

LAMPIRAN

Lampiran 1

Daftar Perusahaan Indeks LQ45 Periode Agustus 2014 – Januari 2015

No	Kode Perusahaan	Nama Perusahaan
1	AALI	Astra Agro Lestari Tbk
2	ADHI	Adhi Karya (Persero) Tbk
3	ADRO	Adaro Energy Tbk
4	AKRA	AKR Corporindo Tbk
5	ANTM	Aneka Tambang (Persero) Tbk
6	ASII	Astra International Tbk
7	ASRI	Alam Sutera Realty Tbk
8	BBCA	Bank Central Asia Tbk
9	BBNI	Bank Negara Indonesia (Persero) Tbk
10	BBRI	Bank Rakyat Indonesia (Persero) Tbk
11	BBTN	Bank Tabungan Negara (Persero) Tbk
12	BDMN	Bank Danamon Indonesia Tbk
13	BMRI	Bank Mandiri (Persero) Tbk
14	BMTR	Global Mediacom Tbk
15	BSDE	Bumi Serpong Damai Tbk
16	CPIN	Charoen Pokphand Indonesia Tbk
17	CTRA	Ciputra Development Tbk
18	EXCL	XL Axiata Tbk
19	GGRM	Gudang Garam Tbk
20	HRUM	Harum Energy Tbk
21	ICBP	Indofood CBP Sukses Makmur Tbk
22	INCO	Vale Indonesia Tbk
23	INDF	Indofood Sukses Makmur Tbk
24	INTP	Indocement Tunggul Prakarsa Tbk
25	ITMG	Indo Tambangraya Megah Tbk
26	JSMR	Jasa Marga (Persero) Tbk
27	KLBF	Kalbe Farma Tbk
28	LPKR	Lippo Karawaci Tbk
29	LPPF	Matahari Departemen Store Tbk
30	LSIP	PP London Sumatra Indonesia Tbk
31	MNCN	Media Nusantara Citra Tbk
32	PGAS	Perusahaan Gas Negara (Persero) Tbk
33	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk
34	PTPP	PP (Persero) Tbk
35	PWON	Pakuwon Jati Tbk
36	SCMA	Surya Citra Media Tbk

37	SMGR	Semen Indonesia (Persero) Tbk
38	SMRA	Summarecon Agung Tbk
39	TAXI	Express Transindo Utama Tbk
40	TBIG	Tower Bersama Infrastructure Tbk
41	TLKM	Telekomunikasi Indonesia (Persero) Tbk
42	UNTR	United Tractors Tbk
43	UNVR	Unilever Indonesia Tbk
44	WIKA	Wijaya Karya (Persero) Tbk
45	WSKT	Waskita Karya (Persero) Tbk

Daftar Perusahaan Indeks LQ45 Periode Februari 2015 – Juli 2015

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5	ANTM	Aneka Tambang (Persero) Tbk
6	ASII	Astra International Tbk
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8	BBCA	Bank Central Asia Tbk
9	BBNI	Bank Negara Indonesia (Persero) Tbk
10	BBRI	Bank Rakyat Indonesia (Persero) Tbk
11	BBTN	Bank Tabungan Negara (Persero) Tbk
12	BMRI	Bank Mandiri (Persero) Tbk
13	BMTR	Global Mediacom Tbk
14	BSDE	Bumi Serpong Damai Tbk
15	CPIN	Charoen Pokphand Indonesia Tbk
16	CTRA	Ciputra Development Tbk
17	EXCL	XL Axiata Tbk
18	GGRM	Gudang Garam Tbk
19	ICBP	Indofood CBP Sukses Makmur Tbk
20	INCO	Vale Indonesia Tbk
21	INDF	Indofood Sukses Makmur Tbk
22	INTP	Indocement Tunggal Prakarsa Tbk
23	ITMG	Indo Tambangraya Megah Tbk
24	JSMR	Jasa Marga (Persero) Tbk
25	KLBF	Kalbe Farma Tbk
26	LPKR	Lippo Karawaci Tbk
27	LPPF	Matahari Departemen Store Tbk
28	LSIP	PP London Sumatra Indonesia Tbk
29	MNCN	Media Nusantara Citra Tbk

30	MPPA	Matahari Putra Prima Tbk
31	PGAS	Perusahaan Gas Negara (Persero) Tbk
32	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk
33	PTTP	PP (Persero) Tbk
34	PWON	Pakuwon Jati Tbk
35	SCMA	Surya Citra Media Tbk
36	SILO	Siloam International Hospital Tbk
37	SMGR	Semen Gresik Indonesia Tbk
38	SMRA	Summarecon Agung Tbk
39	SSMS	Sawit Sumbermas Sarana Tbk
40	TBIG	Tower Bersama Infrastructure Tbk
41	TLKM	Telekomunikasi Indonesia (Persero) Tbk
42	UNTR	United Tractors Tbk
43	UNVR	Unilever Indonesia Tbk
44	WIKA	Wijaya Karya (Persero) Tbk
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12	BMTR	Global Mediacom Tbk
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18	INCO	Vale Indonesia Tbk
19	INDF	Indofood Sukses Makmur Tbk
20	INTP	Indocement Tunggul Prakarsa Tbk
21	ITMG	Indo Tambangraya Megah Tbk
22	JSMR	Jasa Marga (Persero) Tbk
23	KLBF	Kalbe Farma Tbk

24	LPKR	Lippo Karawaci Tbk
25	LPPF	Matahari Departemen Store Tbk
26	LSIP	PP London Sumatera Indonesia Tbk
27	MNCN	Media Nusantara Citra Tbk
28	MPPA	Matahari Putra Prima Tbk
29	PGAS	Perusahaan Gas Negara (Persero) Tbk
30	PTBA	Tambang Batubara Bukit Asam Tbk
31	PTPP	PP (Persero) Tbk
32	PWON	Pakuwon Jati Tbk
33	SCMA	Surya Citra Media Tbk
34	SILO	Siloam International Hospital Tbk
35	SMGR	Semen Indonesia (Persero) Tbk
36	SMRA	Summarecon Agung Tbk
37	SRIL	Sri Rejeki Isman Tbk
38	SSMS	Sawit Sumbermas Sarana Tbk
39	TBIG	Tower Bersama Infrastructure Tbk
40	TLKM	Telekomunikasi Indonesia (Persero) Tbk
41	UNTR	United Tractors Tbk
42	UNVR	Unilever Indonesia Tbk
43	WIKA	Wijaya Karya (Persero) Tbk
44	WSKT	Waskita Karya (Persero) Tbk
45	WTON	Wijaya Karya Beton Tbk

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12	BMRI	Bank Mandiri (Persero) Tbk
13	BMTR	Global Mediacom Tbk
14	BSDE	Bumi Serpong Damai Tbk
15	CPIN	Charoen Pokphand Indonesia Tbk
16	GGRM	Gudang Garam Tbk
17	HMSP	HM Sampoerna Tbk

