



LAMPIRAN

Lampiran 1. Data Harga Nominal dan Harga Rill Cengkeh Tingkat Produsen di Jawa Timur Tahun 2003-2012

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Produsen	Inflasi (%)	Harga Rill (Rp/Kg)
2003	Januari	25700	100.0		25700.00
	Februari	26500	103.1	3.1	25703.20
	Maret	26500	103.1	0.0	25703.20
	April	22750	88.5	-14.2	25706.21
	Mei	21550	83.9	-5.3	25685.34
	Juni	18150	70.6	-15.8	25708.22
	Juli	14400	56.0	-20.7	25714.29
	Agustus	14500	56.4	0.7	25709.22
	September	12917	50.3	-10.9	25679.26
	Oktober	13250	51.6	2.6	25678.29
	November	12500	48.6	-5.7	25720.16
	Desember	13000	50.6	4.0	25691.70
2004	Januari	13350	51.9	2.7	25722.54
	Februari	19750	76.8	47.9	25716.15
	Maret	21300	82.9	7.8	25693.61
	April	21333	83.0	0.2	25702.81
	Mei	20267	78.9	-5.0	25686.53
	Juni	26000	101.2	28.3	25691.70
	Juli	25333	98.6	-2.6	25693.03
	Agustus	25600	99.6	1.1	25702.81
	September	26357	102.6	3.0	25689.22
	Oktober	26614	103.6	1.0	25689.47
	November	29214	113.7	9.8	25694.19
	Desember	29929	116.5	2.4	25689.76
2005	Januari	30214	117.6	1.0	25692.42
	Februari	29571	115.1	-2.1	25691.95
	Maret	31429	122.3	6.3	25697.93
	April	29500	114.8	-6.1	25696.86
	Mei	31000	120.6	5.1	25704.81
	Juni	31000	120.6	0.0	25704.81
	Juli	30214	117.6	-2.5	25692.42
	Agustus	31833	123.9	5.4	25692.76
	September	30417	118.4	-4.5	25689.76
	Oktober	29600	115.2	-2.7	25694.44
	November	27900	108.6	-5.7	25690.61
	Desember	28600	111.3	2.5	25696.32

Lampiran 1. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Produsen	Inflasi (%)	Harga Rill (Rp/Kg)
2006	Januari	29833	116.1	4.3	25696.24
	Februari	31750	123.5	6.4	25708.50
	Maret	32833	127.8	3.4	25691.18
	April	33083	128.7	0.8	25705.77
	Mei	35667	138.8	7.8	25696.45
	Juni	37750	146.9	5.8	25697.75
	Juli	37667	146.6	-0.2	25693.50
	Agustus	36143	140.6	-4.0	25706.16
	September	36500	142.0	1.0	25704.23
	Oktober	37750	146.9	3.4	25697.75
	November	38000	147.9	0.7	25693.04
	Desember	39437	153.5	3.8	25691.86
2007	Januari	32312	125.7	-18.1	25705.65
	Februari	33420	130.0	3.4	25707.69
	Maret	35430	137.9	6.0	25692.53
	April	37233	144.9	5.1	25695.65
	Mei	34246	133.3	-8.0	25690.92
	Juni	34256	133.3	0.0	25698.42
	Juli	34556	134.5	0.9	25692.19
	Agustus	30240	117.7	-12.5	25692.44
	September	25768	100.3	-14.8	25690.93
	Oktober	32192	125.3	24.9	25691.94
	November	31650	123.2	-1.7	25689.94
	Desember	30230	117.6	-4.5	25705.78
2008	Januari	33765	131.4	11.7	25696.35
	Februari	27056	105.3	-19.9	25694.21
	Maret	41009	159.6	51.6	25694.86
	April	42789	166.5	4.3	25699.10
	Mei	44265	172.2	3.4	25705.57
	Juni	45334	176.4	2.4	25699.55
	Juli	42399	165.0	-6.5	25696.36
	Agustus	47689	185.6	12.5	25694.50
	September	45789	178.2	-4.0	25695.29
	Oktober	50738	197.4	10.8	25703.14
	November	51462	200.2	1.4	25705.29
	Desember	42760	166.4	-16.9	25697.12

Lampiran 1. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Produsen	Inflasi (%)	Harga Rill (Rp/Kg)
2009	Januari	31222	121.5	-27.0	25697.12
	Februari	33097	128.8	6.0	25696.43
	Maret	25096	97.6	-24.2	25713.11
	April	28283	110.1	12.7	25688.47
	Mei	16111	62.7	-43.0	25695.37
	Juni	20000	77.8	24.1	25706.94
	Juli	18550	72.2	-7.3	25692.52
	Agustus	19436	75.6	4.8	25708.99
	September	18150	70.6	-6.6	25708.22
	Oktober	20682	80.5	14.0	25691.93
	November	26179	101.9	26.6	25690.87
	Desember	27250	106.0	4.1	25707.55
2010	Januari	48350	188.1	77.4	25704.41
	Februari	48350	188.1	0.0	25704.41
	Maret	48150	187.4	-0.4	25693.70
	April	48700	189.5	1.1	25699.21
	Mei	49250	191.6	1.1	25704.59
	Juni	48300	187.9	-1.9	25705.16
	Juli	49250	191.6	2.0	25704.59
	Agustus	49350	192.0	0.2	25703.13
	September	47350	184.2	-4.1	25705.75
	Oktober	47400	184.4	0.1	25704.99
	November	47200	183.7	-0.4	25694.07
	Desember	47200	183.7	0.0	25694.07
2011	Januari	48400	188.3	2.5	25703.66
	Februari	48600	189.1	0.4	25700.69
	Maret	48830	190.0	0.5	25700.00
	April	51400	200.0	5.3	25700.00
	Mei	61700	240.1	20.0	25697.63
	Juni	55000	214.0	-10.9	25700.93
	Juli	57386	223.3	4.3	25699.06
	Agustus	58310	226.9	1.6	25698.55
	September	57716	224.6	-1.0	25697.24
	Oktober	58429	227.4	1.2	25694.37
	November	59652	232.1	2.1	25700.99
	Desember	59870	233.0	0.4	25695.28

Lampiran 1. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Produsen	Inflasi (%)	Harga Rill (Rp/Kg)
2012	Januari	129500	503.9	116.3	25699.54
	Februari	52656	204.9	-59.3	25698.39
	Maret	54787	213.2	4.0	25697.47
	April	57207	222.6	4.4	25699.46
	Mei	62794	244.3	9.8	25703.64
	Juni	81700	317.9	30.1	25699.91
	Juli	94200	366.5	15.3	25702.59
	Agustus	94500	367.7	0.3	25700.30
	September	77900	303.1	-17.6	25701.09
	Oktober	122800	477.8	57.6	25701.13
	November	112300	437.0	-8.6	25697.94
	Desember	126700	493.0	12.8	25699.80



Lampiran 2. Data Harga Nominal dan Harga Rill Cengkeh Tingkat Pedagang di Jawa Timur Tahun 2003-2012

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Pedagang	Inflasi (%)	Harga Rill (Rp/Kg)
2003	Januari	28420	100.0		28420.00
	Februari	28750	101.2	1.2	28409.09
	Maret	28140	99.0	-2.1	28424.24
	April	22725	80.0	-19.2	28406.25
	Mei	22510	79.2	-0.9	28421.72
	Juni	20176	71.0	-10.4	28416.90
	Juli	19526	68.7	-3.2	28422.13
	Agustus	18639	65.6	-4.5	28413.11
	September	15763	55.5	-15.4	28401.80
	Oktober	15380	54.1	-2.4	28428.84
	November	15628	55.0	1.6	28414.55
	Desember	18536	65.2	18.6	28429.45
2004	Januari	20170	71.0	8.8	28408.45
	Februari	20777	73.1	3.0	28422.71
	Maret	25800	90.8	24.2	28414.10
	April	26000	91.5	0.8	28415.30
	Mei	26332	92.7	1.3	28405.61
	Juni	28771	101.2	9.3	28429.84
	Juli	28660	100.8	-0.4	28432.54
	Agustus	26320	92.6	-8.2	28423.33
	September	27058	95.2	2.8	28422.27
	Oktober	29230	102.9	8.0	28406.22
	November	29890	105.2	2.3	28412.55
	Desember	30333	106.7	1.5	28428.30
2005	Januari	31651	111.4	4.3	28412.03
	Februari	30160	106.1	-4.7	28426.01
	Maret	36841	129.6	22.2	28426.70
	April	37500	131.9	1.8	28430.63
	Mei	35821	126.0	-4.5	28429.37
	Juni	37668	132.5	5.2	28428.68
	Juli	38678	136.1	2.7	28418.81
	Agustus	35349	124.4	-8.6	28415.59
	September	32633	114.8	-7.7	28425.96
	Oktober	35300	124.2	8.2	28421.90
	November	30600	107.7	-13.3	28412.26
	Desember	35989	126.6	17.6	28427.33

