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**Lampiran 1. Data Pernelitian Severitas Klaim Asuransi PT.Jasa
Raharja Cabang Sulawesi Selatan Tahun 2018-2022**

2018

Januari	Februari	Maret	April	Mei	Juni
120.881.243	274.536.913	485.119.790	262.911.850	178.717.977	83.757.098
458.776.484	526.125.064	723.537.987	259.077.378	327.036.061	359.701.736
506.341.423	744.779.558	1.466.999.440	647.159.146	742.587.310	485.106.158
1.781.575.355	1.870.671.189	1.398.739.828	2.188.226.933	2.113.788.158	2.348.029.556
1.168.560.257	761.666.908	485.884.220	1.483.476.053	1.081.687.207	1.423.226.389
673.480.912	708.144.886	529.393.583	613.600.993	669.062.515	691.111.104
490.062.728	411.806.105	406.478.539	505.088.105	775.897.342	511.053.821
746.627.165	523.565.674	771.807.502	523.185.615	417.851.896	702.656.932
664.806.173	551.624.898	742.196.966	484.577.908	681.926.576	636.627.923
626.503.206	360.303.341	576.700.746	743.528.396	836.607.402	652.574.601
608.679.270	497.436.995	760.781.632	663.367.994	614.737.519	809.404.294
640.475.311	311.395.871	355.157.417	306.021.925	315.430.069	528.802.829
337.180.268	398.847.866	366.057.905	527.906.039	445.355.566	580.578.813
484.782.524	358.139.603	373.699.963	79.939.289	301.864.067	259.400.828
368.347.236	92.557.905	192.098.955	584.882.757	438.640.873	252.981.288
105.934.454	19.812.050	59.129.985	237.995.315	73.545.780	272.248.830
70.000.000	108.854.778		70.901.000	116.041.914	66.270.298
69.076.000			2.608.000	4.005.336	101.628.991
					71.671.628

Juli	Agustus	September	Oktober	November	Desember
439.867.667	309.822.652	212.368.454	113.539.655	209.175.022	106.352.407
570.493.403	545.608.705	385.727.362	463.193.524	232.701.975	266.752.667
697.807.076	800.480.063	605.827.290	572.069.215	782.544.350	562.726.098
1.651.700.824	2.352.403.331	2.125.080.930	2.036.064.662	1.461.369.360	1.895.561.842
1.207.234.824	1.385.462.473	1.034.409.730	1.069.057.606	723.224.193	1.169.152.061
827.530.663	796.728.905	611.236.408	850.926.744	515.037.455	903.019.160
599.981.100	675.551.903	770.634.526	609.416.996	578.470.489	354.711.740
545.041.764	662.239.806	273.714.445	616.317.183	735.068.570	537.406.622
724.003.635	724.001.103	404.586.880	510.085.688	326.502.944	586.274.858
605.409.319	592.746.829	630.133.828	645.407.111	770.733.984	673.563.319
1.091.278.770	714.879.344	538.584.215	463.196.135	453.830.690	777.678.313
887.582.009	495.986.985	526.111.929	798.316.963	374.316.688	470.833.699
496.860.216	458.850.736	498.008.942	403.697.793	387.714.543	372.207.587
681.664.362	343.381.983	238.489.207	239.462.091	277.272.225	303.207.557
490.118.843	184.096.602	427.989.755	133.393.204	447.173.769	448.059.018
128.334.076	267.601.206	70.730.263	129.549.683	34.701.237	5.712.506
111.224.532	28.304.329	2.934.713	130.193.862	112.626.938	49.023.746
	50.000.000	56.138.259	21.125.632	121.308.040	24.242.610
	16.587.977			50.000.000	55.567.440