18	ICBP	Indofood CBP Sukses Makmur Tbk
19	INCO	Vale Indonesia Tbk
20	INDF	Indofood Sukses Makmur Tbk
21	INTP	Indocement Tunggul Prakarsa Tbk
22	JSMR	Jasa Marga (Persero) Tbk
23	KLBF	Kalbe Farma Tbk
24	LPKR	Lippo Karawaci Tbk
25	LPPF	Matahari Departemen Store Tbk
26	LSIP	PP London Sumatera Tbk
27	MNCN	Media Nusantara Citra Tbk
28	MPPA	Matahari Putra Prima Tbk
29	MYRX	Hanson Internasional Tbk
30	PGAS	Perusahaan Gas Negara (Persero) Tbk
31	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk
32	PTTP	PP (Persero) Tbk
33	PWON	Pakuwon Jati Tbk
34	SCMA	Surya Citra Media Tbk
35	SILO	Siloam Internasional Hospitals Tbk
36	SMGR	Semen Indonesia (Persero) Tbk
37	SMRA	Summarecon Agung Tbk
38	SRIL	Sri Rejeki Ismail Tbk
39	SSMS	Sawit Sumbermas Sarana Tbk
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17	GGRM	Gudang Garam Tbk
18	HMSP	HM Sampoerna Tbk
19	ICBP	Indofood CBP Sukses Makmur Tbk
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23	JSMR	Jasa Marga (Persero) Tbk
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26	LPPF	Matahari Departemen Store Tbk
27	LSIP	PP London Sumatera Tbk
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29	MPPA	Matahari Putra Prima Tbk
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33	PTPP	PP (Persero) Tbk
34	PWON	Pakuwon Jati Tbk
35	SCMA	Surya Citra Media Tbk
36	SILO	Siloam International Hospitals Tbk
37	SMGR	Semen Indonesia (Persero) Tbk
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11	BBTN	Bank Tabungan Negara (Persero) Tbk
12	BMRI	Bank Mandiri (Persero) Tbk
13	BSDE	Bumi Serpong Damai Tbk
14	BUMI	Bumi Resources Tbk
15	CPIN	Charoen Pokphand Indonesia Tbk
16	ELSA	Elnusa Tbk
17	EXCL	XL Axiata Tbk
18	GGRM	Gudang Garam Tbk
19	HMSP	HM Sampoerna Tbk
20	ICBP	Indofood CBP Sukses Makmur Tbk
21	INCO	Vale Indonesia Tbk
22	INDF	Indofoos Sukses Makmur Tbk
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29	MNCN	Media Nusantara Citra Tbk
30	MYRX	Hanson Internasional Tbk
31	PGAS	Perusahaan Gas Negara Indonesia (Persero) Tbk
32	PPRO	PP Properti Tbk
33	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk
34	PTPP	PP (Persero) Tbk
35	PWON	Pakuwon Jati Tbk
36	SCMA	Surya Citra Media Tbk
37	SMGR	Semen Indonesia (Persero) Tbk
38	SMRA	Summarecon Agung Tbk
39	SRIL	Sri Rejeki Ismail Tbk
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7	BBCA	Bank Central Asia Tbk
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9	BBRI	Bank Rakyat Indonesia (Persero) Tbk
10	BBTN	Bank Tabungan Negara (Persero) Tbk
11	BJBR	BPD Jawa Barat dan Banten Tbk
12	BMRI	Bank Mandiri Tbk
13	BMTR	Global Mediacom Tbk
14	BRPT	Barito Pacific Tbk
15	BSDE	Bumi Serpong Damai Tbk
16	BUMI	Bumi Resources Tbk
17	EXCL	XL Axiata Tbk
18	GGRM	Gudang Garam Tbk
19	HMSP	HM Sampoerna Tbk
20	ICBP	Indofood CBP Sukses Makmur Tbk
21	INCO	Vale Indonesia Tbk
22	INDF	Indofood Sukses Makmur Tbk
23	INTP	Indocement Tunggul Prakarsa Tbk
24	JSMR	Jasa Marga (Persero) Tbk
25	KLBF	Kalbe Farma Tbk
26	LPKR	Lippo Karawaci Tbk
27	LPPF	Matahari Departemen Store Tbk
28	LSIP	PP London Sumatera Tbk
29	MNCN	Media Nusantara Citra Tbk
30	MYRX	Hanson International Tbk
31	PGAS	Perusahaan Gas Negara (Persero) Tbk
32	PPRO	PP (Persero) Tbk
33	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk
34	PTPP	PP (Persero) Tbk
35	PWON	Pakuwon Jati Tbk
36	SCMA	Surya Citra Media Tbk
37	SMGR	Semen Indonesia (Persero) Tbk
38	SMRA	Summarecon Agung Tbk
39	SRIL	Sri Rejeki Ismail Tbk

40	SMSS	Sawit Sumbermas Sarana Tbk
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11	BMRI	Bank Mandiri (Persero) Tbk
12	BMTR	Global Mediacom Tbk
13	BRPT	Barito Pacific Tbk
14	BSDE	Bumi Serpong Damai Tbk
15	BUMI	Bumi Resources Tbk
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17	GGRM	Gudang Garam Tbk
18	HMSP	HM Sampoerna Tbk
19	ICBP	Indofood CBP Sukses Makmur Tbk
20	INCO	Vale Indonesia Tbk
21	INDF	Indofood Sukses Makmur Tbk
22	INDY	Indika Energy Tbk
23	INTP	Indocement Tunggul Prakarsa Tbk
24	JSMR	Jasa Marga (Persero) Tbk
25	KLBF	Kalbe Farma Tbk
26	LPKR	Lippo Karawaci Tbk
27	LPPF	Matahari Departemen Store Tbk
28	MNCN	Media Nusantara Citra Tbk
29	MYRX	Hanson International Tbk
30	PGAS	Perusahaan Gas Negara (Persero) Tbk
31	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk
32	PTPP	PP (Persero) Tbk

33	PWON	Pakuwon Jati Tbk
34	SCMA	Surya Citra Media Tbk
35	SMGR	Semen Indonesia (Persero) Tbk
36	SRIL	Sri Rejeki Ismail Tbk
37	SSMS	Sawit Sumbermas Sarana Tbk
38	TLKM	Telekomunikasi Indonesia (Persero) Tbk
39	TPIA	Chandra Asri Petrochemical Tbk
40	TRAM	Trada Alam Mineral Tbk
41	UNTR	United Tractors Tbk
42	UNVR	Unilever Indonesia Tbk
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8	BBRI	Bank Rakyat Indonesia (Persero) Tbk
9	BBTN	Bank Tabungan Negara (Persero) Tbk
10	BJBR	BPD Jawa Barat dan Banten Tbk
11	BKSL	Sentul City Tbk
12	BMRI	Bank Mandiri (Persero) Tbk
13	BRPT	Barito Pacific Tbk
14	BSDE	Bumi Serpong Damai Tbk
15	ELSA	Elnusa Tbk
16	EXCL	XL Axiata Tbk
17	GGRM	Gudang Garam Tbk
18	HMSP	H.M. Sampoerna Tbk
19	ICBP	Indofood CBP Sukses Makmur Tbk
20	INCO	Vale Indonesia Tbk
21	INDF	Indofood Sukses Makmur Tbk
22	INDY	Indika Energy Tbk
23	INKP	Indah Kiat Pulp & Paper Tbk
24	INTP	Indocement Tunggul Prakarsa Tbk
25	ITMG	Indo Tambangraya Megah Tbk

26	JSMR	Jasa Marga (Persero) Tbk
27	KLBF	Kalbe Farma Tbk
28	LPKR	Lippo Karawaci Tbk
29	LPPF	Matahari Departemen Store Tbk
30	MEDC	Medco Energi Internasional Tbk
31	MNCN	Media Nusantara Citra Tbk
32	PGAS	Perusahaan Gas Negara Tbk
33	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk
34	PTPP	PP (Persero) Tbk
35	SCMA	Surya Citra Media Tbk
36	SMGR	Semen Indonesia (Persero) Tbk
37	SRIL	Sri Rejeki Isman Tbk
38	SSMS	Sawit Sumbermas Sarana Tbk
39	TLKM	Telekomunikasi Indonesia (Persero) Tbk
40	TPIA	Chandra Asri Petrochemical Tbk
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14	ELSA	Elnusa Tbk
15	ERAA	Erajaya Swasembada Tbk
16	EXCL	XL Axiata Tbk
17	GGRM	Gudang Garam Tbk
18	HMSP	H.M. Sampoerna Tbk
19	ICBP	Indofood CBP Sukses Makmur Tbk

20	INCO	Vale Indonesia Tbk
21	INDF	Indofood Sukses Makmur Tbk
22	INDY	Indika Energy Tbk
23	INKP	Indah Kiat Pulp & Papper Tbk
24	INTP	Indocement Tunggul Prakarsa Tbk
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26	JSMR	Jasa Marga (Persero) Tbk
27	KLBF	Kalbe Farma Tbk
28	LPPF	Matahari Departemen Store Tbk
29	MEDC	Medco Energi International Tbk
30	MNCN	Media Nusantara Citra Tbk
31	PGAS	Perusahaan Gas Negara Tbk
32	PTBA	Tambang Batubara Bukit Asam Tbk
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35	SCMA	Surya Citra Media Tbk
36	SMGR	Semen Indonesia (Persero) Tbk
37	SRIL	Sri Rejeki Ismail Tbk
38	TKIM	Pabrik Kertas Tjiwi Kimia Tbk
39	TLKM	Telekomunikasi Indonesia (Persero) Tbk
40	TPIA	Chandra Asri Petrochemical Tbk
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10	BRPT	Barito Pacific Tbk
11	BSDE	Bumi Serpong Damai Tbk
12	BTPS	Bank Tabungan Pensiunan Nasional Syariah Tbk
13	CPIN	Cahroe Pokphand Indonesia Tbk