Lampiran 2. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Pedagang	Inflasi (%)	Harga Rill (Rp/Kg)
2006	Januari	34393	121.0	-4.4	28423.97
	Februari	32688	115.0	-5.0	28424.35
	Maret	34250	120.5	4.8	28423.24
	April	35790	125.9	4.5	28427.32
	Mei	38032	133.8	6.3	28424.51
	Juni	37908	133.4	-0.3	28416.79
	Juli	39677	139.6	4.7	28421.92
	Agustus	38798	136.5	-2.2	28423.44
	September	39708	139.7	2.3	28423.77
	Oktober	39774	140.0	0.2	28410.00
	November	39721	139.8	-0.1	28412.73
	Desember	39622	139.4	-0.2	28423.24
2007	Januari	35317	124.3	-10.9	28412.71
	Februari	35820	126.0	1.4	28428.57
	Maret	36087	127.0	0.7	28414.96
	April	37257	131.1	3.2	28418.76
	Mei	36667	129.0	-1.6	28424.03
	Juni	34375	121.0	-6.3	28409.09
	Juli	34938	122.9	1.6	28427.99
	Agustus	30769	108.3	-11.9	28410.90
	September	26942	94.8	-12.4	28419.83
	Oktober	32192	113.3	19.5	28413.06
	November	33055	116.3	2.7	28422.18
	Desember	32808	115.4	-0.7	28429.81
2008	Januari	37365	131.5	13.9	28414.45
	Februari	27050	95.2	-27.6	28413.87
	Maret	41341	145.5	52.8	28413.06
	April	43173	151.9	4.4	28421.99
	Mei	44865	157.9	3.9	28413.55
	Juni	47160	165.9	5.1	28426.76
	Juli	45115	158.7	-4.3	28427.85
	Agustus	48365	170.2	7.2	28416.57
	September	50865	179.0	5.2	28416.20
	Oktober	51308	180.5	0.9	28425.48
	November	52938	186.3	3.2	28415.46
	Desember	49354	173.7	-6.8	28413.36

Lampiran 2. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Pedagang	Inflasi (%)	Harga Rill (Rp/Kg)
2009	Januari	46889	165.0	-5.0	28417.58
	Februari	47111	165.8	0.5	28414.35
	Maret	49889	175.5	5.9	28426.78
	April	48558	170.9	-2.7	28413.11
	Mei	47111	165.8	-3.0	28414.35
	Juni	49360	173.7	4.8	28416.81
	Juli	50860	179.0	3.0	28413.41
	Agustus	52132	183.4	2.5	28425.30
	September	55058	193.7	5.6	28424.37
	Oktober	53967	189.9	-2.0	28418.64
	November	52480	184.7	-2.8	28413.64
	Desember	51249	180.3	-2.3	28424.29
2010	Januari	50339	177.1	-1.8	28424.05
	Februari	51429	181.0	2.2	28413.81
	Maret	51105	179.8	-0.6	28423.25
	April	52338	184.2	2.4	28413.68
	Mei	57589	202.6	10.0	28424.98
	Juni	59857	210.6	3.9	28422.13
	Juli	61088	214.9	2.1	28426.24
	Agustus	57321	201.7	-6.2	28418.94
	September	55338	194.7	-3.5	28422.19
	Oktober	93909	330.4	69.7	28422.82
	November	62472	219.8	-33.5	28422.20
	Desember	54375	191.3	-13.0	28423.94
2011	Januari	58658	206.4	7.9	28419.57
	Februari	48479	170.6	-17.4	28416.76
	Maret	49200	173.1	1.5	28422.88
	April	51943	182.8	5.6	28415.21
	Mei	52969	186.4	2.0	28416.85
	Juni	65700	231.2	24.0	28416.96
	Juli	73400	258.3	11.7	28416.57
	Agustus	100200	352.6	36.5	28417.47
	September	102000	358.9	1.8	28420.17
	Oktober	148900	523.9	46.0	28421.45
	November	166400	585.5	11.8	28420.15
	Desember	160400	564.4	-3.6	28419.56

Lampiran 2. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Pedagang	Inflasi (%)	Harga Rill (Rp/Kg)
2012	Januari	197500	694.9	23.1	28421.36
	Februari	148800	523.6	-24.7	28418.64
	Maret	149300	525.3	0.3	28421.85
	April	157400	553.8	5.4	28421.81
	Mei	137800	484.9	-12.5	28418.23
	Juni	108033	380.1	-21.6	28422.26
	Juli	108179	380.6	0.1	28423.28
	Agustus	109125	384.0	0.9	28417.97
	September	125833	442.8	15.3	28417.57
	Oktober	146636	516.0	16.5	28417.83
	November	140300	493.7	-4.3	28418.07
	Desember	142375	501.0	1.5	28418.16



Lampiran 3. Data Harga Nominal dan Harga Rill Cengkeh Tingkat Konsumen di Jawa Timur Tahun 2003-2012

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Konsumen	Inflasi (%)	Harga Rill (Rp/Kg)
2003	Januari	33780	100.0		33780.00
	Februari	36910	109.3	9.3	33769.44
	Maret	35919	106.3	-2.7	33790.22
	April	29000	85.8	-19.3	33799.53
	Mei	36891	109.2	27.2	33782.97
	Juni	27910	82.6	-24.3	33789.35
	Juli	29700	87.9	6.4	33788.40
	Agustus	27616	81.8	-7.0	33760.39
	September	26900	79.6	-2.6	33793.97
	Oktober	24716	73.2	-8.1	33765.03
	November	20140	59.6	-18.5	33791.95
	Desember	22810	67.5	13.3	33792.59
2004	Januari	38166	113.0	67.3	33775.22
	Februari	35600	105.4	-6.7	33776.09
	Maret	40188	119.0	12.9	33771.43
	April	37100	109.8	-7.7	33788.71
	Mei	36819	109.0	-0.8	33778.90
	Juni	40200	119.0	9.2	33781.51
	Juli	41700	123.4	3.7	33792.54
	Agustus	38250	113.2	-8.3	33789.75
	September	52660	155.9	37.7	33778.06
	Oktober	31900	94.4	-39.4	33792.37
	November	30150	89.3	-5.5	33762.60
	Desember	45710	135.3	51.6	33784.18
2005	Januari	42640	126.2	-6.7	33787.64
	Februari	39760	117.7	-6.8	33780.80
	Maret	41600	123.1	4.6	33793.66
	April	39510	117.0	-5.0	33769.23
	Mei	39620	117.3	0.3	33776.64
	Juni	42800	126.7	8.0	33780.58
	Juli	43677	129.3	2.0	33779.58
	Agustus	39288	116.3	-10.0	33781.60
	September	40167	118.9	2.2	33782.17
	Oktober	45660	135.2	13.7	33772.19
	November	38255	113.2	-16.2	33794.17
	Desember	43711	129.4	14.3	33779.75

