

# LAMPIRAN-LAMPIRAN



**Lampiran 1. Persentase Penurunan pertahun Laba/Rugi Perusahaan Subsektor Konstruksi**

<b>KODE</b>	<b>Tahun</b>	<b>Jumlah (Rp)</b>	<b>Persentase (%) Pertahun</b>
SSIA	2019	136.311.060.539	
	2020	-77.287.251.636	-157
	2021	-161.119.717.980	-108
	2022	256.164.393.810	259
	2023	231.545.763.253	-9,6
	2024	448.549.069.270	93,7
<b>Rata-rata Persentase Penurunan</b>			<b>15,6</b>
ADHI	2019	665.048.421.529	
	2020	23.702.652.447	-96
	2021	84.499.800.385	256
	2022	175.209.867.105	107
	2023	289.882.510.819	65,4
	2024	281.147.921.989	-3,0
<b>Rata-rata Persentase Penurunan</b>			<b>66,0</b>
TOTL	2019	175.502.010	
	2020	108.580.758	-38
	2021	101.633.430	-6
	2022	91.646.670	-10
	2023	172.704.944	88,4
	2024	265.505.876	53,7
<b>Rata-rata Persentase Penurunan</b>			<b>17,6</b>
WIKA	2019	2.621.015.140	
	2020	322.342.513	-88
	2021	236.800.172	-27
	2022	17.870.863	-92
	2023	-7.898.934.787	-44.300,1
	2024	-2.593.028.848	67,2
<b>Rata-rata Persentase Penurunan</b>			<b>-8887,9</b>
JKON	2019	202.283.267	
	2020	51.834.425	-74
	2021	-37.110.098	-172
	2022	201.656.509	643
	2023	241.814.791	19,9
	2024	189.090.101	-21,8
<b>Rata-rata Persentase Penurunan</b>			<b>79,1</b>
DGIK	2019	1.223.668.094	
	2020	-14.968.049.244	-1.323
	2021	7.839.739.770	152
	2022	8.237.461.207	5
	2023	25.147.908.797	205,3
	2024	48.408.394.879	92,5
<b>Rata-rata Persentase Penurunan</b>			<b>-173,6</b>

KODE	Tahun	Jumlah	Persentase Penurunan Tahunan
PTPP	2019	1.048.153.079.883	
	2020	266.269.870.851	-75
	2021	402.248.068.131	51
	2022	398.048.443.361	-1
	2023	127.089.519.355	-68,1
	2024	129.437.886.973	1,8
<b>Rata-rata Persentase Penurunan</b>			<b>-18,2</b>
WSKT	2019	1.028.898.367.891	
	2020	-9.495.726.146.546	-1.023
	2021	-1.838.733.441.975	81
	2022	-1.672.733.807.060	9
	2023	-4.018.265.010.703	-140,2
	2024	-3.913.600.848.372	2,6
<b>Rata-rata Persentase Penurunan</b>			<b>-214,2</b>
ACST	2019	-1.131.849	
	2020	-1.340.079	-18
	2021	-693.366	48
	2022	-451.613	35
	2023	-277.462	38,6
	2024	-529.971	-91,0
<b>Rata-rata Persentase Penurunan</b>			<b>2,5</b>
NRCA	2019	106.372.350.952	
	2020	65.521.451.043	-38
	2021	51.648.101.245	-21
	2022	75.005.776.153	45
	2023	99.508.842.135	32,7
	2024	81.602.166.883	-18,0
<b>Rata-rata Persentase Penurunan</b>			<b>0,1</b>
BUKK	2019	491.956.774	
	2020	423.714.832	-14
	2021	482.094.181	14
	2022	462.277.988	-4
	2023	711.020.516	53,8
	2024	521.444.610	-26,7
<b>Rata-rata Persentase Penurunan</b>			<b>4,6</b>
IDPR	2019	11.409.893.388	
	2020	-213.846.501.061	-1.974
	2021	-141.612.270.492	34
	2022	-1.290.895.099	99
	2023	35.688.561.411	2.864,6
	2024	27.768.771.516	-22,2
<b>Rata-rata Persentase Penurunan</b>			<b>200,2</b>

KODE	Tahun	Jumlah	Persentase Penurunan Per Tahun
PBSA	2019	13.287.142.235	
	2020	43.151.541.644	225
	2021	83.315.829.281	93
	2022	133.988.085.819	61
	2023	192.742.530.687	43,9
	2024	215.043.213.488	11,6
<b>Rata-rata Persentase Penurunan</b>			<b>86,8</b>
PPRE	2019	493.253.263.108	
	2020	115.881.928.744	-77
	2021	146.813.185.337	27
	2022	181.661.615.624	24
	2023	172.781.270.069	-4,9
	2024	194.097.611.315	12,3
<b>Rata-rata Persentase Penurunan</b>			<b>-3,7</b>
MTPS	2019	23.712.284.065	
	2020	-29.162.014.688	-223
	2021	-231.605.648.837	-694
	2022	-43.214.092.563	81
	2023	-15.891.633.745	63,2
	2024	-4.975.603.925	68,7
<b>Rata-rata Persentase Penurunan</b>			<b>-140,8</b>
PTPW	2019	46.778.858.688	
	2020	31.041.539.323	-34
	2021	52.047.642.440	68
	2022	80.231.582.186	54
	2023	103.615.982.698	29,1
	2024	28.426.059.041	-72,6
<b>Rata-rata Persentase Penurunan</b>			<b>9,0</b>
TAMA	2019	1.587.817.053	
	2020	-4.045.224.902	-355
	2021	86.817.293	102
	2022	-4.966.075.922	-5.820
	2023	-6.375.333.422	-28,4
	2024	-8.493.414.177	-33,2
<b>Rata-rata Persentase Penurunan</b>			<b>-1226,9</b>

KODE	Tahun	Jumlah	Persentase Penurunan Tahunan
RONY	2019	4.638.535.134	
	2020	-4.661.776.587	-201
	2021	-3.057.178.296	34
	2022	-27.368.893.968	-795
	2023	102.777.436	100,4
	2024	1.880.666.832	1729,8
<b>Rata-rata Persentase Penurunan</b>			<b>173,8</b>
PTDU	2019	3.025.772.144	
	2020	2.969.670.249	-2
	2021	3.013.975.528	1
	2022	-65.531.004.469	-2.274
	2023	-33.781.303.948	48,4
	2024	-42.254.433.841	-25,1
<b>Rata-rata Persentase Penurunan</b>			<b>-450,2</b>
FIMP	2019	2.282.423.828	
	2020	633.422.004	-72
	2021	-934.707.642	-248
	2022	546.397.566	158
	2023	641.785.968	17,5
	2024	310.073.419	-51,7
<b>Rata-rata Persentase Penurunan</b>			<b>-39,1</b>
BDKR	2019	24.499.573.864	
	2020	61.722.705.300	152
	2021	28.378.533.177	-54
	2022	58.047.930.056	105
	2023	79.309.613.163	36,6
	2024	15.145.350.774	-80,9
<b>Rata-rata Persentase Penurunan</b>			<b>31,6</b>

## Lampiran 2. Tabulasi Data Model Fulmer

$$F\text{-Score} = 5,52X1 + 0,212X2 + 0,073X3 + 1,27X4 - 0,12X5 + 2,335X6 + \\ 0,575X7 + 1,083X8 + 0,894X9 - 6,075$$

**X1 = Retained Earning / Total Asset**

X1 = Retained Earning/Total Asset							
No	Perusahaan	Tahun	Retained Earning	Total Asset	X1	Rasio	Hasil
1	SSIA	2019	2.969.699.466.286	8.092.446.814.970	0,3670	5,52	2,0257
		2020	2.794.281.677.612	7.625.368.538.389	0,3664	5,52	2,0228
		2021	2.624.518.344.363	7.752.170.523.212	0,3386	5,52	1,8688
		2022	2.849.450.448.390	8.289.646.306.143	0,3437	5,52	1,8974
		2023	3.009.129.335.377	8.416.773.129.280	0,3575	5,52	1,9735
2	ADHI	2024	3.169.478.579.231	10.367.405.490.248	0,3057	5,52	1,6876
		2019	3.397.430.406.578	36.515.833.214.549	0,0930	5,52	0,5136
		2020	1.989.924.895.076	38.093.888.626.552	0,0522	5,52	0,2884
		2021	2.041.377.034.231	39.900.337.834.619	0,0512	5,52	0,2824
		2022	2.114.788.477.042	39.986.417.216.654	0,0529	5,52	0,2919
3	TOTL	2023	2.337.427.819.257	40.492.030.620.079	0,0577	5,52	0,3186
		2024	2.551.533.865.030	35.042.781.072.073	0,0728	5,52	0,4019
		2019	733.515.588	2.962.993.701	0,2476	5,52	1,3665
		2020	796.084.044	2.889.059.738	0,2756	5,52	1,5210
		2021	888.848.323	2.727.306.841	0,3259	5,52	1,7990
4	WIKA	2022	896.989.267	2.990.427.306	0,3000	5,52	1,6557
		2023	723.855.343	3.132.571.723	0,2311	5,52	1,2755
		2024	844.072.971	3.495.248.379	0,2415	5,52	1,3330
		2019	7.261.129.614	62.110.847.154	0,1169	5,52	0,6453
		2020	4.390.063.186	68.109.185.213	0,0645	5,52	0,3558
5	JKON	2021	4.457.008.744	69.385.794.346	0,0642	5,52	0,3546
		2022	4.372.391.037	75.069.604.222	0,0582	5,52	0,3215
		2023	-2.823.648.717	65.981.235.888	-0,0428	5,52	-0,2362
		2024	-5.161.893.981	63.556.342.748	-0,0812	5,52	-0,4483
		2019	1.766.157.660	4.928.108.872	0,3584	5,52	1,9783
6	DGIK	2020	1.743.160.112	4.565.315.258	0,3818	5,52	2,1077
		2021	1.709.549.022	4.145.213.922	0,4124	5,52	2,2765
		2022	1.914.315.456	4.307.485.666	0,4444	5,52	2,4532
		2023	2.103.231.678	4.396.310.133	0,4784	5,52	2,6408
		2024	2.220.945.710	4.371.497.764	0,5081	5,52	2,8044
7	PTPP	2019	-136.577.987.825	1.336.201.089.528	-0,1022	5,52	-0,5642
		2020	-161.636.513.261	1.106.977.581.458	-0,1460	5,52	-0,8060
		2021	-156.718.356.923	1.011.376.737.496	-0,1550	5,52	-0,8554
		2022	-144.052.899.805	915.761.782.790	-0,1573	5,52	-0,8683
		2023	-120.271.801.664	915.924.074.237	-0,1313	5,52	-0,7248
8	WSKT	2024	-69.208.431.451	1.193.613.189.107	-0,0580	5,52	-0,3201
		2019	4.208.114.691.591	56.130.526.187.076	0,0750	5,52	0,4138
		2020	3.149.260.465.909	53.472.450.650.976	0,0589	5,52	0,3251
		2021	3.390.262.150.289	55.573.843.735.084	0,0610	5,52	0,3367
		2022	3.661.960.939.208	57.612.383.140.536	0,0636	5,52	0,3509
9	ACST	2023	4.143.340.147.781	56.525.042.574.560	0,0733	5,52	0,4046
		2024	4.558.994.225.058	56.589.716.015.594	0,0806	5,52	0,4447
		2019	10.233.409.821.327	122.589.259.350.571	0,0835	5,52	0,4608
		2020	-440.120.243.584	105.588.960.060.005	-0,0042	5,52	-0,0230
		2021	-5.961.138.405.267	103.601.611.883.340	-0,0575	5,52	-0,3176
9	ACST	2022	-8.214.646.146.182	98.232.316.628.846	-0,0836	5,52	-0,4616
		2023	-11.985.083.442.767	95.595.897.457.967	-0,1254	5,52	-0,6921
		2024	-14.564.295.204.230	77.159.736.864.177	-0,1888	5,52	-1,0419
		2019	-646.936	10.446.519	-0,0619	5,52	-0,3418
		2020	-2.096.193	3.055.106	-0,6861	5,52	-3,7874
9	ACST	2021	-2.786.845	2.478.713	-1,1243	5,52	-6,2062
		2022	-3.228.872	2.111.024	-1,5295	5,52	-8,4430
		2023	-3.497.283	2.608.782	-1,3406	5,52	-7,4000
		2024	-4.039.583	2.812.734	-1,4362	5,52	-7,9277

XI = Retained Earning/Total Asset							
No	Perusahaan	Tahun	Retained Earning	Total Aset	XI	Rasio	Hasil
10	NRCA	2019	664.091.417.622	2.462.813.011.754	0,2696	5,52	1,4885
		2020	603.469.730.229	2.221.459.173.567	0,2717	5,52	1,4995
		2021	617.403.409.935	2.142.945.408.364	0,2881	5,52	1,5904
		2022	654.025.047.943	2.454.852.311.196	0,2664	5,52	1,4706
		2023	648.562.208.294	2.336.265.865.936	0,2776	5,52	1,5324
11	BUKK	2019	1.578.853.737	4.739.164.617	0,3332	5,52	1,8390
		2020	1.991.174.611	4.976.221.593	0,4001	5,52	2,2088
		2021	2.467.345.077	5.226.470.342	0,4721	5,52	2,6059
		2022	2.917.846.364	6.259.364.267	0,4662	5,52	2,5732
		2023	3.689.819.596	6.557.621.451	0,5627	5,52	3,1060
12	IDPR	2019	4.030.469.745	7.442.450.327	0,5416	5,52	2,9894
		2020	642.001.021.561	1.985.002.918.764	0,3234	5,52	1,7853
		2021	199.605.290.898	1.508.823.148.421	0,1323	5,52	0,7303
		2022	66.843.953.995	1.497.705.774.236	0,0446	5,52	0,2464
		2023	57.401.576.415	1.542.492.102.329	0,0372	5,52	0,2054
13	PBSA	2024	93.580.804.987	1.678.832.977.395	0,0557	5,52	0,3077
		2019	106.795.778.095	1.495.862.407.765	0,0714	5,52	0,3941
		2020	60.610.828.949	722.903.663.896	0,0838	5,52	0,4628
		2021	58.597.701.850	702.230.672.680	0,0834	5,52	0,4606
		2022	103.978.500.837	776.987.707.840	0,1338	5,52	0,7387
14	PPRE	2023	167.888.056.812	857.819.112.060	0,1957	5,52	1,0803
		2024	120.040.009.604	795.622.503.779	0,1509	5,52	0,8328
		2019	297.575.235.006	1.117.111.786.295	0,2664	5,52	1,4704
		2020	721.714.688.665	7.760.863.409.420	0,0930	5,52	0,5133
		2021	391.354.822.784	6.895.982.045.724	0,0568	5,52	0,3133
15	MTPS	2022	456.570.114.040	7.029.648.280.015	0,0649	5,52	0,3585
		2023	549.628.852.278	7.588.440.332.245	0,0724	5,52	0,3998
		2024	629.844.411.404	7.164.990.158.071	0,0879	5,52	0,4852
		2019	720.183.959.641	7.648.848.575.168	0,0942	5,52	0,5197
		2020	31.107.335.303	479.498.184.124	0,0649	5,52	0,3581
16	PTPW	2021	1.945.320.615	530.170.000.286	0,0037	5,52	0,0203
		2022	-229.660.328.222	181.330.659.418	-1,2665	5,52	-6,9912
		2023	-272.874.420.785	125.183.529.972	-2,1798	5,52	-12,0325
		2024	-288.766.054.530	96.894.946.269	-2,9802	5,52	-16,4507
		2019	-293.741.658.455	85.134.019.903	-3,4503	5,52	-19,0459
17	TAMA	2020	176.422.851.525	345.981.911.383	0,5099	5,52	2,8148
		2021	199.418.594.766	435.830.715.625	0,4576	5,52	2,5257
		2022	251.466.237.206	540.852.700.018	0,4649	5,52	2,5665
		2023	331.697.825.692	584.467.532.735	0,5675	5,52	3,1327
		2024	417.525.088.872	700.196.420.981	0,5963	5,52	3,2916
18	RONY	2024	445.600.333.942	731.052.503.381	0,6095	5,52	3,3646
		2019	-2.604.159.787	137.020.378.518	0,0190	5,52	0,1049
		2020	-1.441.065.115	168.703.297.233	-0,0085	5,52	-0,0472
		2021	-1.354.247.822	174.567.890.012	-0,0078	5,52	-0,0428
		2022	-6.320.323.744	199.223.626.548	-0,0317	5,52	-0,1751
19	PTDU	2023	-12.695.657.166	194.029.937.436	-0,0654	5,52	-0,3612
		2024	-21.189.071.343	193.250.326.244	-0,1096	5,52	-0,6052
		2019	5.654.829.383	20.084.414.111	0,2816	5,52	1,5542
		2020	629.785.517	40.638.021.905	0,0155	5,52	0,0855
		2021	-2.427.392.779	38.673.105.126	-0,0628	5,52	-0,3465
20	FIMP	2022	-29.796.286.747	8.085.010.235	-3,6854	5,52	-20,3433
		2023	-29.693.509.311	8.753.273.270	-3,3923	5,52	-18,7254
		2024	-27.812.842.479	7.221.102.585	-3,8516	5,52	-21,2609
		2019	17.214.022.974	153.907.143.935	0,1118	5,52	0,6174
		2020	184.946.230	231.306.809.701	0,0008	5,52	0,0044
21	BDKR	2021	1.992.342.637	346.407.579.931	0,0058	5,52	0,0317
		2022	-63.532.513.164	277.138.394.476	-0,2292	5,52	-1,2654
		2023	-97.310.427.604	210.144.442.259	-0,4631	5,52	-2,5561
		2024	-139.559.497.237	149.094.240.246	-0,9360	5,52	-5,1670
		2019	9.629.440.452	32.932.885.105	0,2924	5,52	1,6140
21	BDKR	2020	262.862.456	20.940.453.696	0,0126	5,52	0,0693
		2021	-671.845.186	32.948.361.455	-0,0204	5,52	-0,1126
		2022	-125.447.620	35.428.360.796	-0,0035	5,52	-0,0195
		2023	516.338.348	34.702.710.346	0,0149	5,52	0,0821
		2024	862.411.767	35.650.088.667	0,0242	5,52	0,1335
21	BDKR	2019	49.879.906.571	431.735.690.360	0,1155	5,52	0,6377
		2020	49.879.906.571	726.058.919.507	0,0687	5,52	0,3792
		2021	416.197.262.669	833.136.626.897	0,4996	5,52	2,7575
		2022	160.245.192.275	1.279.953.349.405	0,1252	5,52	0,6911
		2023	239.554.805.888	1.548.251.539.042	0,1547	5,52	0,8541
2024	231.074.649.052	1.352.341.856.789	0,1709	5,52	0,9432		

$X2 = \text{Sales} / \text{Total Asset}$ 

X2 = Sales/Total Asset							
No	Perusahaan	Tahun	Sales	Total Aset	X2	Rasio	Hasil
1	SSIA	2019	4.006.437.811.242	8.092.446.814.970	0,4951	0,212	0,1050
		2020	2.947.321.285.487	7.625.368.538.389	0,3865	0,212	0,0819
		2021	2.352.908.880.457	7.752.170.523.212	0,3035	0,212	0,0643
		2022	3.614.941.222.156	8.289.646.306.143	0,4361	0,212	0,0924
		2023	4.537.653.827.301	8.416.773.129.280	0,5391	0,212	0,1143
		2024	6.251.910.481.971	10.367.405.490.248	0,6030	0,212	0,1278
2	ADHI	2019	15.307.860.220.494	36.515.833.214.549	0,4192	0,212	0,0889
		2020	10.827.682.417.205	38.093.888.626.552	0,2842	0,212	0,0603
		2021	11.530.471.713.036	39.900.337.834.619	0,2890	0,212	0,0613
		2022	13.549.010.228.584	39.986.417.216.654	0,3388	0,212	0,0718
		2023	20.072.993.428.021	40.492.030.620.079	0,4957	0,212	0,1051
		2024	13.351.717.203.356	35.042.781.072.073	0,3810	0,212	0,0808
3	TOTL	2019	2.474.974.774	2.962.993.701	0,8353	0,212	0,1771
		2020	2.292.693.925	2.889.059.738	0,7936	0,212	0,1682
		2021	1.745.129.682	2.727.306.841	0,6399	0,212	0,1357
		2022	2.276.815.788	2.990.427.306	0,7614	0,212	0,1614
		2023	3.027.183.068	3.132.571.723	0,9664	0,212	0,2049
		2024	3.087.653.570	3.495.248.379	0,8834	0,212	0,1873
4	WIKA	2019	27.212.914.210	62.110.847.154	0,4381	0,212	0,0929
		2020	16.536.381.639	68.109.185.213	0,2428	0,212	0,0515
		2021	17.809.717.726	69.385.794.346	0,2567	0,212	0,0544
		2022	21.480.791.864	75.069.604.222	0,2861	0,212	0,0607
		2023	22.530.355.784	65.981.235.888	0,3415	0,212	0,0724
		2024	19.242.726.731	63.556.342.748	0,3028	0,212	0,0642
5	JKON	2019	5.470.824.200	4.928.108.872	1,1101	0,212	0,2353
		2020	3.013.778.917	4.565.315.258	0,6601	0,212	0,1400
		2021	3.480.062.858	4.145.213.922	0,8395	0,212	0,1780
		2022	4.465.174.493	4.307.485.666	1,0366	0,212	0,2198
		2023	4.548.754.696	4.396.310.133	1,0347	0,212	0,2194
		2024	3.875.321.246	4.371.497.764	0,8865	0,212	0,1879
6	DGIK	2019	921.705.861.660	1.336.201.089.528	0,6898	0,212	0,1462
		2020	478.933.385.858	1.106.977.581.458	0,4326	0,212	0,0917
		2021	366.451.807.136	1.011.376.737.496	0,3623	0,212	0,0768
		2022	373.043.766.945	915.761.782.790	0,4074	0,212	0,0864
		2023	462.778.375.826	915.924.074.237	0,5053	0,212	0,1071
		2024	644.556.733.549	1.193.613.189.107	0,5400	0,212	0,1145
7	PTPP	2019	23.573.191.977.192	56.130.526.187.076	0,4200	0,212	0,0890
		2020	15.831.388.462.166	53.472.450.650.976	0,2961	0,212	0,0628
		2021	16.763.936.677.996	55.573.843.735.084	0,3017	0,212	0,0640
		2022	18.921.838.539.997	57.612.383.140.536	0,3284	0,212	0,0696
		2023	18.464.215.470.859	56.525.042.574.560	0,3267	0,212	0,0693
		2024	19.812.142.890.563	56.589.716.015.594	0,3501	0,212	0,0742
8	WSKT	2019	31.387.389.629.869	122.589.259.350.571	0,2560	0,212	0,0543
		2020	16.190.456.515.103	105.588.960.060.005	0,1533	0,212	0,0325
		2021	12.224.128.315.553	103.601.611.883.340	0,1180	0,212	0,0250
		2022	15.302.872.338.467	98.232.316.628.846	0,1558	0,212	0,0330
		2023	10.954.693.035.464	95.595.897.457.967	0,1146	0,212	0,0243
		2024	10.705.154.901.932	77.159.736.864.177	0,1387	0,212	0,0294
9	ACST	2019	3.947.173	10.446.519	0,3778	0,212	0,0801
		2020	1.204.429	3.055.106	0,3942	0,212	0,0836
		2021	1.494.671	2.478.713	0,6030	0,212	0,1278
		2022	1.036.870	2.111.024	0,4912	0,212	0,1041
		2023	2.349.638	2.608.782	0,9007	0,212	0,1909
		2024	3.172.312	2.812.734	1,1278	0,212	0,2391
10	NRCA	2019	2.617.754.376.513	2.462.813.011.754	1,0629	0,212	0,2253
		2020	2.085.740.129.302	2.221.459.173.567	0,9389	0,212	0,1990
		2021	1.669.713.392.168	2.142.945.408.364	0,7792	0,212	0,1652
		2022	2.462.407.757.122	2.454.852.311.196	1,0031	0,212	0,2127
		2023	2.895.507.275.859	2.336.265.865.936	1,2394	0,212	0,2627
		2024	3.372.465.083.657	2.373.118.335.025	1,4211	0,212	0,3013