2019

Januari	Februari	Maret	April	Mei	Juni
341.284.985	92.749.684	221.169.233	218.702.136	240.085.689	288.322.994
271.350.768	449.963.603	605.337.472	285.989.241	215.111.106	300.448.692
770.702.783	599.588.899	701.331.256	771.591.314	617.646.275	646.824.009
1.814.702.991	1.722.759.433	1.939.025.595	1.563.180.554	2.500.067.719	1.770.637.577
853.273.612	1.185.561.177	1.115.160.596	997.910.151	1.201.976.162	1.365.182.850
735.626.463	584.599.875	704.324.540	444.228.112	851.345.440	852.732.637
559.503.655	542.630.332	536.188.512	318.674.529	644.239.038	688.835.574
666.657.589	651.622.908	673.714.734	369.431.824	457.252.232	727.977.674
258.453.586	612.860.061	410.310.641	703.979.809	576.475.355	745.647.309
609.796.839	505.293.705	431.997.885	503.574.193	615.428.124	715.367.994
415.662.401	770.774.799	593.772.248	628.798.671	626.632.831	928.017.992
555.594.601	502.289.587	491.706.430	364.384.188	499.358.232	683.404.814
309.852.069	426.303.791	687.712.821	442.783.603	800.016.025	344.325.930
442.275.600	261.028.699	445.338.731	289.232.832	338.317.964	335.132.104
254.529.543	208.910.702	169.742.708	140.253.881	404.108.461	428.789.827
3.849.514	278.169.105	103.473.109	133.902.663	135.885.720	102.253.406
1.922.013	50.000.000	135.898.452	79.665.820	143.043.120	114.410.089
104.000.000	58.737.167		63.339.474		50.000.000
67.906.000					

Juli	Agustus	September	Oktober	November	Desember
215.805.641	560.860.764	378.355.500	382.889.962	120.389.294	226.114.780
292.061.970	512.151.181	564.315.633	565.346.893	224.681.725	238.388.481
478.263.212	565.021.606	584.643.396	721.939.311	481.985.281	634.266.355
1.420.495.709	1.982.627.439	1.912.665.930	2.169.207.649	1.618.375.611	1.488.420.626
830.885.991	1.212.542.111	1.391.167.606	875.706.772	1.166.454.688	927.589.268
771.348.823	673.707.395	573.919.556	513.919.430	596.482.949	382.720.425
317.614.398	715.320.706	597.179.673	634.433.099	504.891.734	531.713.124
535.300.729	667.518.575	776.533.592	555.985.316	607.969.903	677.109.020
432.463.895	473.917.896	556.516.470	545.816.249	468.123.781	699.769.099
720.771.696	902.968.863	588.052.053	598.973.129	515.301.333	557.732.314
578.224.460	838.336.565	685.151.000	360.704.577	660.680.509	590.462.947
920.860.794	503.533.308	540.304.699	717.633.977	683.531.505	435.695.113
476.356.063	515.558.889	679.265.482	332.263.118	316.358.223	452.826.442
543.965.332	329.947.565	477.537.393	252.988.488	309.520.857	326.788.566
465.653.973	646.592.056	299.680.770	320.368.972	276.390.424	152.066.656
230.219.332	66.531.772	158.093.629	123.794.643	230.190.577	137.954.636
94.380.533	102.221.792	205.845.469	238.158.768	71.084.396	26.033.342
7.128.350		50.000.000	3.275.798	15.775.909	11.484.250
59.869.446			64.064.816	9.091.500	11.624.200
				70.000.000	

2020

Januari	Februari	Maret	April	Mei	Juni
59.970.565	255.317.208	125.129.207	178.286.923	74.670.505	307.151.675
364.758.091	304.934.276	242.213.852	68.864.395	199.402.772	341.271.949
237.643.685	688.040.402	484.437.743	312.444.505	194.631.478	547.379.498
1.755.902.008	1.423.527.364	1.637.664.229	694.333.980	861.889.766	1.589.514.803
732.743.238	958.832.113	878.526.618	604.811.829	983.400.620	781.930.052
708.447.669	445.616.036	522.892.147	619.479.626	313.748.881	550.740.007
590.190.767	605.839.028	410.605.860	450.915.842	120.444.352	347.420.054
428.370.196	457.331.105	447.894.830	182.051.571	327.865.494	201.616.751
398.984.496	319.211.787	548.762.874	257.585.091	251.886.159	521.765.257
565.109.596	492.348.776	444.920.078	434.304.618	481.557.205	486.403.193
236.868.872	394.061.136	703.923.207	412.226.732	301.195.922	415.241.635
247.839.135	477.758.747	436.917.938	226.530.699	398.047.430	479.191.161
681.300.729	374.388.021	631.773.079	360.401.423	174.122.319	130.177.658
301.606.831	216.545.064	331.625.765	302.908.015	175.729.723	306.498.019
260.730.118	427.442.026	206.633.158	97.688.788	217.223.853	225.632.674
140.178.492	40.589.503	103.277.828	108.729.936	170.347.516	50.915.926
25.318.526	127.978.894	106.815.456	50.000.000	51.138.041	
58.844.106	66.062.900	11.717.505	2.222.884		
50.000.000					