Lampiran 3. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Konsumen	Inflasi (%)	Harga Rill (Rp/Kg)
2006	Januari	46500	137.7	6.4	33769.06
	Februari	48100	142.4	3.4	33778.09
	Maret	38200	113.1	-20.6	33775.42
	April	40175	118.9	5.2	33788.90
	Mei	46700	138.2	16.2	33791.61
	Juni	48300	143.0	3.4	33776.22
	Juli	49720	147.2	2.9	33777.17
	Agustus	43875	129.9	-11.8	33775.98
	September	50177	148.5	14.4	33789.23
	Oktober	45800	135.6	-8.7	33775.81
	November	44620	132.1	-2.6	33777.44
	Desember	44863	132.8	0.5	33782.38
2007	Januari	38910	115.2	-13.3	33776.04
	Februari	40180	118.9	3.3	33793.10
	Maret	43717	129.4	8.8	33784.39
	April	46728	138.3	6.9	33787.42
	Mei	53770	159.2	15.1	33775.13
	Juni	42810	126.7	-20.4	33788.48
	Juli	43710	129.4	2.1	33778.98
	Agustus	37290	110.4	-14.7	33777.17
	September	36282	107.4	-2.7	33782.12
	Oktober	39100	115.7	7.8	33794.30
	November	42833	126.8	9.5	33779.97
	Desember	42819	126.8	0.0	33768.93
2008	Januari	46188	136.7	7.9	33787.86
	Februari	36700	108.6	-20.5	33793.74
	Maret	50120	148.4	36.6	33773.58
	April	65233	193.1	30.2	33781.98
	Mei	52770	156.2	-19.1	33783.61
	Juni	58126	172.1	10.1	33774.55
	Juli	58277	172.5	0.3	33783.77
	Agustus	60200	178.2	3.3	33782.27
	September	58133	172.1	-3.4	33778.62
	Oktober	63500	188.0	9.2	33776.60
	November	65700	194.5	3.5	33778.92
	Desember	57900	171.4	-11.9	33780.63

Lampiran 3. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Konsumen	Inflasi (%)	Harga Rill (Rp/Kg)
2009	Januari	52900	156.6	-8.6	33780.33
	Februari	63888	189.1	20.8	33785.30
	Maret	58000	171.7	-9.2	33779.85
	April	61077	180.8	5.3	33781.53
	Mei	59100	175.0	-3.2	33771.43
	Juni	56750	168.0	-4.0	33779.76
	Juli	61800	182.9	8.9	33788.96
	Agustus	63810	188.9	3.3	33779.78
	September	64910	192.2	1.7	33772.11
	Oktober	67880	200.9	4.6	33787.95
	November	63810	188.9	-6.0	33779.78
	Desember	63799	188.9	0.0	33773.95
2010	Januari	62770	185.8	-1.6	33783.64
	Februari	59200	175.3	-5.7	33770.68
	Maret	63820	188.9	7.8	33785.07
	April	62770	185.8	-1.6	33783.64
	Mei	71072	210.4	13.2	33779.47
	Juni	72888	215.8	2.6	33775.72
	Juli	74500	220.5	2.2	33786.85
	Agustus	67299	199.2	-9.7	33784.64
	September	63810	188.9	-5.2	33779.78
	Oktober	93878	277.9	47.1	33781.22
	November	62788	185.9	-33.1	33775.15
	Desember	71900	212.8	14.5	33787.59
2011	Januari	62500	185.0	-13.1	33783.78
	Februari	59800	177.0	-4.3	33785.31
	Maret	60188	178.2	0.6	33775.53
	April	61088	180.8	1.5	33787.61
	Mei	62810	185.9	2.8	33786.98
	Juni	78100	231.2	24.3	33780.28
	Juli	82990	245.7	6.3	33776.96
	Agustus	110627	327.5	33.3	33779.24
	September	109180	323.2	-1.3	33780.94
	Oktober	157290	465.6	44.1	33782.22
	November	178200	527.5	13.3	33781.99
	Desember	176277	521.8	-1.1	33782.48

Lampiran 3. (Lanjutan)

Tahun	Bulan	Harga Nominal (Rp/Kg)	Indeks Harga Konsumen	Inflasi (%)	Harga Rill (Rp/Kg)
2012	Januari	197890	585.8	12.3	33781.15
	Februari	160299	474.5	-19.0	33782.72
	Maret	162300	480.5	1.2	33777.32
	April	162800	481.9	0.3	33782.94
	Mei	142050	420.5	-12.7	33781.21
	Juni	110277	326.5	-22.4	33775.50
	Juli	110733	327.8	0.4	33780.66
	Agustus	128193	379.5	15.8	33779.45
	September	130220	385.5	1.6	33779.51
	Oktober	160250	474.4	23.1	33779.51
	November	152775	452.3	-4.7	33777.36
	Desember	160100	473.9	4.8	33783.50



Lampiran 4. Luas Area, Produksi dan Produktivitas Tanaman Cengkeh di Provinsi Jawa Timur Tahun 2010

Lokasi	Luas Area (Ha)	Produksi (Ton)	Produktivitas (Kg/Ha)
Aceh	22.609	1.505	210
Sumatera Utara	2.743	250	181
Sumatera Barat	7.834	1.584	279
Riau	163	28	267
Jambi	209	44	332
Sumatera Selatan	1.085	78	246
Bengkulu	7.099	623	170
Lampung	49	12	291
Kep.Bangka Belitung	15.046	1.587	159
Jawa Barat	33.323	6.051	290
Jawa Tengah	38.972	6.960	250
D.I. Yogyakarta	2.882	225	79
Jawa Timur	41.964	10.213	367
Banten	15.603	3.556	343
Bali	15.496	4.311	303
Nusa Tenggara Barat	1.875	252	240
Nusa Tenggara Timur	14.515	1.621	269
Kalimantan Barat	1.049	204	311
Kalimantan Tengah	33	1	52
Kalimantan Selatan	744	142	279
Kalimantan Timur	53	5	156
Sulawesi Utara	73.891	20.166	433
Sulawesi Tengah	43.438	10.327	309
Sulawesi Selatan	44.524	11.035	378
Sulawesi Tenggara	16.711	4.046	322
Gorontalo	8.045	683	294
Sulawesi Barat	2.973	595	370
Maluku	35.796	8.281	342
Maluku Utara	18.352	4.058	299
Papua Barat	725	77	273
Papua	2.242	67	45
Indonesia	470.043	98.587	8.139

Sumber : Departemen Pertanian, 2014

Lampiran 5. Data Jumlah Curah Hujan di Jawa Timur Tahun 2003-2012

Bulan	Curah Hujan (mm)										Rata-rata Bulanan
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Januari	373	206	170	472	29	218	402	368	231	446	291.50
Februari	389	310	490	390	362	411	216	255	213	61	309.70
Maret	227	366	254	202	385	233	136	336	399	211	274.90
April	70	-	217	101	113	46	88	259	141	141	130.67
Mei	32	162	1	156	79	10	158	318	157	114	118.70
Juni	8	9	128	-	14	0	130	83	31	68	52.33
Juli	-	4	16	-	4	-	-	110	31	-	33.00
Agustus	-	-	-	-	-	-	-	11	-	-	11.00
September	-	1	0	-	-	0	-	115	-	-	29.00
Oktober	1	-	4	-	-	36	-	113	10	2	27.67
November	41	166	120	-	16	384	5	221	261	58	141.33
Desember	157	188	247	216	238	181	52	207	317	171	197.40
Jumlah	1297	1412	1647	1537	1240	1519	1187	2432	1789	1271	

Sumber : BPS Jawa Timur, 2013

Keterangan :

- : tidak ada hujan
- 0 : ada hujan < 0,05mm

Lampiran 6. Output Analisis *Trend* Harga Nominal Cengkeh Tingkat Produsen, Pedagang, dan Konsumen di Jawa Timur Tahun 2003-2012

Time Series Plot of Nominal Produsen

```
MTB > Trend 'Nominal Produsen';
SUBC> Month;
SUBC> Year;
SUBC> Start 1 2003.
```

Trend Analysis for Nominal Produsen

```
Data      Nominal Produsen
Length    120
NMissing  0
```

Fitted Trend Equation

$$Y_t = 11752 + 466*t$$

Accuracy Measures

```
MAPE      26
MAD       9085
MSD      218959497
```

Trend Analysis Plot for Nominal Produsen

Time Series Plot of Nominal Pedagang

```
MTB > Trend 'Nominal Pedagang';
SUBC> Month;
SUBC> Year;
SUBC> Start 1 2003.
```

Trend Analysis for Nominal Pedagang

```
Data      Nominal Pedagang
Length    120
NMissing  0
```

Fitted Trend Equation

$$Y_t = 2344 + 849*t$$

Accuracy Measures

```
MAPE      34
MAD       17483
MSD      558754718
```

Trend Analysis Plot for Nominal Pedagang

Lampiran 6. (Lanjutan)

