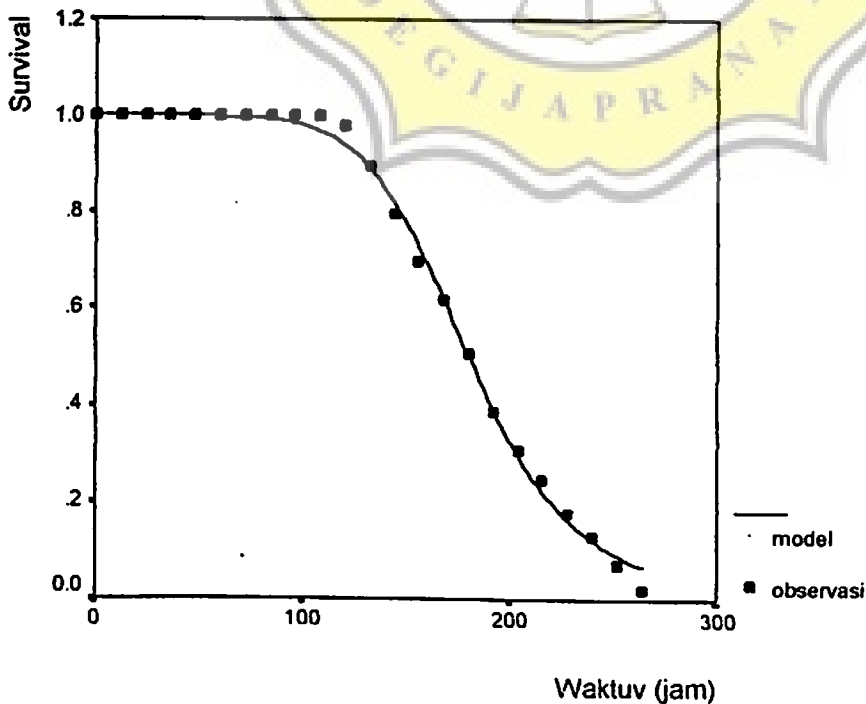
Source	DF	Sum of Squares	Mean Square
Regression	2	13.90245	6.95123
Residual	21	7.747059E-03	3.689076E-04
Uncorrected Total	23	13.91020	
(Corrected Total)	22	2.97370	

R squared = 1 - Residual SS / Corrected SS = .99739

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95% Confidence Interval	
			Lower	Upper
ALFA	.005546938	.000025937	.005492998	.005600877
BETA	6.864165283	.203509935	6.440943205	7.287387361

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK II DI RUANG TERBUKA



LAMPIRAN 15. OUTPUT MODEL LOG LOGISTIK MEREK III DI RUANG TERBUKA

Iteration	Residual SS	ALFA	BETA
1	.2003684861	.003000000	13.3400000
1.1	.0118984644	.003175306	12.1585035
2	.0118984644	.003175306	12.1585035
2.1	.0086718413	.003184340	13.3442346
3	.0086718413	.003184340	13.3442346
3.1	.0086561676	.003182655	13.3436256
4	.0086561676	.003182655	13.3436256
4.1	.0086561281	.003182654	13.3483721
5	.0086561281	.003182654	13.3483721
5.1	.0086561280	.003182649	13.3482100
6	.0086561280	.003182649	13.3482100
6.1	.0086561280	.003182649	13.3482275

Run stopped after 12 model evaluations and 6 derivative evaluations. Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSSCON = 1.000E-10

Nonlinear Regression Summary Statistics Dependent Variable ST

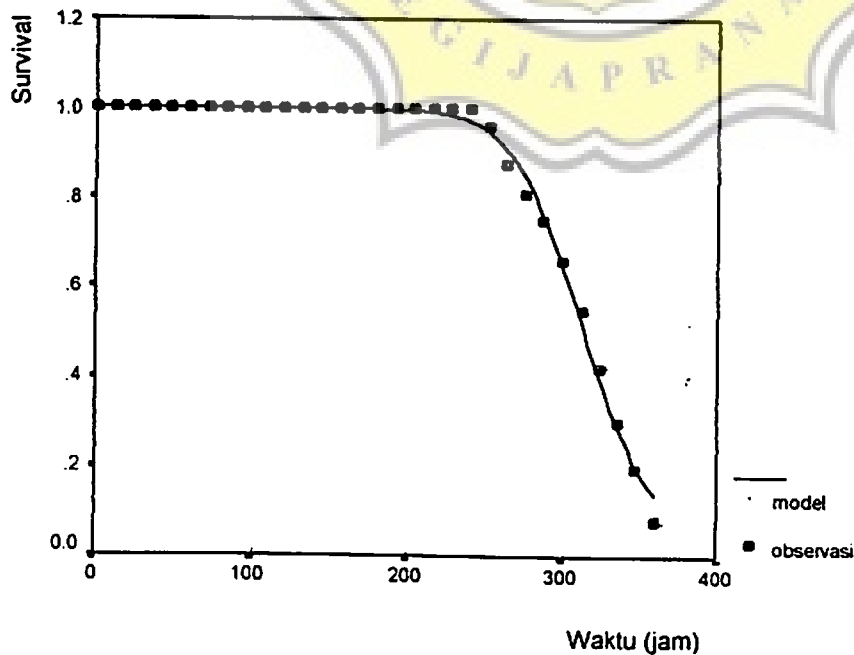
Source	DF	Sum of Squares	Mean Square
Regression	2	24.95684	12.47842
Residual	29	8.656128E-03	2.984872E-04
Uncorrected Total	31	24.96550	
(Corrected Total)	30	2.12382	