Juli	Agustus	September	Oktober	November	Desember
83.249.415	240.509.001	216.608.830	139.552.700	172.290.591	172.290.591
452.869.136	280.188.383	380.681.346	160.409.540	205.829.617	205.829.617
277.445.638	386.998.761	511.583.000	401.582.383	442.710.276	442.710.276
1.382.485.304	1.130.556.461	1.340.353.785	1.366.301.891	1.539.803.248	1.539.803.248
765.249.388	876.581.716	952.597.970	1.218.772.908	1.256.934.817	1.256.934.817
403.857.817	456.745.854	658.983.262	490.124.250	650.091.185	650.091.185
326.199.271	453.626.143	305.613.662	626.746.142	225.352.899	225.352.899
314.549.872	423.472.017	499.259.779	302.841.218	514.243.734	514.243.734
351.247.165	462.152.358	387.460.729	380.264.141	332.049.777	332.049.777
269.918.295	435.703.857	624.316.428	687.396.942	568.893.465	568.893.465
276.245.519	476.285.712	602.912.408	532.387.104	454.442.584	454.442.584
276.172.400	432.354.938	668.279.390	378.395.067	606.976.768	606.976.768
185.835.579	481.132.413	851.237.055	357.140.824	374.109.075	374.109.075
94.920.757	309.693.374	266.203.773	295.301.475	102.624.952	102.624.952
59.258.842	327.864.056	27.617.356	180.387.907	221.150.044	221.150.044
15.870.509	158.455.995	333.500.984	57.822.742	117.719.645	117.719.645
140.527.171	50.000.000	123.046.734	53.260.605	201.581.842	201.581.842
6.115.934			51.359.000	14.991.432	14.991.432
				100.000.000	100.000.000

2021

Januari	Februari	Maret	April	Mei	Juni
120.881.243	274.536.913	485.119.790	262.911.850	178.717.977	83.757.098
458.776.484	526.125.064	723.537.987	259.077.378	327.036.061	359.701.736
506.341.423	744.779.558	1.466.999.440	647.159.146	742.587.310	485.106.158
1.781.575.355	1.870.671.189	1.398.739.828	2.188.226.933	2.113.788.158	2.348.029.556
1.168.560.257	761.666.908	485.884.220	1.483.476.053	1.081.687.207	1.423.226.389
673.480.912	708.144.886	529.393.583	613.600.993	669.062.515	691.111.104
490.062.728	411.806.105	406.478.539	505.088.105	775.897.342	511.053.821
746.627.165	523.565.674	771.807.502	523.185.615	417.851.896	702.656.932
664.806.173	551.624.898	742.196.966	484.577.908	681.926.576	636.627.923
626.503.206	360.303.341	576.700.746	743.528.396	836.607.402	652.574.601
608.679.270	497.436.995	760.781.632	663.367.994	614.737.519	809.404.294
640.475.311	311.395.871	355.157.417	306.021.925	315.430.069	528.802.829
337.180.268	398.847.866	366.057.905	527.906.039	445.355.566	580.578.813
484.782.524	358.139.603	373.699.963	79.939.289	301.864.067	259.400.828
368.347.236	92.557.905	192.098.955	584.882.757	438.640.873	252.981.288
105.934.454	19.812.050	59.129.985	237.995.315	73.545.780	272.248.830
70.000.000	108.854.778		70.901.000	116.041.914	66.270.298
69.076.000			2.608.000	4.005.336	101.628.991
					71.671.628