14	CTRA	Ciputra Development Tbk
15	ERAA	Erajaya Swasembada Tbk
16	EXCL	XL Axiata Tbk
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26	JPFA	Japfa Comfeed Indonesia Tbk
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34	PTPP	PP (Persero) Tbk
35	PWON	Pakuwon Jati Tbk
36	SCMA	Surya Citra Media Tbk
37	SMGR	Semen Indonesia (Persero) Tbk
38	SRIL	Sri Rejeki Isman Tbk
39	TKIM	Pabrik Kertas Tjiwi Kimia Tbk
40	TLKM	Telekomunikasi Indonesia Tbk
41	TPIA	Chandra Asri Petrochemical Tbk
42	UNTR	United Tractors Tbk
43	UNVR	Unilever Indonesia Tbk
44	WIKA	Wijaya Karya (Persero) Tbk
45	WSKT	Waskita Karya (Persero) Tbk

Lampiran 2

Daftar Perusahaan yang Termasuk Sampel

No	Kode Perusahaan	Nama Perusahaan
1	ADRO	Adaro Energy Tbk
2	AKRA	AKR Corporindo Tbk
3	ASII	Astra Internasional Tbk
4	BSDE	Bumi Serpong Damai Tbk
5	GGRM	Gudang Garam Tbk
6	ICBP	Indofood CBP Sukses Mamur Tbk

7	INCO	Vale Indonesia Tbk
8	INDF	Indofood Sukses Makmur Tbk
9	INTP	Indo Tambangraya Megah Tbk
10	JSMR	Jasa Marga (Persero) Tbk
11	KLBF	Kalbe Farma Tbk
12	LPPF	Matahari Departemen Store Tbk
13	MNCN	Media Nusantara Citra Tbk
14	PGAS	Perusahaan Gas Negara (Persero) Tbk
15	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk
16	PTTP	PP (Persero) Tbk
17	SCMA	Surya Citra Media Tbk
18	SMGR	Semen Indonesia (Persero) Tbk
19	TLKM	Telekomunikasi Indonesia Tbk
20	UNTR	United Tractors Tbk
21	UNVR	Unilever Indonesia Tbk
22	WIKA	Wijaya Karya (Persero) Tbk
23	WSKT	Waskita Karya (Persero) Tbk

Lampiran 3

TABEL PERHITUNGAN ROA PERUSAHAAN INDEKS LQ45 YANG TERDAFTAR DI BEI PERIODE 2015-2019

NO	KODE	TAHUN	LABA BERSIH	TOTAL AKTIVA	ROA
1	ADRO	2015	151.003	5.958.629	0,025
		2016	340.686	6.522.257	0,0522
		2017	2.082.935	82.193.328	0,0787
		2018	4.577.457	87.633.045	0,0676
		2019	435.002	7.217.105	0,0602
2	AKRA	2015	1.058.741.020	15.203.129.563	0,069
		2016	1.046.852.086	15.830.740.710	0,0661
		2017	1.304.601	16.823.209	0,0775
		2018	1.596.653	19.940.851	0,0801
		2019	703.077.279	21.409.046.173	0,0328
3	ASII	2015	15.613	245.435	0,063
		2016	18.302	261.555	0,0699
		2017	23.165.000	295.646.000	0,0784
		2018	27.372.000	344.711.000	0,0794
		2019	26.621	351.958	0,0756
4	BSDE	2015	2.351.380.057.145	36.022.148.489.646	0,065
		2016	2.037.537.680.130	38.292.205.983.731	0,0532
		2017	5.188.722	45.951.188	0,1129
		2018	1.701.818	52.101.492	0,0327
		2019	3.130.076.103.452	54.444.049.052.447	0,0574

5	GGRM	2015	6.452.834	63.505.413	0,101
		2016	6.672.682	62.951.634	0,106
		2017	7.755.347	66.759.930	0,1162
		2018	7.793.068	69.097.219	0,1128
		2019	10.880.704	78.647.274	0,1383
6	ICBP	2015	2.923.148	26.560.624	0,11
		2016	3.631.301	28.901.948	0,1256
		2017	3.543.173	31.619.514	0,1121
		2018	4.658.781	34.367.153	0,1356
		2019	5.360.029	38.709.314	0,1384
7	INCO	2015	696.611	31.576.687	0,022
		2016	25.609	29.901.711	0,0009
		2017	-206.892	29.596.405	-0,007
		2018	879.966	32.028.057	0,0275
		2019	5.360.029	38.709.314	0,0258
8	INDF	2015	3.709.501	91.831.526	0,04
		2016	5.266.906	82.174.515	0,0641
		2017	5.145.063	87.939.488	0,0585
		2018	4.961.851	96.537.796	0,0514
		2019	5.902.729	96.198.559	0,0614
9	INTP	2015	4.356.661	27.638.360	0,157
		2016	3.870.319	30.150.580	0,1284
		2017	1.859.818	28.863.676	0,0644
		2018	1.145.937	27.788.562	0,0412
		2019	1.835.305	27.707.749	0,062
10	JSMR	2015	1.319.201	36.724.982	0,035
		2016	1.803.054	53.500.323	0,0337
		2017	2.093.656	79.192.773	0,0264
		2018	2.036.491	82.418.601	0,0247
		2019	2.073.888	99.679.570	0,0208
11	KLBF	2015	2.057.694.281.873	13.696.417.381.439	0,1502
		2016	2.350.884.933.551	15.226.009.210.657	0,1544
		2017	2.453.251.410.604	16.616.239.416.335	0,1476
		2018	2.497.262	18.146.206	0,1376
		2019	2.537.601.823.645	21.819.448.888.812	0,1163
12	LPPF	2015	1.780.848	3.889.291	0,457
		2016	2.019.705	4.858.878	0,4157
		2017	1.907.077	5.427.426	0,3514
		2018	1.097.332	5.036.396	0,2179
		2019	1.366.884	4.832.910	0,2828
13	MNCN	2015	1.276.968	14.474.557	0,088
		2016	1.482.955	14.239.867	0,1041
		2017	1.567.546	15.057.291	0,1041
		2018	1.605.621	16.339.552	0,0983
		2019	2.352.529	17.836.430	0,1318
14	PGAS	2015	402.758.904	6.495.022.261	0,062

		2016	308.583.916	6.834.152.968	0,0452
		2017	2.002.178	85.259.312	0,0235
		2018	5.302.575	115.452.910	0,0459
		2019	112.981.195	7.373.713.156	0,0153
15	PTBA	2015	2.037.111	16.894.043	0,1206
		2016	2.024.405	18.576.774	0,109
		2017	4.547.232	21.987.482	0,2068
		2018	5.121.112	24.172.933	0,2119
		2019	4.040.394	26.098.052	0,1548
16	PTPP	2015	845.417.661.531	19.158.984.502.925	0,0442
		2016	1.151.431.890.873	31.232.766.567.390	0,0369
		2017	1.723.853	41.782.781	0,0413
		2018	1.958.993	52.549.151	0,0373
		2019	1.208.270.555.330	59.165.548.433.821	0,0204
17	SCMA	2015	1.521.586	4.565.964	0,3332
		2016	1.511.145	4.820.612	0,3135
		2017	1.317.748	5.385.808	0,2447
		2018	1.475.042	6.138.227	0,2403
		2019	1.051.104.002	6.716.724.073	0,1564
18	SMGR	2015	4.525.441	38.153.119	0,1186
		2016	4.535.037	44.226.896	0,1025
		2017	2.043.026	48.963.503	0,0417
		2018	3.085.704	51.155.890	0,0603
		2019	2.371.233	79.807.067	0,0297
19	TLKM	2015	23.317.000	166.173.000	0,1403
		2016	29.172.000	179.611.000	0,1624
		2017	32.701.000	198.484.000	0,1648
		2018	26.979.000	206.196.000	0,1308
		2019	27.592	221.208	0,1247
20	UNTR	2015	2.792.439	61.715.399	0,0452
		2016	5.104.477	63.991.229	0,0798
		2017	7.673.322	82.262.093	0,0933
		2018	11.498.409	116.281.017	0,0989
		2019	11.134.641	111.713.375	0,0996
21	UNVR	2015	5.851.805	15.729.945	0,372
		2016	6.390.672	16.745.695	0,3816
		2017	7.004.562	18.906.413	0,3705
		2018	9.109.445	19.522.970	0,4666
		2019	7.392.837	20.649.371	0,358
22	WIKA	2015	703.005.054	19.602.406.034	0,0359
		2016	1.147.145	31.096.539	0,0369
		2017	1.356.115	45.683.774	0,0297
		2018	2.073.300	59.230.001	0,035
		2019	2.621.015.140	62.110.847.154	0,0422
23	WSKT	2015	1.047.591	30.309.111	0,0346
		2016	1.813.069	61.425.182	0,0295