Time Series Plot of Nominal Konsumen

```
MTB > Trend 'Nominal Konsumen';  
SUBC> Month;  
SUBC> Year;  
SUBC> Start 1 2003.
```

Trend Analysis for Nominal Konsumen

```
Data      Nominal Konsumen  
Length    120  
NMissing  0
```

Fitted Trend Equation

$$Y_t = 11253 + 859 \cdot t$$

Accuracy Measures

```
MAPE      27  
MAD       17331  
MSD       555763974
```

Trend Analysis Plot for Nominal Konsumen



Lampiran 7. Output Analisis *Trend* Harga Rill Cengkeh Tingkat Produsen, Pedagang, dan Konsumen di Jawa Timur Tahun 2003-2012

Time Series Plot of Rill Produsen

```
MTB > Trend 'Rill Produsen';
SUBC> Month;
SUBC> Year;
SUBC> Start 1 2003.
```

Trend Analysis for Rill Produsen

```
Data      Rill Produsen
Length    120
NMissing  0
```

Fitted Trend Equation

$$Y_t = 25697.5 + 0.0196*t$$

Accuracy Measures

```
MAPE    0.0219
MAD     5.6165
MSD    52.2580
```

Trend Analysis Plot for Rill Produsen

Time Series Plot of Rill Pedagang

```
MTB > Trend 'Rill Pedagang';
SUBC> Month;
SUBC> Year;
SUBC> Start 1 2003.
```

Trend Analysis for Rill Pedagang

```
Data      Rill Pedagang
Length    120
NMissing  0
```

Fitted Trend Equation

$$Y_t = 28419.3 + 0.00457*t$$

Accuracy Measures

```
MAPE    0.0179
MAD     5.0891
MSD    37.0251
```

Trend Analysis Plot for Rill Pedagang



Lampiran 7. (Lanjutan)

Time Series Plot of Rill Konsumen

```
MTB > Trend 'Rill Konsumen';
SUBC>   Month;
SUBC>   Year;
SUBC>   Start 1 2003.
```

Trend Analysis for Rill Konsumen

```
Data      Rill Konsumen
Length    120
NMissing  0
```

Fitted Trend Equation

$$Y_t = 33782.1 - 0.014307 * t$$

Accuracy Measures

```
MAPE    0.0157
MAD      5.2935
MSD     47.5990
```

Trend Analysis Plot for Rill Konsumen



Lampiran 8. Hasil Perhitungan *Trend* Harga Nominal Cengkeh Tingkat Produsen, Pedagang, dan Konsumen di Jawa Timur Tahun 2003-2012

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2003	Januari	1	1	25700	12218	28420	3193	33780	12112
	Februari	2	4	53000	12684	57500	4042	73820	12971
	Maret	3	9	79500	13150	84420	4891	107757	13830
	April	4	16	91000	13616	90900	5740	116000	14689
	Mei	5	25	107750	14082	112550	6589	184455	15548
	Juni	6	36	108900	14548	121056	7438	167460	16407
	Juli	7	49	100800	15014	136682	8287	207900	17266
	Agustus	8	64	116000	15480	149112	9136	220928	18125
	September	9	81	116250	15946	141867	9985	242100	18984
	Oktober	10	100	132500	16412	153800	10834	247160	19843
	November	11	121	137500	16878	171908	11683	221540	20702
	Desember	12	144	156000	17344	222432	12532	273720	21561
2004	Januari	13	169	173550	17810	262210	13381	496158	22420
	Februari	14	196	276500	18276	290878	14230	498400	23279
	Maret	15	225	319500	18742	387000	15079	602820	24138
	April	16	256	341333	19208	416000	15928	593600	24997
	Mei	17	289	344533	19674	447644	16777	625923	25856
	Juni	18	324	468000	20140	517878	17626	723600	26715
	Juli	19	361	481333	20606	544540	18475	792300	27574
	Agustus	20	400	512000	21072	526400	19324	765000	28433
	September	21	441	553500	21538	568218	20173	1105860	29292
	Oktober	22	484	585514	22004	643060	21022	701800	30151
	November	23	529	671929	22470	687470	21871	693450	31010
	Desember	24	576	718286	22936	727992	22720	1097040	31869
2005	Januari	25	625	755357	23402	791275	23569	1066000	32728
	Februari	26	676	768857	23868	784160	24418	1033760	33587

Lampiran 8. (Lanjutan)

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2005	Maret	27	729	848571	24334	994707	25267	1123200	34446
	April	28	784	826000	24800	1050000	26116	1106280	35305
	Mei	29	841	899000	25266	1038809	26965	1148980	36164
	Juni	30	900	930000	25732	1130040	27814	1284000	37023
	Juli	31	961	936643	26198	1199018	28663	1353987	37882
	Agustus	32	1024	1018667	26664	1131168	29512	1257216	38741
	September	33	1089	1003750	27130	1076889	30361	1325511	39600
	Oktober	34	1156	1006400	27596	1200200	31210	1552440	40459
	November	35	1225	976500	28062	1071000	32059	1338925	41318
	Desember	36	1296	1029600	28528	1295604	32908	1573596	42177
2006	Januari	37	1369	1103833	28994	1272541	33757	1720500	43036
	Februari	38	1444	1206500	29460	1242144	34606	1827800	43895
	Maret	39	1521	1280500	29926	1335750	35455	1489800	44754
	April	40	1600	1323333	30392	1431600	36304	1607000	45613
	Mei	41	1681	1462333	30858	1559312	37153	1914700	46472
	Juni	42	1764	1585500	31324	1592136	38002	2028600	47331
	Juli	43	1849	1619667	31790	1706111	38851	2137960	48190
	Agustus	44	1936	1590286	32256	1707112	39700	1930500	49049
	September	45	2025	1642500	32722	1786860	40549	2257965	49908
	Oktober	46	2116	1736500	33188	1829604	41398	2106800	50767
2007	Januari	49	2401	1583288	34586	1730533	43945	1906590	53344
	Februari	50	2500	1671000	35052	1791000	44794	2009000	54203
	Maret	51	2601	1806930	35518	1840437	45643	2229567	55062
	April	52	2704	1936116	35984	1937364	46492	2429856	55921
	Mei	53	2809	1815038	36450	1943351	47341	2849810	56780
	Juni	54	2916	1849824	36916	1856250	48190	2311740	57639
	Juli	55	3025	1900580	37382	1921590	49039	2404050	58498

Lampiran 8. (Lanjutan)

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2007	Agustus	56	3136	1693440	37848	1723064	49888	2088240	59357
	September	57	3249	1468776	38314	1535694	50737	2068074	60216
	Oktober	58	3364	1867136	38780	1867136	51586	2267800	61075
	November	59	3481	1867350	39246	1950245	52435	2527147	61934
	Desember	60	3600	1813800	39712	1968480	53284	2569140	62793
2008	Januari	61	3721	2059665	40178	2279265	54133	2817468	63652
	Februari	62	3844	1677472	40644	1677100	54982	2275400	64511
	Maret	63	3969	2583567	41110	2604483	55831	3157560	65370
	April	64	4096	2738496	41576	2763072	56680	4174912	66229
	Mei	65	4225	2877225	42042	2916225	57529	3430050	67088
	Juni	66	4356	2992044	42508	3112560	58378	3836316	67947
	Juli	67	4489	2840733	42974	3022705	59227	3904559	68806
	Agustus	68	4624	3242852	43440	3288820	60076	4093600	69665
	September	69	4761	3159441	43906	3509685	60925	4011177	70524
	Oktober	70	4900	3551660	44372	3591560	61774	4445000	71383
	November	71	5041	3653802	44838	3758598	62623	4664700	72242
	Desember	72	5184	3078720	45304	3553488	63472	4168800	73101
2009	Januari	73	5329	2279206	45770	3422897	64321	3861700	73960
	Februari	74	5476	2449178	46236	3486214	65170	4727712	74819
	Maret	75	5625	1882200	46702	3741675	66019	4350000	75678
	April	76	5776	2149508	47168	3690408	66868	4641852	76537
	Mei	77	5929	1240547	47634	3627547	67717	4550700	77396
	Juni	78	6084	1560000	48100	3850080	68566	4426500	78255
	Juli	79	6241	1465450	48566	4017940	69415	4882200	79114
	Agustus	80	6400	1554880	49032	4170560	70264	5104800	79973
	September	81	6561	1470150	49498	4459698	71113	5257710	80832
	Oktober	82	6724	1695924	49964	4425294	71962	5566160	81691
November	83	6889	2172857	50430	4355840	72811	5296230	82550	