Juli	Agustus	September	Oktober	November	Desember
439.867.667	309.822.652	212.368.454	113.539.655	209.175.022	106.352.407
570.493.403	545.608.705	385.727.362	463.193.524	232.701.975	266.752.667
697.807.076	800.480.063	605.827.290	572.069.215	782.544.350	562.726.098
1.651.700.824	2.352.403.331	2.125.080.930	2.036.064.662	1.461.369.360	1.895.561.842
1.207.234.824	1.385.462.473	1.034.409.730	1.069.057.606	723.224.193	1.169.152.061
827.530.663	796.728.905	611.236.408	850.926.744	515.037.455	903.019.160
599.981.100	675.551.903	770.634.526	609.416.996	578.470.489	354.711.740
545.041.764	662.239.806	273.714.445	616.317.183	735.068.570	537.406.622
724.003.635	724.001.103	404.586.880	510.085.688	326.502.944	586.274.858
605.409.319	592.746.829	630.133.828	645.407.111	770.733.984	673.563.319
1.091.278.770	714.879.344	538.584.215	463.196.135	453.830.690	777.678.313
887.582.009	495.986.985	526.111.929	798.316.963	374.316.688	470.833.699
496.860.216	458.850.736	498.008.942	403.697.793	387.714.543	372.207.587
681.664.362	343.381.983	238.489.207	239.462.091	277.272.225	303.207.557
490.118.843	184.096.602	427.989.755	133.393.204	447.173.769	448.059.018
128.334.076	267.601.206	70.730.263	129.549.683	34.701.237	5.712.506
111.224.532	28.304.329	2.934.713	130.193.862	112.626.938	49.023.746
	50.000.000	56.138.259	21.125.632	121.308.040	24.242.610
	16.587.977			50.000.000	55.567.440

2022

Januari	Februari	Maret	April	Mei	Juni
242.861.299	157.160.764	190.587.936	115.095.888	106.789.484	88.485.160
222.007.313	431.454.724	180.057.630	229.382.869	468.914.801	346.498.792
822.767.592	470.789.391	435.733.271	681.436.814	1.063.995.399	775.851.365
1.438.870.303	1.637.764.680	1.813.243.499	1.809.922.594	2.090.465.796	1.647.098.646
885.016.317	946.164.115	1.205.184.908	1.720.470.882	1.298.491.656	1.381.332.679
612.669.930	710.456.392	567.183.916	574.296.622	763.123.863	800.184.776
367.961.036	376.412.195	246.882.922	569.429.632	341.457.309	433.519.201
738.870.256	280.717.642	369.945.839	731.972.131	777.793.339	345.093.925
424.128.697	322.482.252	610.956.584	458.728.655	490.201.433	470.657.545
447.707.853	257.880.109	602.975.778	351.554.886	969.318.673	456.197.436
601.276.857	381.571.563	829.125.096	650.265.549	897.392.181	636.663.966
476.043.060	345.097.958	429.596.878	610.492.916	621.424.064	594.575.328
423.898.831	341.552.302	543.442.380	453.238.585	477.651.009	473.771.956
336.084.902	344.779.010	658.111.043	256.603.578	402.316.785	466.516.023
221.808.224	296.199.633	184.629.345	326.361.034	447.557.901	138.768.287
62.742.658	106.789.709	17.625.793	177.631.502	140.870.754	382.782.734
50.000.000	179.299.510	71.532.969	113.251.049	136.027.946	70.000.000
20.000.000	19.933.109	50.000.000	50.000.000	138.298.538	50.000.000
50.000.000			4.617.646	57.906.739	52.588.654
			50.000.000		

Juli	Agustus	September	Oktober	November	Desember
226.094.381	98.674.369	98.674.369	137.459.988	226.641.333	111.447.438
312.214.238	408.982.229	408.982.229	315.340.550	510.451.212	254.605.617
653.753.232	758.940.291	758.940.291	622.036.602	746.504.693	516.147.763
1.952.097.981	1.793.173.055	1.793.173.055	1.904.501.856	1.664.485.894	1.163.145.799
1.319.199.002	879.510.567	879.510.567	962.000.439	1.214.411.205	1.004.878.140
472.854.434	955.363.196	955.363.196	684.727.587	746.121.342	586.449.664
593.838.054	463.786.148	463.786.148	587.150.476	428.737.559	232.357.000
512.174.672	426.291.977	426.291.977	593.517.131	400.288.074	546.181.932
340.354.731	353.243.213	353.243.213	620.375.968	400.142.145	321.577.360
546.391.980	362.900.178	362.900.178	597.201.922	423.759.806	583.819.890
997.868.878	1.022.364.730	1.022.364.730	843.739.124	528.262.036	584.406.461
640.759.131	786.542.251	786.542.251	437.968.370	538.297.444	389.992.912
323.885.652	254.190.362	254.190.362	450.134.224	424.546.897	388.562.930
374.171.575	291.801.728	291.801.728	355.933.557	321.976.813	537.252.703
400.290.799	272.697.320	272.697.320	335.709.494	262.745.242	383.545.055
127.232.226	266.563.867	266.563.867	23.664.754	55.008.136	120.000.000
79.131.634	74.000.000	74.000.000	77.572.770	50.000.000	72.189.865
	3.327.600	3.327.600		70.000.000	
	17.669.900	17.669.900		50.000.000	
				11.608.250	