X2 = Sales/Total Asset							
No	Perusahaan	Tahun	Sales	Total Aset	X2	Rasio	Hasil
11	BUKK	2019	6.039.612.904	4.739.164.617	1,2744	0,212	0,2702
		2020	3.981.900.673	4.976.221.593	0,8002	0,212	0,1696
		2021	3.858.936.725	5.226.470.342	0,7383	0,212	0,1565
		2022	4.146.850.937	6.259.364.267	0,6625	0,212	0,1405
		2023	4.611.765.328	6.557.621.451	0,7033	0,212	0,1491
		2024	3.110.133.806	7.442.450.327	0,4179	0,212	0,0886
12	IDPR	2019	958.462.201.850	1.985.002.918.764	0,4829	0,212	0,1024
		2020	652.350.844.406	1.508.823.148.421	0,4324	0,212	0,0917
		2021	872.574.156.089	1.497.705.774.236	0,5826	0,212	0,1235
		2022	1.060.124.902.677	1.542.492.102.329	0,6873	0,212	0,1457
		2023	1.289.582.924.477	1.678.832.977.395	0,7681	0,212	0,1628
		2024	1.115.261.513.273	1.495.862.407.765	0,7456	0,212	0,1581
13	PBSA	2019	607.764.419.249	722.903.663.896	0,8407	0,212	0,1782
		2020	552.602.370.724	702.230.672.680	0,7869	0,212	0,1668
		2021	279.155.322.925	776.987.707.840	0,3593	0,212	0,0762
		2022	731.846.535.897	857.819.112.060	0,8531	0,212	0,1809
		2023	572.763.446.107	795.622.503.779	0,7199	0,212	0,1526
		2024	1.154.289.864.419	1.117.111.786.295	1,0333	0,212	0,2191
14	PPRE	2019	3.853.253.102.037	7.760.863.409.420	0,4965	0,212	0,1053
		2020	2.336.956.841.399	6.895.982.045.724	0,3389	0,212	0,0718
		2021	2.807.235.049.378	7.029.648.280.015	0,3993	0,212	0,0847
		2022	3.635.195.678.682	7.588.440.332.245	0,4790	0,212	0,1016
		2023	3.400.865.237.272	7.164.990.158.071	0,4747	0,212	0,1006
		2024	3.790.809.211.559	7.648.848.575.168	0,4956	0,212	0,1051
15	MTPS	2019	207.203.695.294	479.498.184.124	0,4321	0,212	0,0916
		2020	125.916.873.577	530.170.000.286	0,2375	0,212	0,0504
		2021	54.902.595.928	181.330.659.418	0,3028	0,212	0,0642
		2022	918.021.149	125.183.529.972	0,0073	0,212	0,0016
		2023	853.734.399	96.894.946.269	0,0088	0,212	0,0019
		2024	1.328.006.083	85.134.019.903	0,0156	0,212	0,0033
16	PTPW	2019	182.181.039.109	345.981.911.383	0,5266	0,212	0,1116
		2020	187.886.276.093	435.830.715.625	0,4311	0,212	0,0914
		2021	301.396.833.220	540.852.700.018	0,5573	0,212	0,1181
		2022	338.340.862.503	584.467.532.735	0,5789	0,212	0,1227
		2023	395.518.504.651	700.196.420.981	0,5649	0,212	0,1198
		2024	371.976.241.228	731.052.503.381	0,5088	0,212	0,1079
17	TAMA	2019	41.432.210.341	137.020.378.518	0,3024	0,212	0,0641
		2020	25.376.582.800	168.703.297.233	0,1504	0,212	0,0319
		2021	50.363.743.196	174.567.890.012	0,2885	0,212	0,0612
		2022	14.768.916.731	199.223.626.548	0,0741	0,212	0,0157
		2023	28.372.087.077	194.029.937.436	0,1462	0,212	0,0310
		2024	23.174.307.675	193.250.326.244	0,1199	0,212	0,0254
18	RONY	2019	12.257.202.795	20.084.414.111	0,6103	0,212	0,1294
		2020	4.221.041.136	40.638.021.905	0,1039	0,212	0,0220
		2021	8.622.135.706	38.673.105.126	0,2229	0,212	0,0473
		2022	7.828.382.847	8.085.010.235	0,9683	0,212	0,2053
		2023	4.884.035.625	8.753.273.270	0,5580	0,212	0,1183
		2024	2.600.628.521	7.221.102.585	0,3601	0,212	0,0764
19	PTDU	2019	121.262.715.612	153.907.143.935	0,7879	0,212	0,1670
		2020	48.709.779.263	231.306.809.701	0,2106	0,212	0,0446
		2021	244.241.654.678	346.407.579.931	0,7051	0,212	0,1495
		2022	154.856.880.912	277.138.394.476	0,5588	0,212	0,1185
		2023	118.597.296.098	210.144.442.259	0,5644	0,212	0,1196
		2024	43.842.225.806	149.094.240.246	0,2941	0,212	0,0623
20	FIMP	2019	17.943.184.168	32.932.885.105	0,5448	0,212	0,1155
		2020	8.179.441.984	20.940.453.696	0,3906	0,212	0,0828
		2021	6.092.711.000	32.948.361.455	0,1849	0,212	0,0392
		2022	6.545.454.546	35.428.360.796	0,1848	0,212	0,0392
		2023	7.150.000.000	34.702.710.346	0,2060	0,212	0,0437
		2024	5.866.000.000	35.650.088.667	0,1645	0,212	0,0349
21	BDKR	2019	603.201.381.081	431.735.690.360	1,3972	0,212	0,2962
		2020	1.747.955.558.956	726.058.919.507	2,4075	0,212	0,5104
		2021	413.333.722.423	833.136.626.897	0,4961	0,212	0,1052
		2022	477.120.794.735	1.279.953.349.405	0,3728	0,212	0,0790
		2023	613.461.702.309	1.548.251.539.042	0,3962	0,212	0,0840
		2024	484.490.134.051	1.352.341.856.789	0,3583	0,212	0,0760

**X3 = EBT / Total Equity**

X3 = Earning Before Tax/Total Equity							
No	Perusahaan	Tahun	EBT	Total Equity	X3	Rasio	Hasil
1	SSIA	2019	164.833.004.075	4.478.179.841.864	0,0368	0,073	0,0027
		2020	-100.245.386.499	4.231.074.621.473	-0,0237	0,073	-0,0017
		2021	-196.430.536.159	4.050.552.753.578	-0,0485	0,073	-0,0035
		2022	223.352.872.198	4.259.467.653.293	0,0524	0,073	0,0038
		2023	275.100.549.438	4.443.454.368.823	0,0619	0,073	0,0045
		2024	504.262.779.792	7.993.674.379.693	0,0631	0,073	0,0046
2	ADHI	2019	686.491.539.347	6.834.297.680.021	0,1004	0,073	0,0073
		2020	39.735.297.098	5.574.810.447.358	0,0071	0,073	0,0005
		2021	99.232.995.537	5.657.707.202.425	0,0175	0,073	0,0013
		2022	183.299.716.266	8.823.791.463.516	0,0208	0,073	0,0015
		2023	316.103.850.145	9.218.792.381.077	0,0343	0,073	0,0025
		2024	306.752.267.696	9.675.190.188.162	0,0317	0,073	0,0023
3	TOTL	2019	178.313.130	1.076.904.500	0,1656	0,073	0,0121
		2020	112.230.137	1.139.164.028	0,0985	0,073	0,0072
		2021	103.107.715	1.231.884.375	0,0837	0,073	0,0061
		2022	93.219.255	1.240.175.532	0,0752	0,073	0,0055
		2023	175.666.230	1.067.066.360	0,1646	0,073	0,0120
		2024	267.363.654	1.187.360.208	0,2252	0,073	0,0164
4	WIKA	2019	2.789.255.688	19.215.732.987	0,1452	0,073	0,0106
		2020	310.275.688	16.657.425.071	0,0186	0,073	0,0014
		2021	196.664.427	17.435.077.712	0,0113	0,073	0,0008
		2022	176.080.896	17.493.206.188	0,0101	0,073	0,0007
		2023	-7.765.545.396	9.571.613.042	-0,8113	0,073	-0,0592
		2024	-2.461.392.359	11.871.419.792	-0,2073	0,073	-0,0151
5	JKON	2019	258.217.922	2.697.766.960	0,0957	0,073	0,0070
		2020	89.830.345	2.683.067.425	0,0335	0,073	0,0024
		2021	-15.061.799	2.650.548.192	-0,0057	0,073	-0,0004
		2022	250.526.174	2.862.032.246	0,0875	0,073	0,0064
		2023	295.341.967	3.054.612.530	0,0967	0,073	0,0071
		2024	228.914.259	3.176.637.277	0,0721	0,073	0,0053
6	DGIK	2019	4.521.240.594	671.154.631.861	0,0067	0,073	0,0005
		2020	-13.678.152.944	646.077.347.978	-0,0212	0,073	-0,0015
		2021	10.373.008.750	651.049.102.284	0,0159	0,073	0,0012
		2022	9.769.275.667	615.351.513.559	0,0159	0,073	0,0012
		2023	25.748.285.057	631.640.278.792	0,0408	0,073	0,0030
		2024	49.933.242.379	682.217.159.460	0,0732	0,073	0,0053
7	PTPP	2019	1.079.645.616.846	15.011.958.323.458	0,0719	0,073	0,0053
		2020	289.566.658.260	14.006.990.090.950	0,0207	0,073	0,0015
		2021	377.030.362.730	14.330.149.681.057	0,0263	0,073	0,0019
		2022	380.217.951.667	14.821.052.298.361	0,0257	0,073	0,0019
		2023	149.204.119.482	15.143.391.332.680	0,0099	0,073	0,0007
		2024	247.715.735.304	15.254.915.517.853	0,0162	0,073	0,0012
8	WSKT	2019	1.328.649.961.839	29.118.469.188.999	0,0456	0,073	0,0033
		2020	-9.729.421.929.853	16.577.554.765.290	-0,5869	0,073	-0,0428
		2021	-1.086.240.733.799	15.461.433.243.830	-0,0703	0,073	-0,0051
		2022	-1.240.774.727.573	14.244.684.680.766	-0,0871	0,073	-0,0064
		2023	-3.776.859.396.600	11.601.511.551.159	-0,3255	0,073	-0,0238
		2024	-3.864.463.819.928	7.884.181.360.813	-0,4902	0,073	-0,0358
9	ACST	2019	-1.127.530	286.476	-3,9359	0,073	-0,2873
		2020	-1.342.279	324.032	-4,1424	0,073	-0,3024
		2021	-698.951	1.115.731	-0,6265	0,073	-0,0457
		2022	-456.013	670.997	-0,6796	0,073	-0,0496
		2023	-277.462	396.057	-0,7006	0,073	-0,0511
		2024	-529.971	-140.993	3,7588	0,073	0,2744
10	NRCA	2019	101.155.011.546	1.221.164.716.147	0,0828	0,073	0,0060
		2020	55.122.851.471	1.153.155.372.350	0,0478	0,073	0,0035
		2021	51.648.101.245	1.167.089.036.219	0,0443	0,073	0,0032
		2022	75.005.776.153	1.203.710.600.422	0,0623	0,073	0,0045
		2023	99.607.122.515	1.198.247.834.939	0,0831	0,073	0,0061
		2024	82.040.771.423	1.204.355.972.609	0,0681	0,073	0,0050

X3 = Earning Before Tax/Total Equity							
No	Perusahaan	Tahun	EBT	Total Equity	X3	Rasio	Hasil
11	BUKK	2019	634.882.853	2.441.612.577	0,2600	0,073	0,0190
		2020	532.683.282	2.841.122.054	0,1875	0,073	0,0137
		2021	567.147.611	3.318.620.023	0,1709	0,073	0,0125
		2022	559.957.902	3.828.100.985	0,1463	0,073	0,0107
		2023	806.432.926	4.569.803.457	0,1765	0,073	0,0129
		2024	417.592.774	4.956.225.774	0,0843	0,073	0,0062
12	IDPR	2019	-273.868.345	1.204.083.145.157	-0,0002	0,073	0,0000
		2020	-379.974.740.624	767.610.554.550	-0,4950	0,073	-0,0361
		2021	-141.612.270.492	632.270.046.200	-0,2240	0,073	-0,0164
		2022	1.149.127.981	630.755.221.948	0,0018	0,073	0,0001
		2023	35.688.561.411	660.632.988.995	0,0540	0,073	0,0039
		2024	27.768.771.516	679.167.933.264	0,0409	0,073	0,0030
13	PBSA	2019	13.586.662.498	15.748.250.124	0,8627	0,073	0,0630
		2020	43.450.921.164	16.241.940.004	2,6752	0,073	0,1953
		2021	83.608.569.641	580.998.695.826	0,1439	0,073	0,0105
		2022	134.084.503.617	645.412.500.150	0,2078	0,073	0,0152
		2023	231.615.372.607	597.158.950.877	0,3879	0,073	0,0283
		2024	218.781.517.188	775.487.896.511	0,2821	0,073	0,0206
14	PPRE	2019	453.810.431.280	3.162.080.634.727	0,1435	0,073	0,0105
		2020	127.342.712.236	2.841.999.826.323	0,0448	0,073	0,0033
		2021	156.800.353.770	2.979.283.380.916	0,0526	0,073	0,0038
		2022	192.941.358.059	3.150.326.715.954	0,0612	0,073	0,0045
		2023	181.788.066.851	3.315.092.442.436	0,0548	0,073	0,0040
		2024	203.632.366.703	3.494.567.653.016	0,0583	0,073	0,0043
15	MTPS	2019	27.537.247.848	368.373.301.060	0,0748	0,073	0,0055
		2020	-25.363.754.132	339.315.363.867	-0,0747	0,073	-0,0055
		2021	-229.807.628.249	107.744.556.213	-2,1329	0,073	-0,1557
		2022	-42.527.007.877	64.549.629.601	-0,6588	0,073	-0,0481
		2023	-15.721.924.548	48.687.606.042	-0,3229	0,073	-0,0236
		2024	-4.442.370.922	43.717.384.599	-0,1016	0,073	-0,0074
16	PTPW	2019	46.778.858.688	248.534.782.807	0,1882	0,073	0,0137
		2020	31.079.906.443	381.682.389.180	0,0814	0,073	0,0059
		2021	52.144.452.340	433.889.784.325	0,1202	0,073	0,0088
		2022	80.242.703.846	514.182.745.643	0,1561	0,073	0,0114
		2023	102.859.965.955	600.798.728.341	0,1712	0,073	0,0125
		2024	28.232.403.298	629.224.787.382	0,0449	0,073	0,0033
17	TAMA	2019	1.587.817.053	22.474.646.787	0,0706	0,073	0,0052
		2020	-4.045.224.902	49.917.690.089	-0,0810	0,073	-0,0059
		2021	155.223.543	50.186.226.382	0,0031	0,073	0,0002
		2022	-4.966.075.922	59.357.277.460	-0,0837	0,073	-0,0061
		2023	-6.375.333.422	52.954.319.038	-0,1204	0,073	-0,0088
		2024	-8.493.414.177	44.489.413.861	-0,1909	0,073	-0,0139
18	RONY	2019	5.482.312.551	16.071.998.988	0,3411	0,073	0,0249
		2020	-4.491.203.029	34.895.342.922	-0,1287	0,073	-0,0094
		2021	-2.712.292.867	31.963.724.698	-0,0849	0,073	-0,0062
		2022	-27.055.758.654	4.575.163.671	-5,9136	0,073	-0,4317
		2023	232.204.380	4.734.311.166	0,0490	0,073	0,0036
		2024	1.949.583.488	6.580.404.153	0,2963	0,073	0,0216
19	PTDU	2019	3.330.592.894	25.425.023.520	0,1310	0,073	0,0096
		2020	2.969.670.249	89.881.315.871	0,0330	0,073	0,0024
		2021	3.013.975.528	95.640.202.818	0,0315	0,073	0,0023
		2022	-65.531.004.469	69.112.038.993	-0,9482	0,073	-0,0692
		2023	-33.781.303.948	35.415.147.288	-0,9539	0,073	-0,0696
		2024	-42.254.433.841	-5.811.645.614	7,2706	0,073	0,5308
20	FIMP	2019	2.282.423.828	10.703.254.180	0,2132	0,073	0,0156
		2020	633.422.004	12.326.968.486	0,0514	0,073	0,0038
		2021	-934.707.642	29.450.615.592	-0,0317	0,073	-0,0023
		2022	546.397.566	30.028.933.134	0,0182	0,073	0,0013
		2023	641.785.968	30.687.285.219	0,0209	0,073	0,0015
		2024	310.073.419	31.022.798.849	0,0100	0,073	0,0007
21	BDKR	2019	31.032.504.288	41.383.647.944	0,7499	0,073	0,0547
		2020	92.683.790.283	103.872.178.219	0,8923	0,073	0,0651
		2021	23.262.364.418	503.280.762.973	0,0462	0,073	0,0034
		2022	79.458.218.055	561.952.713.815	0,1414	0,073	0,0103
		2023	91.151.091.491	784.427.171.222	0,1162	0,073	0,0085
		2024	29.002.501.013	780.432.739.589	0,0372	0,073	0,0027

### X4 = Cash Flow From Operation / Total Liabilities

X4 = Cash Flow From Operation/Total Liabilities							
No	Perusahaan	Tahun	OCF	Total Liabilities	X4	Rasio	Hasil
1	SSIA	2019	-122.618.235.569	3.614.266.973.106	-0,0339	1,27	-0,0431
		2020	-810.840.016.295	3.394.293.916.916	-0,2389	1,27	-0,3034
		2021	-340.788.908.730	3.701.617.769.634	-0,0921	1,27	-0,1169
		2022	-150.799.754.785	4.030.178.652.850	-0,0374	1,27	-0,0475
		2023	257.229.904.188	3.973.318.760.457	0,0647	1,27	0,0822
		2024	718.141.112.332	2.373.731.110.555	0,3025	1,27	0,3842
2	ADHI	2019	539.161.836.488	29.681.535.534.528	0,0182	1,27	0,0231
		2020	1.378.098.474.761	32.519.078.179.194	0,0424	1,27	0,0538
		2021	1.516.124.833.702	34.242.630.632.194	0,0443	1,27	0,0562
		2022	1.224.436.816.989	31.162.625.753.138	0,0393	1,27	0,0499
		2023	83.852.724.255	31.273.238.239.002	0,0027	1,27	0,0034
		2024	1.467.031.639.037	25.367.590.883.911	0,0578	1,27	0,0734
3	TOTL	2019	154.813.740	1.886.089.201	0,0821	1,27	0,1042
		2020	-59.682.127	1.749.895.710	-0,0341	1,27	-0,0433
		2021	137.001.924	1.495.422.466	0,0916	1,27	0,1164
		2022	280.407.629	1.750.251.774	0,1602	1,27	0,2035
		2023	90.512.013	2.065.505.363	0,0438	1,27	0,0557
		2024	650.221.275	2.307.888.171	0,2817	1,27	0,3578
4	WIKA	2019	265.746.277	42.895.114.167	0,0062	1,27	0,0079
		2020	141.278.814	51.451.760.142	0,0027	1,27	0,0035
		2021	-3.737.433.881	51.950.716.634	-0,0719	1,27	-0,0914
		2022	-2.881.595.318	57.576.398.034	-0,0500	1,27	-0,0636
		2023	-3.165.149.948	56.409.622.846	-0,0561	1,27	-0,0713
		2024	68.223.157	51.684.922.956	0,0013	1,27	0,0017
5	JKON	2019	374.638.488	2.230.341.912	0,1680	1,27	0,2133
		2020	134.636.019	1.882.247.833	0,0715	1,27	0,0908
		2021	248.276.515	1.494.665.730	0,1661	1,27	0,2110
		2022	68.903.483	1.445.453.420	0,0477	1,27	0,0605
		2023	214.445.919	1.341.697.603	0,1598	1,27	0,2030
		2024	315.052.763	1.194.860.487	0,2637	1,27	0,3349
6	DGIK	2019	25.301.023.045	665.046.457.667	0,0380	1,27	0,0483
		2020	-58.682.239.791	460.900.233.480	-0,1273	1,27	-0,1617
		2021	-58.046.882.531	360.327.635.212	-0,1611	1,27	-0,2046
		2022	-15.081.002.370	300.410.269.231	-0,0502	1,27	-0,0638
		2023	-67.405.918.670	284.283.795.445	-0,2371	1,27	-0,3011
		2024	16.408.995.564	511.396.029.647	0,0321	1,27	0,0408
7	PTPP	2019	306.284.732.747	41.118.567.863.618	0,0074	1,27	0,0095
		2020	-268.989.679.129	39.465.460.560.026	-0,0068	1,27	-0,0087
		2021	468.698.302.439	41.243.694.054.027	0,0114	1,27	0,0144
		2022	268.445.188.094	42.791.330.842.175	0,0063	1,27	0,0080
		2023	436.303.933.866	41.381.651.241.880	0,0105	1,27	0,0134
		2024	285.584.131.868	41.334.800.497.741	0,0069	1,27	0,0088
8	WSKT	2019	9.014.249.440.062	93.470.790.161.572	0,0964	1,27	0,1225
		2020	411.061.644.702	89.011.405.294.715	0,0046	1,27	0,0059
		2021	192.784.236.637	88.140.178.639.510	0,0022	1,27	0,0028
		2022	-106.580.889.785	83.987.631.948.080	-0,0013	1,27	-0,0016
		2023	2.323.661.280.064	83.994.385.906.808	0,0277	1,27	0,0351
		2024	-2.384.136.797.152	69.275.555.503.364	-0,0344	1,27	-0,0437
9	ACST	2019	-341.724	10.160.043	-0,0336	1,27	-0,0427
		2020	1.761.692	2.731.074	0,6451	1,27	0,8192
		2021	197.089	1.362.982	0,1446	1,27	0,1836
		2022	-216.864	1.440.027	-0,1506	1,27	-0,1913
		2023	-101.705	2.212.725	-0,0460	1,27	-0,0584
		2024	-122.713	2.953.727	-0,0415	1,27	-0,0528
10	NRCA	2019	-68.373.075.003	1.241.648.295.607	-0,0551	1,27	-0,0699
		2020	-140.738.938.560	1.068.303.801.217	-0,1317	1,27	-0,1673
		2021	132.805.546.864	975.856.372.145	0,1361	1,27	0,1728
		2022	3.923.597.124	1.251.141.710.774	0,0031	1,27	0,0040
		2023	162.601.444.825	1.138.018.030.997	0,1429	1,27	0,1815
		2024	65.058.091.947	1.168.762.362.416	0,0557	1,27	0,0707