R squared = 1 - Residual SS / Corrected SS = .99592

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95% Confidence Interval	
			Lower	Upper
ALFA	.003182649	7.35556E-06	.003167606	.003197693
BETA	13.348227478	.405963850	12.517938178	14.178516778

Asymptotic Correlation Matrix of the Parameter Estimates

GRAFIK ROTI MEREK III DI RUANG TERBUKA



Lampiran 16. Hasil Residual

Jam ke-	Lemari kaca						Ruang Terbuka					
	Merek I		Merek II		Merek III		Merek I		Merek II		Merek III	
	log		log		log		Weibull log		log		Weibull log	
	Weibull	logistik	Weibull	logistik	Weibull	logistik	Weibull	logistik	Weibull	logistik	Weibull	logistik
12	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0.01	0	0	0	0	0	0	0	0	0
72	0.01	0	0.01	0	0	0	0	0	0.01	0	0	0
84	0.01	0	0.02	0.01	0	0	0.01	0	0.02	0.01	0	0
96	0.02	0.01	0.04	0.02	0	0	0.02	0.01	0.03	0.01	0	0
108	0.04	0.02	0.06	0.03	0	0	0.05	0.03	0.06	0.03	0	0
120	0.06	0.03	0.06	0.03	0	0	0.02	-0.01	0.07	0.04	0	0
132	0.02	-0.01	0.05	0.02	0	0	-0.05	-0.07	0.04	0.01	0	0
144	0	-0.03	0.02	0	0	0	-0.02	-0.02	0	-0.02	0	0
156	-0.02	-0.03	0	-0.01	0	0	-0.02	0	-0.03	-0.03	0	0
168	-0.01	0	-0.02	-0.02	0	0	0.03	0.06	-0.02	0	0	0
180	-0.02	0.01	-0.05	-0.03	0.01	0	0.02	0.04	-0.03	0.01	0	0
192	0	0.03	-0.04	-0.01	0.01	0	-0.03	-0.04	-0.04	0	0.01	0
204	-0.01	0.02	-0.03	0	0.02	0.01	0	-0.03	-0.02	0.01	0.01	0
216	0	0.01	-0.01	0.02	0.02	0.01	0.01	-0.04	0.02	0.03	0.02	0.01
228	0.01	-0.01	0	0.02	0.04	0.02			0.03	0.01	0.03	0.01
240	0.02	-0.02	0.03	0.03	0.06	0.03			0.04	0.01	0.04	0.03
252	0.02	-0.02	0.03	0.01	0.01	-0.01			0.02	-0.02	0.03	0.01
264	0	-0.04	0.03	0	-0.01	-0.04			0	-0.05	-0.01	-0.03
276			0.02	-0.02	-0.01	-0.03					-0.03	-0.04
288			0	-0.05	-0.01	-0.02					-0.01	-0.01
300					-0.03	-0.02					-0.01	0.01
312					-0.03	0					0	0.03
324					-0.01	0.02					0	0.02
336					0.02	0.05					0.01	0.01
348					0.02	0.04					0.02	0
360					0.03	0.02					-0.01	-0.06
372					0	-0.03						
384					-0.02	-0.06						
396					-0.02	-0.08						
$\Sigma e $	0.27	0.29	0.53	0.33	0.38	0.49	0.28	0.35	0.48	0.29	0.24	0.27
$\Sigma e / n$	0.0123	0.0131	0.022	0.0137	0.0115	0.01485	0.0156	0.0194	0.0218	0.01318	0.008	0.009

Lampiran 17. Uji Perbandingan Antar Merk dengan Metode "The Likelihood Ratio (LR) Test" Model Distribusi Weibull di Lemari Kaca

Jam ke-	Merek II			Merek I		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	0.99	1	0.01	1	0.01	
72	0.99	1	0.01	1	0.01	
84	0.98	1	0.02	1	0.02	
96	0.96	1	0.04	1	0.04	
108	0.94	1	0.06	1	0.06	
120	0.91	0.97	0.06	0.99	0.08	
132	0.88	0.93	0.05	0.91	0.03	
144	0.83	0.85	0.02	0.84	0.01	
156	0.77	0.77	0	0.75	-0.02	
168	0.7	0.68	-0.02	0.68	-0.02	
180	0.63	0.58	-0.05	0.57	-0.06	
192	0.55	0.51	-0.04	0.48	-0.07	
204	0.46	0.43	-0.03	0.36	-0.1	
216	0.38	0.37	-0.01	0.26	-0.12	
228	0.3	0.3	0	0.18	-0.12	
240	0.22	0.25	0.03	0.12	-0.1	
252	0.16	0.19	0.03	0.08	-0.08	
264	0.11	0.14	0.03	0.03	-0.08	
276	0.07	0.09	0.02	0	-0.07	
288	0.04	0.04	0	0	-0.04	
		$\Sigma e $	0.53	$\Sigma e $	1.14	