Lampiran 2. Estimasi Parameter

- **Statistika Deskriptif**

```
> library(readxl)
> Rekapitulasi <- read_excel("D:/bismilaah/data/Rekapitulasi.xlsx")
> View(Rekapitulasi)
> x <- (Rekapitulasi$`Besar Klaim`)
> summary(x)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
3.248e+05 2.302e+08 4.357e+08 5.002e+08 6.278e+08 6.204e+09
```

- **Estimasi Distribusi Lognormal**

```
library(nortest)
> library(maxLik)
> library(readxl)
> library(fitdistrplus)
> Rekapitulasi <- read_excel("D:/bismilaah/data/Rekapitulasi.xlsx")
> x <- log(Rekapitulasi$`Besar Klaim`)
> mu_start <- mean(x)
> sigma_start <- sd(x)
> start_val <- c(mu_start, sigma_start)
> n <- length(x)
> loglik <- function(param) {
+   mu <- param[1]
+   sigma <- param[2]
+   ll <- -n * log(sqrt(2 * pi * sigma^2)) - sum((log(x) - mu)^2) / (2 * sigma^2)
+   ll
+ }
> res <- maxLik(loglik, start=start_val)
> summary(res)
```

```
-----
Maximum Likelihood estimation
Newton-Raphson maximisation, 9 iterations
Return code 1: gradient close to zero (gradtol)
Log-Likelihood: 1498.775
2 free parameters
Estimates:
  Estimate Std. error t value Pr(> t)
[1,] 2.973664  0.001872 1588.34 <2e-16 ***
[2,] 0.062178  0.001324  46.97 <2e-16 ***
---
```


- **Estimasi Parameter Distribusi Loglogistik**

```
library(nortest)
> library(maxLik)
> library(readxl)
> library(fitdistrplus)
> Rekapitulasi <- read_excel("D:/bismilaah/data/Rekapitulasi.xlsx")
> x <- log(Rekapitulasi$`Besar Klaim`)
> mu_start <- mean(x)
> sigma_start <- sd(x)
> start_val <- c(mu_start, sigma_start)
> n <- length(x)
> loglik_loglogistic <- function(n) {
+   eta <- n[1]
+   gamma <- n[2]
+   sum((gamma - 1) * log(gamma / eta) + (gamma - 1) * log(x / eta) - 2 * log(1
+ (x / eta)^gamma)) return(sum_term)
+   ll
+ }
> res <- maxLik(loglik_loglogistic, start = start_val)
-----
Maximum Likelihood estimation
Newton-Raphson maximisation, 10 iterations
Return code 8: successive function values within relative tolerance limit (reltol)
Log-Likelihood: 127553333
2 free parameters
Estimates:
      Estimate Std. error   t value Pr(> t)
[1,] 1.982e+05 0.000e+00      Inf <2e-16 ***
[2,] -1.066e+07 1.159e-02 -919779123 <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

- **Estimasi Parameter Weibul**

```
> library(readxl)
> library(maxLik)
> library(readxl)
> Rekapitulasi <- read_excel("D:/bismilaah/data/Rekapitulasi.xlsx")
> View(Rekapitulasi)
> x <- Rekapitulasi$`Besar Klaim`
> loglik_weibull <- function(param){
+   alpha <- param[1]
+   beta <- param[2]
+   n * log(alpha) + n * log(beta) + (beta - 1) * sum(log(x)) - alpha * sum(x^beta)
+ }
> alpha_start <- (mean(x)/sqrt(var(x)))
> beta_start <- sqrt(var(x))/(gamma(1 + 1/alpha_start))
> start_val <- c(alpha_start, beta_start)
> res <- maxLik(loglik_weibull, start = start_val)
> summary(res)
```

Maximum Likelihood estimation

Newton-Raphson maximisation, 3 iterations

Return code 3: Last step could not find a value above the current.

Boundary of parameter space?

Consider switching to a more robust optimisation method temporarily.

Log-Likelihood: 25545.08

2 free parameters

Estimates:

	Estimate	Std. error	t value	Pr(> t)
[1,]	7.763e-02	Inf	0	1
[2,]	4.643e+08	Inf	0	1

- **Estimasi Distribusi Gamma**