	2017	4.201.572	97.895.761	0,0429
	2018	4.619.568	124.391.582	0,0371
	2019	1.028.898.367.891	122.589.259.350.571	0,0083

Lampiran 4

TABEL PERHITUNGAN CR PERUSAHAAN INDEKS LQ45 YANG TERDAFTAR DI BEI PERIODE 2015-2019

NO	KODE	TAHUN	AKTIVA LANCAR	UTANG LANCAR	CR
1	ADRO	2015	1.092.519	454.473	2,4039
		2016	1.592.715	644.555	2,471
		2017	26.813.687	10.476.695	2,5594
		2018	23.271.475	11.872.174	1,9601
		2019	2.109.924	1.232.601	1,7117
2	AKRA	2015	7.285.598.874	4.871.402.133	1,4956
		2016	7.391.379.002	5.815.707.526	1,2709
		2017	8.816.349	5.429.491	1,6238
		2018	11.268.598	8.062.728	1,3976
		2019	10.777.639.192	8.712.526.231	1,237
3	ASII	2015	105.161	76.242	1,3793
		2016	110.403	89.079	1,2394
		2017	121.293.000	98.722.000	1,2286
		2018	133.609.000	11.646.700	1,1472
		2019	129.058	99.962	1,291
4	BSDE	2015	16.789.559.633.165	6.146.403.067.486	2,7316
		2016	16.341.455.817.712	5.566.196.840.616	2,9358
		2017	17.964.523	17.744.133	2,3734
		2018	20.948.678	6.231.233	3,3618
		2019	24.256.712.740.291	6.159.441.542.866	3,9381
5	GGRM	2015	42.568.431	24.045.086	1,7704
		2016	41.933.173	21.638.565	1,9379
		2017	43.764.490	22.611.042	1,9355
		2018	45.284.719	22.003.267	2,0581
		2019	52.081.133	25.258.727	2,0619
6	ICBP	2015	13.961.500	6.002.344	2,326
		2016	15.571.362	6.469.785	2,4068
		2017	16.579.331	6.827.588	2,4283
		2018	14.121.568	7.235.398	1,9517
		2019	16.624.925	6.556.359	2,5336
7	INCO	2015	8.275.962	2.048.395	4,0402
		2016	15.571.362	6.469.785	4,5394
		2017	8.088.915	1.751.756	4,6176
		2018	9.175.973	2.549.794	3,5987
		2019	588.313	136.552	4,3083
8	INDF	2015	42.816.745	25.107.538	1,7053
		2016	15.571.362	6.469.785	1,5081

		2017	32.515.399	21.637.763	1,5027
		2018	33.272.618	31.204.102	1,0663
		2019	31.403.445	24.686.862	1,272
9	INTP	2015	13.133.854	2.687.743	4,8866
		2016	14.424.622	3.187.743	4,525
		2017	12.883.074	3.479.024	3,7031
		2018	12.315.796	3.925.649	3,1373
		2019	12.829.494	3.873.487	3,3121
10	JSMR	2015	3.729.047	7.743.787	0,4816
		2016	12.965.844	18.626.989	0,6961
		2017	18.987.065	24.997.940	0,7595
		2018	11.813.856	31.081.475	0,3801
		2019	11.612.566	41.526.417	0,2796
11	KLBF	2015	8.748.492	2.365.880	3,6978
		2016	9.572.530	2.317.162	4,1311
		2017	10.043.951	2.227.336	4,5094
		2018	10.648.288	2.286.167	4,6577
		2019	11.222.490.978.401	2.577.108.805.851	4,3546
12	LPPF	2015	2.272.941	2.439.014	0,9319
		2016	2.974.052	2.588.354	1,149
		2017	2.973.749	2.610.824	1,139
		2018	3.014.408	2.739.811	1,1002
		2019	2.748.781	2.597.839	1,0581
13	MNCN	2015	7.726.851	1.039.805	7,4311
		2016	6.638.010	4.198.739	1,581
		2017	6.718.435	1.459.288	4,6039
		2018	7.336.848	2.153.719	3,4066
		2019	7.636.544	2.139.487	3,5693
14	PGAS	2015	25.247.134	9.780.912	2,5813
		2016	28.547.123	10.955.337	2,6058
		2017	24.495.434	6.322.324	3,8744
		2018	35.971.218	23.332.993	1,5816
		2019	2.219.459.981	1.123.361.297	1,966
15	PTBA	2015	7.598.476	4.922.733	1,5435
		2016	8.349.927	5.042.747	1,6558
		2017	11.117.745	4.513.226	2,4638
		2018	11.739.344	4.935.696	2,3785
		2019	11.679.884	4.691.251	2,4897
16	PTPP	2015	15.804.797	12.355.677	1,2791
		2016	24.525.610	15.865.384	1,5481
		2017	29.907.849	20.697.217	1,445
		2018	37.534.483	26.522.885	1,4151
		2019	41.704.590.384.570	30.490.992.843.527	1,3678
17	SCMA	2015	2.843.500	860.470	3,3046
		2016	2.952.181	990.468	2,9806
		2017	2.708.606	743.336	3,6439

		2018	3.426.795	804.149	4,2614
		2019	3.559.331.625	988.970.149	3,599
18	SMGR	2015	10.538.704	6.599.190	1,597
		2016	10.373.159	8.151.673	1,2725
		2017	13.801.819	8.803.577	1,5678
		2018	16.007.686	8.202.838	1,9515
		2019	16.658.531	12.240.252	1,361
19	TLKM	2015	47.912.000	35.413.000	1,3529
		2016	47.701.000	39.762.000	1,1997
		2017	47.561.000	45.376.000	1,0482
		2018	43.268.000	42.261.000	0,9353
		2019	41.722.000	58.369.000	0,7148
20	UNTR	2015	39.259.708	18.280.285	2,1477
		2016	42.197.323	18.355.948	2,2988
		2017	51.202.200	28.376.562	1,8044
		2018	55.651.808	48.785.716	1,1407
		2019	50.826.955	32.585.529	1,5598
21	UNVR	2015	6.623.114	10.127.542	0,654
		2016	6.588.109	10.878.074	0,6056
		2017	79.741.635	12.532.304	0,6337
		2018	8.325.029	11.134.786	0,7477
		2019	8.530.334	13.065.308	0,6529
22	WIKA	2015	12.560.285	10.597.534	1,1852
		2016	23.651.834	14.909.016	1,5864
		2017	34.910.108	25.975.617	1,3439
		2018	43.555.495	28.251.951	1,5416
		2019	42.335.471.858	30.349.456.945	1,3949
23	WSKT	2015	1.807.485	1.366.481	1,3227
		2016	39.712.575	31.283.653	1,2694
		2017	52.427.017	52.309.197	1,0022
		2018	66.989.129	56.799.725	1,1793
		2019	49.037.842.886.120	45.023.495.139.583	1,0891

Lampiran 5

TABEL PERHITUNGAN TATO PERUSAHAAN INDEKS LQ45 YANG TERDAFTAR DI BEI PERIODE 2015-2019

NO	KODE	TAHUN	PENJUALAN BERSIH	TOTAL AKTIVA	TATO
1	ADRO	2015	2.684.476	5.958.629	0,45
		2016	2.524.239	6.522.257	0,38
		2017	3.258.333	6.814.147	0,47
		2018	3.619.751	7.060.755	0,51
		2019	3.457.154	7.217.105	0,47
2	AKRA	2015	19.764.821.141	15.203.129.563	1,3
		2016	15.212.590.884	15.830.740.710	0,96