LR = 1.22

Jam ke-	Merek III			Merek II		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	1	1	0	1	0	
72	1	1	0	1	0	
84	1	1	0	1	0	
96	1	1	0	1	0	
108	1	1	0	1	0	
120	1	1	0	0.97	-0.03	
132	1	1	0	0.93	-0.07	
144	1	1	0	0.85	-0.15	
156	1	1	0	0.77	-0.23	
168	1	1	0	0.68	-0.32	
180	0.99	1	0.01	0.58	-0.41	
192	0.99	1	0.01	0.51	-0.48	
204	0.98	1	0.02	0.43	-0.55	
216	0.98	1	0.02	0.37	-0.61	
228	0.96	1	0.04	0.3	-0.66	
240	0.94	1	0.06	0.25	-0.69	
252	0.92	0.93	0.01	0.19	-0.73	
264	0.88	0.87	-0.01	0.14	-0.74	
276	0.84	0.83	-0.01	0.09	-0.75	
288	0.78	0.77	-0.01	0.04	-0.74	
300	0.71	0.68	-0.03	0	-0.71	
312	0.63	0.6	-0.03	0	-0.63	
324	0.53	0.52	-0.01	0	-0.53	
336	0.43	0.45	0.02	0	-0.43	
348	0.33	0.35	0.02	0	-0.33	
360	0.23	0.26	0.03	0	-0.23	
372	0.15	0.15	0	0	-0.15	
384	0.09	0.07	-0.02	0	-0.09	
396	0.04	0.02	-0.02	0	-0.04	
		$\Sigma e $	0.38	$\Sigma e $	10.3	

LR = 19.84

Jam ke-	Merek III			Merek I		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	1	1	0	1	0	
72	1	1	0	1	0	
84	1	1	0	1	0	
96	1	1	0	1	0	
108	1	1	0	1	0	
120	1	1	0	0.99	-0.01	
132	1	1	0	0.91	-0.09	
144	1	1	0	0.84	-0.16	
156	1	1	0	0.75	-0.25	
168	1	1	0	0.68	-0.32	
180	0.99	1	0.01	0.57	-0.42	
192	0.99	1	0.01	0.48	-0.51	
204	0.98	1	0.02	0.36	-0.62	
216	0.98	1	0.02	0.26	-0.72	
228	0.96	1	0.04	0.18	-0.78	
240	0.94	1	0.06	0.12	-0.82	
252	0.92	0.93	0.01	0.08	-0.84	
264	0.88	0.87	-0.01	0.03	-0.85	
276	0.84	0.83	-0.01	0	-0.84	
288	0.78	0.77	-0.01	0	-0.78	
300	0.71	0.68	-0.03	0	-0.71	
312	0.63	0.6	-0.03	0	-0.63	
324	0.53	0.52	-0.01	0	-0.53	
336	0.43	0.45	0.02	0	-0.43	
348	0.33	0.35	0.02	0	-0.33	
360	0.23	0.26	0.03	0	-0.23	
372	0.15	0.15	0	0	-0.15	
384	0.09	0.07	-0.02	0	-0.09	
396	0.04	0.02	-0.02	0	-0.04	
		$\Sigma e $	0.38	$\Sigma e $	11.15	

LR = 21.54

Lampiran 18. Uji Perbandingan Antar Merk dengan Metode "The Likelihood Ratio (LR) Test" Model Distribusi Weibull di Ruang Terbuka

Jam ke-	Merek II			Merek I		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	1	1	0	1	0	
72	0.99	1	0.01	1	0.01	
84	0.98	1	0.02	1	0.02	
96	0.97	1	0.03	1	0.03	
108	0.94	1	0.06	1	0.06	
120	0.91	0.98	0.07	0.93	0.02	
132	0.86	0.9	0.04	0.8	-0.06	
144	0.8	0.8	0	0.74	-0.06	
156	0.73	0.7	-0.03	0.62	-0.11	
168	0.64	0.62	-0.02	0.52	-0.12	
180	0.54	0.51	-0.03	0.37	-0.17	
192	0.43	0.39	-0.04	0.18	-0.25	
204	0.33	0.31	-0.02	0.11	-0.22	
216	0.23	0.25	0.02	0.05	-0.18	
228	0.15	0.18	0.03	0	-0.15	
240	0.09	0.13	0.04	0	-0.09	
252	0.05	0.07	0.02	0	-0.05	
264	0.02	0.02	0	0	-0.02	
Σlei			0.48	Σlei		1.62