```
> library(readxl)
> library(maxLik)
> library(nortest)
> library(fitdistrplus)
> Rekapitulasi <- read_excel("D:/bismilaah/data/Rekapitulasi.xlsx")
> View(Rekapitulasi)
> x <- Rekapitulasi$`Besar Klaim`
> n <- length(x)
> loglik_gamma <- function(param){
+   alpha <- param[1]
+   beta <- param[2]
+   (alpha - 1) * sum(log(x)) - sum(x) / beta - n * alpha * log(beta) - n * log(gamma(alpha))
+ }
> res <- maxLik(loglik_gamma, start=start_val)
> summary(res)
-----
Maximum Likelihood estimation
Newton-Raphson maximisation, 2 iterations
Return code 8: successive function values within relative tolerance limit (reltol)
Log-Likelihood: -23182.36
2 free parameters
Estimates:
Estimate Std. error t value Pr(> t)
[1,] 1.149e+00 0.000e+00 Inf <2e-16 ***
[2,] 4.643e+08 NaN NaN NaN
---
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Lampiran 3. Uji Distribusi Kolmogorov Smirnov

- **Uji Distribusi Lognormal**

```
> fit_ln <- fitdist(x,"lnorm")  
> fit_ln  
> ks.test(x, "plnorm", meanlog = fit_ln$estimate["meanlog"], sdlog = fit_ln$estimate["sdlog"])
```

Asymptotic one-sample Kolmogorov-Smirnov test

data: x
D = 0.15786

- **Uji Distribusi Loglogistik**

```
> fit_llogis <- fitdist(x,"llogis")  
> fit_llogis  
> ks.test(x, "pllogis", shape = fit_llogis$estimate["shape"], scale= fit_llogis$estimate["scale"])
```

Asymptotic one-sample Kolmogorov-Smirnov test

data: x
D = 0.09045

- **Uji Distribusi Weibull**

```
> fit_wei <- fitdist(x,"weibull")  
> fit_wei  
> ks.test(x, "pweibull", shape = fit_wei$estimate["shape"], scale = fit_wei$estimate["scale"])
```

Asymptotic one-sample Kolmogorov-Smirnov test

data: x
D = 0.079198

- **Uji Distribusi Gamma**

```
> fit_gamma <- fitdist(x,"gamma")
> fit_gamma
> ks.test(x, "pgamma", shape = fit_gamma$estimate["shape"], rate = fit_gamma$
estimate["rate"])
```

Asymptotic one-sample Kolmogorov-Smirnov test

data: x
D = 0.15353

- **D_{tabel}**

```
> n_simulations <- 100
> # Inisialisasi vektor untuk menyimpan nilai-nilai Dn yang dihasilkan dari setia
p simulasi
> Dn_values <- numeric(n_simulations)
> # Melakukan simulasi dan menghitung Dn
> for (i in 1:n_simulations) {
+ # Mengacak urutan data
+ shuffled_data <- sample(x)
+
+ # Menghitung nilai kumulatif observasi dan teoritis
+ n <- length(shuffled_data)
+ cum_observed <- cumsum(tabulate(rank(shuffled_data), nbins = n))/n
+ cum_theoretical <- sapply(shuffled_data, function(x) sum(shuffled_data <= x
)/n)
+
+ # Menghitung Dn
+ Dn_values[i] <- max(abs(cum_observed - cum_theoretical))
+ }
> # Menghitung nilai kritis Dn
> alpha <- 0.05
> Dn_critical <- quantile(Dn_values, 1 - alpha)
> # Menampilkan nilai kritis Dn
> cat("Nilai kritis Dn untuk alpha =", alpha, "adalah", Dn_critical, "\n")
Nilai kritis Dn untuk alpha = 0.05 adalah 0.9928377
```

Lampiran 4. Nilai AIC

- Nilai AIC

```
> label <- c('lognormal','weibull','gamma','llogis')  
> gof <- gofstat(list(fit_ln,fit_wei,fit_gamma,fit_llogis),fitnames = label)  
> gof
```

Goodness-of-fit criteria

	lognormal	weibull	gamma	llogis
Akaike's Information Criterion	3566.352	3125.281	3520.356	3331.656