		2017	18.287.935.534	16.823.208.531	1,08
		2018	21.702.637.573	19.940.850.599	1,18
		2019	21.702.637.573	21.409.046.173	1,01
3	ASII	2015	184.196	245.435	0,75
		2016	181.084	261.855	0,69
		2017	206.057	295.646	0,70
		2018	239.205	344.711	0,69
		2019	237.166	351.958	0,67
4	BSDE	2015	6.209.574.072.348	36.022.148.489.646	0,17
		2016	6.521.770.279.079	38.292.205.983.731	0,17
		2017	10.347.343.192.163	45.951.188.475.157	0,22
		2018	6.628.782.185.008	52.101.492.204.552	0,12
		2019	7.084.864.038.574	54.444.849.052.447	0,13
5	GGRM	2015	6.350.543	63.505.413	0,10
		2016	76.274.147	62.951.634	1,21
		2017	83.305.925	66.759.930	1,24
		2018	95.707.663	69.097.219	1,38
		2019	110.523.819	78.647.274	1,40
6	ICBP	2015	31.741.094	26.560.624	1,20
		2016	34.466.069	28.901.948	1,19
		2017	35.606.593	31.619.514	1,11
		2018	38.413.407	34.367.153	1,12
		2019	42.296.703	38.709.314	1,09
7	INCO	2015	789.745	2.289.161	0,34
		2016	584.143	2.225.492	0,26
		2017	629.334	2.184.559	0,28
		2018	776.900	2.202.452	0,35
		2019	782.012	2.222.688	0,35
8	INDF	2015	64.061.947	91.831.526	0,69
		2016	66.750.317	82.174.515	0,81
		2017	70.186.618	88.400.877	0,79
		2018	73.394.728	96.537.796	0,76
		2019	76.592.955	96.198.559	0,79
9	INTP	2015	17.798.055	27.638.360	0,57
		2016	15.361.894	30.150.580	0,54
		2017	14.431.211	28.863.676	0,49
		2018	15.190.283	27.788.562	0,50
		2019	15.939.348	27.707.749	0,64
10	JSMR	2015	9.848.242.050	36.724.982.487	0,26
		2016	16.661.402.998	53.500.322.659	0,31
		2017	35.092.196.191	79.192.772.790	0,44
		2018	36.974.075	82.418.603	0,45
		2019	26.345.260	99.679.570	0,26
11	KLBF	2015	17.887.646.223.321	13.696.417.381.439	1,30
		2016	19.374.230.957.505	15.226.009.210.657	1,27
		2017	20.182.120.166.616	16.616.239.416.335	1,21

		2018	21.074.306.186.027	18.146.206.145.369	1,16
		2019	22.633.476.361.038	20.264.726.862.584	1,12
12	LPPF	2015	9.006.893	3.889.291	2,31
		2016	9.897.046	4.858.878	2,03
		2017	10.023.961	5.427.426	1,84
		2018	10.245.173	5.036.396	2,03
		2019	10.276.431	4.832.910	2,12
13	MNCN	2015	6.444.935	14.474.557	0,44
		2016	6.730.276	14.239.867	0,47
		2017	7.052.686	15.057.291	0,46
		2018	7.443.905	16.339.552	0,45
		2019	8.353.365	17.836.430	0,46
14	PGAS	2015	402.758.904	6.495.022.261	0,47
		2016	308.583.916	6.834.152.968	0,42
		2017	3.570.597.761	8.183.180.242	0,43
		2018	3.870.266.738	7.939.273.167	0,48
		2019	3.848.717.684	7.373.713.156	0,52
15	PTBA	2015	13.845.199	16.894.043	0,81
		2016	14.058.869	18.576.774	0,75
		2017	19.471.030	21.967.482	0,88
		2018	21.166.993	24.172.933	0,87
		2019	21.787.564	26.098.052	0,83
16	PTPP	2015	14.217.372.867.769	19.158.984.502.925	0,74
		2016	16.458.884.219.698	31.232.766.567.390	0,52
		2017	21.505.259.604.154	41.782.780.915.111	0,51
		2018	25.119.560.112.231	52.549.150.902.972	0,47
		2019	24.659.998.995.266	59.165.548.433.821	0,41
17	SCMA	2015	4.237.979.643	4.565.963.576	0,92
		2016	4.524.135.762	4.820.611.941	0,93
		2017	4.453.848.569	5.385.807.878	0,82
		2018	5.276.794.930	6.589.842.943	0,80
		2019	5.523.362.497	6.716.724.073	0,82
18	SMGR	2015	26.948.004.471	38.153.118.932	0,70
		2016	26.134.306.138	44.226.895.982	0,59
		2017	27.813.664.176	48.963.502.966	0,56
		2018	30.687.626	50.783.836	0,60
		2019	40.368.107	79.807.067	0,50
19	TLKM	2015	102.470	179.611	0,61
		2016	116.333	179.611	0,64
		2017	128.256	198.484	0,64
		2018	130.784	206.196	0,63
		2019	135.567	221.208	0,61
20	UNTR	2015	49.347.479	61.715.399	0,80
		2016	45.539.238	63.991.229	0,71
		2017	64.559.204	82.262.093	0,78
		2018	84.624.733	116.281.017	0,72

		2019	84.430.478	111.713.375	0,75
21	UNVR	2015	36.484.030	15.729.945	2,31
		2016	40.053.732	16.745.695	2,39
		2017	41.204.510	18.906.413	2,17
		2018	41.802.073	20.326.869	2,14
		2019	42.922.563	20.649.371	2,07
22	WIKA	2015	13.620.101.419	19.602.406.034	0,69
		2016	15.668.832.513	31.277.885.930	0,50
		2017	26.176.403.026	45.683.774.302	0,57
		2018	31.158.193.498	59.230.001.239	0,52
		2019	27.212.914.210	62.110.847.154	0,43
23	WSKT	2015	14.152.752.847.612	30.309.111.177.468	0,46
		2016	23.788.322.626.347	61.433.012.174.447	0,38
		2017	45.212.897.632.604	97.895.760.838.624	0,46
		2018	48.788.950.838.822	124.391.581.623.636	0,39
		2019	31.387.389.629.869	122.589.259.350.571	0,25

Lampiran 6

Harga Saham Perusahaan Indeks LQ45 Periode 2015-2019

No	Kode Saham	Harga Saham				
		2015	2016	2017	2018	2019
1	ADRO	730	1.520	1.885	1.295	1.100
2	AKRA	6.500	6.625	4.920	3.980	2.350
3	ASII	6.725	8.750	6.900	7.450	4.770
4	BSDE	1.850	1.810	1.705	1.350	635
5	GGRM	69.250	73.950	68.500	80.475	48.750
6	ICBP	15.275	8.700	8.700	9.800	8.150
7	INCO	1.860	1.905	3.860	2.700	2.780
8	INDF	7.125	8.750	7.075	6.600	5.750
9	INTP	19.725	18.500	17.625	21.200	12.100
10	JSMR	5.450	5.250	4.450	5.700	3.550
11	KLBF	1.375	1.540	1.370	1.405	1.415
12	LPPF	19.000	15.100	9.150	3.750	1.450
13	MNCN	2.350	1.900	1.200	1.140	850
14	PGAS	2.620	2.400	2.070	2.060	860
15	PTBA	7.050	10.900	3.800	3.060	1.945
16	PTTP	3.665	3.130	2.580	1.970	725
17	SCMA	3.200	2.910	2.460	1.650	1.000
18	SMGR	9.900	9.450	8.400	11.550	9.800
19	TLKM	3.550	4.350	3.520	3.900	3.150
20	UNTR	15.000	27.775	35.050	25.350	15.700
21	UNVR	42.575	46.175	45.600	44.500	7.750
22	WIKA	2.650	2.290	1.670	2.270	1.085
23	WSKT	2.345	2.380	2.320	1.810	610

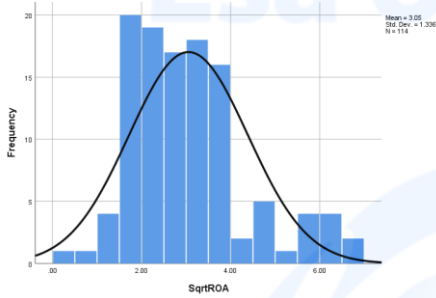
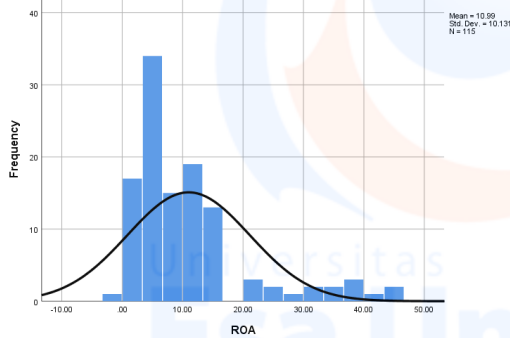
Lampiran 7