X4 = Cash Flow From Operation/Total Liabilities							
No	Perusahaan	Tahun	OCF	Total Liabilities	X4	Rasio	Hasil
11	BUKK	2019	377.699.008	2.297.552.040	0,1644	1,27	0,2088
		2020	731.553.369	2.135.099.539	0,3426	1,27	0,4351
		2021	589.471.617	1.907.850.319	0,3090	1,27	0,3924
		2022	205.700.816	2.431.263.282	0,0846	1,27	0,1075
		2023	1.088.377.019	1.987.817.994	0,5475	1,27	0,6954
		2024	157.762.613	2.486.224.553	0,0635	1,27	0,0806
12	IDPR	2019	69.473.721.681	780.919.773.607	0,0890	1,27	0,1130
		2020	-19.587.278.152	741.212.593.871	-0,0264	1,27	-0,0336
		2021	7.311.442.495	865.435.728.036	0,0084	1,27	0,0107
		2022	-2.760.438.980	911.736.880.381	-0,0030	1,27	-0,0038
		2023	35.845.183.038	1.018.199.988.400	0,0352	1,27	0,0447
		2024	145.353.024.027	816.694.474.501	0,1780	1,27	0,2260
13	PBSA	2019	-2.826.594.535	185.055.593.387	-0,0153	1,27	-0,0194
		2020	49.586.728.211	166.214.951.770	0,2983	1,27	0,3789
		2021	42.313.513.127	195.989.012.014	0,2159	1,27	0,2742
		2022	203.040.612.839	212.406.611.910	0,9559	1,27	1,2140
		2023	200.456.066.284	198.463.552.902	1,0100	1,27	1,2828
		2024	-43.067.830.808	341.623.889.784	-0,1261	1,27	-0,1601
14	PPRE	2019	143.310.500.082	4.598.782.774.693	0,0312	1,27	0,0396
		2020	240.500.120.706	4.053.982.219.401	0,0593	1,27	0,0753
		2021	235.481.989.040	4.050.364.899.099	0,0581	1,27	0,0738
		2022	311.091.832.031	4.438.113.616.291	0,0701	1,27	0,0890
		2023	63.632.884.783	3.849.897.715.635	0,0165	1,27	0,0210
		2024	766.418.634.724	4.154.280.922.152	0,1845	1,27	0,2343
15	MTPS	2019	-49.165.016.261	111.124.883.064	-0,4424	1,27	-0,5619
		2020	89.153.940.475	190.854.636.419	0,4671	1,27	0,5933
		2021	-246.072.015.025	73.586.103.205	-3,3440	1,27	-4,2469
		2022	11.323.744.801	60.633.900.371	0,1868	1,27	0,2372
		2023	9.739.911.131	48.207.340.227	0,2020	1,27	0,2566
		2024	3.100.110.686	41.416.635.304	0,0749	1,27	0,0951
16	PTPW	2019	27.034.657.056	97.447.128.576	0,2774	1,27	0,3523
		2020	25.247.654.725	54.148.326.445	0,4663	1,27	0,5922
		2021	102.796.364.713	106.962.915.693	0,9610	1,27	1,2205
		2022	92.023.237.393	70.284.787.092	1,3093	1,27	1,6628
		2023	58.123.916.094	99.397.692.640	0,5848	1,27	0,7426
		2024	69.315.626.366	101.827.715.999	0,6807	1,27	0,8645
17	TAMA	2019	9.630.810.983	114.545.731.731	0,0841	1,27	0,1068
		2020	-1.847.264.499	118.785.607.144	-0,0156	1,27	-0,0198
		2021	1.286.477.099	124.381.663.630	0,0103	1,27	0,0131
		2022	-20.052.928.160	139.866.349.088	-0,1434	1,27	-0,1821
		2023	-9.134.908.585	141.075.618.398	-0,0648	1,27	-0,0822
		2024	6.352.154.897	148.760.912.383	0,0427	1,27	0,0542
18	RONY	2019	1.221.471.486	4.012.415.123	0,3044	1,27	0,3866
		2020	-23.685.439.442	5.742.678.983	-4,1245	1,27	-5,2381
		2021	-377.664.581	6.709.380.428	-0,0563	1,27	-0,0715
		2022	2.105.812.448	3.509.846.564	0,6000	1,27	0,7620
		2023	-725.215.969	4.018.962.104	-0,1804	1,27	-0,2292
		2024	3.071.602	640.698.432	0,0048	1,27	0,0061
19	PTDU	2019	-7.495.652.003	128.482.120.415	-0,0583	1,27	-0,0741
		2020	-57.327.593.634	141.425.493.830	-0,4054	1,27	-0,5148
		2021	-56.302.566.366	250.767.377.113	-0,2245	1,27	-0,2851
		2022	7.928.868.789	208.026.355.483	0,0381	1,27	0,0484
		2023	-10.665.143.229	174.729.294.971	-0,0610	1,27	-0,0775
		2024	52.852.664.876	154.905.885.860	0,3412	1,27	0,4333
20	FIMP	2019	2.045.891.561	22.229.630.925	0,0920	1,27	0,1169
		2020	13.405.457.115	8.613.485.210	1,5563	1,27	1,9765
		2021	-12.322.571.450	3.497.745.863	-3,5230	1,27	-4,4742
		2022	-1.066.002.016	5.399.427.662	-0,1974	1,27	-0,2507
		2023	2.077.646.835	4.015.425.127	0,5174	1,27	0,6571
		2024	1.831.888.969	4.627.289.818	0,3959	1,27	0,5028
21	BDKR	2019	-57.145.410.689	390.352.042.416	-0,1464	1,27	-0,1859
		2020	203.810.196.155	622.186.741.288	0,3276	1,27	0,4160
		2021	58.388.143.127	329.855.863.924	0,1770	1,27	0,2248
		2022	107.722.690.729	718.000.635.590	0,1500	1,27	0,1905
		2023	-12.724.654.083	763.824.367.820	-0,0167	1,27	-0,0212
		2024	42.025.129.327	571.909.117.200	0,0735	1,27	0,0933

**X5 = Total Liabilities / Total Asset**

X5 = Total Liabilities/Total Asset							
No	Perusahaan	Tahun	Total Liabilities	Total Aset	X5	Rasio	Hasil
1	SSIA	2019	3.614.266.973.106	8.092.446.814.970	0,4466	0,12	0,0536
		2020	3.394.293.916.916	7.625.368.538.389	0,4451	0,12	0,0534
		2021	3.701.617.769.634	7.752.170.523.212	0,4775	0,12	0,0573
		2022	4.030.178.652.850	8.289.646.306.143	0,4862	0,12	0,0583
		2023	3.973.318.760.457	8.416.773.129.280	0,4721	0,12	0,0566
2024	2.373.731.110.555	10.367.405.490.248	0,2290	0,12	0,0275		
2	ADHI	2019	29.681.535.534.528	36.515.833.214.549	0,8128	0,12	0,0975
		2020	32.519.078.179.194	38.093.888.626.552	0,8537	0,12	0,1024
		2021	34.242.630.632.194	39.900.337.834.619	0,8582	0,12	0,1030
		2022	31.162.625.753.138	39.986.417.216.654	0,7793	0,12	0,0935
		2023	31.273.238.239.002	40.492.030.620.079	0,7723	0,12	0,0927
2024	25.367.590.883.911	35.042.781.072.073	0,7239	0,12	0,0869		
3	TOTL	2019	1.886.089.201	2.962.993.701	0,6365	0,12	0,0764
		2020	1.749.895.710	2.889.059.738	0,6057	0,12	0,0727
		2021	1.495.422.466	2.727.306.841	0,5483	0,12	0,0658
		2022	1.750.251.774	2.990.427.306	0,5853	0,12	0,0702
		2023	2.065.505.363	3.132.571.723	0,6594	0,12	0,0791
2024	2.307.888.171	3.495.248.379	0,6603	0,12	0,0792		
4	WIKA	2019	42.895.114.167	62.110.847.154	0,6906	0,12	0,0829
		2020	51.451.760.142	68.109.185.213	0,7554	0,12	0,0907
		2021	51.950.716.634	69.385.794.346	0,7487	0,12	0,0898
		2022	57.576.398.034	75.069.604.222	0,7670	0,12	0,0920
		2023	56.409.622.846	65.981.235.888	0,8549	0,12	0,1026
2024	51.684.922.956	63.556.342.748	0,8132	0,12	0,0976		
5	JKON	2019	2.230.341.912	4.928.108.872	0,4526	0,12	0,0543
		2020	1.882.247.833	4.565.315.258	0,4123	0,12	0,0495
		2021	1.494.665.730	4.145.213.922	0,3606	0,12	0,0433
		2022	1.445.453.420	4.307.485.666	0,3356	0,12	0,0403
		2023	1.341.697.603	4.396.310.133	0,3052	0,12	0,0366
2024	1.194.860.487	4.371.497.764	0,2733	0,12	0,0328		
6	DGIK	2019	665.046.457.667	1.336.201.089.528	0,4977	0,12	0,0597
		2020	460.900.233.480	1.106.977.581.458	0,4164	0,12	0,0500
		2021	360.327.635.212	1.011.376.737.496	0,3563	0,12	0,0428
		2022	300.410.269.231	915.761.782.790	0,3280	0,12	0,0394
		2023	284.283.795.445	915.924.074.237	0,3104	0,12	0,0372
2024	511.396.029.647	1.193.613.189.107	0,4284	0,12	0,0514		
7	PTPP	2019	41.118.567.863.618	56.130.526.187.076	0,7326	0,12	0,0879
		2020	39.465.460.560.026	53.472.450.650.976	0,7381	0,12	0,0886
		2021	41.243.694.054.027	55.573.843.735.084	0,7421	0,12	0,0891
		2022	42.791.330.842.175	57.612.383.140.536	0,7427	0,12	0,0891
		2023	41.381.651.241.880	56.525.042.574.560	0,7321	0,12	0,0879
2024	41.334.800.497.741	56.589.716.015.594	0,7304	0,12	0,0877		
8	WSKT	2019	93.470.790.161.572	122.589.259.350.571	0,7625	0,12	0,0915
		2020	89.011.405.294.715	105.588.960.060.005	0,8430	0,12	0,1012
		2021	88.140.178.639.510	103.601.611.883.340	0,8508	0,12	0,1021
		2022	83.987.631.948.080	98.232.316.628.846	0,8550	0,12	0,1026
		2023	83.994.385.906.808	95.595.897.457.967	0,8786	0,12	0,1054
2024	69.275.555.503.364	77.159.736.864.177	0,8978	0,12	0,1077		
9	ACST	2019	10.160.043	10.446.519	0,9726	0,12	0,1167
		2020	2.731.074	3.055.106	0,8939	0,12	0,1073
		2021	1.362.982	2.478.713	0,5499	0,12	0,0660
		2022	1.440.027	2.111.024	0,6821	0,12	0,0819
		2023	2.212.725	2.608.782	0,8482	0,12	0,1018
2024	2.953.727	2.812.734	1,0501	0,12	0,1260		
10	NRCA	2019	1.241.648.295.607	2.462.813.011.754	0,5042	0,12	0,0605
		2020	1.068.303.801.217	2.221.459.173.567	0,4809	0,12	0,0577
		2021	975.856.372.145	2.142.945.408.364	0,4554	0,12	0,0546
		2022	1.251.141.710.774	2.454.852.311.196	0,5097	0,12	0,0612
		2023	1.138.018.030.997	2.336.265.865.936	0,4871	0,12	0,0585
2024	1.168.762.362.416	2.373.118.335.025	0,4925	0,12	0,0591		

X5 = Total Liabilities/Total Asset							
No	Perusahaan	Tahun	Total Liabilities	Total Aset	X5	Rasio	Hasil
11	BUKK	2019	2.297.552.040	4.739.164.617	0,4848	0,12	0,0582
		2020	2.135.099.539	4.976.221.593	0,4291	0,12	0,0515
		2021	1.907.850.319	5.226.470.342	0,3650	0,12	0,0438
		2022	2.431.263.282	6.259.364.267	0,3884	0,12	0,0466
		2023	1.987.817.994	6.557.621.451	0,3031	0,12	0,0364
		2024	2.486.224.553	7.442.450.327	0,3341	0,12	0,0401
12	IDPR	2019	780.919.773.607	1.985.002.918.764	0,3934	0,12	0,0472
		2020	741.212.593.871	1.508.823.148.421	0,4913	0,12	0,0590
		2021	865.435.728.036	1.497.705.774.236	0,5778	0,12	0,0693
		2022	911.736.880.381	1.542.492.102.329	0,5911	0,12	0,0709
		2023	1.018.199.988.400	1.678.832.977.395	0,6065	0,12	0,0728
		2024	816.694.474.501	1.495.862.407.765	0,5460	0,12	0,0655
13	PBSA	2019	185.055.593.387	722.903.663.896	0,2560	0,12	0,0307
		2020	166.214.951.770	702.230.672.680	0,2367	0,12	0,0284
		2021	195.989.012.014	776.987.707.840	0,2522	0,12	0,0303
		2022	212.406.611.910	857.819.112.060	0,2476	0,12	0,0297
		2023	198.463.552.902	795.622.503.779	0,2494	0,12	0,0299
		2024	341.623.889.784	1.117.111.786.295	0,3058	0,12	0,0367
14	PPRE	2019	4.598.782.774.693	7.760.863.409.420	0,5926	0,12	0,0711
		2020	4.053.982.219.401	6.895.982.045.724	0,5879	0,12	0,0705
		2021	4.050.364.899.099	7.029.648.280.015	0,5762	0,12	0,0691
		2022	4.438.113.616.291	7.588.440.332.245	0,5849	0,12	0,0702
		2023	3.849.897.715.635	7.164.990.158.071	0,5373	0,12	0,0645
		2024	4.154.280.922.152	7.648.848.575.168	0,5431	0,12	0,0652
15	MTPS	2019	111.124.883.064	479.498.184.124	0,2318	0,12	0,0278
		2020	190.854.636.419	530.170.000.286	0,3600	0,12	0,0432
		2021	73.586.103.205	181.330.659.418	0,4058	0,12	0,0487
		2022	60.633.900.371	125.183.529.972	0,4844	0,12	0,0581
		2023	48.207.340.227	96.894.946.269	0,4975	0,12	0,0597
		2024	41.416.635.304	85.134.019.903	0,4865	0,12	0,0584
16	PTPW	2019	97.447.128.576	345.981.911.383	0,2817	0,12	0,0338
		2020	54.148.326.445	435.830.715.625	0,1242	0,12	0,0149
		2021	106.962.915.693	540.852.700.018	0,1978	0,12	0,0237
		2022	70.284.787.092	584.467.532.735	0,1203	0,12	0,0144
		2023	99.397.692.640	700.196.420.981	0,1420	0,12	0,0170
		2024	101.827.715.999	731.052.503.381	0,1393	0,12	0,0167
17	TAMA	2019	114.545.731.731	137.020.378.518	0,8360	0,12	0,1003
		2020	118.785.607.144	168.703.297.233	0,7041	0,12	0,0845
		2021	124.381.663.630	174.567.890.012	0,7125	0,12	0,0855
		2022	139.866.349.088	199.223.626.548	0,7021	0,12	0,0842
		2023	141.075.618.398	194.029.937.436	0,7271	0,12	0,0872
		2024	148.760.912.383	193.250.326.244	0,7698	0,12	0,0924
18	RONY	2019	4.012.415.123	20.084.414.111	0,1998	0,12	0,0240
		2020	5.742.678.983	40.638.021.905	0,1413	0,12	0,0170
		2021	6.709.380.428	38.673.105.126	0,1735	0,12	0,0208
		2022	3.509.846.564	8.085.010.235	0,4341	0,12	0,0521
		2023	4.018.962.104	8.753.273.270	0,4591	0,12	0,0551
		2024	640.698.432	7.221.102.585	0,0887	0,12	0,0106
19	PTDU	2019	128.482.120.415	153.907.143.935	0,8348	0,12	0,1002
		2020	141.425.493.830	231.306.809.701	0,6114	0,12	0,0734
		2021	250.767.377.113	346.407.579.931	0,7239	0,12	0,0869
		2022	208.026.355.483	277.138.394.476	0,7506	0,12	0,0901
		2023	174.729.294.971	210.144.442.259	0,8315	0,12	0,0998
		2024	154.905.885.860	149.094.240.246	1,0390	0,12	0,1247
20	FIMP	2019	22.229.630.925	32.932.885.105	0,6750	0,12	0,0810
		2020	8.613.485.210	20.940.453.696	0,4113	0,12	0,0494
		2021	3.497.745.863	32.948.361.455	0,1062	0,12	0,0127
		2022	5.399.427.662	35.428.360.796	0,1524	0,12	0,0183
		2023	4.015.425.127	34.702.710.346	0,1157	0,12	0,0139
		2024	4.627.289.818	35.650.088.667	0,1298	0,12	0,0156
21	BDKR	2019	390.352.042.416	431.735.690.360	0,9041	0,12	0,1085
		2020	622.186.741.288	726.058.919.507	0,8569	0,12	0,1028
		2021	329.855.863.924	833.136.626.897	0,3959	0,12	0,0475
		2022	718.000.635.590	1.279.953.349.405	0,5610	0,12	0,0673
		2023	763.824.367.820	1.548.251.539.042	0,4933	0,12	0,0592
		2024	571.909.117.200	1.352.341.856.789	0,4229	0,12	0,0507

### X6 = Current Liabilities / Total Asset

X6 = Current Liabilities/Total Asset							
No	Perusahaan	Tahun	Current Liabilities	Total Asset	X6	Rasio	Hasil
1	SSIA	2019	1.713.172.966.844	8.092.446.814.970	0,2117	2,335	0,4943
		2020	1.862.687.652.750	7.625.368.538.389	0,2443	2,335	0,5704
		2021	1.451.839.941.799	7.752.170.523.212	0,1873	2,335	0,4373
		2022	1.831.407.799.386	8.289.646.306.143	0,2209	2,335	0,5159
		2023	1.521.061.385.408	8.416.773.129.280	0,1807	2,335	0,4220
2	ADHI	2019	1.552.122.829.970	10.367.405.490.248	0,1497	2,335	0,3496
		2020	24.562.726.968.328	36.515.833.214.549	0,6727	2,335	1,5707
		2021	27.069.198.362.836	38.093.888.626.552	0,7106	2,335	1,6592
		2022	31.127.451.942.313	39.900.337.834.619	0,7801	2,335	1,8216
		2023	24.618.080.064.517	39.986.417.216.654	0,6157	2,335	1,4376
3	TOTL	2024	24.981.176.224.581	40.492.030.620.079	0,6169	2,335	1,4406
		2019	20.049.429.384.176	35.042.781.072.073	0,5721	2,335	1,3360
		2020	1.604.722.681	2.962.993.701	0,5416	2,335	1,2646
		2021	1.476.857.796	2.889.059.738	0,5112	2,335	1,1936
		2022	1.295.029.101	2.727.306.841	0,4748	2,335	1,1087
4	WIKA	2023	1.564.009.237	2.990.427.306	0,5230	2,335	1,2212
		2024	1.884.006.952	3.132.571.723	0,6014	2,335	1,4043
		2019	2.125.434.204	3.495.248.379	0,6081	2,335	1,4199
		2020	30.349.456.945	62.110.847.154	0,4886	2,335	1,1410
		2021	44.168.467.736	68.109.185.213	0,6485	2,335	1,5142
5	JKON	2022	36.135.331.415	75.069.604.222	0,4814	2,335	1,1240
		2023	38.437.293.595	65.981.235.888	0,5825	2,335	1,3603
		2024	19.023.299.774	63.556.342.748	0,2993	2,335	0,6989
		2019	1.972.160.394	4.928.108.872	0,4002	2,335	0,9344
		2020	1.628.187.787	4.565.315.258	0,3566	2,335	0,8328
6	DGIK	2021	1.137.368.741	4.145.213.922	0,2744	2,335	0,6407
		2022	1.224.355.589	4.307.485.666	0,2842	2,335	0,6637
		2023	1.194.347.666	4.396.310.133	0,2717	2,335	0,6344
		2024	1.077.459.953	4.371.497.764	0,2465	2,335	0,5755
		2019	559.177.625.818	1.336.201.089.528	0,4185	2,335	0,9772
7	PTPP	2020	356.719.675.394	1.106.977.581.458	0,3222	2,335	0,7524
		2021	288.277.893.730	1.011.376.737.496	0,2850	2,335	0,6656
		2022	264.205.010.423	915.761.782.790	0,2885	2,335	0,6737
		2023	256.461.776.096	915.924.074.237	0,2800	2,335	0,6538
		2024	491.713.674.391	1.193.613.189.107	0,4120	2,335	0,9619
8	WSKT	2019	29.768.643.810.275	56.130.526.187.076	0,5303	2,335	1,2384
		2020	27.986.826.929.242	53.472.450.650.976	0,5234	2,335	1,2221
		2021	30.145.580.969.254	55.573.843.735.084	0,5424	2,335	1,2666
		2022	26.763.803.653.441	57.612.383.140.536	0,4645	2,335	1,0847
		2023	26.992.211.625.904	56.525.042.574.560	0,4775	2,335	1,1150
9	ACST	2024	22.639.226.493.874	56.589.716.015.594	0,4001	2,335	0,9341
		2019	45.023.495.139.583	122.589.259.350.571	0,3673	2,335	0,8576
		2020	48.237.835.913.277	105.588.960.060.005	0,4568	2,335	1,0667
		2021	27.201.562.416.697	103.601.611.883.340	0,2626	2,335	0,6131
		2022	21.452.886.385.290	98.232.316.628.846	0,2184	2,335	0,5099
10	NRCA	2023	22.907.148.966.464	95.595.897.457.967	0,2396	2,335	0,5595
		2024	22.498.266.300.063	77.159.736.864.177	0,2916	2,335	0,6808
		2019	9.994.920	10.446.519	0,9568	2,335	2,2341
		2020	2.620.265	3.055.106	0,8577	2,335	2,0027
		2021	1.288.711	2.478.713	0,5199	2,335	1,2140
10	NRCA	2022	1.397.747	2.111.024	0,6621	2,335	1,5460
		2023	2.170.056	2.608.782	0,8318	2,335	1,9423
		2024	2.911.454	2.812.734	1,0351	2,335	2,4170
		2019	1.138.448.895.846	2.462.813.011.754	0,4623	2,335	1,0794
		2020	963.898.747.486	2.221.459.173.567	0,4339	2,335	1,0132
10	NRCA	2021	890.539.846.897	2.142.945.408.364	0,4156	2,335	0,9704
		2022	1.162.654.210.757	2.454.852.311.196	0,4736	2,335	1,1059
		2023	1.042.849.914.823	2.336.265.865.936	0,4464	2,335	1,0423
		2024	1.057.582.278.430	2.373.118.335.025	0,4457	2,335	1,0406