LR = 2.28

Jam ke-	Merek III			Merek II		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	1	1	0	1	0	
72	1	1	0	1	0	
84	1	1	0	1	0	
96	1	1	0	1	0	
108	1	1	0	1	0	
120	1	1	0	0.98	-0.02	
132	1	1	0	0.9	-0.1	
144	1	1	0	0.8	-0.2	
156	1	1	0	0.7	-0.3	
168	1	1	0	0.62	-0.38	
180	1	1	0	0.51	-0.49	
192	0.99	1	0.01	0.39	-0.6	
204	0.99	1	0.01	0.31	-0.68	
216	0.98	1	0.02	0.25	-0.73	
228	0.97	1	0.03	0.18	-0.79	
240	0.96	1	0.04	0.13	-0.83	
252	0.93	0.96	0.03	0.07	-0.86	
264	0.89	0.88	-0.01	0.02	-0.87	
276	0.84	0.81	-0.03	0	-0.84	
288	0.76	0.75	-0.01	0	-0.76	
300	0.67	0.66	-0.01	0	-0.67	
312	0.55	0.55	0	0	-0.55	
324	0.42	0.42	0	0	-0.42	
336	0.29	0.3	0.01	0	-0.29	
348	0.18	0.2	0.02	0	-0.18	
360	0.09	0.08	-0.01	0	-0.09	
Σlei			0.24	Σlei		10.65

LR = 20.82

Jam ke-	Merek III			Merek I		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	1	1	0	1	0	
72	1	1	0	1	0	
84	1	1	0	1	0	
96	1	1	0	1	0	
108	1	1	0	1	0	
120	1	1	0	0.93	-0.07	
132	1	1	0	0.8	-0.2	
144	1	1	0	0.74	-0.26	
156	1	1	0	0.62	-0.38	
168	1	1	0	0.52	-0.48	
180	1	1	0	0.37	-0.63	
192	0.99	1	0.01	0.18	-0.81	
204	0.99	1	0.01	0.11	-0.88	
216	0.98	1	0.02	0.05	-0.93	
228	0.97	1	0.03	0	-0.97	
240	0.96	1	0.04	0	-0.96	
252	0.93	0.96	0.03	0	-0.93	
264	0.89	0.88	-0.01	0	-0.89	
276	0.84	0.81	-0.03	0	-0.84	
288	0.76	0.75	-0.01	0	-0.76	
300	0.67	0.66	-0.01	0	-0.67	
312	0.55	0.55	0	0	-0.55	
324	0.42	0.42	0	0	-0.42	
336	0.29	0.3	0.01	0	-0.29	
348	0.18	0.2	0.02	0	-0.18	
360	0.09	0.08	-0.01	0	-0.09	
Σlei			0.24	Σlei		12.19

LR = 23.9

Lampiran 19. Uji Perbandingan Antar Merk dengan Metode "The Likelihood Ratio (LR) Test" Model Distribusi Log Logistik d Lemari Kaca

Jam ke-	Merek II		Merek I		
	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	1	1	0	1	0
72	1	1	0	1	0
84	0.99	1	0.01	1	0.01
96	0.98	1	0.02	1	0.02
108	0.97	1	0.03	1	0.03
120	0.94	0.97	0.03	0.99	0.05
132	0.91	0.93	0.02	0.91	0
144	0.85	0.85	0	0.84	-0.01
156	0.78	0.77	-0.01	0.75	-0.03
168	0.7	0.68	-0.02	0.68	-0.02
180	0.61	0.58	-0.03	0.57	-0.04
192	0.52	0.51	-0.01	0.48	-0.04
204	0.43	0.43	0	0.36	-0.07
216	0.35	0.37	0.02	0.26	-0.09
228	0.28	0.3	0.02	0.18	-0.1
240	0.22	0.25	0.03	0.12	-0.1
252	0.18	0.19	0.01	0.08	-0.1
264	0.14	0.14	0	0.03	-0.11
276	0.11	0.09	-0.02	0	-0.11
288	0.09	0.04	-0.05	0	-0.09
$\Sigma e $		0.33 $\Sigma e $		1.02	

LR = 1.38

Jam ke-	Merek III		Merek II		
	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	1	1	0	1	0
72	1	1	0	1	0
84	1	1	0	1	0
96	1	1	0	1	0
108	1	1	0	1	0
120	1	1	0	0.97	-0.03
132	1	1	0	0.93	-0.07
144	1	1	0	0.85	-0.15
156	1	1	0	0.77	-0.23
168	1	1	0	0.68	-0.32
180	1	1	0	0.58	-0.42
192	1	1	0	0.51	-0.49
204	0.99	1	0.01	0.43	-0.56
216	0.99	1	0.01	0.37	-0.62
228	0.98	1	0.02	0.3	-0.68
240	0.97	1	0.03	0.25	-0.72
252	0.94	0.93	-0.01	0.19	-0.75
264	0.91	0.87	-0.04	0.14	-0.77
276	0.86	0.83	-0.03	0.09	-0.77
288	0.79	0.77	-0.02	0.04	-0.75
300	0.7	0.68	-0.02	0	-0.7
312	0.6	0.6	0	0	-0.6
324	0.5	0.52	0.02	0	-0.5
336	0.4	0.45	0.05	0	-0.4
348	0.31	0.35	0.04	0	-0.31
360	0.24	0.26	0.02	0	-0.24
372	0.18	0.15	-0.03	0	-0.18
384	0.13	0.07	-0.06	0	-0.13
396	0.1	0.02	-0.08	0	-0.1
$\Sigma e $		0.49 $\Sigma e $		10.49	