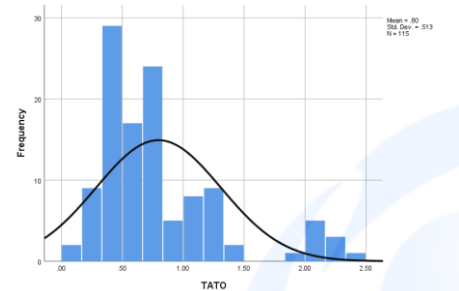
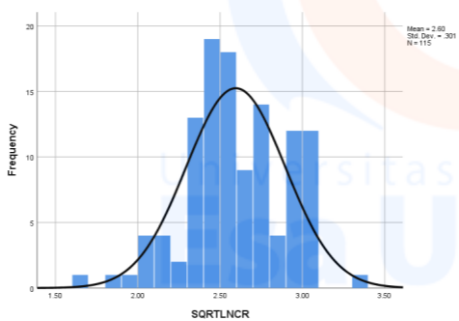
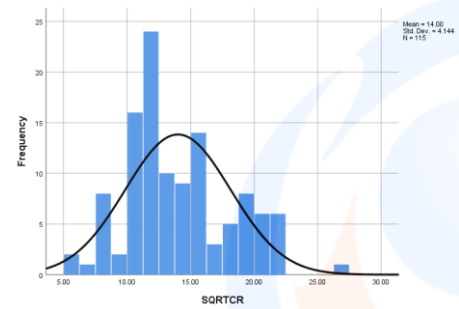
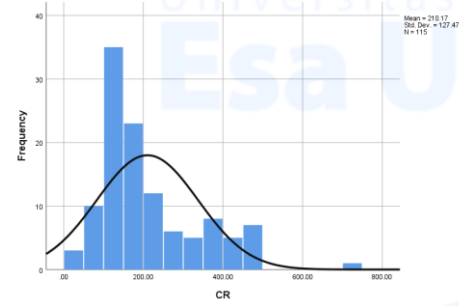
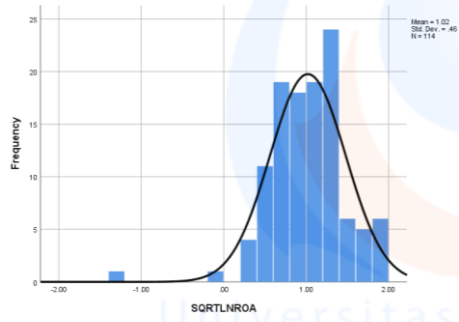
- Hasil Uji Statistik Deskriptif

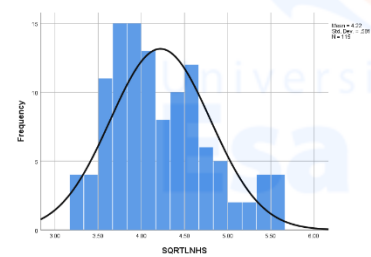
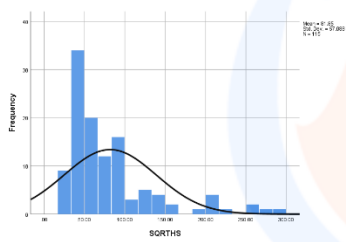
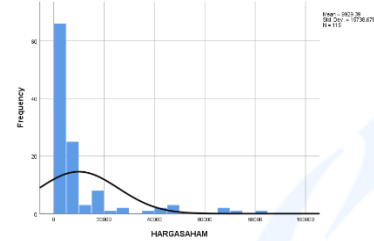
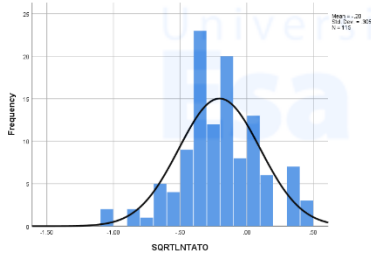
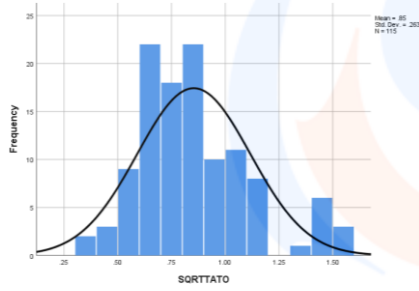
Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
ROA	115	-.0070	.4666	.109780	.1013124
CR	115	.2796	7.4311	2.130030	1.2692849
TATO	115	.10	2.39	.7885	.51604
HARGASAHAM	115	610	80475	9929.39	15738.678
Valid N (listwise)	115				

- Hasil Uji Kolmogorv Smirnov

One-Sample Kolmogorov-Smirnov Test					
		ROA	CR	TATO	HARGASAHAM
N		115	115	115	115
Normal	Mean	.109780	2.130030	.7885	9929.39
Parameters ^{a,b}	Std. Deviation	.1013124	1.2692849	.51604	15738.678
Most Extreme	Absolute	.173	.160	.181	.292
Differences	Positive	.173	.160	.181	.292
	Negative	-.154	-.089	-.096	-.277
Test Statistic		.173	.160	.181	.292
Asymp. Sig. (2-tailed)		.000 ^c	.000 ^c	.000 ^c	.000 ^c
a. Test distribution is Normal.					
b. Calculated from data.					
c. Lilliefors Significance Correction.					



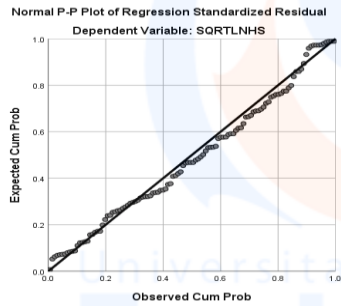




		SQRTLNRQA	SQRTLNCR	SQRTLNTATO	SQRTLNHS
N		115	115	115	115
Normal	Mean	-1.2833	.2926	-.2146	1.4309
	Std. Deviation	.46044	.30081	.31700	.13463
Most Extreme	Absolute	.063	.073	.083	.073
Differences	Positive	.063	.073	.064	.073
	Negative	-.053	-.064	-.083	-.042
Test Statistic		.063	.073	.083	.073
Asymp. Sig. (2-tailed)		.200 ^{c,d}	.189 ^c	.052 ^c	.188 ^c

a. Test distribution is Normal.
 b. Calculated from data.
 c. Lilliefors Significance Correction.
 d. This is a lower bound of the true significance.

• Hasil Uji Normal P-P Plot



• Hasil Uji Multikolinearitas

Coefficients ^a			
Model		Collinearity Statistics	
		Tolerance	VIF
1	SQRTLNR	.562	1.780
	SQRTLNCR	.946	1.057
	SQRTLNTATO	.542	1.846

a. Dependent Variable: SQRTLNHHS

• Hasil Uji Autokorelasi

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.494 ^a	.244	.224	.51448	1.520

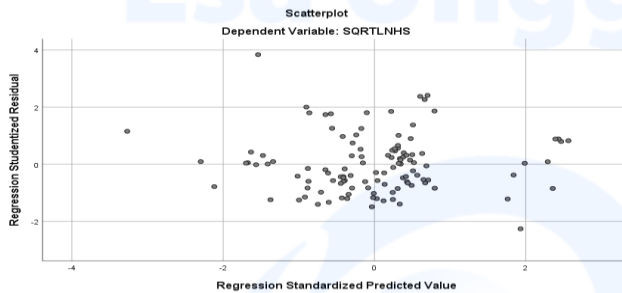
a. Predictors: (Constant), SQRTLNTATO, SQRTLNCR, SQRTLNR
b. Dependent Variable: SQRTLNHHS

Perhitungan Uji Autokorelasi dengan Cochrane Orcutt

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.539 ^a	.290	.270	.49984	1.976

a. Predictors: (Constant), Lag_SQRTLNTATO, Lag_SQRTLNCR, Lag_SQRTLNR
b. Dependent Variable: Lag_SQRTLNHHS

• Hasil Uji Heteroskedastisitas



• Hasil Uji Simultan (Uji F)

ANOVA ^a						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	9.403	3	3.134	11.842	.000 ^b
	Residual	29.115	110	.265		
	Total	38.518	113			

a. Dependent Variable: SQRTLNHHS
b. Predictors: (Constant), SQRTLNTATO, SQRTLNCR, SQRTLNR

• Hasil Uji Parsial (Uji t)