Lampiran 8. (Lanjutan)

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2009	Desember	84	7056	2289000	50896	4304916	73660	5359116	83409
2010	Januari	85	7225	4109750	51362	4278815	74509	5335450	84268
	Februari	86	7396	4158100	51828	4422894	75358	5091200	85127
	Maret	87	7569	4189050	52294	4446135	76207	5552340	85986
	April	88	7744	4285600	52760	4605744	77056	5523760	86845
	Mei	89	7921	4383250	53226	5125421	77905	6325408	87704
	Juni	90	8100	4347000	53692	5387130	78754	6559920	88563
	Juli	91	8281	4481750	54158	5559008	79603	6779500	89422
	Agustus	92	8464	4540200	54624	5273532	80452	6191508	90281
	September	93	8649	4403550	55090	5146434	81301	5934330	91140
	Oktober	94	8836	4455600	55556	8827446	82150	8824532	91999
	November	95	9025	4484000	56022	5934840	82999	5964860	92858
	Desember	96	9216	4531200	56488	5220000	83848	6902400	93717
2011	Januari	97	9409	4694800	56954	5689826	84697	6062500	94576
	Februari	98	9604	4762800	57420	4750942	85546	5860400	95435
	Maret	99	9801	4834170	57886	4870800	86395	5958612	96294
	April	100	10000	5140000	58352	5194300	87244	6108800	97153
	Mei	101	10201	6231700	58818	5349869	88093	6343810	98012
	Juni	102	10404	5610000	59284	6701400	88942	7966200	98871
	Juli	103	10609	5910758	59750	7560200	89791	8547970	99730
	Agustus	104	10816	6064240	60216	10420800	90640	11505208	100589
	September	105	11025	6060180	60682	10710000	91489	11463900	101448
	Oktober	106	11236	6193474	61148	15783400	92338	16672740	102307
	November	107	11449	6382764	61614	17804800	93187	19067400	103166
	Desember	108	11664	6465960	62080	17323200	94036	19037916	104025

Lampiran 8. (Lanjutan)

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2012	Januari	109	11881	14115500	62546	21527500	94885	21570010	104884
	Februari	110	12100	5792160	63012	16368000	95734	17632890	105743
	Maret	111	12321	6081357	63478	16572300	96583	18015300	106602
	April	112	12544	6407184	63944	17628800	97432	18233600	107461
	Mei	113	12769	7095722	64410	15571400	98281	16051650	108320
	Juni	114	12996	9313800	64876	12315762	99130	12571578	109179
	Juli	115	13225	10833000	65342	12440585	99979	12734295	110038
	Agustus	116	13456	10962000	65808	12658500	100828	14870388	110897
	September	117	13689	9114300	66274	14722461	101677	15235740	111756
	Oktober	118	13924	14490400	66740	17303048	102526	18909500	112615
	November	119	14161	13363700	67206	16695700	103375	18180225	113474
	Desember	120	14400	15204000	67672	17085000	104224	19212000	114333

Keterangan:

- X : unit periode waktu
 Y : data *time series* harga cengkeh
 Y' : hasil nilai *trend* harga cengkeh
 $Y'_{\text{produsen}} = 11752 + 466X$
 $Y'_{\text{pedagang}} = 2344 + 849X$
 $Y'_{\text{konsumen}} = 11253 + 859X$

Lampiran 9. Hasil Perhitungan *Trend* Harga Rill Cengkeh Tingkat Produsen, Pedagang, dan Konsumen di Jawa Timur Tahun 2003-2012

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2003	Januari	1	1	25700	25697.5	28420	28419.3	33780	33782.1
	Februari	2	4	51406	25697.5	56818	28419.3	67539	33782.1
	Maret	3	9	77110	25697.6	85273	28419.3	101371	33782.1
	April	4	16	102825	25697.6	113625	28419.3	135198	33782.0
	Mei	5	25	128427	25697.6	142109	28419.3	168915	33782.0
	Juni	6	36	154249	25697.6	170501	28419.3	202736	33782.0
	Juli	7	49	180000	25697.6	198955	28419.3	236519	33782.0
	Agustus	8	64	205674	25697.7	227305	28419.3	270083	33782.0
	September	9	81	231113	25697.7	255616	28419.3	304146	33782.0
	Oktober	10	100	256783	25697.7	284288	28419.3	337650	33782.0
	November	11	121	282922	25697.7	312560	28419.4	371711	33781.9
	Desember	12	144	308300	25697.7	341153	28419.4	405511	33781.9
2004	Januari	13	169	334393	25697.8	369310	28419.4	439078	33781.9
	Februari	14	196	360026	25697.8	397918	28419.4	472865	33781.9
	Maret	15	225	385404	25697.8	426212	28419.4	506571	33781.9
	April	16	256	411245	25697.8	454645	28419.4	540619	33781.9
	Mei	17	289	436671	25697.8	482895	28419.4	574241	33781.9
	Juni	18	324	462451	25697.9	511737	28419.4	608067	33781.8
	Juli	19	361	488168	25697.9	540218	28419.4	642058	33781.8
	Agustus	20	400	514056	25697.9	568467	28419.4	675795	33781.8
	September	21	441	539474	25697.9	596868	28419.4	709339	33781.8
	Oktober	22	484	565168	25697.9	624937	28419.4	743432	33781.8
	November	23	529	590966	25698.0	653489	28419.4	776540	33781.8
	Desember	24	576	616554	25698.0	682279	28419.4	810820	33781.8
2005	Januari	25	625	642311	25698.0	710301	28419.4	844691	33781.7
	Februari	26	676	667991	25698.0	739076	28419.4	878301	33781.7

Lampiran 9. (Lanjutan)

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2005	Maret	27	729	693844	25698.0	767521	28419.4	912429	33781.7
	April	28	784	719512	25698.0	796058	28419.4	945538	33781.7
	Mei	29	841	745439	25698.1	824452	28419.4	979523	33781.7
	Juni	30	900	771144	25698.1	852860	28419.4	1013417	33781.7
	Juli	31	961	796465	25698.1	880983	28419.4	1047167	33781.7
	Agustus	32	1024	822168	25698.1	909299	28419.4	1081011	33781.6
	September	33	1089	847762	25698.1	938057	28419.5	1114812	33781.6
	Oktober	34	1156	873611	25698.2	966345	28419.5	1148254	33781.6
	November	35	1225	899171	25698.2	994429	28419.5	1182796	33781.6
	Desember	36	1296	925068	25698.2	1023384	28419.5	1216071	33781.6
2006	Januari	37	1369	950761	25698.2	1051687	28419.5	1249455	33781.6
	Februari	38	1444	976923	25698.2	1080125	28419.5	1283567	33781.6
	Maret	39	1521	1001956	25698.3	1108506	28419.5	1317241	33781.5
	April	40	1600	1028231	25698.3	1137093	28419.5	1351556	33781.5
	Mei	41	1681	1053554	25698.3	1165405	28419.5	1385456	33781.5
	Juni	42	1764	1079306	25698.3	1193505	28419.5	1418601	33781.5
	Juli	43	1849	1104821	25698.3	1222143	28419.5	1452418	33781.5
	Agustus	44	1936	1131071	25698.4	1250631	28419.5	1486143	33781.5
	September	45	2025	1156690	25698.4	1279070	28419.5	1520515	33781.5
	Oktober	46	2116	1182097	25698.4	1306860	28419.5	1553687	33781.4
2007	November	47	2209	1207573	25698.4	1335398	28419.5	1587540	33781.4
	Desember	48	2304	1233209	25698.4	1364316	28419.5	1621554	33781.4
	Januari	49	2401	1259577	25698.5	1392223	28419.5	1655026	33781.4
	Februari	50	2500	1285385	25698.5	1421429	28419.5	1689655	33781.4
	Maret	51	2601	1310319	25698.5	1449163	28419.5	1723004	33781.4
	April	52	2704	1336174	25698.5	1477776	28419.5	1756946	33781.4
	Mei	53	2809	1361619	25698.5	1506474	28419.5	1790082	33781.3
	Juni	54	2916	1387715	25698.6	1534091	28419.5	1824578	33781.3
	Juli	55	3025	1413070	25698.6	1563539	28419.6	1857844	33781.3