X6 = Current Liabilities/Total Asset							
No	Perusahaan	Tahun	Current Liabilities	Total Asset	X6	Rasio	Hasil
11	BUKK	2019	2.153.362.549	4.739.164.617	0,4544	2,335	1,0610
		2020	1.979.705.085	4.976.221.593	0,3978	2,335	0,9289
		2021	1.764.084.342	5.226.470.342	0,3375	2,335	0,7881
		2022	1.761.592.729	6.259.364.267	0,2814	2,335	0,6571
		2023	1.716.135.661	6.557.621.451	0,2617	2,335	0,6111
		2024	1.696.804.934	7.442.450.327	0,2280	2,335	0,5324
12	IDPR	2019	466.632.444.423	1.985.002.918.764	0,2351	2,335	0,5489
		2020	452.864.586.839	1.508.823.148.421	0,3001	2,335	0,7008
		2021	592.176.776.536	1.497.705.774.236	0,3954	2,335	0,9232
		2022	628.259.396.615	1.542.492.102.329	0,4073	2,335	0,9510
		2023	858.130.015.277	1.678.832.977.395	0,5111	2,335	1,1935
		2024	718.156.737.842	1.495.862.407.765	0,4801	2,335	1,1210
13	PBSA	2019	169.307.343.263	722.903.663.896	0,2342	2,335	0,5469
		2020	149.973.011.766	702.230.672.680	0,2136	2,335	0,4987
		2021	185.890.931.795	776.987.707.840	0,2392	2,335	0,5586
		2022	202.684.342.970	857.819.112.060	0,2363	2,335	0,5517
		2023	186.870.697.975	795.622.503.779	0,2349	2,335	0,5484
		2024	333.112.158.509	1.117.111.786.295	0,2982	2,335	0,6963
14	PPRE	2019	3.433.911.106.307	7.760.863.409.420	0,4425	2,335	1,0332
		2020	3.079.420.543.326	6.895.982.045.724	0,4466	2,335	1,0427
		2021	3.555.623.197.732	7.029.648.280.015	0,5058	2,335	1,1811
		2022	3.795.391.008.899	7.588.440.332.245	0,5002	2,335	1,1679
		2023	3.223.008.646.012	7.164.990.158.071	0,4498	2,335	1,0503
		2024	3.134.261.627.402	7.648.848.575.168	0,4098	2,335	0,9568
15	MTPS	2019	67.522.565.784	479.498.184.124	0,1408	2,335	0,3288
		2020	146.911.528.150	530.170.000.286	0,2771	2,335	0,6470
		2021	73.096.414.459	181.330.659.418	0,4031	2,335	0,9413
		2022	60.189.869.405	125.183.529.972	0,4808	2,335	1,1227
		2023	47.512.896.101	96.894.946.269	0,4904	2,335	1,1450
		2024	25.921.411.385	85.134.019.903	0,3045	2,335	0,7110
16	PTPW	2019	72.697.668.920	345.981.911.383	0,2101	2,335	0,4906
		2020	42.426.107.159	435.830.715.625	0,0973	2,335	0,2273
		2021	97.286.281.035	540.852.700.018	0,1799	2,335	0,4200
		2022	58.125.997.620	584.467.532.735	0,0995	2,335	0,2322
		2023	82.700.725.864	700.196.420.981	0,1181	2,335	0,2758
		2024	86.704.934.749	731.052.503.381	0,1186	2,335	0,2769
17	TAMA	2019	59.529.217.508	137.020.378.518	0,4345	2,335	1,0145
		2020	69.689.655.173	168.703.297.233	0,4131	2,335	0,9646
		2021	73.186.923.487	174.567.890.012	0,4192	2,335	0,9789
		2022	62.132.994.420	199.223.626.548	0,3119	2,335	0,7282
		2023	53.008.821.351	194.029.937.436	0,2732	2,335	0,6379
		2024	67.897.718.498	193.250.326.244	0,3513	2,335	0,8204
18	RONY	2019	2.730.474.148	20.084.414.111	0,1359	2,335	0,3174
		2020	2.607.449.661	40.638.021.905	0,0642	2,335	0,1498
		2021	3.667.517.622	38.673.105.126	0,0948	2,335	0,2214
		2022	3.102.028.251	8.085.010.235	0,3837	2,335	0,8959
		2023	3.989.704.181	8.753.273.270	0,4558	2,335	1,0643
		2024	555.448.518	7.221.102.585	0,0769	2,335	0,1796
19	PTDU	2019	116.569.602.920	153.907.143.935	0,7574	2,335	1,7685
		2020	138.921.904.961	231.306.809.701	0,6006	2,335	1,4024
		2021	227.646.842.784	346.407.579.931	0,6572	2,335	1,5345
		2022	174.596.793.716	277.138.394.476	0,6300	2,335	1,4710
		2023	135.172.862.199	210.144.442.259	0,6432	2,335	1,5020
		2024	118.146.517.811	149.094.240.246	0,7924	2,335	1,8503
20	FIMP	2019	7.121.727.099	32.932.885.105	0,2162	2,335	0,5049
		2020	7.698.532.772	20.940.453.696	0,3676	2,335	0,8584
		2021	2.970.758.897	32.948.361.455	0,0902	2,335	0,2105
		2022	2.888.495.423	35.428.360.796	0,0815	2,335	0,1904
		2023	3.597.509.988	34.702.710.346	0,1037	2,335	0,2421
		2024	4.221.235.867	35.650.088.667	0,1184	2,335	0,2765
21	BDKR	2019	371.660.051.940	431.735.690.360	0,8609	2,335	2,0101
		2020	601.337.828.801	726.058.919.507	0,8282	2,335	1,9339
		2021	240.805.792.038	833.136.626.897	0,2890	2,335	0,6749
		2022	399.502.446.149	1.279.953.349.405	0,3121	2,335	0,7288
		2023	429.418.433.660	1.548.251.539.042	0,2774	2,335	0,6476
		2024	229.941.750.108	1.352.341.856.789	0,1700	2,335	0,3970

**X7 = Log (Fixed Asset)**

X7 = Log (Fixed Asset)						
No	Perusahaan	Tahun	LogFA	X7	Rasio	Hasil
1	SSIA	2019	12,6058	12,6058	0,575	7,2483
		2020	12,6648	12,6648	0,575	7,2823
		2021	12,6761	12,6761	0,575	7,2888
		2022	12,6958	12,6958	0,575	7,3001
		2023	12,7145	12,7145	0,575	7,3108
		2024	12,7547	12,7547	0,575	7,3340
2	ADHI	2019	12,7924	12,7924	0,575	7,3556
		2020	12,9033	12,9033	0,575	7,4194
		2021	12,9190	12,9190	0,575	7,4284
		2022	13,0167	13,0167	0,575	7,4846
		2023	13,0759	13,0759	0,575	7,5186
		2024	13,0977	13,0977	0,575	7,5312
3	TOTL	2019	8,8326	8,8326	0,575	5,0787
		2020	8,8370	8,8370	0,575	5,0813
		2021	8,8301	8,8301	0,575	5,0773
		2022	8,8245	8,8245	0,575	5,0741
		2023	8,7977	8,7977	0,575	5,0587
		2024	8,8924	8,8924	0,575	5,1131
4	WIKA	2019	10,2961	10,2961	0,575	5,9203
		2020	10,3038	10,3038	0,575	5,9247
		2021	10,5078	10,5078	0,575	6,0420
		2022	13,8115	13,8115	0,575	7,9416
		2023	13,8685	13,8685	0,575	7,9744
		2024	10,5227	10,5227	0,575	6,0506
5	JKON	2019	9,3522	9,3522	0,575	5,3775
		2020	9,2831	9,2831	0,575	5,3378
		2021	9,2341	9,2341	0,575	5,3096
		2022	9,2846	9,2846	0,575	5,3386
		2023	9,3156	9,3156	0,575	5,3565
		2024	9,3288	9,3288	0,575	5,3641
6	DGIK	2019	11,7578	11,7578	0,575	6,7607
		2020	11,7652	11,7652	0,575	6,7650
		2021	11,7296	11,7296	0,575	6,7445
		2022	11,7472	11,7472	0,575	6,7546
		2023	11,7114	11,7114	0,575	6,7341
		2024	11,7507	11,7507	0,575	6,7567
7	PTPP	2019	13,2350	13,2350	0,575	7,6101
		2020	13,2910	13,2910	0,575	7,6423
		2021	13,3393	13,3393	0,575	7,6701
		2022	13,4017	13,4017	0,575	7,7060
		2023	13,4114	13,4114	0,575	7,7116
		2024	13,4388	13,4388	0,575	7,7273
8	WSKT	2019	13,8666	13,8666	0,575	7,9733
		2020	13,8642	13,8642	0,575	7,9719
		2021	13,8542	13,8542	0,575	7,9662
		2022	13,8115	13,8115	0,575	7,9416
		2023	13,8685	13,8685	0,575	7,9744
		2024	13,7545	13,7545	0,575	7,9088
9	ACST	2019	5,9955	5,9955	0,575	3,4474
		2020	5,9267	5,9267	0,575	3,4079
		2021	5,8263	5,8263	0,575	3,3501
		2022	5,7025	5,7025	0,575	3,2789
		2023	5,6453	5,6453	0,575	3,2460
		2024	5,5071	5,5071	0,575	3,1666
10	NRCA	2019	11,4123	11,4123	0,575	6,5621
		2020	11,3781	11,3781	0,575	6,5424
		2021	11,3203	11,3203	0,575	6,5092
		2022	11,3127	11,3127	0,575	6,5048
		2023	11,3356	11,3356	0,575	6,5180
		2024	11,5267	11,5267	0,575	6,6279

X7 = Log (Fixed Asset)						
No	Perusahaan	Tahun	LogFA	X7	Rasio	Hasil
11	BUKK	2019	9,3436	9,3436	0,575	5,3726
		2020	9,4194	9,4194	0,575	5,4162
		2021	9,4928	9,4928	0,575	5,4584
		2022	9,6028	9,6028	0,575	5,5216
		2023	9,7062	9,7062	0,575	5,5811
12	IDPR	2024	9,7719	9,7719	0,575	5,6188
		2019	11,9868	11,9868	0,575	6,8924
		2020	11,9416	11,9416	0,575	6,8664
		2021	11,8951	11,8951	0,575	6,8397
		2022	11,8704	11,8704	0,575	6,8255
13	PBSA	2023	11,8478	11,8478	0,575	6,8125
		2024	11,8214	11,8214	0,575	6,7973
		2019	11,3167	11,3167	0,575	6,5071
		2020	11,3388	11,3388	0,575	6,5198
		2021	11,2006	11,2006	0,575	6,4403
14	PPRE	2022	11,3063	11,3063	0,575	6,5011
		2023	11,3303	11,3303	0,575	6,5149
		2024	11,3565	11,3565	0,575	6,5300
		2019	12,5076	12,5076	0,575	7,1919
		2020	12,4626	12,4626	0,575	7,1660
15	MTPS	2021	12,4490	12,4490	0,575	7,1582
		2022	12,4287	12,4287	0,575	7,1465
		2023	12,3423	12,3423	0,575	7,0968
		2024	12,3573	12,3573	0,575	7,1054
		2019	10,8993	10,8993	0,575	6,2671
16	PTPW	2020	10,4879	10,4879	0,575	6,0305
		2021	10,8534	10,8534	0,575	6,2407
		2022	10,8106	10,8106	0,575	6,2161
		2023	10,7307	10,7307	0,575	6,1702
		2024	10,7471	10,7471	0,575	6,1796
17	TAMA	2019	11,2305	11,2305	0,575	6,4575
		2020	11,3078	11,3078	0,575	6,5020
		2021	11,3968	11,3968	0,575	6,5532
		2022	11,3883	11,3883	0,575	6,5483
		2023	11,4475	11,4475	0,575	6,5823
18	RONY	2024	11,4856	11,4856	0,575	6,6042
		2019	11,0716	11,0716	0,575	6,3662
		2020	11,1914	11,1914	0,575	6,4351
		2021	11,2115	11,2115	0,575	6,4466
		2022	11,2369	11,2369	0,575	6,4612
19	PTDU	2023	11,2399	11,2399	0,575	6,4629
		2024	11,2372	11,2372	0,575	6,4614
		2019	10,0726	10,0726	0,575	5,7917
		2020	10,5489	10,5489	0,575	6,0656
		2021	10,5158	10,5158	0,575	6,0466
20	FIMP	2022	9,4665	9,4665	0,575	5,4432
		2023	9,2654	9,2654	0,575	5,3276
		2024	9,0452	9,0452	0,575	5,2010
		2019	10,8494	10,8494	0,575	6,2384
		2020	10,8609	10,8609	0,575	6,2450
21	BDKR	2021	13,8542	13,8542	0,575	7,9662
		2022	13,8115	13,8115	0,575	7,9416
		2023	10,9901	10,9901	0,575	6,3193
		2024	10,9752	10,9752	0,575	6,3107
		2019	10,3746	10,3746	0,575	5,9654
20	FIMP	2020	10,2985	10,2985	0,575	5,9216
		2021	10,2483	10,2483	0,575	5,8928
		2022	10,1305	10,1305	0,575	5,8250
		2023	9,9681	9,9681	0,575	5,7317
		2024	9,7056	9,7056	0,575	5,5807
21	BDKR	2019	11,2266	11,2266	0,575	6,4553
		2020	11,2535	11,2535	0,575	6,4708
		2021	11,6940	11,6940	0,575	6,7241
		2022	11,9276	11,9276	0,575	6,8584
		2023	11,9174	11,9174	0,575	6,8525
2024	11,8450	11,8450	0,575	6,8109		

**X8 = Working Capital / Total Liabilities**

<b>X8 = Working Capital/Total Liabilities</b>							
No	Perusahaan	Tahun	Working Capital	Total Liabilities	X8	Rasio	Hasil
1	SSIA	2019	2.344.430.600.090	3.614.266.973.106	0,6487	1,083	0,7025
		2020	1.141.400.299.102	3.394.293.916.916	0,3363	1,083	0,3642
		2021	1.556.397.165.199	3.701.617.769.634	0,4205	1,083	0,4554
		2022	1.493.461.403.496	4.030.178.652.850	0,3706	1,083	0,4013
		2023	1.713.825.063.478	3.973.318.760.457	0,4313	1,083	0,4671
2	ADHI	2019	3.130.062.474.846	2.373.731.110.555	1,3186	1,083	1,4281
		2020	5.752.428.309.693	29.681.535.534.528	0,1938	1,083	0,2099
		2021	3.021.305.023.509	32.519.078.179.194	0,0929	1,083	0,1006
		2022	473.490.983.904	34.242.630.632.194	0,0138	1,083	0,0150
		2023	4.975.423.802.453	31.162.625.753.138	0,1597	1,083	0,1729
3	TOTL	2024	3.599.374.539.016	31.273.238.239.002	0,1151	1,083	0,1246
		2019	2.468.928.138.140	25.367.590.883.911	0,0973	1,083	0,1054
		2020	678.181.359	1.886.089.201	0,3596	1,083	0,3894
		2021	725.044.365	1.749.895.710	0,4143	1,083	0,4487
		2022	756.002.176	1.495.422.466	0,5055	1,083	0,5475
4	WIKA	2023	758.552.390	1.750.251.774	0,4334	1,083	0,4694
		2024	620.804.233	2.065.505.363	0,3006	1,083	0,3255
		2019	589.211.555	2.307.888.171	0,2553	1,083	0,2765
		2020	11.986.014.913	42.895.114.167	0,2794	1,083	0,3026
		2021	3.812.477.989	51.451.760.142	0,0741	1,083	0,0802
5	JKON	2022	217.064.209	51.950.716.634	0,0042	1,083	0,0045
		2023	3.499.463.282	57.576.398.034	0,0608	1,083	0,0658
		2024	-7.635.637.613	56.409.622.846	-0,1354	1,083	-0,1466
		2019	11.215.218.797	51.684.922.956	0,2170	1,083	0,2350
		2020	705.909.741	2.230.341.912	0,3165	1,083	0,3428
6	DGIK	2021	1.017.943.788	1.882.247.833	0,5408	1,083	0,5857
		2022	1.293.625.486	1.494.665.730	0,8655	1,083	0,9373
		2023	1.157.164.247	1.445.453.420	0,8006	1,083	0,8670
		2024	1.133.773.426	1.341.697.603	0,8450	1,083	0,9152
		2019	1.162.104.075	1.194.860.487	0,9726	1,083	1,0533
7	PTPP	2020	204.451.974.588	665.046.457.667	0,3074	1,083	0,3329
		2021	167.806.269.839	460.900.233.480	0,3641	1,083	0,3943
		2022	186.543.104.050	360.327.635.212	0,5177	1,083	0,5607
		2023	92.842.671.003	300.410.269.231	0,3091	1,083	0,3347
		2024	144.879.819.548	284.283.795.445	0,5096	1,083	0,5519
8	WSKT	2019	138.581.156.082	511.396.029.647	0,2710	1,083	0,2935
		2020	9.179.892.472.792	41.118.567.863.618	0,2233	1,083	0,2418
		2021	5.938.111.621.432	39.465.460.560.026	0,1505	1,083	0,1630
		2022	3.586.187.362.077	41.243.694.054.027	0,0870	1,083	0,0942
		2023	5.627.919.173.104	42.791.330.842.175	0,1315	1,083	0,1424
9	ACST	2024	3.746.129.620.073	41.381.651.241.880	0,0905	1,083	0,0980
		2019	6.481.225.286.174	41.334.800.497.741	0,1568	1,083	0,1698
		2020	4.014.347.746.537	93.470.790.161.572	0,0429	1,083	0,0465
		2021	-15.699.073.320.031	89.011.405.294.715	-0,1764	1,083	-0,1910
		2022	15.387.046.989.628	88.140.178.639.510	0,1746	1,083	0,1891
10	NRCA	2023	11.977.356.539.159	83.987.631.948.080	0,1426	1,083	0,1544
		2024	-1.184.019.144.133	83.994.385.906.808	-0,0141	1,083	-0,0153
		2019	-2.060.723.710.448	69.275.555.503.364	-0,0297	1,083	-0,0322
		2020	-538.088	10.160.043	-0,0530	1,083	-0,0574
		2021	-409.901	2.731.074	-0,1501	1,083	-0,1625
10	NRCA	2022	519.658	1.362.982	0,3813	1,083	0,4129
		2023	209.226	1.440.027	0,1453	1,083	0,1574
		2024	-3.142	2.212.725	-0,0014	1,083	-0,0015
		2019	-420.134	2.953.727	-0,1422	1,083	-0,1540
		2020	1.065.977.115.409	1.241.648.295.607	0,8585	1,083	0,9298
10	NRCA	2021	1.018.723.214.556	1.068.303.801.217	0,9536	1,083	1,0327
		2022	1.043.319.669.480	975.856.372.145	1,0691	1,083	1,1579
		2023	1.086.759.592.636	1.251.141.710.774	0,8686	1,083	0,9407
		2024	1.076.856.834.673	1.138.018.030.997	0,9463	1,083	1,0248
		2025	979.250.578.043	1.168.762.362.416	0,8379	1,083	0,9074

<b>X8 = Working Capital/Total Liabilities</b>							
<b>No</b>	<b>Perusahaan</b>	<b>Tahun</b>	<b>Working Capital</b>	<b>Total Liabilities</b>	<b>X8</b>	<b>Rasio</b>	<b>Hasil</b>
11	BUKK	2019	379.772.193	2.297.552.040	0,1653	1,083	0,1790
		2020	370.048.345	2.135.099.539	0,1733	1,083	0,1877
		2021	351.955.524	1.907.850.319	0,1845	1,083	0,1998
		2022	490.543.518	2.431.263.282	0,2018	1,083	0,2185
		2023	-242.835.201	1.987.817.994	-0,1222	1,083	-0,1323
		2024	-169.306.473	2.486.224.553	-0,0681	1,083	-0,0737
12	IDPR	2019	-3.651.298.665.767	780.919.773.607	-4,6756	1,083	-5,0637
		2020	181.836.321.881	741.212.593.871	0,2453	1,083	0,2657
		2021	120.134.464.631	865.435.728.036	0,1388	1,083	0,1503
		2022	172.261.188.041	911.736.880.381	0,1889	1,083	0,2046
		2023	116.327.795.540	1.018.199.988.400	0,1142	1,083	0,1237
		2024	114.825.158.670	816.694.474.501	0,1406	1,083	0,1523
13	PBSA	2019	346.238.028.564	185.055.593.387	1,8710	1,083	2,0263
		2020	334.071.821.640	166.214.951.770	2,0099	1,083	2,1767
		2021	432.373.663.837	195.989.012.014	2,2061	1,083	2,3892
		2022	452.674.667.341	212.406.611.910	2,1312	1,083	2,3081
		2023	394.780.712.369	198.463.552.902	1,9892	1,083	2,1543
		2024	556.725.942.908	341.623.889.784	1,6296	1,083	1,7649
14	PPRE	2019	1.108.826.080.814	4.598.782.774.693	0,2411	1,083	0,2611
		2020	915.448.229.095	4.053.982.219.401	0,2258	1,083	0,2446
		2021	661.736.964.598	4.050.364.899.099	0,1634	1,083	0,1769
		2022	1.109.409.481.348	4.438.113.616.291	0,2500	1,083	0,2707
		2023	1.742.565.970.017	3.849.897.715.635	0,4526	1,083	0,4902
		2024	2.238.019.382.608	4.154.280.922.152	0,5387	1,083	0,5834
15	MTPS	2019	332.669.687.044	111.124.883.064	2,9937	1,083	3,2421
		2020	352.498.325.836	190.854.636.419	1,8469	1,083	2,0002
		2021	36.887.602.553	73.586.103.205	0,5013	1,083	0,5429
		2022	345.442.020	60.633.900.371	0,0057	1,083	0,0062
		2023	-4.414.709.274	48.207.340.227	-0,0916	1,083	-0,0992
		2024	3.350.738.786	41.416.635.304	0,0809	1,083	0,0876
16	PTPW	2019	103.243.485.239	97.447.128.576	1,0595	1,083	1,1474
		2020	190.264.279.122	54.148.326.445	3,5138	1,083	3,8054
		2021	194.206.268.468	106.962.915.693	1,8156	1,083	1,9663
		2022	281.796.441.787	70.284.787.092	4,0094	1,083	4,3421
		2023	337.282.215.039	99.397.692.640	3,3933	1,083	3,6749
		2024	338.418.448.678	101.827.715.999	3,3234	1,083	3,5993
17	TAMA	2019	-40.440.623.930	114.545.731.731	-0,3531	1,083	-0,3824
		2020	-56.371.082.252	118.785.607.144	-0,4746	1,083	-0,5140
		2021	-61.357.463.764	124.381.663.630	-0,4933	1,083	-0,5342
		2022	-35.470.168.963	139.866.349.088	-0,2536	1,083	-0,2746
		2023	-32.743.898.908	141.075.618.398	-0,2321	1,083	-0,2514
		2024	-47.308.005.658	148.760.912.383	-0,3180	1,083	-0,3444
18	RONY	2019	5.533.989.785	4.012.415.123	1,3792	1,083	1,4937
		2020	2.640.653.812	5.742.678.983	0,4598	1,083	0,4980
		2021	2.211.705.902	6.709.380.428	0,3296	1,083	0,3570
		2022	-2.586.320.388	3.509.846.564	-0,7369	1,083	-0,7980
		2023	2.921.261.776	4.018.962.104	0,7269	1,083	0,7872
		2024	5.555.989.546	640.698.432	8,6718	1,083	9,3915
19	PTDU	2019	-33.358.987.474	128.482.120.415	-0,2596	1,083	-0,2812
		2020	19.784.678.115	141.425.493.830	0,1399	1,083	0,1515
		2021	48.301.055.026	250.767.377.113	0,1926	1,083	0,2086
		2022	2.363.384.745	208.026.355.483	0,0114	1,083	0,0123
		2023	-22.776.268.797	174.729.294.971	-0,1304	1,083	-0,1412
		2024	-63.498.789.047	154.905.885.860	-0,4099	1,083	-0,4439
20	FIMP	2019	2.116.854.437	22.229.630.925	0,0952	1,083	0,1031
		2020	-6.640.080.237	8.613.485.210	-0,7709	1,083	-0,8349
		2021	12.261.879.186	3.497.745.863	3,5057	1,083	3,7966
		2022	19.035.054.953	5.399.427.662	3,5254	1,083	3,8180
		2023	21.814.037.850	4.015.425.127	5,4326	1,083	5,8835
		2024	26.351.338.204	4.627.289.818	5,6948	1,083	6,1674
21	BDKR	2019	-108.415.421.832	390.352.042.416	-0,2777	1,083	-0,3008
		2020	-54.544.301.281	622.186.741.288	-0,0877	1,083	-0,0949
		2021	98.004.246.891	329.855.863.924	0,2971	1,083	0,3218
		2022	34.014.845.354	718.000.635.590	0,0474	1,083	0,0513
		2023	292.104.086.355	763.824.367.820	0,3824	1,083	0,4142
		2024	422.482.447.587	571.909.117.200	0,7387	1,083	0,8000

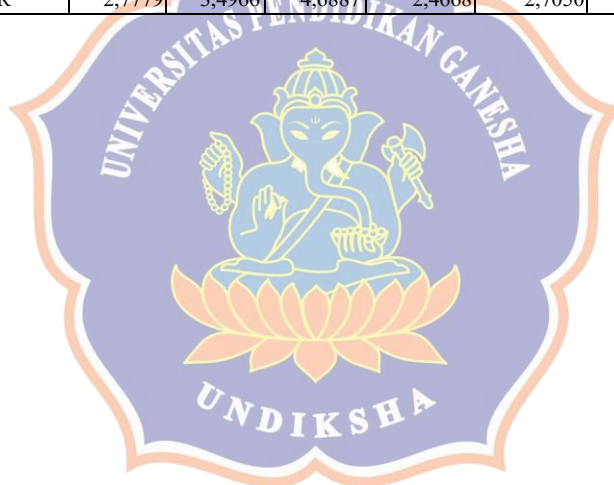
$$X9 = \text{Log (EBIT) / Interest Expense}$$