Coefficients ^a						
Model		Unstandardized Coefficients		Standardized Coefficients		
		B	Std. Error	Beta	t	Sig.
1	(Constant)	4.745	.173		27.464	.000
	SQRTLNR0A	.230	.140	.181	1.639	.104
	SQRTLNCR	-.422	.166	-.216	-2.534	.013
	SQRTLNTATO	.507	.208	.274	2.435	.016

a. Dependent Variable: SQRTLNHS

• Hasil Uji Koefisien Determinasi

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.539 ^a	.290	.270	.49984	1.976

a. Predictors: (Constant), Lag_SQRTLNTATO, Lag_SQRTLNCR, Lag_SQRTLNR0A
 b. Dependent Variable: Lag_SQRTLNHS

Lampiran 8

Tabel Durbin-Watson (DW), $\alpha = 5\%$

n	k=1		k=2		k=3		k=4		k=5	
	dL	dU	dL	dU	dL	dU	dL	dU	dL	dU
6	0,6102	1,4002								
7	0,6996	1,3564	0,4672	1,8964						
8	0,7629	1,3324	0,5591	1,7771	0,3674	2,2866				
9	0,8243	1,3199	0,6291	1,6993	0,4548	2,1282	0,2957	2,5881		
10	0,8791	1,3197	0,6972	1,6413	0,5253	2,0163	0,3760	2,4137	0,2427	2,8217
11	0,9273	1,3241	0,7580	1,6044	0,5948	1,9280	0,4441	2,2833	0,3155	2,6446
12	0,9708	1,3314	0,8122	1,5794	0,6577	1,8640	0,5120	2,1766	0,3796	2,5061
13	1,0097	1,3404	0,8612	1,5621	0,7147	1,8159	0,5745	2,0943	0,4445	2,3897
14	1,0450	1,3503	0,9054	1,5507	0,7667	1,7788	0,6321	2,0296	0,5052	2,2959
15	1,0770	1,3605	0,9455	1,5432	0,8140	1,7501	0,6852	1,9774	0,5620	2,2198
16	1,1062	1,3709	0,9820	1,5386	0,8572	1,7277	0,7340	1,9351	0,6150	2,1567
17	1,1330	1,3812	1,0154	1,5361	0,8968	1,7101	0,7790	1,9005	0,6641	2,1041
18	1,1576	1,3913	1,0461	1,5353	0,9331	1,6961	0,8204	1,8719	0,7098	2,0600
19	1,1804	1,4012	1,0743	1,5355	0,9666	1,6851	0,8588	1,8482	0,7523	2,0226
20	1,2015	1,4107	1,1004	1,5367	0,9976	1,6763	0,8943	1,8283	0,7918	1,9908
21	1,2212	1,4200	1,1246	1,5385	1,0262	1,6694	0,9272	1,8116	0,8286	1,9635
22	1,2395	1,4289	1,1471	1,5408	1,0529	1,6640	0,9578	1,7974	0,8629	1,9400
23	1,2567	1,4375	1,1682	1,5435	1,0778	1,6597	0,9864	1,7855	0,8949	1,9196
24	1,2728	1,4458	1,1878	1,5464	1,1010	1,6565	1,0131	1,7753	0,9249	1,9018
25	1,2879	1,4537	1,2063	1,5495	1,1228	1,6540	1,0381	1,7666	0,9530	1,8863
26	1,3022	1,4614	1,2236	1,5528	1,1432	1,6523	1,0616	1,7591	0,9794	1,8727
27	1,3157	1,4688	1,2399	1,5562	1,1624	1,6510	1,0836	1,7527	1,0042	1,8608
28	1,3284	1,4759	1,2553	1,5596	1,1805	1,6503	1,1044	1,7473	1,0276	1,8502
29	1,3405	1,4828	1,2699	1,5631	1,1976	1,6499	1,1241	1,7426	1,0497	1,8409
30	1,3520	1,4894	1,2837	1,5666	1,2138	1,6498	1,1426	1,7386	1,0706	1,8326
31	1,3630	1,4957	1,2969	1,5701	1,2292	1,6500	1,1602	1,7352	1,0904	1,8252
32	1,3734	1,5019	1,3093	1,5736	1,2437	1,6505	1,1769	1,7323	1,1092	1,8187
33	1,3834	1,5078	1,3212	1,5770	1,2576	1,6511	1,1927	1,7298	1,1270	1,8128
34	1,3929	1,5136	1,3325	1,5805	1,2707	1,6519	1,2078	1,7277	1,1439	1,8076
35	1,4019	1,5191	1,3433	1,5838	1,2833	1,6528	1,2221	1,7259	1,1601	1,8029

36	1,4107	1,5245	1,3537	1,5872	1,2953	1,6539	1,2358	1,7245	1,1755	1,7987
37	1,4190	1,5297	1,3635	1,5904	1,3068	1,6550	1,2489	1,7233	1,1901	1,7950
38	1,4270	1,5348	1,3730	1,5937	1,3177	1,6563	1,2614	1,7223	1,2042	1,7916
39	1,4347	1,5396	1,3821	1,5969	1,3283	1,6575	1,2734	1,7215	1,2176	1,7886
40	1,4421	1,5444	1,3908	1,6000	1,3384	1,6589	1,2848	1,7209	1,2305	1,7859
41	1,4493	1,5490	1,3992	1,6031	1,3480	1,6603	1,2958	1,7205	1,2428	1,7835
42	1,4562	1,5534	1,4073	1,6061	1,3573	1,6617	1,3064	1,7202	1,2546	1,7814
43	1,4628	1,5577	1,4151	1,6091	1,3663	1,6632	1,3166	1,7200	1,2660	1,7794
44	1,4692	1,5619	1,4226	1,6120	1,3749	1,6647	1,3263	1,7200	1,2769	1,7777
45	1,4754	1,5660	1,4298	1,6148	1,3832	1,6662	1,3357	1,7200	1,2874	1,7762
46	1,4814	1,5700	1,4368	1,6176	1,3912	1,6677	1,3448	1,7201	1,2976	1,7748
47	1,4872	1,5739	1,4435	1,6204	1,3989	1,6692	1,3535	1,7203	1,3073	1,7736
48	1,4928	1,5776	1,4500	1,6231	1,4064	1,6708	1,3619	1,7206	1,3167	1,7725
49	1,4982	1,5813	1,4564	1,6257	1,4136	1,6723	1,3701	1,7210	1,3258	1,7716
50	1,5035	1,5849	1,4625	1,6283	1,4206	1,6739	1,3779	1,7214	1,3346	1,7708
51	1,5086	1,5884	1,4684	1,6309	1,4273	1,6754	1,3855	1,7218	1,3431	1,7701
52	1,5135	1,5917	1,4741	1,6334	1,4339	1,6769	1,3929	1,7223	1,3512	1,7694
53	1,5183	1,5951	1,4797	1,6359	1,4402	1,6785	1,4000	1,7228	1,3592	1,7689
54	1,5230	1,5983	1,4851	1,6383	1,4464	1,6800	1,4069	1,7234	1,3669	1,7684
55	1,5276	1,6014	1,4903	1,6406	1,4523	1,6815	1,4136	1,7240	1,3743	1,7681
56	1,5320	1,6045	1,4954	1,6430	1,4581	1,6830	1,4201	1,7246	1,3815	1,7678
57	1,5363	1,6075	1,5004	1,6452	1,4637	1,6845	1,4264	1,7253	1,3885	1,7675
58	1,5405	1,6105	1,5052	1,6475	1,4692	1,6860	1,4325	1,7259	1,3953	1,7673
59	1,5446	1,6134	1,5099	1,6497	1,4745	1,6875	1,4385	1,7266	1,4019	1,7672
60	1,5485	1,6162	1,5144	1,6518	1,4797	1,6889	1,4443	1,7274	1,4083	1,7671
61	1,5524	1,6189	1,5189	1,6540	1,4847	1,6904	1,4499	1,7281	1,4146	1,7671
62	1,5562	1,6216	1,5232	1,6561	1,4896	1,6918	1,4554	1,7288	1,4206	1,7671
63	1,5599	1,6243	1,5274	1,6581	1,4943	1,6932	1,4607	1,7296	1,4265	1,7671
64	1,5635	1,6268	1,5315	1,6601	1,4990	1,6946	1,4659	1,7303	1,4322	1,7672
65	1,5670	1,6294	1,5355	1,6621	1,5035	1,6960	1,4709	1,7311	1,4378	1,7673
66	1,5704	1,6318	1,5395	1,6640	1,5079	1,6974	1,4758	1,7319	1,4433	1,7675
67	1,5738	1,6343	1,5433	1,6660	1,5122	1,6988	1,4806	1,7327	1,4486	1,7676
68	1,5771	1,6367	1,5470	1,6678	1,5164	1,7001	1,4853	1,7335	1,4537	1,7678
69	1,5803	1,6390	1,5507	1,6697	1,5205	1,7015	1,4899	1,7343	1,4588	1,7680
70	1,5834	1,6413	1,5542	1,6715	1,5245	1,7028	1,4943	1,7351	1,4637	1,7683
71	1,5865	1,6435	1,5577	1,6733	1,5284	1,7041	1,4987	1,7358	1,4685	1,7685
72	1,5895	1,6457	1,5611	1,6751	1,5323	1,7054	1,5029	1,7366	1,4732	1,7688
73	1,5924	1,6479	1,5645	1,6768	1,5360	1,7067	1,5071	1,7375	1,4778	1,7691
74	1,5953	1,6500	1,5677	1,6785	1,5397	1,7079	1,5112	1,7383	1,4822	1,7694
75	1,5981	1,6521	1,5709	1,6802	1,5432	1,7092	1,5151	1,7390	1,4866	1,7698
76	1,6009	1,6541	1,5740	1,6819	1,5467	1,7104	1,5190	1,7399	1,4909	1,7701
77	1,6036	1,6561	1,5771	1,6835	1,5502	1,7117	1,5228	1,7407	1,4950	1,7704
78	1,6063	1,6581	1,5801	1,6851	1,5535	1,7129	1,5265	1,7415	1,4991	1,7708
79	1,6089	1,6601	1,5830	1,6867	1,5568	1,7141	1,5302	1,7423	1,5031	1,7712
80	1,6114	1,6620	1,5859	1,6882	1,5600	1,7153	1,5337	1,7430	1,5070	1,7716
81	1,6139	1,6639	1,5888	1,6898	1,5632	1,7164	1,5372	1,7438	1,5109	1,7720
82	1,6164	1,6657	1,5915	1,6913	1,5663	1,7176	1,5406	1,7446	1,5146	1,7724
83	1,6188	1,6675	1,5942	1,6928	1,5693	1,7187	1,5440	1,7454	1,5183	1,7728
84	1,6212	1,6693	1,5969	1,6942	1,5723	1,7199	1,5472	1,7462	1,5219	1,7732