Lampiran 9. (Lanjutan)

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2007	Agustus	56	3136	1438777	25698.6	1591010	28419.6	1891522	33781.3
	September	57	3249	1464383	25698.6	1619930	28419.6	1925581	33781.3
	Oktober	58	3364	1490133	25698.6	1647957	28419.6	1960069	33781.3
	November	59	3481	1515706	25698.7	1676909	28419.6	1993018	33781.3
	Desember	60	3600	1542347	25698.7	1705789	28419.6	2026136	33781.2
2008	Januari	61	3721	1567477	25698.7	1733281	28419.6	2061059	33781.2
	Februari	62	3844	1593041	25698.7	1761660	28419.6	2095212	33781.2
	Maret	63	3969	1618776	25698.7	1790023	28419.6	2127736	33781.2
	April	64	4096	1644742	25698.8	1819007	28419.6	2162047	33781.2
	Mei	65	4225	1670862	25698.8	1846881	28419.6	2195935	33781.2
	Juni	66	4356	1696170	25698.8	1876166	28419.6	2229120	33781.2
	Juli	67	4489	1721656	25698.8	1904666	28419.6	2263513	33781.1
	Agustus	68	4624	1747226	25698.8	1932327	28419.6	2297194	33781.1
	September	69	4761	1772975	25698.9	1960718	28419.6	2330725	33781.1
	Oktober	70	4900	1799220	25698.9	1989784	28419.6	2364362	33781.1
	November	71	5041	1825076	25698.9	2017498	28419.6	2398303	33781.1
	Desember	72	5184	1850193	25698.9	2045762	28419.6	2432205	33781.1
2009	Januari	73	5329	1875890	25698.9	2074483	28419.6	2465964	33781.1
	Februari	74	5476	1901536	25699.0	2102662	28419.6	2500112	33781.0
	Maret	75	5625	1928483	25699.0	2132009	28419.6	2533489	33781.0
	April	76	5776	1952324	25699.0	2159396	28419.6	2567396	33781.0
	Mei	77	5929	1978543	25699.0	2187905	28419.7	2600400	33781.0
	Juni	78	6084	2005141	25699.0	2216511	28419.7	2634821	33781.0
	Juli	79	6241	2029709	25699.0	2244659	28419.7	2669328	33781.0
	Agustus	80	6400	2056719	25699.1	2274024	28419.7	2702382	33781.0
	September	81	6561	2082366	25699.1	2302374	28419.7	2735541	33780.9
	Oktober	82	6724	2106738	25699.1	2330328	28419.7	2770612	33780.9
November	83	6889	2132342	25699.1	2358332	28419.7	2803722	33780.9	

Lampiran 9. (Lanjutan)

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2009	Desember	84	7056	2159434	25699.1	2387640	28419.7	2837012	33780.9
2010	Januari	85	7225	2184875	25699.2	2416044	28419.7	2871609	33780.9
	Februari	86	7396	2210579	25699.2	2443588	28419.7	2904278	33780.9
	Maret	87	7569	2235352	25699.2	2472823	28419.7	2939301	33780.9
	April	88	7744	2261530	25699.2	2500404	28419.7	2972960	33780.8
	Mei	89	7921	2287709	25699.2	2529823	28419.7	3006373	33780.8
	Juni	90	8100	2313464	25699.3	2557992	28419.7	3039815	33780.8
	Juli	91	8281	2339118	25699.3	2586788	28419.7	3074603	33780.8
	Agustus	92	8464	2364688	25699.3	2614542	28419.7	3108187	33780.8
	September	93	8649	2390635	25699.3	2643264	28419.7	3141520	33780.8
	Oktober	94	8836	2416269	25699.3	2671745	28419.7	3175435	33780.8
	November	95	9025	2440937	25699.4	2700109	28419.7	3208639	33780.7
	Desember	96	9216	2466631	25699.4	2728698	28419.7	3243609	33780.7
2011	Januari	97	9409	2493255	25699.4	2756698	28419.7	3277027	33780.7
	Februari	98	9604	2518668	25699.4	2784842	28419.7	3310960	33780.7
	Maret	99	9801	2544300	25699.4	2813865	28419.8	3343777	33780.7
	April	100	10000	2570000	25699.5	2841521	28419.8	3378761	33780.7
	Mei	101	10201	2595461	25699.5	2870102	28419.8	3412485	33780.7
	Juni	102	10404	2621495	25699.5	2898530	28419.8	3445589	33780.6
	Juli	103	10609	2647003	25699.5	2926907	28419.8	3479027	33780.6
	Agustus	104	10816	2672649	25699.5	2955417	28419.8	3513041	33780.6
	September	105	11025	2698210	25699.6	2984118	28419.8	3546999	33780.6
	Oktober	106	11236	2723603	25699.6	3012674	28419.8	3580915	33780.6
	November	107	11449	2750006	25699.6	3040956	28419.8	3614673	33780.6
	Desember	108	11664	2775090	25699.6	3069312	28419.8	3648508	33780.6

Lampiran 9. (Lanjutan)

Tahun	Bulan	X	X ²	XY _{produsen}	Y' _{produsen}	XY _{pedagang}	Y' _{pedagang}	XY _{konsumen}	Y' _{konsumen}
2012	Januari	109	11881	2801250	25699.6	3097928	28419.8	3749283	33780.5
	Februari	110	12100	2826823	25699.7	3126050	28419.8	3783689	33780.5
	Maret	111	12321	2852419	25699.7	3154825	28419.8	3817277	33780.5
	April	112	12544	2878340	25699.7	3183243	28419.8	3850407	33780.5
	Mei	113	12769	2904511	25699.7	3211260	28419.8	3884776	33780.5
	Juni	114	12996	2929790	25699.7	3240138	28419.8	3918416	33780.4
	Juli	115	13225	2955798	25699.8	3268677	28419.8	3952203	33780.4
	Agustus	116	13456	2981235	25699.8	3296485	28419.8	3985982	33780.4
	September	117	13689	3007028	25699.8	3324856	28419.8	4019506	33780.4
	Oktober	118	13924	3032733	25699.8	3353304	28419.8	4054020	33780.4
	November	119	14161	3058055	25699.8	3381750	28419.8	3749283	33780.5
	Desember	120	14400	3083976	25699.9	3410179	28419.8	3783689	33780.5

Keterangan:

X : unit periode waktu

Y : data *time series* harga cengkeh

Y' : hasil nilai *trend* harga cengkeh

$$Y'_{\text{produsen}} = 25697.5 + 0.0196X$$

$$Y'_{\text{pedagang}} = 28419.3 + 0.00457X$$

$$Y'_{\text{konsumen}} = 33782.1 - 0.014307X$$

Lampiran 10. Hasil Indeks Musiman Harga Nominal Cengkeh Tingkat Produsen, Pedagang, dan Konsumen di Jawa Timur Tahun 2003-2012

Tabel Hasil Indeks Musiman Harga Nominal Cengkeh Tingkat Produsen

Bulan	\bar{Y} Bulanan tahun 2003-2012	b Kumulatif	\bar{Y} tanpa pengaruh <i>trend</i>	Indeks Musiman
Januari	42265	0.0000	42251.7180	105.8997
Februari	35075	12.9440	35049.1550	87.8472
Maret	36536	25.8880	36497.5580	91.4775
April	37228	38.8320	37176.0900	93.1781
Mei	37685	51.7760	37620.2140	94.2913
Juni	39749	64.7200	39671.3360	99.4322
Juli	40396	77.6640	40304.9210	101.0202
Agustus	40760	90.6080	40656.5670	101.9016
September	37886	103.5520	37769.8520	94.6663
Oktober	43946	116.4960	43816.0890	109.8206
November	43606	129.4400	43463.3450	108.9365
Desember	44498	142.3840	44497.5570	111.5287
Rata-rata			39897.8668	$\Sigma = 1200.0000$