X9 = Log (Earning Before Interest and Taxes)/Interest Expense							
No	Perusahaan	Tahun	LogEBIT	Interest Expense	X9	Rasio	Hasil
1	SSIA	2019	11,6230	-176.649	-0,06579	0,894	-0,0588
		2020	11,2389	-201.865	-0,05567	0,894	-0,0498
		2021	11,0254	-222.389	-0,05018	0,894	-0,0449
		2022	11,7398	-233.944	-0,05672	0,894	-0,0507
		2023	11,7705	-207.490	-0,05673	0,894	-0,0507
		2024	11,9273	-188.012	-0,06344	0,894	-0,0567
2	ADHI	2019	12,1589	-563.790	-0,02157	0,894	-0,0193
		2020	12,0035	-794.518	-0,01511	0,894	-0,0135
		2021	12,0496	-864.488	-0,01394	0,894	-0,0125
		2022	12,0293	-806.691	-0,01491	0,894	-0,0133
		2023	12,1596	-809.086	-0,01503	0,894	-0,0134
		2024	11,8464	-837.538	-0,01414	0,894	-0,0126
3	TOTL	2019	8,3328	-27.579	-0,00030	0,894	-0,0003
		2020	8,1684	-75.002	-0,00010	0,894	-0,0001
		2021	8,0387	-42.293	-0,00019	0,894	-0,0002
		2022	8,1175	-77.582	-0,00010	0,894	-0,0001
		2023	8,2950	-85.429	-0,09709	0,894	-0,0868
		2024	8,4909	-82.250	-0,10323	0,894	-0,0923
4	WIKA	2019	9,5675	-884.252	-0,00001	0,894	0,0000
		2020	9,1655	-1.221	-0,00751	0,894	-0,0067
		2021	9,0504	-1.157	-0,00782	0,894	-0,0070
		2022	9,2343	-1.371	-0,00674	0,894	-0,0060
		2023	9,5830	-3.206	-0,00299	0,894	-0,0027
		2024	9,2979	-3.282	-0,00283	0,894	-0,0025
5	JKON	2019	8,4926	-104.278	-0,08144	0,894	-0,0728
		2020	8,1529	-47.862	-0,00017	0,894	-0,0002
		2021	8,0632	-45.350	-0,00018	0,894	-0,0002
		2022	8,3518	-19.660	-0,00042	0,894	-0,0004
		2023	8,4493	-31.646	-0,00027	0,894	-0,0002
		2024	8,1765	-19.627	-0,00042	0,894	-0,0004
6	DGIK	2019	10,3019	-29.182	-0,00035	0,894	-0,0003
		2020	10,5286	-10.296	-0,00102	0,894	-0,0009
		2021	10,0668	-4.509	-0,00223	0,894	-0,0020
		2022	10,3412	-3.483	-0,00297	0,894	-0,0027
		2023	8,8218	-3.588	-0,00246	0,894	-0,0022
		2024	10,5438	-3.035	-0,00347	0,894	-0,0031
7	PTPP	2019	12,4232	-782.155	-0,01589	0,894	-0,0142
		2020	12,2293	-894.583	-0,01367	0,894	-0,0122
		2021	12,4129	-1.343	-0,00911	0,894	-0,0081
		2022	12,3020	-1.255	-0,00980	0,894	-0,0088
		2023	12,2262	-1.206	-0,01014	0,894	-0,0091
		2024	12,2510	-1.891	-0,00648	0,894	-0,0058
8	WSKT	2019	12,7193	-3.620	-0,00351	0,894	-0,0031
		2020	12,6374	-4.741	-0,00267	0,894	-0,0024
		2021	12,6102	-4.840	-0,00261	0,894	-0,0023
		2022	12,2941	-4.286	-0,00287	0,894	-0,0026
		2023	11,9653	-4.419	-0,00271	0,894	-0,0024
		2024	11,4282	-4.339	-0,00263	0,894	-0,0024
9	ACST	2019	5,5883	-619.635	-0,00902	0,894	-0,0081
		2020	6,0069	-285.705	-0,02102	0,894	-0,0188
		2021	5,7585	-79.306	-0,07261	0,894	-0,0649
		2022	5,5876	-35.587	-0,00016	0,894	-0,0001
		2023	5,2712	-24.961	-0,00021	0,894	-0,0002
		2024	5,5659	-69.180	-0,08045	0,894	-0,0719
10	NRCA	2019	11,2367	-4.029	-0,00279	0,894	-0,0025
		2020	11,1285	-14.948	-0,00074	0,894	-0,0007
		2021	11,1073	-16.373	-0,00068	0,894	-0,0006
		2022	11,2074	-18.301	-0,00061	0,894	-0,0005
		2023	11,2873	-12.505	-0,00090	0,894	-0,0008
		2024	11,2909	-13.995	-0,00081	0,894	-0,0007

X9 = Log (Earning Before Interest and Taxes)/Interest Expense							
No	Perusahaan	Tahun	LogEBIT	Interest Expense	X9	Rasio	Hasil
11	BUKK	2019	8,8341	-107.036	-0,08253	0,894	-0,0738
		2020	8,7706	-104.664	-0,08379	0,894	-0,0749
		2021	8,7851	-115.563	-0,07682	0,894	-0,0687
		2022	8,7548	-62.810	-0,00013	0,894	-0,0001
		2023	8,8052	-63.322	-0,00014	0,894	-0,0001
		2024	8,4559	-77.948	-0,00011	0,894	-0,0001
12	IDPR	2019	10,1645	-15.318	-0,00066	0,894	-0,0006
		2020	11,5278	-43.182	-0,00027	0,894	-0,0002
		2021	11,0053	-40.338	-0,00027	0,894	-0,0002
		2022	10,6424	-42.769	-0,00025	0,894	-0,0002
		2023	10,9315	-49.742	-0,00022	0,894	-0,0002
		2024	10,8707	-46.581	-0,00023	0,894	-0,0002
13	PBSA	2019	10,5652	-603.742	-0,01749	0,894	-0,0156
		2020	10,7565	-1.080	-0,00997	0,894	-0,0089
		2021	10,9381	-667.106	-0,01639	0,894	-0,0147
		2022	11,1870	-1.307	-0,00856	0,894	-0,0077
		2023	11,0472	-1.407	-0,00785	0,894	-0,0070
		2024	11,2821	-1.528	-0,00738	0,894	-0,0066
14	PPRE	2019	11,7955	-287.209	-0,04106	0,894	-0,0367
		2020	11,2749	-292.731	-0,03851	0,894	-0,0344
		2021	11,5458	-200.010	-0,05773	0,894	-0,0516
		2022	11,6925	-230.326	-0,05076	0,894	-0,0454
		2023	11,7098	-230.514	-0,05079	0,894	-0,0454
		2024	11,8371	-331.705	-0,03568	0,894	-0,0319
15	MTPS	2019	10,3612	-3.059	-0,00339	0,894	-0,0030
		2020	10,4546	-6.457	-0,00162	0,894	-0,0014
		2021	10,6247	-5.755	-0,00185	0,894	-0,0017
		2022	10,6247	-5.755	-0,00185	0,894	-0,0017
		2023	10,0659	-4.860	-0,00207	0,894	-0,0019
		2024	9,8754	-3.972	-0,00249	0,894	-0,0022
16	PTPW	2019	10,7319	-7.170	-0,00149	0,894	-0,0013
		2020	10,6112	-9.770	-0,00109	0,894	-0,0010
		2021	10,7753	-7.458	-0,00144	0,894	-0,0013
		2022	10,9349	-5.855	-0,00187	0,894	-0,0017
		2023	11,0405	-6.921	-0,00159	0,894	-0,0014
		2024	10,5349	-6.044	-0,00174	0,894	-0,0016
17	TAMA	2019	10,0295	-9.146	-0,00110	0,894	-0,0010
		2020	9,7182	-9.533	-0,00102	0,894	-0,0009
		2021	10,0049	-9.977	-0,00100	0,894	-0,0009
		2022	9,7660	-10.832	-0,00090	0,894	-0,0008
		2023	9,6649	-11.009	-0,00088	0,894	-0,0008
		2024	9,7421	-14.020	-0,00069	0,894	-0,0006
18	RONY	2019	9,7418	-61.284	-0,00016	0,894	-0,0001
		2020	9,5831	-663.945	-0,01443	0,894	-0,0129
		2021	9,4129	-124.839	-0,07541	0,894	-0,0674
		2022	10,4308	-93.426	-0,00011	0,894	-0,0001
		2023	8,4445	-46.333	-0,00018	0,894	-0,0002
		2024	8,2908	-15.958	-0,00052	0,894	-0,0005
19	PTDU	2019	9,9389	-5.148	-0,00193	0,894	-0,0017
		2020	9,8586	-4.555	-0,00216	0,894	-0,0019
		2021	10,5044	-8.915	-0,00118	0,894	-0,0011
		2022	10,5661	-10.552	-0,00100	0,894	-0,0009
		2023	10,7114	-8.073	-0,00133	0,894	-0,0012
		2024	10,5656	-1.252	-0,00844	0,894	-0,0075
20	FIMP	2019	9,5577	-790.608	-0,01209	0,894	-0,0108
		2020	9,2049	-724.285	-0,01271	0,894	-0,0114
		2021	8,7708	-162.038	-0,05413	0,894	-0,0484
		2022	8,8750	-7.191	-0,00123	0,894	-0,0011
		2023	8,8074	-304.028	-0,02897	0,894	-0,0259
		2024	8,4915	-356.785	-0,02381	0,894	-0,0213
21	BDKR	2019	10,3898	-1.569	-0,00662	0,894	-0,0059
		2020	11,1267	-1.657	-0,00671	0,894	-0,0060
		2021	10,6542	-20.904	-0,00051	0,894	-0,0005
		2022	10,4459	-30.342	-0,00034	0,894	-0,0003
		2023	11,0293	-20.638	-0,00053	0,894	-0,0005
		2024	10,7204	-30.416	-0,00035	0,894	-0,0003

### Hasil Perhitungan dan Indeks Kebangkrutan Model Fulmer

No	Perusahaan	Tahun						Rata-Rata	Prediksi
		2019	2020	2021	2022	2023	2024		
1	SSIA	4,3480	3,8382	3,8170	3,9794	4,1921	5,1566	4,2219	TB
2	ADHI	3,5772	3,3913	3,4757	3,3284	3,3324	3,3565	3,4103	TB
3	TOTL	2,2411	2,2290	2,6497	2,6455	2,0957	2,4576	2,3864	TB
4	WIKA	1,9626	1,7589	1,4372	3,2777	2,7135	0,4117	1,9269	TB
5	JKON	2,8865	2,9725	3,4342	3,4936	3,8643	4,2172	3,4781	TB
6	DGIK	1,5666	0,9083	0,8690	0,8014	0,9095	1,7230	1,1296	TB
7	PTPP	3,4307	3,2323	3,2757	3,1906	3,2407	3,1917	3,2603	TB
8	WSKT	3,3486	2,6416	2,2993	1,9893	1,6794	1,2804	2,2064	TB
9	ACST	-1,1674	-4,1401	-7,1693	-9,7544	-8,3087	-8,3104	-6,4751	B
10	NRCA	4,0831	3,9897	4,4388	4,1065	4,4335	4,3369	4,2314	TB
11	BUKK	2,7425	3,1568	3,4261	3,1073	3,9116	3,1270	3,2452	TB
12	IDPR	-1,7446	2,4510	2,1329	2,1824	2,5010	2,7110	1,7056	TB
13	PBSA	3,6435	4,2845	4,3678	5,7389	5,4022	4,4228	4,6433	TB
14	PPRE	2,9720	2,7370	2,8413	2,9894	3,0633	3,3370	2,9900	TB
15	MTPS	3,6255	3,2166	-9,7301	-10,6316	-15,1364	-18,1124	-7,7947	B
16	PTPW	5,2779	7,6590	6,7534	9,9612	8,6060	8,7274	7,8308	TB
17	TAMA	1,1029	0,6843	0,7616	0,4072	0,2653	0,2299	0,5752	TB
18	RONY	3,5988	-4,5313	0,0849	-20,3938	-17,7838	-12,4708	-8,5827	B
19	PTDU	2,2687	1,1853	3,4447	2,0912	-1,0795	-2,6307	0,8800	TB
20	FIMP	2,2686	1,9419	-0,7861	3,5092	6,5269	6,5847	3,3409	TB
21	BDKR	2,7779	3,4966	4,6887	2,4668	2,7050	2,9971	3,1887	TB



### Lampiran 3. Tabulasi Data Model Springate

$$S\text{-Score} = 1,03X1 + 3,07X2 + 0,66X3 + 0,4X4$$

**X1 = Working Capital / Total Asset**

X1 = Working Capital/Total Asset							
No	Perusahaan	Tahun	Working Capital	Total Asset	X1	Rasio	Hasil
1	SSIA	2019	2.344.430.600.090	8.092.446.814.970	0,2897	1,03	0,2984
		2020	1.141.400.299.102	7.625.368.538.389	0,1497	1,03	0,1542
		2021	1.556.397.165.199	7.752.170.523.212	0,2008	1,03	0,2068
		2022	1.493.461.403.496	8.289.646.306.143	0,1802	1,03	0,1856
		2023	1.713.825.063.478	8.416.773.129.280	0,2036	1,03	0,2097
		2024	3.130.062.474.846	10.367.405.490.248	0,3019	1,03	0,3110
2	ADHI	2019	5.752.428.309.693	36.515.833.214.549	0,1575	1,03	0,1623
		2020	3.021.305.023.509	38.093.888.626.552	0,0793	1,03	0,0817
		2021	473.490.983.904	39.900.337.834.619	0,0119	1,03	0,0122
		2022	4.975.423.802.453	39.986.417.216.654	0,1244	1,03	0,1282
		2023	3.599.374.539.016	40.492.030.620.079	0,0889	1,03	0,0916
		2024	2.468.928.138.140	35.042.781.072.073	0,0705	1,03	0,0726
3	TOTL	2019	678.181.359	2.962.993.701	0,2289	1,03	0,2358
		2020	725.044.365	2.889.059.738	0,2510	1,03	0,2585
		2021	756.002.176	2.727.306.841	0,2772	1,03	0,2855
		2022	758.552.390	2.990.427.306	0,2537	1,03	0,2613
		2023	620.804.233	3.132.571.723	0,1982	1,03	0,2041
		2024	589.211.555	3.495.248.379	0,1686	1,03	0,1736
4	WIKA	2019	11.986.014.913	62.110.847.154	0,1930	1,03	0,1988
		2020	3.812.477.989	68.109.185.213	0,0560	1,03	0,0577
		2021	217.064.209	69.385.794.346	0,0031	1,03	0,0032
		2022	3.499.463.282	75.069.604.222	0,0466	1,03	0,0480
		2023	-7.635.637.613	65.981.235.888	-0,1157	1,03	-0,1192
		2024	11.215.218.797	63.556.342.748	0,1765	1,03	0,1818
5	JKON	2019	705.909.741	4.928.108.872	0,1432	1,03	0,1475
		2020	1.017.943.788	4.565.315.258	0,2230	1,03	0,2297
		2021	1.293.625.486	4.145.213.922	0,3121	1,03	0,3214
		2022	1.157.164.247	4.307.485.666	0,2686	1,03	0,2767
		2023	1.133.773.426	4.396.310.133	0,2579	1,03	0,2656
		2024	1.162.104.075	4.371.497.764	0,2658	1,03	0,2738
6	DGIK	2019	204.451.974.588	1.336.201.089.528	0,1530	1,03	0,1576
		2020	167.806.269.839	1.106.977.581.458	0,1516	1,03	0,1561
		2021	186.543.104.050	1.011.376.737.496	0,1844	1,03	0,1900
		2022	92.842.671.003	915.761.782.790	0,1014	1,03	0,1044
		2023	144.879.819.548	915.924.074.237	0,1582	1,03	0,1629
		2024	138.581.156.082	1.193.613.189.107	0,1161	1,03	0,1196
7	PTPP	2019	9.179.892.472.792	56.130.526.187.076	0,1635	1,03	0,1685
		2020	5.938.111.621.432	53.472.450.650.976	0,1110	1,03	0,1144
		2021	3.586.187.362.077	55.573.843.735.084	0,0645	1,03	0,0665
		2022	5.627.919.173.104	57.612.383.140.536	0,0977	1,03	0,1006
		2023	3.746.129.620.073	56.525.042.574.560	0,0663	1,03	0,0683
		2024	6.481.225.286.174	56.589.716.015.594	0,1145	1,03	0,1180
8	WSKT	2019	4.014.347.746.537	122.589.259.350.571	0,0327	1,03	0,0337
		2020	-15.699.073.320.031	105.588.960.060.005	-0,1487	1,03	-0,1531
		2021	15.387.046.989.628	103.601.611.883.340	0,1485	1,03	0,1530
		2022	11.977.356.539.159	98.232.316.628.846	0,1219	1,03	0,1256
		2023	-1.184.019.144.133	95.595.897.457.967	-0,0124	1,03	-0,0128
		2024	-2.060.723.710.448	77.159.736.864.177	-0,0267	1,03	-0,0275
9	ACST	2019	-538.088	10.446.519	-0,0515	1,03	-0,0531
		2020	-409.901	3.055.106	-0,1342	1,03	-0,1382
		2021	519.658	2.478.713	0,2096	1,03	0,2159
		2022	209.226	2.111.024	0,0991	1,03	0,1021
		2023	-3.142	2.608.782	-0,0012	1,03	-0,0012
		2024	-420.134	2.812.734	-0,1494	1,03	-0,1538

XI = Working Capital/Total Asset							
No	Perusahaan	Tahun	Working Capital	Total Asset	XI	Rasio	Hasil
10	NRCA	2019	1.065.977.115.409	2.462.813.011.754	0,4328	1,03	0,4458
		2020	1.018.723.214.556	2.221.459.173.567	0,4586	1,03	0,4723
		2021	1.043.319.669.480	2.142.945.408.364	0,4869	1,03	0,5015
		2022	1.086.759.592.636	2.454.852.311.196	0,4427	1,03	0,4560
		2023	1.076.856.834.673	2.336.265.865.936	0,4609	1,03	0,4748
11	BUKK	2019	379.772.193	4.739.164.617	0,0801	1,03	0,0825
		2020	370.048.345	4.976.221.593	0,0744	1,03	0,0766
		2021	351.955.524	5.226.470.342	0,0673	1,03	0,0694
		2022	490.543.518	6.259.364.267	0,0784	1,03	0,0807
		2023	-242.835.201	6.557.621.451	-0,0370	1,03	-0,0381
12	IDPR	2019	-169.306.473	7.442.450.327	-0,0227	1,03	-0,0234
		2020	-3.651.298.665.767	1.985.002.918.764	-1,8394	1,03	-1,8946
		2021	181.836.321.881	1.508.823.148.421	0,1205	1,03	0,1241
		2022	120.134.464.631	1.497.705.774.236	0,0802	1,03	0,0826
		2023	172.261.188.041	1.542.492.102.329	0,1117	1,03	0,1150
13	PBSA	2024	114.825.158.670	1.495.862.407.765	0,0768	1,03	0,0791
		2019	346.238.028.564	722.903.663.896	0,4790	1,03	0,4933
		2020	334.071.821.640	702.230.672.680	0,4757	1,03	0,4900
		2021	432.373.663.837	776.987.707.840	0,5565	1,03	0,5732
		2022	452.674.667.341	857.819.112.060	0,5277	1,03	0,5435
14	PPRE	2023	394.780.712.369	795.622.503.779	0,4962	1,03	0,5111
		2024	556.725.942.908	1.117.111.786.295	0,4984	1,03	0,5133
		2019	1.108.826.080.814	7.760.863.409.420	0,1429	1,03	0,1472
		2020	915.448.229.095	6.895.982.045.724	0,1328	1,03	0,1367
		2021	661.736.964.598	7.029.648.280.015	0,0941	1,03	0,0970
15	MTPS	2022	1.109.409.481.348	7.588.440.332.245	0,1462	1,03	0,1506
		2023	1.742.565.970.017	7.164.990.158.071	0,2432	1,03	0,2505
		2024	2.238.019.382.608	7.648.848.575.168	0,2926	1,03	0,3014
		2019	332.669.687.044	479.498.184.124	0,6938	1,03	0,7146
		2020	352.498.325.836	530.170.000.286	0,6649	1,03	0,6848
16	PTPW	2021	36.887.602.553	181.330.659.418	0,2034	1,03	0,2095
		2022	345.442.020	125.183.529.972	0,0028	1,03	0,0028
		2023	-4.414.709.274	96.894.946.269	-0,0456	1,03	-0,0469
		2024	3.350.738.786	85.134.019.903	0,0394	1,03	0,0405
		2019	103.243.485.239	345.981.911.383	0,2984	1,03	0,3074
17	TAMA	2020	190.264.279.122	435.830.715.625	0,4366	1,03	0,4497
		2021	194.206.268.468	540.852.700.018	0,3591	1,03	0,3698
		2022	281.796.441.787	584.467.532.735	0,4821	1,03	0,4966
		2023	337.282.215.039	700.196.420.981	0,4817	1,03	0,4961
		2024	338.418.448.678	731.052.503.381	0,4629	1,03	0,4768
18	RONY	2019	-40.440.623.930	137.020.378.518	-0,2951	1,03	-0,3040
		2020	-56.371.082.252	168.703.297.233	-0,3341	1,03	-0,3442
		2021	-61.357.463.764	174.567.890.012	-0,3515	1,03	-0,3620
		2022	-35.470.168.963	199.223.626.548	-0,1780	1,03	-0,1834
		2023	-32.743.898.908	194.029.937.436	-0,1688	1,03	-0,1738
19	PTDU	2024	-47.308.005.658	193.250.326.244	-0,2448	1,03	-0,2521
		2019	5.533.989.785	20.084.414.111	0,2755	1,03	0,2838
		2020	2.640.653.812	40.638.021.905	0,0650	1,03	0,0669
		2021	2.211.705.902	38.673.105.126	0,0572	1,03	0,0589
		2022	-2.586.320.388	8.085.010.235	-0,3199	1,03	-0,3295
20	FIMP	2023	2.921.261.776	8.753.273.270	0,3337	1,03	0,3437
		2024	5.555.989.546	7.221.102.585	0,7694	1,03	0,7925
		2019	-33.358.987.474	153.907.143.935	-0,2167	1,03	-0,2232
		2020	19.784.678.115	231.306.809.701	0,0855	1,03	0,0881
		2021	48.301.055.026	346.407.579.931	0,1394	1,03	0,1436
21	BDKR	2022	2.363.384.745	277.138.394.476	0,0085	1,03	0,0088
		2023	-22.776.268.797	210.144.442.259	-0,1084	1,03	-0,1116
		2024	-63.498.789.047	149.094.240.246	-0,4259	1,03	-0,4387
		2019	2.116.854.437	32.932.885.105	0,0643	1,03	0,0662
		2020	-6.640.080.237	20.940.453.696	-0,3171	1,03	-0,3266
21	BDKR	2021	12.261.879.186	32.948.361.455	0,3722	1,03	0,3833
		2022	19.035.054.953	35.428.360.796	0,5373	1,03	0,5534
		2023	21.814.037.850	34.702.710.346	0,6286	1,03	0,6475
		2024	26.351.338.204	35.650.088.667	0,7392	1,03	0,7613
		2019	-108.415.421.832	431.735.690.360	-0,2511	1,03	-0,2586
21	BDKR	2020	-54.544.301.281	726.058.919.507	-0,0751	1,03	-0,0774
		2021	98.004.246.891	833.136.626.897	0,1176	1,03	0,1212
		2022	34.014.845.354	1.279.953.349.405	0,0266	1,03	0,0274
		2023	292.104.086.355	1.548.251.539.042	0,1887	1,03	0,1943
		2024	422.482.447.587	1.352.341.856.789	0,3124	1,03	0,3218