85	1,6235	1,6711	1,5995	1,6957	1,5752	1,7210	1,5505	1,7470	1,5254	1,7736
86	1,6258	1,6728	1,6021	1,6971	1,5780	1,7221	1,5536	1,7478	1,5289	1,7740
87	1,6280	1,6745	1,6046	1,6985	1,5808	1,7232	1,5567	1,7485	1,5322	1,7745
88	1,6302	1,6762	1,6071	1,6999	1,5836	1,7243	1,5597	1,7493	1,5356	1,7749
89	1,6324	1,6778	1,6095	1,7013	1,5863	1,7254	1,5627	1,7501	1,5388	1,7754
90	1,6345	1,6794	1,6119	1,7026	1,5889	1,7264	1,5656	1,7508	1,5420	1,7758
91	1,6366	1,6810	1,6143	1,7040	1,5915	1,7275	1,5685	1,7516	1,5452	1,7763
92	1,6387	1,6826	1,6166	1,7053	1,5941	1,7285	1,5713	1,7523	1,5482	1,7767
93	1,6407	1,6841	1,6188	1,7066	1,5966	1,7295	1,5741	1,7531	1,5513	1,7772
94	1,6427	1,6857	1,6211	1,7078	1,5991	1,7306	1,5768	1,7538	1,5542	1,7776
95	1,6447	1,6872	1,6233	1,7091	1,6015	1,7316	1,5795	1,7546	1,5572	1,7781
96	1,6466	1,6887	1,6254	1,7103	1,6039	1,7326	1,5821	1,7553	1,5600	1,7785
97	1,6485	1,6901	1,6275	1,7116	1,6063	1,7335	1,5847	1,7560	1,5628	1,7790
98	1,6504	1,6916	1,6296	1,7128	1,6086	1,7345	1,5872	1,7567	1,5656	1,7795
99	1,6522	1,6930	1,6317	1,7140	1,6108	1,7355	1,5897	1,7575	1,5683	1,7799
100	1,6540	1,6944	1,6337	1,7152	1,6131	1,7364	1,5922	1,7582	1,5710	1,7804
101	1,6558	1,6958	1,6357	1,7163	1,6153	1,7374	1,5946	1,7589	1,5736	1,7809
102	1,6576	1,6971	1,6376	1,7175	1,6174	1,7383	1,5969	1,7596	1,5762	1,7813
103	1,6593	1,6985	1,6396	1,7186	1,6196	1,7392	1,5993	1,7603	1,5788	1,7818
104	1,6610	1,6998	1,6415	1,7198	1,6217	1,7402	1,6016	1,7610	1,5813	1,7823
105	1,6627	1,7011	1,6433	1,7209	1,6237	1,7411	1,6038	1,7617	1,5837	1,7827
106	1,6644	1,7024	1,6452	1,7220	1,6258	1,7420	1,6061	1,7624	1,5861	1,7832
107	1,6660	1,7037	1,6470	1,7231	1,6277	1,7428	1,6083	1,7631	1,5885	1,7837
108	1,6676	1,7050	1,6488	1,7241	1,6297	1,7437	1,6104	1,7637	1,5909	1,7841
109	1,6692	1,7062	1,6505	1,7252	1,6317	1,7446	1,6125	1,7644	1,5932	1,7846
110	1,6708	1,7074	1,6523	1,7262	1,6336	1,7455	1,6146	1,7651	1,5955	1,7851
111	1,6723	1,7086	1,6540	1,7273	1,6355	1,7463	1,6167	1,7657	1,5977	1,7855
112	1,6738	1,7098	1,6557	1,7283	1,6373	1,7472	1,6187	1,7664	1,5999	1,7860
113	1,6753	1,7110	1,6574	1,7293	1,6391	1,7480	1,6207	1,7670	1,6021	1,7864
114	1,6768	1,7122	1,6590	1,7303	1,6410	1,7488	1,6227	1,7677	1,6042	1,7869
115	1,6783	1,7133	1,6606	1,7313	1,6427	1,7496	1,6246	1,7683	1,6063	1,7874
116	1,6797	1,7145	1,6622	1,7323	1,6445	1,7504	1,6265	1,7690	1,6084	1,7878
117	1,6812	1,7156	1,6638	1,7332	1,6462	1,7512	1,6284	1,7696	1,6105	1,7883
118	1,6826	1,7167	1,6653	1,7342	1,6479	1,7520	1,6303	1,7702	1,6125	1,7887
119	1,6839	1,7178	1,6669	1,7352	1,6496	1,7528	1,6321	1,7709	1,6145	1,7892
120	1,6853	1,7189	1,6684	1,7361	1,6513	1,7536	1,6339	1,7715	1,6164	1,7896
121	1,6867	1,7200	1,6699	1,7370	1,6529	1,7544	1,6357	1,7721	1,6184	1,7901
122	1,6880	1,7210	1,6714	1,7379	1,6545	1,7552	1,6375	1,7727	1,6203	1,7905
123	1,6893	1,7221	1,6728	1,7388	1,6561	1,7559	1,6392	1,7733	1,6222	1,7910
124	1,6906	1,7231	1,6743	1,7397	1,6577	1,7567	1,6409	1,7739	1,6240	1,7914
125	1,6919	1,7241	1,6757	1,7406	1,6592	1,7574	1,6426	1,7745	1,6258	1,7919
126	1,6932	1,7252	1,6771	1,7415	1,6608	1,7582	1,6443	1,7751	1,6276	1,7923
127	1,6944	1,7261	1,6785	1,7424	1,6623	1,7589	1,6460	1,7757	1,6294	1,7928
128	1,6957	1,7271	1,6798	1,7432	1,6638	1,7596	1,6476	1,7763	1,6312	1,7932
129	1,6969	1,7281	1,6812	1,7441	1,6653	1,7603	1,6492	1,7769	1,6329	1,7937
130	1,6981	1,7291	1,6825	1,7449	1,6667	1,7610	1,6508	1,7774	1,6346	1,7941
131	1,6993	1,7301	1,6838	1,7458	1,6682	1,7617	1,6523	1,7780	1,6363	1,7945
132	1,7005	1,7310	1,6851	1,7466	1,6696	1,7624	1,6539	1,7786	1,6380	1,7950
133	1,7017	1,7319	1,6864	1,7474	1,6710	1,7631	1,6554	1,7791	1,6397	1,7954



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