Tabel Hasil Indeks Musiman Harga Nominal Cengkeh Tingkat Pedagang

Bulan	\bar{Y} Bulanan tahun 2003-2012	b Kumulatif	\bar{Y} tanpa pengaruh <i>trend</i>	Indeks Musiman
Januari	54070	0.0000	54070.2000	100.8616
Februari	47106	23.5830	47082.8170	87.8274
Maret	50195	47.1660	50148.1340	93.5454
April	51268	70.7490	51197.6510	95.5032
Mei	49970	94.3320	49875.2680	93.0364
Juni	48901	117.9150	48782.8850	90.9987
Juli	50012	141.4980	49870.6020	93.0277
Agustus	51702	165.0810	51536.7190	96.1356
September	53120	188.6640	52931.1360	98.7368
Oktober	64660	212.2470	64447.3530	120.2189
November	62348	235.8300	62112.5700	115.8636
Desember	61504	259.4130	61244.6870	114.2447
Rata-rata			53608.3352	$\Sigma = 1200.0000$

Lampiran 10. (Lanjutan)

Tabel Hasil Indeks Musiman Harga Nominal Cengkeh Tingkat Konsumen

Bulan	\bar{Y} Bulanan tahun 2003-2012	b Kumulatif	\bar{Y} tanpa pengaruh trend	Indeks Musiman
Januari	62224	0.0000	62224.4000	98.6246
Februari	58044	23.8610	58019.8390	91.9605
Maret	59405	47.7220	59357.4780	94.0806
April	60548	71.5830	60476.5170	95.8543
Mei	60160	95.4440	60064.7560	95.2016
Juni	57816	119.3050	57696.7950	91.4485
Juli	59681	143.1660	59537.5340	94.3660
Agustus	61645	167.0270	61477.7730	97.4413
September	63244	190.8880	63053.0120	99.9380
Oktober	72997	214.7490	72782.6510	115.3593
November	69927	238.6100	69688.4900	110.4551
Desember	72989	262.4710	72726.4290	115.2702
	Rata-rata		63092.1395	$\Sigma = 1200.0000$



Lampiran 11. Hasil Indeks Musiman Harga Rill Cengkeh Tingkat Produsen, Pedagang, dan Konsumen di Jawa Timur Tahun 2003-2012

Tabel Hasil Indeks Musiman Harga Rill Cengkeh Tingkat Produsen

Bulan	\bar{Y} Bulanan tahun 2003-2012	b Kumulatif	\bar{Y} tanpa pengaruh <i>trend</i>	Indeks Musiman
Januari	25701.80	0.0000	25701.8018	100.0118
Februari	25702.21	0.0005	25702.2086	100.0134
Maret	25698.17	0.0011	25698.1726	99.9977
April	25699.15	0.0016	25699.1511	100.0015
Mei	25697.39	0.0022	25697.3833	99.9947
Juni	25701.33	0.0027	25701.3264	100.0100
Juli	25698.12	0.0032	25698.1168	99.9975
Agustus	25700.62	0.0038	25700.6135	100.0072
September	25696.10	0.0043	25696.0975	99.9897
Oktober	25695.06	0.0049	25695.0515	99.9856
November	25698.16	0.0054	25698.1564	99.9977
Desember	25697.01	0.0059	25697.0077	99.9932
Rata-rata			25698.7573	$\Sigma = 1200.0000$

Tabel Hasil Indeks Musiman Harga Rill Cengkeh Tingkat Pedagang

Bulan	\bar{Y} Bulanan tahun 2003-2012	b Kumulatif	\bar{Y} tanpa pengaruh <i>trend</i>	Indeks Musiman
Januari	28417.91	0.0000	28417.9100	99.9939
Februari	28418.88	0.0001	28418.8781	99.9973
Maret	28420.73	0.0003	28420.7334	100.0038
April	28418.85	0.0004	28418.8496	99.9972
Mei	28419.26	0.0005	28419.2577	99.9987
Juni	28420.41	0.0007	28420.4112	100.0027
Juli	28422.46	0.0008	28422.4565	100.0099
Agustus	28418.18	0.0009	28418.1800	99.9949
September	28419.82	0.0010	28419.8162	100.0006
Oktober	28418.59	0.0012	28418.5870	99.9963
November	28416.96	0.0013	28416.9542	99.9905
Desember	28423.65	0.0014	28423.648602	100.0141
Rata-rata			28419.64	$\Sigma = 1200.0000$

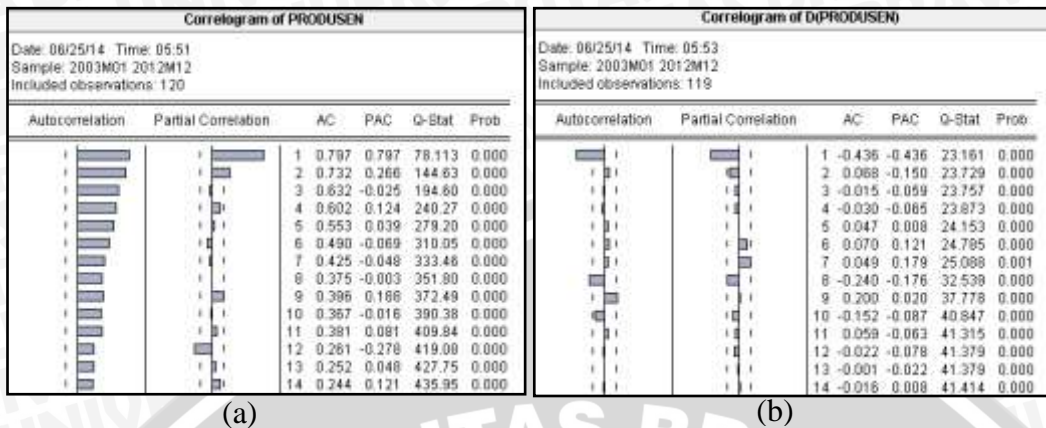
Lampiran 11. (Lanjutan)

Tabel Hasil Indeks Musiman Harga Rill Cengkeh Tingkat Konsumen

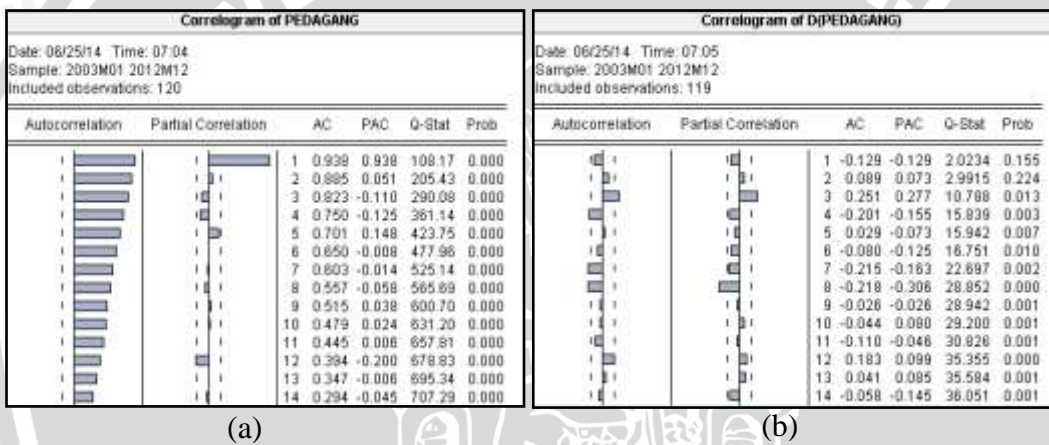
Bulan	\bar{Y} Bulanan tahun 2003-2012	b Kumulatif	\bar{Y} tanpa pengaruh trend	Indeks Musiman
Januari	33780.11	0.0000	33780.1145	99.9972
Februari	33781.72	0.0012	33781.7224	100.0019
Maret	33780.40	0.0024	33780.3949	99.9980
April	33784.36	0.0036	33784.3519	100.0097
Mei	33780.62	0.0048	33780.6161	99.9987
Juni	33780.21	0.0060	33780.2041	99.9974
Juli	33782.98	0.0071	33782.9692	100.0056
Agustus	33778.70	0.0083	33778.6926	99.9930
September	33781.84	0.0095	33781.8268	100.0022
Oktober	33780.80	0.0107	33780.7847	99.9992
November	33779.95	0.0119	33779.9354	99.9966
Desember	33781.22	0.0131	33781.2105	100.0004
Rata-rata			33781.0686	$\Sigma = 1200.0000$