**X2 = Earning Before Interest and Taxes / Total Asset**

X2 = Earning Before Interest and Taxes/Total Asset							
No	Perusahaan	Tahun	EBIT	Total Asset	X2	Rasio	Hasil
1	SSIA	2019	419.759.346.710	8.092.446.814.970	0,0519	3,07	0,1592
		2020	173.324.595.706	7.625.368.538.389	0,0227	3,07	0,0698
		2021	106.037.502.278	7.752.170.523.212	0,0137	3,07	0,0420
		2022	549.270.800.348	8.289.646.306.143	0,0663	3,07	0,2034
		2023	589.493.099.733	8.416.773.129.280	0,0700	3,07	0,2150
		2024	845.923.357.770	10.367.405.490.248	0,0816	3,07	0,2505
2	ADHI	2019	1.441.986.307.340	36.515.833.214.549	0,0395	3,07	0,1212
		2020	1.008.032.859.535	38.093.888.626.552	0,0265	3,07	0,0812
		2021	1.121.060.745.373	39.900.337.834.619	0,0281	3,07	0,0863
		2022	1.069.919.829.414	39.986.417.216.654	0,0268	3,07	0,0821
		2023	1.444.124.639.006	40.492.030.620.079	0,0357	3,07	0,1095
		2024	702.100.847.972	35.042.781.072.073	0,0200	3,07	0,0615
3	TOTL	2019	215.174.903	2.962.993.701	0,0726	3,07	0,2229
		2020	147.359.288	2.889.059.738	0,0510	3,07	0,1566
		2021	109.310.898	2.727.306.841	0,0401	3,07	0,1230
		2022	131.066.736	2.990.427.306	0,0438	3,07	0,1346
		2023	197.255.260	3.132.571.723	0,0630	3,07	0,1933
		2024	309.712.055	3.495.248.379	0,0886	3,07	0,2720
4	WIKA	2019	3.694.394.752	62.110.847.154	0,0595	3,07	0,1826
		2020	1.463.941.728	68.109.185.213	0,0215	3,07	0,0660
		2021	1.122.984.859	69.385.794.346	0,0162	3,07	0,0497
		2022	1.715.151.718	75.069.604.222	0,0228	3,07	0,0701
		2023	-3.828.451.221	65.981.235.888	-0,0580	3,07	-0,1781
		2024	1.986.001.949	63.556.342.748	0,0312	3,07	0,0959
5	JKON	2019	310.906.624	4.928.108.872	0,0631	3,07	0,1937
		2020	142.202.133	4.565.315.258	0,0311	3,07	0,0956
		2021	115.659.975	4.145.213.922	0,0279	3,07	0,0857
		2022	224.828.158	4.307.485.666	0,0522	3,07	0,1602
		2023	281.362.118	4.396.310.133	0,0640	3,07	0,1965
		2024	150.130.142	4.371.497.764	0,0343	3,07	0,1054
6	DGIK	2019	-21.318.644.536	1.336.201.089.528	-0,0160	3,07	-0,0490
		2020	-37.114.557.082	1.106.977.581.458	-0,0335	3,07	-0,1029
		2021	-13.441.964.330	1.011.376.737.496	-0,0133	3,07	-0,0408
		2022	-9.615.373.041	915.761.782.790	-0,0105	3,07	-0,0322
		2023	13.998.070.023	915.924.074.237	0,0153	3,07	0,0469
		2024	40.337.351.702	1.193.613.189.107	0,0338	3,07	0,1037
7	PTPP	2019	2.650.031.354.692	56.130.526.187.076	0,0472	3,07	0,1449
		2020	1.695.740.456.802	53.472.450.650.976	0,0317	3,07	0,0974
		2021	-2.587.535.517.527	55.573.843.735.084	-0,0466	3,07	-0,1429
		2022	2.004.718.357.717	57.612.383.140.536	0,0348	3,07	0,1068
		2023	1.683.507.373.081	56.525.042.574.560	0,0298	3,07	0,0914
		2024	1.782.409.910.802	56.589.716.015.594	0,0315	3,07	0,0967
8	WSKT	2019	5.239.471.615.685	122.589.259.350.571	0,0427	3,07	0,1312
		2020	-4.339.358.932.366	105.588.960.060.005	-0,0411	3,07	-0,1262
		2021	4.075.569.078.936	103.601.611.883.340	0,0393	3,07	0,1208
		2022	1.968.373.511.190	98.232.316.628.846	0,0200	3,07	0,0615
		2023	923.294.095.848	95.595.897.457.967	0,0097	3,07	0,0297
		2024	268.031.728.774	77.159.736.864.177	0,0035	3,07	0,0107
9	ACST	2019	-387.574	10.446.519	-0,0371	3,07	-0,1139
		2020	-1.015.970	3.055.106	-0,3325	3,07	-1,0209
		2021	-573.502	2.478.713	-0,2314	3,07	-0,7103
		2022	-386.938	2.111.024	-0,1833	3,07	-0,5627
		2023	-186.729	2.608.782	-0,0716	3,07	-0,2197
		2024	-368.044	2.812.734	-0,1308	3,07	-0,4017

X2 = Earning Before Interest and Taxes/Total Asset							
No	Perusahaan	Tahun	EBIT	Total Asset	X2	Rasio	Hasil
10	NRCA	2019	172.457.594.407	2.462.813.011.754	0,0700	3,07	0,2150
		2020	134.435.943.414	2.221.459.173.567	0,0605	3,07	0,1858
		2021	128.026.360.395	2.142.945.408.364	0,0597	3,07	0,1834
		2022	161.202.872.779	2.454.852.311.196	0,0657	3,07	0,2016
		2023	193.779.040.056	2.336.265.865.936	0,0829	3,07	0,2546
11	BUKK	2019	682.467.125	4.739.164.617	0,1440	3,07	0,4421
		2020	589.649.910	4.976.221.593	0,1185	3,07	0,3638
		2021	609.647.162	5.226.470.342	0,1166	3,07	0,3581
		2022	568.211.533	6.259.364.267	0,0908	3,07	0,2787
		2023	638.521.846	6.557.621.451	0,0974	3,07	0,2989
12	IDPR	2019	285.684.442	7.442.450.327	0,0384	3,07	0,1178
		2020	14.606.552.108	1.985.002.918.764	0,0074	3,07	0,0226
		2021	-337.135.185.463	1.508.823.148.421	-0,2234	3,07	-0,6860
		2022	-101.239.924.295	1.497.705.774.236	-0,0676	3,07	-0,2075
		2023	43.890.679.518	1.542.492.102.329	0,0285	3,07	0,0874
13	PBSA	2024	85.405.810.371	1.678.832.977.395	0,0509	3,07	0,1562
		2019	36.745.641.534	722.903.663.896	0,0508	3,07	0,1561
		2020	57.081.216.786	702.230.672.680	0,0813	3,07	0,2495
		2021	86.722.697.580	776.987.707.840	0,1116	3,07	0,3427
		2022	153.816.084.186	857.819.112.060	0,1793	3,07	0,5505
14	PPRE	2023	111.472.889.768	795.622.503.779	0,1401	3,07	0,4301
		2024	191.485.592.765	1.117.111.786.295	0,1714	3,07	0,5262
		2019	624.530.712.202	7.760.863.409.420	0,0805	3,07	0,2470
		2020	188.314.894.573	6.895.982.045.724	0,0273	3,07	0,0838
		2021	351.383.943.301	7.029.648.280.015	0,0500	3,07	0,1535
15	MTPS	2022	492.580.334.362	7.588.440.332.245	0,0649	3,07	0,1993
		2023	512.661.127.627	7.164.990.158.071	0,0716	3,07	0,2197
		2024	687.200.556.399	7.648.848.575.168	0,0898	3,07	0,2758
		2019	22.970.535.799	479.498.184.124	0,0479	3,07	0,1471
		2020	-28.487.685.197	530.170.000.286	-0,0537	3,07	-0,1650
16	PTPW	2021	-227.603.728.662	181.330.659.418	-1,2552	3,07	-3,8534
		2022	-42.136.314.985	125.183.529.972	-0,3366	3,07	-1,0334
		2023	-11.638.679.069	96.894.946.269	-0,1201	3,07	-0,3688
		2024	-7.505.723.460	85.134.019.903	-0,0882	3,07	-0,2707
		2019	53.949.817.481	345.981.911.383	0,1559	3,07	0,4787
17	TAMA	2020	40.850.338.209	435.830.715.625	0,0937	3,07	0,2878
		2021	59.602.542.955	540.852.700.018	0,1102	3,07	0,3383
		2022	86.098.014.265	584.467.532.735	0,1473	3,07	0,4522
		2023	109.781.298.167	700.196.420.981	0,1568	3,07	0,4813
		2024	34.276.568.206	731.052.503.381	0,0469	3,07	0,1439
18	RONY	2019	10.704.030.813	137.020.378.518	0,0781	3,07	0,2398
		2020	5.226.906.972	168.703.297.233	0,0310	3,07	0,0951
		2021	10.112.689.674	174.567.890.012	0,0579	3,07	0,1778
		2022	5.834.952.127	199.223.626.548	0,0293	3,07	0,0899
		2023	4.623.633.018	194.029.937.436	0,0238	3,07	0,0732
19	PTDU	2024	5.522.753.389	193.250.326.244	0,0286	3,07	0,0877
		2019	5.537.583.203	20.084.414.111	0,2757	3,07	0,8464
		2020	-3.829.627.354	40.638.021.905	-0,0942	3,07	-0,2893
		2021	-2.587.740.832	38.673.105.126	-0,0669	3,07	-0,2054
		2022	-26.962.556.382	8.085.010.235	-3,3349	3,07	-10,2381
20	FIMP	2023	278.331.813	8.753.273.270	0,0318	3,07	0,0976
		2024	195.353.242	7.221.102.585	0,0271	3,07	0,0831
		2019	-8.687.832.658	153.907.143.935	-0,0564	3,07	-0,1733
		2020	-7.221.874.317	231.306.809.701	-0,0312	3,07	-0,0959
		2021	-31.948.441.195	346.407.579.931	-0,0922	3,07	-0,2831
21	BDKR	2022	-36.817.362.305	277.138.394.476	-0,1328	3,07	-0,4078
		2023	-51.452.279.460	210.144.442.259	-0,2448	3,07	-0,7517
		2024	-36.776.384.750	149.094.240.246	-0,2467	3,07	-0,7573
		2019	3.611.328.294	32.932.885.105	0,1097	3,07	0,3366
		2020	1.603.091.186	20.940.453.696	0,0766	3,07	0,2350
21	BDKR	2021	-589.887.735	32.948.361.455	-0,0179	3,07	-0,0550
		2022	749.952.869	35.428.360.796	0,0212	3,07	0,0650
		2023	641.785.968	34.702.710.346	0,0185	3,07	0,0568
		2024	310.073.419	35.650.088.667	0,0087	3,07	0,0267
		2019	24.541.135.264	431.735.690.360	0,0568	3,07	0,1745
21	BDKR	2020	133.868.714.537	726.058.919.507	0,1844	3,07	0,5660
		2021	45.100.284.565	833.136.626.897	0,0541	3,07	0,1662
		2022	27.921.104.589	1.279.953.349.405	0,0218	3,07	0,0670
		2023	106.982.433.288	1.548.251.539.042	0,0691	3,07	0,2121
		2024	52.529.038.771	1.352.341.856.789	0,0388	3,07	0,1192

**X3 = Earning Before Taxes / Current Liabilities**

X3 = Earning Before Taxes/Current Liabilities							
No	Perusahaan	Tahun	EBT	Current Liabilities	X3	Rasio	Hasil
1	SSIA	2019	164.833.004.075	1.713.172.966.844	0,0962	0,66	0,0635
		2020	-100.245.386.499	1.862.687.652.750	-0,0538	0,66	-0,0355
		2021	-196.430.536.159	1.451.839.941.799	-0,1353	0,66	-0,0893
		2022	223.352.872.198	1.831.407.799.386	0,1220	0,66	0,0805
		2023	275.100.549.438	1.521.061.385.408	0,1809	0,66	0,1194
		2024	504.262.779.792	1.552.122.829.970	0,3249	0,66	0,2144
2	ADHI	2019	686.491.539.347	24.562.726.968.328	0,0279	0,66	0,0184
		2020	39.735.297.098	27.069.198.362.836	0,0015	0,66	0,0010
		2021	99.232.995.537	31.127.451.942.313	0,0032	0,66	0,0021
		2022	183.299.716.266	24.618.080.064.517	0,0074	0,66	0,0049
		2023	316.103.850.145	24.981.176.224.581	0,0127	0,66	0,0084
		2024	306.752.267.696	20.049.429.384.176	0,0153	0,66	0,0101
3	TOTL	2019	178.313.130	1.604.722.681	0,1111	0,66	0,0733
		2020	112.230.137	1.476.857.796	0,0760	0,66	0,0502
		2021	103.107.715	1.295.029.101	0,0796	0,66	0,0525
		2022	93.219.255	1.564.009.237	0,0596	0,66	0,0393
		2023	175.666.230	1.884.006.952	0,0932	0,66	0,0615
		2024	267.363.654	2.125.434.204	0,1258	0,66	0,0830
4	WIKA	2019	2.789.255.688	30.349.456.945	0,0919	0,66	0,0607
		2020	310.275.688	44.168.467.736	0,0070	0,66	0,0046
		2021	196.664.427	36.969.569.903	0,0053	0,66	0,0035
		2022	176.080.896	36.135.331.415	0,0049	0,66	0,0032
		2023	-7.765.545.396	38.437.293.595	-0,2020	0,66	-0,1333
		2024	-2.461.392.359	19.023.299.774	-0,1294	0,66	-0,0854
5	JKON	2019	258.217.922	1.972.160.394	0,1309	0,66	0,0864
		2020	89.830.345	1.628.187.787	0,0552	0,66	0,0364
		2021	-15.061.799	1.137.368.741	-0,0132	0,66	-0,0087
		2022	250.526.174	1.224.355.589	0,2046	0,66	0,1350
		2023	295.341.967	1.194.347.666	0,2473	0,66	0,1632
		2024	228.914.259	1.077.459.953	0,2125	0,66	0,1402
6	DGIK	2019	4.521.240.594	559.177.625.818	0,0081	0,66	0,0053
		2020	-13.678.152.944	356.719.675.394	-0,0383	0,66	-0,0253
		2021	10.373.008.750	288.277.893.730	0,0360	0,66	0,0237
		2022	9.769.275.667	264.205.010.423	0,0370	0,66	0,0244
		2023	25.748.285.057	256.461.776.096	0,1004	0,66	0,0663
		2024	49.933.242.379	491.713.674.391	0,1015	0,66	0,0670
7	PTPP	2019	1.079.645.616.846	29.768.643.810.275	0,0363	0,66	0,0239
		2020	289.566.658.260	27.986.826.929.242	0,0103	0,66	0,0068
		2021	377.030.362.730	30.145.580.969.254	0,0125	0,66	0,0083
		2022	380.217.951.667	26.763.803.653.441	0,0142	0,66	0,0094
		2023	149.204.119.482	26.992.211.625.904	0,0055	0,66	0,0036
		2024	247.715.735.304	22.639.226.493.874	0,0109	0,66	0,0072
8	WSKT	2019	1.328.649.961.839	45.023.495.139.583	0,0295	0,66	0,0195
		2020	-9.729.421.929.853	48.237.835.913.277	-0,2017	0,66	-0,1331
		2021	-1.086.240.733.799	27.201.562.416.697	-0,0399	0,66	-0,0264
		2022	-1.240.774.727.573	21.452.886.385.290	-0,0578	0,66	-0,0382
		2023	-3.776.859.396.600	22.907.148.966.464	-0,1649	0,66	-0,1088
		2024	-3.864.463.819.928	22.498.266.300.063	-0,1718	0,66	-0,1134
9	ACST	2019	-1.127.530	9.994.920	-0,1128	0,66	-0,0745
		2020	-1.342.279	2.620.265	-0,5123	0,66	-0,3381
		2021	-698.951	1.288.711	-0,5424	0,66	-0,3580
		2022	-456.013	1.397.747	-0,3262	0,66	-0,2153
		2023	-277.462	2.170.056	-0,1279	0,66	-0,0844
		2024	-529.971	2.911.454	-0,1820	0,66	-0,1201

X3 = Earning Before Taxes/Current Liabilities							
No	Perusahaan	Tahun	EBT	Current Liabilities	X3	Rasio	Hasil
10	NRCA	2019	101.155.011.546	1.138.448.895.846	0,0889	0,66	0,0586
		2020	55.122.851.471	963.898.747.486	0,0572	0,66	0,0377
		2021	51.648.101.245	890.539.846.897	0,0580	0,66	0,0383
		2022	75.005.776.153	1.162.654.210.757	0,0645	0,66	0,0426
		2023	99.607.122.515	1.042.849.914.823	0,0955	0,66	0,0630
11	BUKK	2019	634.882.853	2.153.362.549	0,2948	0,66	0,1946
		2020	532.683.282	1.979.705.085	0,2691	0,66	0,1776
		2021	567.147.611	1.764.084.342	0,3215	0,66	0,2122
		2022	559.957.902	1.761.592.729	0,3179	0,66	0,2098
		2023	806.432.926	1.716.135.661	0,4699	0,66	0,3101
12	IDPR	2019	417.592.774	1.696.804.934	0,2461	0,66	0,1624
		2020	-273.868.345	466.632.444.423	-0,0006	0,66	-0,0004
		2021	-379.974.740.624	452.864.586.839	-0,8390	0,66	-0,5538
		2022	-141.612.270.492	592.176.776.536	-0,2391	0,66	-0,1578
		2023	1.149.127.981	628.259.396.615	0,0018	0,66	0,0012
13	PBSA	2024	35.688.561.411	858.130.015.277	0,0416	0,66	0,0274
		2019	27.768.771.516	718.156.737.842	0,0387	0,66	0,0255
		2020	13.586.662.498	169.307.343.263	0,0802	0,66	0,0530
		2021	43.450.921.164	149.973.011.766	0,2897	0,66	0,1912
		2022	83.608.569.641	185.890.931.795	0,4498	0,66	0,2968
14	PPRE	2023	134.084.503.617	202.684.342.970	0,6615	0,66	0,4366
		2024	231.615.372.607	186.870.697.975	1,2394	0,66	0,8180
		2019	218.781.517.188	333.112.158.509	0,6568	0,66	0,4335
		2020	453.810.431.280	3.433.911.106.307	0,1322	0,66	0,0872
		2021	127.342.712.236	3.079.420.543.326	0,0414	0,66	0,0273
15	MTPS	2022	156.800.353.770	3.555.623.197.732	0,0441	0,66	0,0291
		2023	192.941.358.059	3.795.391.008.899	0,0508	0,66	0,0336
		2024	181.788.066.851	3.223.008.646.012	0,0564	0,66	0,0372
		2019	203.632.366.703	3.134.261.627.402	0,0650	0,66	0,0429
		2020	27.537.247.848	67.522.565.784	0,4078	0,66	0,2692
16	PTPW	2021	-25.363.754.132	146.911.528.150	-0,1726	0,66	-0,1139
		2022	-229.807.628.249	73.096.414.459	-3,1439	0,66	-2,0750
		2023	-42.527.007.877	60.189.869.405	-0,7065	0,66	-0,4663
		2024	-15.721.924.548	47.512.896.101	-0,3309	0,66	-0,2184
		2019	-4.442.370.922	25.921.411.385	-0,1714	0,66	-0,1131
17	TAMA	2020	46.778.858.688	72.697.668.920	0,6435	0,66	0,4247
		2021	31.079.906.443	42.426.107.159	0,7326	0,66	0,4835
		2022	52.144.452.340	97.286.281.035	0,5360	0,66	0,3538
		2023	80.242.703.846	58.125.997.620	1,3805	0,66	0,9111
		2024	102.859.965.955	82.700.725.864	1,2438	0,66	0,8209
18	RONY	2019	28.232.403.298	86.704.934.749	0,3256	0,66	0,2149
		2020	1.587.817.053	59.529.217.508	0,0267	0,66	0,0176
		2021	-4.045.224.902	69.689.655.173	-0,0580	0,66	-0,0383
		2022	155.223.543	73.186.923.487	0,0021	0,66	0,0014
		2023	-4.966.075.922	62.132.994.420	-0,0799	0,66	-0,0528
19	PTDU	2024	-6.375.333.422	53.008.821.351	-0,1203	0,66	-0,0794
		2019	-8.493.414.177	67.897.718.498	-0,1251	0,66	-0,0826
		2020	5.482.312.551	2.730.474.148	2,0078	0,66	1,3252
		2021	-4.491.203.029	2.607.449.661	-1,7225	0,66	-1,1368
		2022	-2.712.292.867	3.667.517.622	-0,7395	0,66	-0,4881
20	FIMP	2023	-27.055.758.654	3.102.028.251	-8,7220	0,66	-5,7565
		2024	232.204.380	3.989.704.181	0,0582	0,66	0,0384
		2019	1.949.583.488	555.448.518	3,5099	0,66	2,3166
		2020	3.330.592.894	116.569.602.920	0,0286	0,66	0,0189
		2021	2.969.670.249	138.921.904.961	0,0214	0,66	0,0141
21	BDKR	2022	3.013.975.528	227.646.842.784	0,0132	0,66	0,0087
		2023	-65.531.004.469	174.596.793.716	-0,3753	0,66	-0,2477
		2024	-33.781.303.948	135.172.862.199	-0,2499	0,66	-0,1649
		2019	-42.254.433.841	118.146.517.811	-0,3576	0,66	-0,2360
		2020	2.282.423.828	7.121.727.099	0,3205	0,66	0,2115
21	BDKR	2021	633.422.004	7.698.532.772	0,0823	0,66	0,0543
		2022	-934.707.642	2.970.758.897	-0,3146	0,66	-0,2077
		2023	546.397.566	2.888.495.423	0,1892	0,66	0,1248
		2024	641.785.968	3.597.509.988	0,1784	0,66	0,1177
		2019	310.073.419	4.221.235.867	0,0735	0,66	0,0485
21	BDKR	2020	31.032.504.288	371.660.051.940	0,0835	0,66	0,0551
		2021	92.683.790.283	601.337.828.801	0,1541	0,66	0,1017
		2022	23.262.364.418	240.805.792.038	0,0966	0,66	0,0638
		2023	79.458.218.055	399.502.446.149	0,1989	0,66	0,1313
		2024	91.151.091.491	429.418.433.660	0,2123	0,66	0,1401
2025	29.002.501.013	229.941.750.108	0,1261	0,66	0,0832		

**X4 = Sales / Total Asset**

X4 = Sales/Total Asset							
No	Perusahaan	Tahun	Sales	Total Asset	X4	Rasio	Hasil
1	SSIA	2019	4.006.437.811.242	8.092.446.814.970	0,4951	0,4	0,1980
		2020	2.947.321.285.487	7.625.368.538.389	0,3865	0,4	0,1546
		2021	2.352.908.880.457	7.752.170.523.212	0,3035	0,4	0,1214
		2022	3.614.941.222.156	8.289.646.306.143	0,4361	0,4	0,1744
		2023	4.537.653.827.301	8.416.773.129.280	0,5391	0,4	0,2156
2024	6.251.910.481.971	10.367.405.490.248	0,6030	0,4	0,2412		
2	ADHI	2019	15.307.860.220.494	36.515.833.214.549	0,4192	0,4	0,1677
		2020	10.827.682.417.205	38.093.888.626.552	0,2842	0,4	0,1137
		2021	11.530.471.713.036	39.900.337.834.619	0,2890	0,4	0,1156
		2022	13.549.010.228.584	39.986.417.216.654	0,3388	0,4	0,1355
		2023	20.072.993.428.021	40.492.030.620.079	0,4957	0,4	0,1983
2024	13.351.717.203.356	35.042.781.072.073	0,3810	0,4	0,1524		
3	TOTL	2019	2.474.974.774	2.962.993.701	0,8353	0,4	0,3341
		2020	2.292.693.925	2.889.059.738	0,7936	0,4	0,3174
		2021	1.745.129.682	2.727.306.841	0,6399	0,4	0,2559
		2022	2.276.815.788	2.990.427.306	0,7614	0,4	0,3045
		2023	3.027.183.068	3.132.571.723	0,9664	0,4	0,3865
2024	3.087.653.570	3.495.248.379	0,8834	0,4	0,3534		
4	WIKA	2019	27.212.914.210	62.110.847.154	0,4381	0,4	0,1753
		2020	16.536.381.639	68.109.185.213	0,2428	0,4	0,0971
		2021	17.809.717.726	69.385.794.346	0,2567	0,4	0,1027
		2022	21.480.791.864	75.069.604.222	0,2861	0,4	0,1145
		2023	22.530.355.784	65.981.235.888	0,3415	0,4	0,1366
2024	19.242.726.731	63.556.342.748	0,3028	0,4	0,1211		
5	JKON	2019	5.470.824.200	4.928.108.872	1,1101	0,4	0,4441
		2020	3.013.778.917	4.565.315.258	0,6601	0,4	0,2641
		2021	3.480.062.858	4.145.213.922	0,8395	0,4	0,3358
		2022	4.465.174.493	4.307.485.666	1,0366	0,4	0,4146
		2023	4.548.754.696	4.396.310.133	1,0347	0,4	0,4139
2024	3.875.321.246	4.371.497.764	0,8865	0,4	0,3546		
6	DGIK	2019	921.705.861.660	1.336.201.089.528	0,6898	0,4	0,2759
		2020	478.933.385.858	1.106.977.581.458	0,4326	0,4	0,1731
		2021	366.451.807.136	1.011.376.737.496	0,3623	0,4	0,1449
		2022	373.043.766.945	915.761.782.790	0,4074	0,4	0,1629
		2023	462.778.375.826	915.924.074.237	0,5053	0,4	0,2021
2024	644.556.733.549	1.193.613.189.107	0,5400	0,4	0,2160		
7	PTPP	2019	23.573.191.977.192	56.130.526.187.076	0,4200	0,4	0,1680
		2020	15.831.388.462.166	53.472.450.650.976	0,2961	0,4	0,1184
		2021	16.763.936.677.996	55.573.843.735.084	0,3017	0,4	0,1207
		2022	18.921.838.539.997	57.612.383.140.536	0,3284	0,4	0,1314
		2023	18.464.215.470.859	56.525.042.574.560	0,3267	0,4	0,1307
2024	19.812.142.890.563	56.589.716.015.594	0,3501	0,4	0,1400		
8	WSKT	2019	31.387.389.629.869	122.589.259.350.571	0,2560	0,4	0,1024
		2020	16.190.456.515.103	105.588.960.060.005	0,1533	0,4	0,0613
		2021	12.224.128.315.553	103.601.611.883.340	0,1180	0,4	0,0472
		2022	15.302.872.338.467	98.232.316.628.846	0,1558	0,4	0,0623
		2023	10.954.693.035.464	95.595.897.457.967	0,1146	0,4	0,0458
2024	10.705.154.901.932	77.159.736.864.177	0,1387	0,4	0,0555		
9	ACST	2019	3.947.173	10.446.519	0,3778	0,4	0,1511
		2020	1.204.429	3.055.106	0,3942	0,4	0,1577
		2021	1.494.671	2.478.713	0,6030	0,4	0,2412
		2022	1.036.870	2.111.024	0,4912	0,4	0,1965
		2023	2.349.638	2.608.782	0,9007	0,4	0,3603
2024	3.172.312	2.812.734	1,1278	0,4	0,4511		