LR = 20

Jam ke-	Merek III		Merek I		
	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	1	1	0	1	0
72	1	1	0	1	0
84	1	1	0	1	0
96	1	1	0	1	0
108	1	1	0	1	0
120	1	1	0	0.99	-0.01
132	1	1	0	0.91	-0.09
144	1	1	0	0.84	-0.16
156	1	1	0	0.75	-0.25
168	1	1	0	0.68	-0.32
180	1	1	0	0.57	-0.43
192	1	1	0	0.48	-0.52
204	0.99	1	0.01	0.36	-0.63
216	0.99	1	0.01	0.26	-0.73
228	0.98	1	0.02	0.18	-0.8
240	0.97	1	0.03	0.12	-0.85
252	0.94	0.93	-0.01	0.08	-0.86
264	0.91	0.87	-0.04	0.03	-0.88
276	0.86	0.83	-0.03	0	-0.86
288	0.79	0.77	-0.02	0	-0.79
300	0.7	0.68	-0.02	0	-0.7
312	0.6	0.6	0	0	-0.6
324	0.5	0.52	0.02	0	-0.5
336	0.4	0.45	0.05	0	-0.4
348	0.31	0.35	0.04	0	-0.31
360	0.24	0.26	0.02	0	-0.24
372	0.18	0.15	-0.03	0	-0.18
384	0.13	0.07	-0.06	0	-0.13
396	0.1	0.02	-0.08	0	-0.1
$\Sigma e $		0.49 $\Sigma e $		11.34	

LR = 21.7

Lampiran 20. Uji Perbandingan Antar Merk dengan Metode "The Likelihood Ratio (LR) Test" Model Distribusi Log Logistik d Ruang Terbuka

Jam ke	Merek II			Merek I		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	1	1	0	1	0	
72	1	1	0	1	0	
84	0.99	1	0.01	1	0.01	
96	0.99	1	0.01	1	0.01	
108	0.97	1	0.03	1	0.03	
120	0.94	0.98	0.04	0.93	-0.01	
132	0.89	0.9	0.01	0.8	-0.09	
144	0.82	0.8	-0.02	0.74	-0.08	
156	0.73	0.7	-0.03	0.62	-0.11	
168	0.62	0.62	0	0.52	-0.1	
180	0.5	0.51	0.01	0.37	-0.13	
192	0.39	0.39	0	0.18	-0.21	
204	0.3	0.31	0.01	0.11	-0.19	
216	0.22	0.25	0.03	0.05	-0.17	
228	0.17	0.18	0.01	0	-0.17	
240	0.12	0.13	0.01	0	-0.12	
252	0.09	0.07	-0.02	0	-0.09	
264	0.07	0.02	-0.05	0	-0.07	
	$\Sigma e $	0.29		$\Sigma e $	1.59	

LR = 2.6

Jam ke	Merek III			Merek II		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	1	1	0	1	0	
72	1	1	0	1	0	
84	1	1	0	1	0	
96	1	1	0	1	0	
108	1	1	0	1	0	
120	1	1	0	0.98	-0.02	
132	1	1	0	0.9	-0.1	
144	1	1	0	0.8	-0.2	
156	1	1	0	0.7	-0.3	
168	1	1	0	0.62	-0.38	
180	1	1	0	0.51	-0.49	
192	1	1	0	0.39	-0.61	
204	1	1	0	0.31	-0.69	
216	0.99	1	0.01	0.25	-0.74	
228	0.99	1	0.01	0.18	-0.81	
240	0.97	1	0.03	0.13	-0.84	
252	0.95	0.96	0.01	0.07	-0.88	
264	0.91	0.88	-0.03	0.02	-0.89	
276	0.85	0.81	-0.04	0	-0.85	
288	0.76	0.75	-0.01	0	-0.76	
300	0.65	0.66	0.01	0	-0.65	
312	0.52	0.55	0.03	0	-0.52	
324	0.4	0.42	0.02	0	-0.4	
336	0.29	0.3	0.01	0	-0.29	
348	0.2	0.2	0	0	-0.2	
360	0.14	0.08	-0.06	0	-0.14	
	$\Sigma e $	0.27		$\Sigma e $	10.76	

LR = 20.98

Jam ke	Merek III			Merek I		
	Model	Observasi	Residu	Observasi	Residu	
12	1	1	0	1	0	
24	1	1	0	1	0	
36	1	1	0	1	0	
48	1	1	0	1	0	
60	1	1	0	1	0	
72	1	1	0	1	0	
84	1	1	0	1	0	
96	1	1	0	1	0	
108	1	1	0	1	0	
120	1	1	0	0.93	-0.07	
132	1	1	0	0.8	-0.2	
144	1	1	0	0.74	-0.26	
156	1	1	0	0.62	-0.38	
168	1	1	0	0.52	-0.48	
180	1	1	0	0.37	-0.63	
192	1	1	0	0.18	-0.82	
204	1	1	0	0.11	-0.89	
216	0.99	1	0.01	0.05	-0.94	
228	0.99	1	0.01	0	-0.99	
240	0.97	1	0.03	0	-0.97	
252	0.95	0.96	0.01	0	-0.95	
264	0.91	0.88	-0.03	0	-0.91	
276	0.85	0.81	-0.04	0	-0.85	
288	0.76	0.75	-0.01	0	-0.76	
300	0.65	0.66	0.01	0	-0.65	
312	0.52	0.55	0.03	0	-0.52	
324	0.4	0.42	0.02	0	-0.4	
336	0.29	0.3	0.01	0	-0.29	
348	0.2	0.2	0	0	-0.2	
360	0.14	0.08	-0.06	0	-0.14	
	$\Sigma e $	0.27		$\Sigma e $	12.3	