X4 = Sales/Total Asset							
No	Perusahaan	Tahun	Sales	Total Asset	X4	Rasio	Hasil
10	NRCA	2019	2.617.754.376.513	2.462.813.011.754	1,0629	0,4	0,4252
		2020	2.085.740.129.302	2.221.459.173.567	0,9389	0,4	0,3756
		2021	1.669.713.392.168	2.142.945.408.364	0,7792	0,4	0,3117
		2022	2.462.407.757.122	2.454.852.311.196	1,0031	0,4	0,4012
		2023	2.895.507.275.859	2.336.265.865.936	1,2394	0,4	0,4957
		2024	3.372.465.083.657	2.373.118.335.025	1,4211	0,4	0,5684
11	BUKK	2019	6.039.612.904	4.739.164.617	1,2744	0,4	0,5098
		2020	3.981.900.673	4.976.221.593	0,8002	0,4	0,3201
		2021	3.858.936.725	5.226.470.342	0,7383	0,4	0,2953
		2022	4.146.850.937	6.259.364.267	0,6625	0,4	0,2650
		2023	4.611.765.328	6.557.621.451	0,7033	0,4	0,2813
		2024	3.110.133.806	7.442.450.327	0,4179	0,4	0,1672
12	IDPR	2019	958.462.201.850	1.985.002.918.764	0,4829	0,4	0,1931
		2020	652.350.844.406	1.508.823.148.421	0,4324	0,4	0,1729
		2021	872.574.156.089	1.497.705.774.236	0,5826	0,4	0,2330
		2022	1.060.124.902.677	1.542.492.102.329	0,6873	0,4	0,2749
		2023	1.289.582.924.477	1.678.832.977.395	0,7681	0,4	0,3073
		2024	1.115.261.513.273	1.495.862.407.765	0,7456	0,4	0,2982
13	PBSA	2019	607.764.419.249	722.903.663.896	0,8407	0,4	0,3363
		2020	552.602.370.724	702.230.672.680	0,7869	0,4	0,3148
		2021	279.155.322.925	776.987.707.840	0,3593	0,4	0,1437
		2022	731.846.535.897	857.819.112.060	0,8531	0,4	0,3413
		2023	572.763.446.107	795.622.503.779	0,7199	0,4	0,2880
		2024	1.154.289.864.419	1.117.111.786.295	1,0333	0,4	0,4133
14	PPRE	2019	3.853.253.102.037	7.760.863.409.420	0,4965	0,4	0,1986
		2020	2.336.956.841.399	6.895.982.045.724	0,3389	0,4	0,1356
		2021	2.807.235.049.378	7.029.648.280.015	0,3993	0,4	0,1597
		2022	3.635.195.678.682	7.588.440.332.245	0,4790	0,4	0,1916
		2023	3.400.865.237.272	7.164.990.158.071	0,4747	0,4	0,1899
		2024	3.790.809.211.559	7.648.848.575.168	0,4956	0,4	0,1982
15	MTPS	2019	207.203.695.294	479.498.184.124	0,4321	0,4	0,1729
		2020	125.916.873.577	530.170.000.286	0,2375	0,4	0,0950
		2021	54.902.595.928	181.330.659.418	0,3028	0,4	0,1211
		2022	918.021.149	125.183.529.972	0,0073	0,4	0,0029
		2023	853.734.399	96.894.946.269	0,0088	0,4	0,0035
		2024	1.328.006.083	85.134.019.903	0,0156	0,4	0,0062
16	PTPW	2019	182.181.039.109	345.981.911.383	0,5266	0,4	0,2106
		2020	187.886.276.093	435.830.715.625	0,4311	0,4	0,1724
		2021	301.396.833.220	540.852.700.018	0,5573	0,4	0,2229
		2022	338.340.862.503	584.467.532.735	0,5789	0,4	0,2316
		2023	395.518.504.651	700.196.420.981	0,5649	0,4	0,2259
		2024	371.976.241.228	731.052.503.381	0,5088	0,4	0,2035
17	TAMA	2019	41.432.210.341	137.020.378.518	0,3024	0,4	0,1210
		2020	25.376.582.800	168.703.297.233	0,1504	0,4	0,0602
		2021	50.363.743.196	174.567.890.012	0,2885	0,4	0,1154
		2022	14.768.916.731	199.223.626.548	0,0741	0,4	0,0297
		2023	28.372.087.077	194.029.937.436	0,1462	0,4	0,0585
		2024	23.174.307.675	193.250.326.244	0,1199	0,4	0,0480
18	RONY	2019	12.257.202.795	20.084.414.111	0,6103	0,4	0,2441
		2020	4.221.041.136	40.638.021.905	0,1039	0,4	0,0415
		2021	8.622.135.706	38.673.105.126	0,2229	0,4	0,0892
		2022	7.828.382.847	8.085.010.235	0,9683	0,4	0,3873
		2023	4.884.035.625	8.753.273.270	0,5580	0,4	0,2232
		2024	2.600.628.521	7.221.102.585	0,3601	0,4	0,1441
19	PTDU	2019	121.262.715.612	153.907.143.935	0,7879	0,4	0,3152
		2020	48.709.779.263	231.306.809.701	0,2106	0,4	0,0842
		2021	244.241.654.678	346.407.579.931	0,7051	0,4	0,2820
		2022	154.856.880.912	277.138.394.476	0,5588	0,4	0,2235
		2023	118.597.296.098	210.144.442.259	0,5644	0,4	0,2257
		2024	43.842.225.806	149.094.240.246	0,2941	0,4	0,1176
20	FIMP	2019	17.943.184.168	32.932.885.105	0,5448	0,4	0,2179
		2020	8.179.441.984	20.940.453.696	0,3906	0,4	0,1562
		2021	6.092.711.000	32.948.361.455	0,1849	0,4	0,0740
		2022	6.545.454.546	35.428.360.796	0,1848	0,4	0,0739
		2023	7.150.000.000	34.702.710.346	0,2060	0,4	0,0824
		2024	5.866.000.000	35.650.088.667	0,1645	0,4	0,0658
21	BDKR	2019	603.201.381.081	431.735.690.360	1,3972	0,4	0,5589
		2020	1.747.955.558.956	726.058.919.507	2,4075	0,4	0,9630
		2021	413.333.722.423	833.136.626.897	0,4961	0,4	0,1984
		2022	477.120.794.735	1.279.953.349.405	0,3728	0,4	0,1491
		2023	613.461.702.309	1.548.251.539.042	0,3962	0,4	0,1585
		2024	484.490.134.051	1.352.341.856.789	0,3583	0,4	0,1433

### Hasil Perhitungan dan Indeks Kebangkrutan Model Springate

No	Perusahaan	Tahun						Rata-Rata	Prediksi
		2019	2020	2021	2022	2023	2024		
1	SSIA	0,7192	0,3430	0,2809	0,6439	0,7598	1,0171	0,6273	B
2	ADHI	0,4696	0,2776	0,2162	0,3508	0,4077	0,2966	0,3364	B
3	TOTL	0,8662	0,7827	0,7171	0,7997	0,8455	0,8820	0,8155	B
4	WIKA	0,6173	0,2254	0,1591	0,2358	-0,2941	0,3134	0,2095	B
5	JKON	0,8717	0,6258	0,7342	0,9866	1,0392	0,8741	0,8553	B
6	DGIK	0,3899	0,2010	0,3179	0,2595	0,4782	0,5064	0,3588	B
7	PTPP	0,5053	0,3370	0,0524	0,3482	0,2940	0,3619	0,3165	B
8	WSKT	0,2868	-0,3511	0,2946	0,2112	-0,0461	-0,0747	0,0535	B
9	ACST	-0,0903	-1,3395	-0,6111	-0,4795	0,0549	-0,2246	-0,4484	B
10	NRCA	1,1446	1,0714	1,0348	1,1014	1,2882	1,2974	1,1563	TB
11	BUKK	1,2290	0,9380	0,9350	0,8342	0,8522	0,4240	0,8687	TB
12	IDPR	-1,6793	-0,9427	-0,0497	0,4785	0,5623	0,5552	-0,1793	B
13	PBSA	1,0386	1,2455	1,3564	1,8719	2,0472	1,8863	1,5743	TB
14	PPRE	0,6800	0,3834	0,4393	0,5750	0,6972	0,8183	0,5989	B
15	MTPS	1,3037	0,5009	-5,5978	-1,4939	-0,6306	-0,3370	-1,0425	B
16	PTPW	1,4214	1,3933	1,2848	2,0915	2,0243	1,0392	1,5424	TB
17	TAMA	0,0744	-0,2272	-0,0674	-0,1166	-0,1216	-0,1990	-0,1096	B
18	RONY	2,6995	-1,3176	-0,5454	-15,9368	0,7030	3,3362	-1,8435	B
19	PTDU	-0,0625	0,0906	0,1512	-0,4233	-0,8025	-1,3144	-0,3935	B
20	FIMP	0,8323	0,1190	0,1947	0,8171	0,9044	0,9023	0,6283	B
21	BDKR	0,5298	1,5534	0,5496	0,3747	0,7050	0,6676	0,7300	B



### Lampiran 4. Tabulasi Data Model CA-Score

$$\text{CA-Score} = 4,5913X1 + 4,508X2 + 0,3936X3 - 2,7616$$

**X1 = Shareholder Investment / Asset**

X1 = Shareholder Investment/Asset							
No	Perusahaan	Tahun	SI	Asset	X1	Rasio	Hasil
1	SSIA	2019	588.156.180.000	8.092.446.814.970	0,0727	4,5913	0,3337
		2020	588.156.180.000	7.625.368.538.389	0,0771	4,5913	0,3541
		2021	588.156.180.000	7.752.170.523.212	0,0759	4,5913	0,3483
		2022	588.156.180.000	8.289.646.306.143	0,0710	4,5913	0,3258
		2023	588.156.180.000	8.416.773.129.280	0,0699	4,5913	0,3208
2	ADHI	2019	356.084.937.600	36.515.833.214.549	0,0098	4,5913	0,0448
		2020	356.084.937.600	38.093.888.626.552	0,0093	4,5913	0,0429
		2021	356.084.937.600	39.900.337.834.619	0,0089	4,5913	0,0410
		2022	840.760.897.900	39.986.417.216.654	0,0210	4,5913	0,0965
		2023	840.760.897.900	40.492.030.620.079	0,0208	4,5913	0,0953
3	TOTL	2019	341.000.000	2.962.993.701	0,1151	4,5913	0,5284
		2020	341.000.000	2.889.059.738	0,1180	4,5913	0,5419
		2021	341.000.000	2.727.306.841	0,1250	4,5913	0,5741
		2022	341.000.000	2.990.427.306	0,1140	4,5913	0,5235
		2023	341.000.000	3.132.571.723	0,1089	4,5913	0,4998
4	WIKA	2019	896.995.137	62.110.847.154	0,0144	4,5913	0,0663
		2020	896.995.137	68.109.185.213	0,0132	4,5913	0,0605
		2021	896.995.137	69.385.794.346	0,0129	4,5913	0,0594
		2022	896.995.137	75.069.604.222	0,0119	4,5913	0,0549
		2023	896.995.137	65.981.235.888	0,0136	4,5913	0,0624
5	JKON	2019	326.170.397	4.928.108.872	0,0662	4,5913	0,3039
		2020	326.170.397	4.565.315.258	0,0714	4,5913	0,3280
		2021	326.170.397	4.145.213.922	0,0787	4,5913	0,3613
		2022	326.170.397	4.307.485.666	0,0757	4,5913	0,3477
		2023	326.170.397	4.396.310.133	0,0742	4,5913	0,3406
6	DGIK	2019	554.116.500.000	1.336.201.089.528	0,4147	4,5913	1,9040
		2020	554.116.500.000	1.106.977.581.458	0,5006	4,5913	2,2983
		2021	554.116.500.000	1.011.376.737.496	0,5479	4,5913	2,5155
		2022	554.116.500.000	915.761.782.790	0,6051	4,5913	2,7781
		2023	554.116.500.000	915.924.074.237	0,6050	4,5913	2,7776
7	PTPP	2019	619.989.735.400	56.130.526.187.076	0,0110	4,5913	0,0507
		2020	619.989.735.400	53.472.450.650.976	0,0116	4,5913	0,0532
		2021	619.989.735.400	55.573.843.735.084	0,0112	4,5913	0,0512
		2022	619.989.735.400	57.612.383.140.536	0,0108	4,5913	0,0494
		2023	619.989.735.400	56.525.042.574.560	0,0110	4,5913	0,0504
8	WSKT	2019	1.357.395.099.999	122.589.259.350.571	0,0111	4,5913	0,0508
		2020	1.357.395.099.999	105.588.960.060.005	0,0129	4,5913	0,0590
		2021	2.631.588.647.500	103.601.611.883.340	0,0254	4,5913	0,1166
		2022	2.880.680.701.600	98.232.316.628.846	0,0293	4,5913	0,1346
		2023	2.880.680.701.600	95.595.897.457.967	0,0301	4,5913	0,1384
9	ACST	2019	70.000	10.446.519	0,0067	4,5913	0,0308
		2020	642.516	3.055.106	0,2103	4,5913	0,9656
		2021	1.267.516	2.478.713	0,5114	4,5913	2,3478
		2022	1.267.516	2.111.024	0,6004	4,5913	2,7567
		2023	1.267.516	2.608.782	0,4859	4,5913	2,2308
2024	1.267.516	2.812.734	0,4506	4,5913	2,0690		

XI = Shareholder Investment/Asset							
No	Perusahaan	Tahun	SI	Asset	XI	Rasio	Hasil
10	NRCA	2019	249.625.834.400	2.462.813.011.754	0,1014	4,5913	0,4654
		2020	249.625.834.400	2.221.459.173.567	0,1124	4,5913	0,5159
		2021	249.625.834.400	2.142.945.408.364	0,1165	4,5913	0,5348
		2022	249.625.834.400	2.454.852.311.196	0,1017	4,5913	0,4669
		2023	249.625.834.400	2.336.265.865.936	0,1068	4,5913	0,4906
11	BUKK	2019	892.472.776	4.739.164.617	0,1883	4,5913	0,8646
		2020	892.472.776	4.976.221.593	0,1793	4,5913	0,8234
		2021	892.472.776	5.226.470.342	0,1708	4,5913	0,7840
		2022	892.472.776	6.259.364.267	0,1426	4,5913	0,6546
		2023	892.472.776	6.557.621.451	0,1361	4,5913	0,6249
12	IDPR	2019	200.300.000.000	1.985.002.918.764	0,1009	4,5913	0,4633
		2020	200.300.000.000	1.508.823.148.421	0,1328	4,5913	0,6095
		2021	200.300.000.000	1.497.705.774.236	0,1337	4,5913	0,6140
		2022	200.300.000.000	1.542.492.102.329	0,1299	4,5913	0,5962
		2023	200.300.000.000	1.678.832.977.395	0,1193	4,5913	0,5478
13	PBSA	2019	150.000.000.000	722.903.663.896	0,2075	4,5913	0,9527
		2020	150.000.000.000	702.230.672.680	0,2136	4,5913	0,9807
		2021	150.000.000.000	776.987.707.840	0,1931	4,5913	0,8864
		2022	150.000.000.000	857.819.112.060	0,1749	4,5913	0,8028
		2023	150.000.000.000	795.622.503.779	0,1885	4,5913	0,8656
14	PPRE	2019	1.022.427.100.000	7.760.863.409.420	0,1317	4,5913	0,6049
		2020	1.022.427.100.000	6.895.982.045.724	0,1483	4,5913	0,6807
		2021	1.022.427.100.000	7.029.648.280.015	0,1454	4,5913	0,6678
		2022	1.022.427.100.000	7.588.440.332.245	0,1347	4,5913	0,6186
		2023	1.022.427.100.000	7.164.990.158.071	0,1427	4,5913	0,6552
15	MTPS	2019	208.477.177.900	479.498.184.124	0,4348	4,5913	1,9962
		2020	208.485.082.900	530.170.000.286	0,3932	4,5913	1,8055
		2021	208.485.082.900	181.330.659.418	1,1498	4,5913	5,2789
		2022	208.485.082.900	125.183.529.972	1,6654	4,5913	7,6465
		2023	208.485.082.900	96.894.946.269	2,1517	4,5913	9,8789
16	PTPW	2019	70.255.000.000	345.981.911.383	0,2031	4,5913	0,9323
		2020	87.818.750.000	435.830.715.625	0,2015	4,5913	0,9251
		2021	87.818.750.000	540.852.700.018	0,1624	4,5913	0,7455
		2022	87.818.750.000	584.467.532.735	0,1503	4,5913	0,6899
		2023	87.818.750.000	700.196.420.981	0,1254	4,5913	0,5758
17	TAMA	2019	20.000.000.000	137.020.378.518	0,1460	4,5913	0,6702
		2020	25.000.000.125	168.703.297.233	0,1482	4,5913	0,6804
		2021	25.000.000.125	174.567.890.012	0,1432	4,5913	0,6575
		2022	30.000.000.325	199.223.626.548	0,1506	4,5913	0,6914
		2023	30.000.017.400	194.029.937.436	0,1546	4,5913	0,7099
18	RONY	2019	10.000.000.000	20.084.414.111	0,4979	4,5913	2,2860
		2020	12.500.000.000	40.638.021.905	0,3076	4,5913	1,4123
		2021	12.500.000.000	38.673.105.126	0,3232	4,5913	1,4840
		2022	12.500.000.000	8.085.010.235	1,5461	4,5913	7,0985
		2023	12.500.000.000	8.753.273.270	1,4280	4,5913	6,5565
19	PTDU	2019	5.000.000.000	153.907.143.935	0,0325	4,5913	0,1492
		2020	60.000.000.000	231.306.809.701	0,2594	4,5913	1,1910
		2021	75.000.000.000	346.407.579.931	0,2165	4,5913	0,9941
		2022	75.000.000.000	277.138.394.476	0,2706	4,5913	1,2425
		2023	75.000.000.000	210.144.442.259	0,3569	4,5913	1,6386
20	FIMP	2019	1.000.000.000	32.932.885.105	0,0304	4,5913	0,1394
		2020	12.000.000.000	20.940.453.696	0,5731	4,5913	2,6311
		2021	20.000.038.750	32.948.361.455	0,6070	4,5913	2,7870
		2022	20.000.038.750	35.428.360.796	0,5645	4,5913	2,5919
		2023	20.000.038.750	34.702.710.346	0,5763	4,5913	2,6461
21	BDKR	2019	75.000.000.000	431.735.690.360	0,1737	4,5913	0,7976
		2020	75.000.000.000	726.058.919.507	0,1033	4,5913	0,4743
		2021	86.000.000.000	833.136.626.897	0,1032	4,5913	0,4739
		2022	400.100.000.000	1.279.953.349.405	0,3126	4,5913	1,4352
		2023	471.737.417.800	1.548.251.539.042	0,3047	4,5913	1,3989
2024	472.510.152.200	1.352.341.856.789	0,3494	4,5913	1,6042		

$$X2 = \text{EBT} + \text{Financial Expense} / \text{Asset}$$

X2 = Earning Before Tax + Financial Expense/Asset							
No	Perusahaan	Tahun	EBTFE	Asset	X2	Rasio	Hasil
1	SSIA	2019	301.144.064.614	8.092.446.814.970	0,0372	4,508	0,1678
		2020	-177.532.638.135	7.625.368.538.389	-0,0233	4,508	-0,1050
		2021	-387.602.834.280	7.752.170.523.212	-0,0500	4,508	-0,2254
		2022	431.268.579.590	8.289.646.306.143	0,0520	4,508	0,2345
		2023	506.201.098.876	8.416.773.129.280	0,0601	4,508	0,2711
		2024	1.008.525.559.584	10.367.405.490.248	0,0973	4,508	0,4385
2	ADHI	2019	1.351.539.657.165	36.515.833.214.549	0,0370	4,508	0,1669
		2020	63.437.949.545	38.093.888.626.552	0,0017	4,508	0,0075
		2021	185.682.795.922	39.900.337.834.619	0,0047	4,508	0,0210
		2022	358.509.583.371	39.986.417.216.654	0,0090	4,508	0,0404
		2023	605.986.360.964	40.492.030.620.079	0,0150	4,508	0,0675
		2024	587.900.189.685	35.042.781.072.073	0,0168	4,508	0,0756
3	TOTL	2019	353.815.140	2.962.993.701	0,1194	4,508	0,5383
		2020	220.810.895	2.889.059.738	0,0764	4,508	0,3445
		2021	204.741.145	2.727.306.841	0,0751	4,508	0,3384
		2022	184.865.925	2.990.427.306	0,0618	4,508	0,2787
		2023	348.371.174	3.132.571.723	0,1112	4,508	0,5013
		2024	532.869.530	3.495.248.379	0,1525	4,508	0,6873
4	WIKA	2019	5.410.270.828	62.110.847.154	0,0871	4,508	0,3927
		2020	632.618.201	68.109.185.213	0,0093	4,508	0,0419
		2021	433.464.599	69.385.794.346	0,0062	4,508	0,0282
		2022	193.951.759	75.069.604.222	0,0026	4,508	0,0116
		2023	-15.664.480.183	65.981.235.888	-0,2374	4,508	-1,0702
		2024	-5.556.342.748	63.556.342.748	-0,0874	4,508	-0,3941
5	JKON	2019	460.501.189	4.928.108.872	0,0934	4,508	0,4212
		2020	141.664.770	4.565.315.258	0,0310	4,508	0,1399
		2021	-52.171.897	4.145.213.922	-0,0126	4,508	-0,0567
		2022	452.182.683	4.307.485.666	0,1050	4,508	0,4732
		2023	537.156.758	4.396.310.133	0,1222	4,508	0,5508
		2024	418.004.360	4.371.497.764	0,0956	4,508	0,4311
6	DGIK	2019	-16.797.403.942	1.336.201.089.528	-0,0126	4,508	-0,0567
		2020	-50.792.710.026	1.106.977.581.458	-0,0459	4,508	-0,2068
		2021	-3.068.955.580	1.011.376.737.496	-0,0030	4,508	-0,0137
		2022	153.902.626	915.761.782.790	0,0002	4,508	0,0008
		2023	39.746.355.080	915.924.074.237	0,0434	4,508	0,1956
		2024	90.270.594.081	1.193.613.189.107	0,0756	4,508	0,3409
7	PTPP	2019	2.127.798.696.729	56.130.526.187.076	0,0379	4,508	0,1709
		2020	555.836.529.111	53.472.450.650.976	0,0104	4,508	0,0469
		2021	738.452.346.889	55.573.843.735.084	0,0133	4,508	0,0599
		2022	745.959.682.731	57.612.383.140.536	0,0129	4,508	0,0584
		2023	276.293.638.837	56.525.042.574.560	0,0049	4,508	0,0220
		2024	377.153.622.277	56.589.716.015.594	0,0067	4,508	0,0300
8	WSKT	2019	2.357.548.329.730	122.589.259.350.571	0,0192	4,508	0,0867
		2020	-19.225.148.076.399	105.588.960.060.005	-0,1821	4,508	-0,8208
		2021	-2.924.974.175.774	103.601.611.883.340	-0,0282	4,508	-0,1273
		2022	-2.913.508.534.633	98.232.316.628.846	-0,0297	4,508	-0,1337
		2023	-7.795.124.407.303	95.595.897.457.967	-0,0815	4,508	-0,3676
		2024	-7.778.064.668.300	77.159.736.864.177	-0,1008	4,508	-0,4544
9	ACST	2019	-2.259.379	10.446.519	-0,2163	4,508	-0,9750
		2020	-2.682.358	3.055.106	-0,8780	4,508	-3,9580
		2021	-1.392.317	2.478.713	-0,5617	4,508	-2,5322
		2022	-907.626	2.111.024	-0,4299	4,508	-1,9382
		2023	-554.100	2.608.782	-0,2124	4,508	-0,9575
		2024	-1.072.036	2.812.734	-0,3811	4,508	-1,7182

X2 = Earning Before Tax + Financial Expense/Asset							
No	Perusahaan	Tahun	EBTFE	Asset	X2	Rasio	Hasil
10	NRCA	2019	202.310.023.092	2.462.813.011.754	0,0821	4,508	0,3703
		2020	110.245.702.942	2.221.459.173.567	0,0496	4,508	0,2237
		2021	103.296.202.490	2.142.945.408.364	0,0482	4,508	0,2173
		2022	149.675.938.670	2.454.852.311.196	0,0610	4,508	0,2749
		2023	199.115.964.650	2.336.265.865.936	0,0852	4,508	0,3842
11	BUKK	2019	1.126.839.627	4.739.164.617	0,2378	4,508	1,0719
		2020	956.398.114	4.976.221.593	0,1922	4,508	0,8664
		2021	1.049.241.792	5.226.470.342	0,2008	4,508	0,9050
		2022	1.022.235.890	6.259.364.267	0,1633	4,508	0,7362
		2023	1.498.724.323	6.557.621.451	0,2285	4,508	1,0303
12	IDPR	2019	758.242.923	7.442.450.327	0,1019	4,508	0,4593
		2020	-3.783.606.776	1.985.002.918.764	-0,0019	4,508	-0,0086
		2021	-762.137.552.188	1.508.823.148.421	-0,5051	4,508	-2,2771
		2022	-285.687.600.924	1.497.705.774.236	-0,1908	4,508	-0,8599
		2023	-141.767.118	1.542.492.102.329	-0,0001	4,508	-0,0004
13	PBSA	2019	68.866.374.802	1.678.832.977.395	0,0410	4,508	0,1849
		2020	52.716.295.051	1.495.862.407.765	0,0352	4,508	0,1589
		2021	26.873.804.733	722.903.663.896	0,0372	4,508	0,1676
		2022	86.602.462.808	702.230.672.680	0,1233	4,508	0,5559
		2023	166.924.398.922	776.987.707.840	0,2148	4,508	0,9685
14	PPRE	2019	268.072.589.436	857.819.112.060	0,3125	4,508	1,4088
		2020	424.357.903.294	795.622.503.779	0,5334	4,508	2,4044
		2021	433.824.730.676	1.117.111.786.295	0,3883	4,508	1,7507
		2022	893.063.694.388	7.760.863.409.420	0,1151	4,508	0,5187
		2023	243.224.640.980	6.895.982.045.724	0,0353	4,508	0,1590
15	MTPS	2019	303.613.539.107	7.029.648.280.015	0,0432	4,508	0,1947
		2020	374.602.973.683	7.588.440.332.245	0,0494	4,508	0,2225
		2021	354.569.336.920	7.164.990.158.071	0,0495	4,508	0,2231
		2022	397.729.978.018	7.648.848.575.168	0,0520	4,508	0,2344
		2023	51.249.531.913	479.498.184.124	0,1069	4,508	0,4818
16	PTPW	2019	-54.525.768.820	530.170.000.286	-0,1028	4,508	-0,4636
		2020	-461.413.277.086	181.330.659.418	-2,5446	4,508	-11,4710
		2021	-85.741.100.440	125.183.529.972	-0,6849	4,508	-3,0876
		2022	-31.613.558.293	96.894.946.269	-0,3263	4,508	-1,4708
		2023	-9.417.974.847	85.134.019.903	-0,1106	4,508	-0,4987
17	TAMA	2019	93.557.717.376	345.981.911.383	0,2704	4,508	1,2190
		2020	62.121.445.766	435.830.715.625	0,1425	4,508	0,6426
		2021	104.192.094.780	540.852.700.018	0,1926	4,508	0,8684
		2022	160.474.286.032	584.467.532.735	0,2746	4,508	1,2377
		2023	205.686.516.550	700.196.420.981	0,2938	4,508	1,3242
18	RONY	2019	56.435.005.836	731.052.503.381	0,0772	4,508	0,3480
		2020	3.175.634.106	137.020.378.518	0,0232	4,508	0,1045
		2021	-8.090.449.804	168.703.297.233	-0,0480	4,508	-0,2162
		2022	242.040.836	174.567.890.012	0,0014	4,508	0,0063
		2023	-9.932.151.844	199.223.626.548	-0,0499	4,508	-0,2247
19	PTDU	2019	-12.750.666.844	194.029.937.436	-0,0657	4,508	-0,2962
		2020	-16.986.828.354	193.250.326.244	-0,0879	4,508	-0,3963
		2021	10.273.130.900	20.084.414.111	0,5115	4,508	2,3058
		2022	-9.152.979.616	40.638.021.905	-0,2252	4,508	-1,0153
		2023	-5.769.471.163	38.673.105.126	-0,1492	4,508	-0,6725
20	FIMP	2019	313.135.314	8.085.010.235	0,0387	4,508	0,1746
		2020	334.981.816	8.753.273.270	0,0383	4,508	0,1725
		2021	3.830.250.320	7.221.102.585	0,5304	4,508	2,3912
		2022	6.356.365.038	153.907.143.935	0,0413	4,508	0,1862
		2023	5.939.340.498	231.306.809.701	0,0257	4,508	0,1158
21	BDKR	2019	6.027.951.056	346.407.579.931	0,0174	4,508	0,0784
		2020	-131.062.008.938	277.138.394.476	-0,4729	4,508	-2,1319
		2021	-67.562.607.896	210.144.442.259	-0,3215	4,508	-1,4493
		2022	-84.508.867.682	149.094.240.246	-0,5668	4,508	-2,5552
		2023	4.564.847.656	32.932.885.105	0,1386	4,508	0,6249
22	BDKR	2019	1.266.844.008	20.940.453.696	0,0605	4,508	0,2727
		2020	-1.869.415.284	32.948.361.455	-0,0567	4,508	-0,2558
		2021	1.092.795.132	35.428.360.796	0,0308	4,508	0,1391
		2022	1.283.571.936	34.702.710.346	0,0370	4,508	0,1667
		2023	620.146.838	35.650.088.667	0,0174	4,508	0,0784
23	BDKR	2019	55.532.078.152	431.735.690.360	0,1286	4,508	0,5798
		2020	154.406.495.583	726.058.919.507	0,2127	4,508	0,9587
		2021	51.640.897.595	833.136.626.897	0,0620	4,508	0,2794
		2022	137.506.148.111	1.279.953.349.405	0,1074	4,508	0,4843
		2023	170.460.704.654	1.548.251.539.042	0,1101	4,508	0,4963
2024	44.147.851.787	1.352.341.856.789	0,0326	4,508	0,1472		

**X3 = Sales / Asset**

X3 = Sales/Asset							
No	Perusahaan	Tahun	Sales	Asset	X3	Rasio	Hasil
1	SSIA	2019	4.006.437.811.242	8.092.446.814.970	0,4951	0,3936	0,1949
		2020	2.947.321.285.487	7.625.368.538.389	0,3865	0,3936	0,1521
		2021	2.352.908.880.457	7.752.170.523.212	0,3035	0,3936	0,1195
		2022	3.614.941.222.156	8.289.646.306.143	0,4361	0,3936	0,1716
		2023	4.537.653.827.301	8.416.773.129.280	0,5391	0,3936	0,2122
		2024	6.251.910.481.971	10.367.405.490.248	0,6030	0,3936	0,2374
2	ADHI	2019	15.307.860.220.494	36.515.833.214.549	0,4192	0,3936	0,1650
		2020	10.827.682.417.205	38.093.888.626.552	0,2842	0,3936	0,1119
		2021	11.530.471.713.036	39.900.337.834.619	0,2890	0,3936	0,1137
		2022	13.549.010.228.584	39.986.417.216.654	0,3388	0,3936	0,1334
		2023	20.072.993.428.021	40.492.030.620.079	0,4957	0,3936	0,1951
		2024	13.351.717.203.356	35.042.781.072.073	0,3810	0,3936	0,1500
3	TOTL	2019	2.474.974.774	2.962.993.701	0,8353	0,3936	0,3288
		2020	2.292.693.925	2.889.059.738	0,7936	0,3936	0,3124
		2021	1.745.129.682	2.727.306.841	0,6399	0,3936	0,2519
		2022	2.276.815.788	2.990.427.306	0,7614	0,3936	0,2997
		2023	3.027.183.068	3.132.571.723	0,9664	0,3936	0,3804
		2024	3.087.653.570	3.495.248.379	0,8834	0,3936	0,3477
4	WIKA	2019	27.212.914.210	62.110.847.154	0,4381	0,3936	0,1724
		2020	16.536.381.639	68.109.185.213	0,2428	0,3936	0,0956
		2021	17.809.717.726	69.385.794.346	0,2567	0,3936	0,1010
		2022	21.480.791.864	75.069.604.222	0,2861	0,3936	0,1126
		2023	22.530.355.784	65.981.235.888	0,3415	0,3936	0,1344
		2024	19.242.726.731	63.556.342.748	0,3028	0,3936	0,1192
5	JKON	2019	5.470.824.200	4.928.108.872	1,1101	0,3936	0,4369
		2020	3.013.778.917	4.565.315.258	0,6601	0,3936	0,2598
		2021	3.480.062.858	4.145.213.922	0,8395	0,3936	0,3304
		2022	4.465.174.493	4.307.485.666	1,0366	0,3936	0,4080
		2023	4.548.754.696	4.396.310.133	1,0347	0,3936	0,4072
		2024	3.875.321.246	4.371.497.764	0,8865	0,3936	0,3489
6	DGIK	2019	921.705.861.660	1.336.201.089.528	0,6898	0,3936	0,2715
		2020	478.933.385.858	1.106.977.581.458	0,4326	0,3936	0,1703
		2021	366.451.807.136	1.011.376.737.496	0,3623	0,3936	0,1426
		2022	373.043.766.945	915.761.782.790	0,4074	0,3936	0,1603
		2023	462.778.375.826	915.924.074.237	0,5053	0,3936	0,1989
		2024	644.556.733.549	1.193.613.189.107	0,5400	0,3936	0,2125
7	PTPP	2019	23.573.191.977.192	56.130.526.187.076	0,4200	0,3936	0,1653
		2020	15.831.388.462.166	53.472.450.650.976	0,2961	0,3936	0,1165
		2021	16.763.936.677.996	55.573.843.735.084	0,3017	0,3936	0,1187
		2022	18.921.838.539.997	57.612.383.140.536	0,3284	0,3936	0,1293
		2023	18.464.215.470.859	56.525.042.574.560	0,3267	0,3936	0,1286
		2024	19.812.142.890.563	56.589.716.015.594	0,3501	0,3936	0,1378
8	WSKT	2019	31.387.389.629.869	122.589.259.350.571	0,2560	0,3936	0,1008
		2020	16.190.456.515.103	105.588.960.060.005	0,1533	0,3936	0,0604
		2021	12.224.128.315.553	103.601.611.883.340	0,1180	0,3936	0,0464
		2022	15.302.872.338.467	98.232.316.628.846	0,1558	0,3936	0,0613
		2023	10.954.693.035.464	95.595.897.457.967	0,1146	0,3936	0,0451
		2024	10.705.154.901.932	77.159.736.864.177	0,1387	0,3936	0,0546
9	ACST	2019	3.947.173	10.446.519	0,3778	0,3936	0,1487
		2020	1.204.429	3.055.106	0,3942	0,3936	0,1552
		2021	1.494.671	2.478.713	0,6030	0,3936	0,2373
		2022	1.036.870	2.111.024	0,4912	0,3936	0,1933
		2023	2.349.638	2.608.782	0,9007	0,3936	0,3545
		2024	3.172.312	2.812.734	1,1278	0,3936	0,4439

X3 = Sales/Asset							
No	Perusahaan	Tahun	Sales	Asset	X3	Rasio	Hasil
10	NRCA	2019	2.617.754.376.513	2.462.813.011.754	1,0629	0,3936	0,4184
		2020	2.085.740.129.302	2.221.459.173.567	0,9389	0,3936	0,3696
		2021	1.669.713.392.168	2.142.945.408.364	0,7792	0,3936	0,3067
		2022	2.462.407.757.122	2.454.852.311.196	1,0031	0,3936	0,3948
		2023	2.895.507.275.859	2.336.265.865.936	1,2394	0,3936	0,4878
11	BUKK	2019	6.039.612.904	4.739.164.617	1,2744	0,3936	0,5016
		2020	3.981.900.673	4.976.221.593	0,8002	0,3936	0,3150
		2021	3.858.936.725	5.226.470.342	0,7383	0,3936	0,2906
		2022	4.146.850.937	6.259.364.267	0,6625	0,3936	0,2608
		2023	4.611.765.328	6.557.621.451	0,7033	0,3936	0,2768
12	IDPR	2019	958.462.201.850	1.985.002.918.764	0,4829	0,3936	0,1901
		2020	652.350.844.406	1.508.823.148.421	0,4324	0,3936	0,1702
		2021	872.574.156.089	1.497.705.774.236	0,5826	0,3936	0,2293
		2022	1.060.124.902.677	1.542.492.102.329	0,6873	0,3936	0,2705
		2023	1.289.582.924.477	1.678.832.977.395	0,7681	0,3936	0,3023
13	PBSA	2019	607.764.419.249	722.903.663.896	0,8407	0,3936	0,3309
		2020	552.602.370.724	702.230.672.680	0,7869	0,3936	0,3097
		2021	279.155.322.925	776.987.707.840	0,3593	0,3936	0,1414
		2022	731.846.535.897	857.819.112.060	0,8531	0,3936	0,3358
		2023	572.763.446.107	795.622.503.779	0,7199	0,3936	0,2834
14	PPRE	2019	1.154.289.864.419	1.117.111.786.295	1,0333	0,3936	0,4067
		2020	3.853.253.102.037	7.760.863.409.420	0,4965	0,3936	0,1954
		2021	2.336.956.841.399	6.895.982.045.724	0,3389	0,3936	0,1334
		2022	2.807.235.049.378	7.029.648.280.015	0,3993	0,3936	0,1572
		2023	3.635.195.678.682	7.588.440.332.245	0,4790	0,3936	0,1886
15	MTPS	2019	3.400.865.237.272	7.164.990.158.071	0,4747	0,3936	0,1868
		2020	3.790.809.211.559	7.648.848.575.168	0,4956	0,3936	0,1951
		2021	207.203.695.294	479.498.184.124	0,4321	0,3936	0,1701
		2022	125.916.873.577	530.170.000.286	0,2375	0,3936	0,0935
		2023	54.902.595.928	181.330.659.418	0,3028	0,3936	0,1192
16	PTPW	2019	918.021.149	125.183.529.972	0,0073	0,3936	0,0029
		2020	853.734.399	96.894.946.269	0,0088	0,3936	0,0035
		2021	1.328.006.083	85.134.019.903	0,0156	0,3936	0,0061
		2022	182.181.039.109	345.981.911.383	0,5266	0,3936	0,2073
		2023	187.886.276.093	435.830.715.625	0,4311	0,3936	0,1697
17	TAMA	2019	301.396.833.220	540.852.700.018	0,5573	0,3936	0,2193
		2020	338.340.862.503	584.467.532.735	0,5789	0,3936	0,2279
		2021	395.518.504.651	700.196.420.981	0,5649	0,3936	0,2223
		2022	371.976.241.228	731.052.503.381	0,5088	0,3936	0,2003
		2023	41.432.210.341	137.020.378.518	0,3024	0,3936	0,1190
18	RONY	2019	25.376.582.800	168.703.297.233	0,1504	0,3936	0,0592
		2020	50.363.743.196	174.567.890.012	0,2885	0,3936	0,1136
		2021	14.768.916.731	199.223.626.548	0,0741	0,3936	0,0292
		2022	28.372.087.077	194.029.937.436	0,1462	0,3936	0,0576
		2023	23.174.307.675	193.250.326.244	0,1199	0,3936	0,0472
19	PTDU	2019	12.257.202.795	20.084.414.111	0,6103	0,3936	0,2402
		2020	4.221.041.136	40.638.021.905	0,1039	0,3936	0,0409
		2021	8.622.135.706	38.673.105.126	0,2229	0,3936	0,0878
		2022	7.828.382.847	8.085.010.235	0,9683	0,3936	0,3811
		2023	4.884.035.625	8.753.273.270	0,5580	0,3936	0,2196
20	FIMP	2019	2.600.628.521	7.221.102.585	0,3601	0,3936	0,1418
		2020	121.262.715.612	153.907.143.935	0,7879	0,3936	0,3101
		2021	48.709.779.263	231.306.809.701	0,2106	0,3936	0,0829
		2022	244.241.654.678	346.407.579.931	0,7051	0,3936	0,2775
		2023	154.856.880.912	277.138.394.476	0,5588	0,3936	0,2199
21	BDKR	2019	118.597.296.098	210.144.442.259	0,5644	0,3936	0,2221
		2020	43.842.225.806	149.094.240.246	0,2941	0,3936	0,1157
		2021	17.943.184.168	32.932.885.105	0,5448	0,3936	0,2144
		2022	8.179.441.984	20.940.453.696	0,3906	0,3936	0,1537
		2023	6.092.711.000	32.948.361.455	0,1849	0,3936	0,0728
21	BDKR	2024	7.150.000.000	34.702.710.346	0,2060	0,3936	0,0811
		2019	603.201.381.081	431.735.690.360	1,3972	0,3936	0,5499
		2020	1.747.955.558.956	726.058.919.507	2,4075	0,3936	0,9476
		2021	413.333.722.423	833.136.626.897	0,4961	0,3936	0,1953
		2022	477.120.794.735	1.279.953.349.405	0,3728	0,3936	0,1467
2023	613.461.702.309	1.548.251.539.042	0,3962	0,3936	0,1560		
2024	484.490.134.051	1.352.341.856.789	0,3583	0,3936	0,1410		

### Hasil Perhitungan dan Indeks Kebangkrutram Model CA-Score

No	Perusahaan	Tahun						Rata-Rata	Prediksi
		2019	2020	2021	2022	2023	2024		
1	SSIA	-2,0653	-2,3603	-2,5192	-2,0297	-1,9574	-1,8225	-2,1257	B
2	ADHI	-2,3850	-2,5993	-2,5859	-2,4913	-2,4037	-2,4258	-2,4818	B
3	TOTL	-1,3661	-1,5628	-1,5973	-1,6597	-1,3801	-1,2787	-1,4741	B
4	WIKA	-2,1302	-2,5637	-2,5731	-2,5825	-3,6350	-2,7485	-2,7055	B
5	JKON	-1,5995	-2,0339	-2,1266	-1,5327	-1,4629	-1,6390	-1,7324	B
6	DGIK	-0,6428	-0,4999	-0,1172	0,1776	0,4105	-0,0767	-0,1248	TB
7	PTPP	-2,3747	-2,5450	-2,5317	-2,5246	-2,5606	-2,5435	-2,5134	B
8	WSKT	-2,5233	-3,4630	-2,7258	-2,6993	-2,9457	-2,9900	-2,8912	B
9	ACST	-3,5571	-5,5988	-2,7086	-1,7497	-1,1338	-1,9668	-2,7858	B
10	NRCA	-1,5076	-1,6524	-1,7028	-1,6251	-1,3990	-1,4084	-1,5492	B
11	BUKK	-0,3235	-0,7568	-0,7820	-1,1100	-0,8296	-1,5873	-0,8982	B
12	IDPR	-2,1168	-4,2590	-2,7782	-1,8953	-1,7266	-1,6945	-2,4117	B
13	PBSA	-1,3104	-0,9152	-0,7653	-0,2142	0,7918	0,0123	-0,4002	B
14	PPRE	-1,4426	-1,7885	-1,7419	-1,7319	-1,6965	-1,7184	-1,6866	B
15	MTPS	-0,1135	-1,3263	-8,8346	1,8002	5,6500	7,9895	0,8609	B
16	PTPW	-0,4030	-1,0242	-0,9283	-0,6061	-0,6392	-1,6618	-0,8771	B
17	TAMA	-1,8679	-2,2382	-1,9843	-2,2658	-2,2904	-2,3979	-2,1741	B
18	RONY	2,0704	-2,3238	-1,8624	4,8926	4,1817	7,7190	2,4463	B
19	PTDU	-2,1161	-1,3720	-1,4116	-3,4310	-2,3502	-2,8915	-2,2621	B
20	FIMP	-1,7829	0,2959	-0,1576	0,0421	0,1323	-0,0427	-0,2522	TB
21	BDKR	-0,8342	-0,3811	-1,8130	-0,6954	-0,7104	-0,8692	-0,8839	B



## RIWAYAT HIDUP



Ni Kadek Aris Adi Widiantari, terlahir di Bali tepatnya di Banjar Tundak, Desa Mekarsari, Kecamatan Baturiti, Kabupaten Tabanan pada tanggal 08 Februari 2004. Penulis terlahir sebagai anak kedua dari pasangan I Made Ngeding dan Ni Nyoman Puri. Penulis berkebangsaan Indonesia dan memeluk kepercayaan agama Hindu. Penulis memulai pendidikan dari tahun 2009 di TK PGRI Menara Rumpin Bogor dan lulus pada tahun 2010. Kemudian di tahun yang sama penulis melanjutkan ke tahap jenjang pendidikan dasar di SD Negeri 2 Mekarsari dan lulus pada tahun 2016. Penulis kembali melanjutkan pendidikan ke jenjang berikutnya di SMP Negeri 1 Baturiti dan lulus pada tahun 2019 yang kemudian melanjutkan pendidikan di SMA Negeri 1 Baturiti hingga lulus di tahun 2022. Lulus dari jenjang pendidikan Sekolah Menengah Atas, di tahun yang sama penulis kembali melanjutkan pendidikan ke jenjang perguruan tinggi negeri dengan mengambil Program Studi S1 Akuntansi di Universitas Pendidikan Ganesha. Kini penulis berhasil menyelesaikan skripsi sebagai syarat mencapai gelar Sarjana Akuntansi dengan judul penelitian “Implementasi Model Fulmer, Springate, dan CA-Score untuk Memprediksi Kebangkrutan pada Perusahaan Subsektor Konstruksi”.