LR = 24.06

Lampiran 21. Uji Perbandingan Antar Perlakuan dengan Metode "The Likelihood Ratio (LR) Test" Model Distribusi Weibull

Merek I					
Jam	Lemari Kaca		Ruang Terbuka		
ke	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	1	1	0	1	0
72	0.99	1	0.01	1	0.01
84	0.99	1	0.01	1	0.01
96	0.98	1	0.02	1	0.02
108	0.96	1	0.04	1	0.04
120	0.93	0.99	0.06	0.93	0
132	0.89	0.91	0.02	0.8	-0.09
144	0.84	0.84	0	0.74	-0.1
156	0.77	0.75	-0.02	0.62	-0.15
168	0.69	0.68	-0.01	0.52	-0.17
180	0.59	0.57	-0.02	0.37	-0.22
192	0.48	0.48	0	0.18	-0.3
204	0.37	0.36	-0.01	0.11	-0.26
216	0.26	0.26	0	0.05	-0.21
228	0.17	0.18	0.01	0	-0.17
240	0.1	0.12	0.02	0	-0.1
252	0.06	0.08	0.02	0	-0.06
264	0.03	0.03	0	0	-0.03
$\Sigma e $		0.27		$\Sigma e $ 1.94	

LR 3.34

Merek II					
Jam	Lemari Kaca		Ruang Terbuka		
ke	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	0.99	1	0.01	1	0.01
72	0.99	1	0.01	1	0.01
84	0.98	1	0.02	1	0.02
96	0.96	1	0.04	1	0.04
108	0.94	1	0.06	1	0.06
120	0.91	0.97	0.06	0.98	0.07
132	0.88	0.93	0.05	0.9	0.02
144	0.83	0.85	0.02	0.8	-0.03
156	0.77	0.77	0	0.7	-0.07
168	0.7	0.68	-0.02	0.62	-0.08
180	0.63	0.58	-0.05	0.51	-0.12
192	0.55	0.51	-0.04	0.39	-0.16
204	0.46	0.43	-0.03	0.31	-0.15
216	0.38	0.37	-0.01	0.25	-0.13
228	0.3	0.3	0	0.18	-0.12
240	0.22	0.25	0.03	0.13	-0.09
252	0.16	0.19	0.03	0.07	-0.09
264	0.11	0.14	0.03	0.02	-0.09
276	0.07	0.09	0.02	0	-0.07
288	0.04	0.04	0	0	-0.04
$\Sigma e $		0.53		$\Sigma e $ 1.47	

LR 1.88

Merek III					
Jam	Lemari Kaca		Ruang Terbuka		
ke	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	1	1	0	1	0
72	1	1	0	1	0
84	1	1	0	1	0
96	1	1	0	1	0
108	1	1	0	1	0
120	1	1	0	1	0
132	1	1	0	1	0
144	1	1	0	1	0
156	1	1	0	1	0
168	1	1	0	1	0
180	0.99	1	0.01	1	0.01
192	0.99	1	0.01	1	0.01
204	0.98	1	0.02	1	0.02
216	0.98	1	0.02	1	0.02
228	0.96	1	0.04	1	0.04
240	0.94	1	0.06	1	0.06
252	0.92	0.93	0.01	0.96	0.04
264	0.88	0.87	-0.01	0.88	0
276	0.84	0.83	-0.01	0.81	-0.03
288	0.78	0.77	-0.01	0.75	-0.03
300	0.71	0.68	-0.03	0.66	-0.05
312	0.63	0.6	-0.03	0.55	-0.08
324	0.53	0.52	-0.01	0.42	-0.11
336	0.43	0.45	0.02	0.3	-0.13
348	0.33	0.35	0.02	0.2	-0.13
360	0.23	0.26	0.03	0.08	-0.15
372	0.15	0.15	0	0	-0.15
384	0.09	0.07	-0.02	0	-0.09
396	0.04	0.02	-0.02	0	-0.04
$\Sigma e $		0.38		$\Sigma e $ 1.19	

LR 1.62

Lampiran 22. Uji Perbandingan Antar Perlakuan dengan Metode "The Likelihood Ratio (LR) Test" Model Distribusi Log logistik

Merek I					
Jam	Lemari Kaca		Ruang Terbuka		
ke	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	1	1	0	1	0
72	1	1	0	1	0
84	1	1	0	1	0
96	1	0.99	0.01	1	0.01
108	1	0.98	0.02	1	0.02
120	0.99	0.96	0.03	0.93	-0.03
132	0.91	0.92	-0.01	0.8	-0.12
144	0.84	0.87	-0.03	0.74	-0.13
156	0.75	0.78	-0.03	0.62	-0.16
168	0.68	0.68	0	0.52	-0.16
180	0.57	0.56	0.01	0.37	-0.19
192	0.48	0.45	0.03	0.18	-0.27
204	0.36	0.34	0.02	0.11	-0.23
216	0.26	0.25	0.01	0.05	-0.2
228	0.18	0.19	-0.01	0	-0.19
240	0.12	0.14	-0.02	0	-0.14
252	0.08	0.1	-0.02	0	-0.1
264	0.03	0.07	-0.04	0	-0.07
$\Sigma e $		0.29		$\Sigma e $ 2.02	

LR 3.46

Merek II					
Jam	Lemari Kaca		Ruang Terbuka		
ke	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	1	1	0	1	0
72	1	1	0	1	0
84	0.99	1	0.01	1	0.01
96	0.98	1	0.02	1	0.02
108	0.97	1	0.03	1	0.03
120	0.94	0.97	0.03	0.98	0.04
132	0.91	0.93	0.02	0.9	-0.01
144	0.85	0.85	0	0.8	-0.05
156	0.78	0.77	-0.01	0.7	-0.08
168	0.7	0.68	-0.02	0.62	-0.08
180	0.61	0.58	-0.03	0.51	-0.1
192	0.52	0.51	-0.01	0.39	-0.13
204	0.43	0.43	0	0.31	-0.12
216	0.35	0.37	0.02	0.25	-0.1
228	0.28	0.3	0.02	0.18	-0.1
240	0.22	0.25	0.03	0.13	-0.09
252	0.18	0.19	0.01	0.07	-0.11
264	0.14	0.14	0	0.02	-0.12
276	0.11	0.09	-0.02	0	-0.11
288	0.09	0.04	-0.05	0	-0.09
$\Sigma e $		0.33		$\Sigma e $ 1.39	

LR 2.12

Merek III					
Jam	Lemari Kaca		Ruang Terbuka		
ke	Model	Observasi	Residu	Observasi	Residu
12	1	1	0	1	0
24	1	1	0	1	0
36	1	1	0	1	0
48	1	1	0	1	0
60	1	1	0	1	0
72	1	1	0	1	0
84	1	1	0	1	0
96	1	1	0	1	0
108	1	1	0	1	0
120	1	1	0	1	0
132	1	1	0	1	0
144	1	1	0	1	0
156	1	1	0	1	0
168	1	1	0	1	0
180	1	1	0	1	0
192	1	1	0	1	0
204	0.99	1	0.01	1	0.01
216	0.99	1	0.01	1	0.01
228	0.98	1	0.02	1	0.02
240	0.97	1	0.03	1	0.03
252	0.94	0.93	-0.01	0.96	0.02
264	0.91	0.87	-0.04	0.88	-0.03
276	0.86	0.83	-0.03	0.81	-0.05
288	0.79	0.77	-0.02	0.75	-0.04
300	0.7	0.68	-0.02	0.66	-0.04
312	0.6	0.6	0	0.55	-0.05
324	0.5	0.52	0.02	0.42	-0.08
336	0.4	0.45	0.05	0.3	-0.1
348	0.31	0.35	0.04	0.2	-0.11
360	0.24	0.26	0.02	0.08	-0.16
372	0.18	0.15	-0.03	0	-0.18
384	0.13	0.07	-0.06	0	-0.13
396	0.1	0.02	-0.08	0	-0.1
$\Sigma e $		0.49		$\Sigma e $ 1.16	

LR 1.34

Lampiran 23. Ciri Jamur Yang Muncul Pada Roti Tawar Pada Lemari Kaca

Jam ke-	Jumlah roti pada Lemari kaca					
	Merek I		Merek II		Merek III	
	Jumlah	Warna jamur	Jumlah	Warna jamur	Jumlah	Warna jamur
0 s/d 84	-		-		-	
96	1	Hitam	-		-	
108	8	Hitam	3	Hitam	-	
120	7	Hitam	4	Hitam	-	
132	9	Hitam	8	Hitam	-	
		Hijau tua		Hijau		
144	7	Hitam	8	Hitam	-	
		Hijau		Hijau tua		
156	11	Hitam	9	Hitam	-	
		Hijau		Abu-abu kecoklatan		
168	9	Hitam	10	Hitam	-	
		Hijau tua		Hijau tua		
		Putih berbulu		Hijau		
180	12	Hitam	7	Hitam	-	
		Hijau tua		Hijau		
		Abu-abu kecoklatan		Merah muda		
192	10	Hitam	8	Hitam	-	
		Hijau tua		Putih berbulu		
		Putih berbulu		Abu-abu kecoklatan		
204	8	Hitam	6	Hitam	-	
		Putih berbulu		Merah muda		
216	6	Hitam	7	Hitam	-	
		Merah muda		Putih berbulu		
228	4	Hitam	5	Hitam	-	
		Hijau tua		Hijau tua		
240	5	Hitam	6	Hitam	7	Hitam
				Hijau		
252	3	Hitam	5	Hitam	6	Hitam
264	-	-	5	Hitam	4	Hitam
						Hijau
276	-	-	5	Hitam	6	Hitam
						Putih berbulu
288	-	-	4	Hitam	9	Hitam
						Hijau
300	-	-	-	-	8	Hjau
312	-	-	-	-	8	Hitam
						Putih berbulu
324	-	-	-	-	7	Hijau
336	-	-	-	-	10	Hitam
						Hijau
348	-	-	-	-	9	Merah muda
						Hitam
360	-	-	-	-	11	Putih berbulu
						Hitam
372	-	-	-	-	8	Merah muda
384	-	-	-	-	5	Hitam
396	-	-	-	-	2	Hitam

Keterangan :

Merek I = Merek Mahkota, Merek II = Merek Mutiara, Merek III = Merek Bon-Bon

Lampiran 24. Ciri Jamur Yang Muncul Pada Roti Tawar Pada Ruang Terbuka.

Jam ke-	Jumlah roti pada Ruang Terbuka					
	Merek I		Merek II		Merek III	
	Jumlah	Warna jamur	Jumlah	Warna jamur	Jumlah	Warna jamur
0 s/d 96	-		-		-	
108	7	Hitam	2	Hitam	-	
120	13	Hitam	8	Hitam	-	
132	6	Hitam	10	Hitam	-	
144	12	Hijau	10	Hijau	-	
		Hitam		Hitam		
156	10	Hijau	8	Hijau tua	-	
		Abu-abu kecoklatan		Putih berbulu		
		Hitam		Hitam		
168	15	Putih berbulu	11	Putih berbulu	-	
		Hijau		Abu-abu kecoklatan		
		Hitam		Hitam		
180	19	Hijau tua	12	Hijau Kebiruan	-	
		Hijau		Merah muda		
		Abu-abu kecoklatan		Hitam		
		Hitam		Hijau kebiruan		
192	7	Hitam	8	Merah muda	-	
		Merah muda		Hitam		
		Putih berbulu		Hijau kebiruan		
204	6	Hitam	6	Hitam	-	
		Merah muda		Merah muda		
216	5	Hitam	7	Hitam	-	
				Putih berbulu		
228	-	-	5	Hitam	-	
240	-	-	6	Hitam	4	Hitam
				Hijau kebiruan		
252	-	-	5	Hitam	8	Hitam
264	-	-	2	Hijau kebiruan	7	Hitam
276	-	-	-	-	6	Hitam
288	-	-	-	-	9	Putih berbulu
						Hitam
300	-	-	-	-	11	Hijau kebiruan
						Hjau kebiruan
312	-	-	-	-	13	Merah muda
						Hitam
						Hijau kebiruan
						Merah muda
324	-	-	-	-	12	Putih berbulu
336	-	-	-	-	10	Hijau kebiruan
						Hitam
348	-	-	-	-	12	Hijau kebiruan
						Merah muda
360	-	-	-	-	8	Hitam
						Hitam

Keterangan :

Merek I = Merek Mahkota, Merek II = Merek Mutiara, Merek III = Merek Bon-Bon

Lampiran 25. Deskripsi Jamur yang Ditemukan pada Sampel.

No	Nama Jamur	Warna koloni	Warna Dasar Koloni	Konidia	Konidiofor	Vesikula	Habitat
1	<i>Aspergillus niger</i>	Hitam – coklat	Kuning	Radial, hitam	Cokelat, dinding tipis, <i>hyaline</i>	Bulat-semi bulat	Produk pangan dengan cara <i>sun-drying</i> Gandum, sereal.
2	<i>Aspergillus fumigatus</i>	Hijau tua	Kuning	Kolumnar, hijau	Hijau, dinding lunak, pendek	Bulat-semi bulat	
3.	<i>Aspergillus penicillioides</i>	Hijau tua	Putih	Radiate, kemudian menjadi kolumnar	Dinding tipis, <i>hyaline</i>	Semi bulat	Kacang tanah, produk bakery, buah yang dikeringkan
4.	<i>Aspergillus candidus</i>	Putih	Putih	Radial, putih menjadi kuning kecoklatan	Dinding halus, <i>hyaline</i>	Bulat-semi bulat	Pangan yang disimpan (<i>storage fungus</i>)
5.	<i>Rhizopus oryzae</i>	Putih, lama kelamaan menjadi abu-abu	Putih	Tidak ada, mempunyai kolumnela	Tidak ada, mempunyai sporangiofor yang muncul langsung dari stolon tanpa rhizoid	Tidak ada, punya stolon halus atau agak kasar	kacang tanah, padi, saur, buah yang rusak, sayuran
6.	<i>Mucor racemosus</i>	Putih menjadi abu-abu kecoklatan	Putih kekuningan	Tidak ada, mempunyai kolumnela ellips yang lama kelamaan bulat	Tidak ada, mempunyai sporangiofor yang pendek dan biasanya bengkok	-	Makanan dari susu, gandum, nasi, kacang
7.	<i>Monascus ruber</i>	Merah bata	Coklat kemerahan	Rantai	Askopora kekuningan, bentuk ellips dengan dinding <i>hyaline</i>	-	Nasi, gandum, sereal, kedelai, shorgum