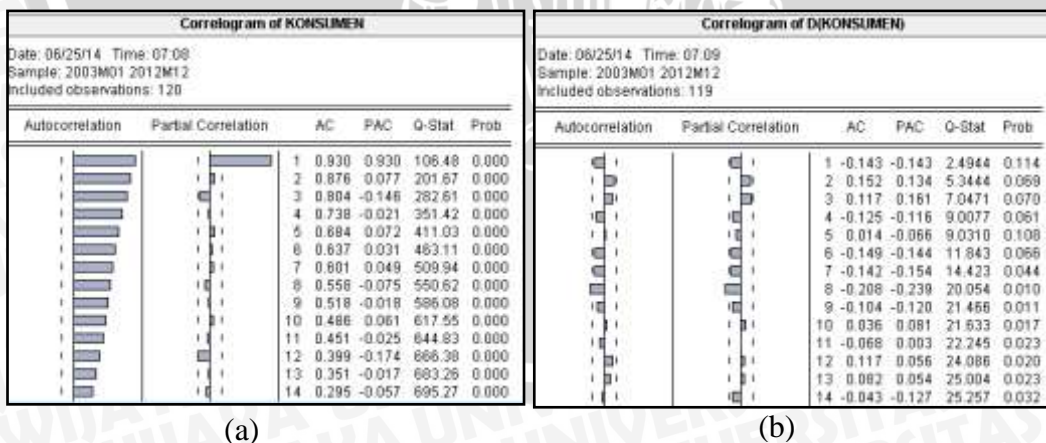
Lampiran 12. Correlogram Kestasioneran Data Penelitian



Gambar Correlogram Autokorelasi Tingkat Produsen: (a) data asli belum stasioner dan (b) data stasioner dengan perbedaan pertama



Gambar Correlogram Autokorelasi Tingkat Pedagang: (a) data asli belum stasioner dan (b) data stasioner dengan perbedaan pertama



Gambar Correlogram Autokorelasi Tingkat Konsumen: (a) data asli belum stasioner dan (b) data stasioner dengan perbedaan pertama

Lampiran 13. Output Peramalan Harga Nominal Cengkeh Tingkat Produsen dengan Model ARIMA (0,1,1)

```
MTB > Name c15 "RESI2" c16 "FITS2"
MTB > ARIMA 0 1 1 'Nominal Produsen' 'RESI2' 'FITS2';
SUBC> NoConstant;
SUBC> Forecast 60 c12 c13 c14;
SUBC> GSeries;
SUBC> Brief 2.
```

ARIMA Model: Nominal Produsen

Estimates at each iteration

Iteration	SSE	Parameters
0	14499762806	0.100
1	13270911182	0.250
2	12624501858	0.400
3	12545694262	0.481
4	12543215483	0.468
5	12543163597	0.470
6	12543162516	0.469

Relative change in each estimate less than 0.0010

Final Estimates of Parameters

Type	Coef	SE Coef	T	P
MA 1	0.4695	0.0845	5.56	0.000

Differencing: 1 regular difference

Number of observations: Original series 120, after differencing 119

Residuals: SS = 12543125970 (backforecasts excluded)
MS = 106297678 DF = 118

Modified Box-Pierce (Ljung-Box) Chi-Square statistic

Lag	12	24	36	48
Chi-Square	12.7	16.0	21.4	26.3
DF	11	23	35	47
P-Value	0.312	0.854	0.966	0.994

Forecasts from period 120

Period	Forecast	95% Limits		Actual
		Lower	Upper	
121	113375	93187	133564	
122	116164	93413	138916	
123	118470	92535	144405	
124	116220	88124	144317	
125	114226	84687	143765	
126	116036	84708	147364	
127	117757	84251	151263	
128	116304	81090	151518	
129	114823	78326	151320	
130	115986	78029	153944	
131	117258	77600	156915	
132	116330	75220	157439	
133	115240	72951	157530	

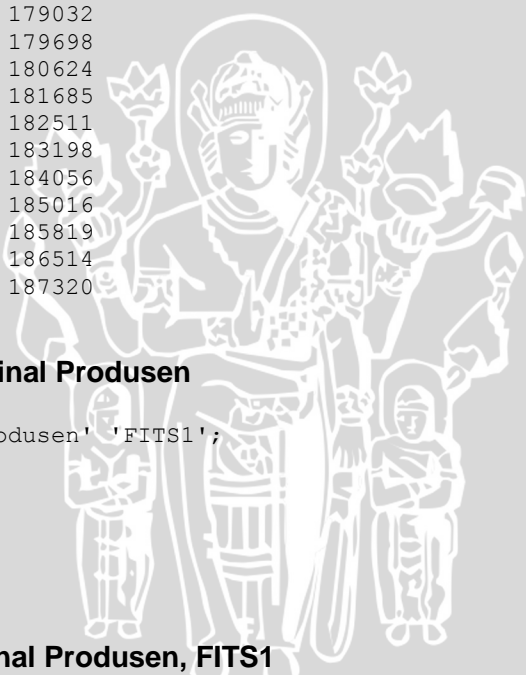
Lampiran 13. (Lanjutan)

134	115978	72418	159538
135	116910	71929	161890
136	116325	70065	162585
137	115530	68170	162890
138	115991	67488	164495
139	116669	66928	166410
140	116306	65411	167201
141	115730	63802	167658
142	116013	63035	168992
143	116503	62416	170590
144	116283	61137	171428
145	115867	59748	171987
146	116038	58940	173135
147	116389	58277	174501
148	116259	57165	175352
149	115961	55945	175978
150	116061	55125	176996
151	116311	54435	178188
152	116237	53442	179032
153	116026	52353	179698
154	116081	51537	180624
155	116259	50833	181685
156	116218	49926	182511
157	116069	48939	183198
158	116098	48139	184056
159	116223	47430	185016
160	116203	46588	185819
161	116098	45682	186514
162	116111	44902	187320

Time Series Plot for Nominal Produsen

```
MTB > TSPlot 'Nominal Produsen' 'FITS1';
SUBC> Overlay;
SUBC> Month;
SUBC> Year;
SUBC> Start 1 2003;
SUBC> Symbol;
SUBC> Connect.
```

Time Series Plot of Nominal Produsen, FITS1



Lampiran 14. Output Peramalan Harga Nominal Cengkeh Tingkat Pedagang dengan Model ARIMA (3,1,4)

```
MTB > Name c11 "RESI2" c12 "FITS2"
MTB > ARIMA 3 1 4 'Nominal Pedagang' 'RESI2' 'FITS2';
SUBC> NoConstant;
SUBC> Forecast 60 c8 c9 c10;
SUBC> GSeries;
SUBC> Brief 2.
```

ARIMA Model: Nominal Pedagang

Estimates at each iteration

Iteration	SSE	Parameters					
0	12308677294	0.100	0.100	0.100	0.100	0.100	0.100
1	11938000731	0.179	0.229	0.250	0.198	0.212	0.213
2	11640141730	0.312	0.209	0.149	0.348	0.162	-0.076
3	11241542498	0.284	0.359	0.103	0.370	0.240	-0.071
4	11202778154	0.134	0.407	0.077	0.239	0.298	-0.133
5	11186969317	0.153	0.449	0.097	0.254	0.338	-0.125
6	11169181815	0.142	0.481	0.058	0.243	0.371	-0.166
7	11106395726	0.185	0.553	-0.015	0.283	0.439	-0.246
8	10955350662	0.230	0.564	-0.160	0.324	0.454	-0.396
9	10879396561	0.380	0.659	-0.282	0.466	0.553	-0.536
10	10626598167	0.494	0.589	-0.410	0.580	0.492	-0.686
11	10304492662	0.639	0.562	-0.536	0.730	0.466	-0.836
12	9882352368	0.760	0.529	-0.653	0.869	0.427	-0.986
13	9340400486	0.846	0.480	-0.748	0.994	0.357	-1.136
14	9170987937	0.851	0.482	-0.754	0.989	0.335	-1.148
15	9074668802	0.849	0.480	-0.761	0.988	0.317	-1.165
16	8996311788	0.853	0.477	-0.773	1.024	0.281	-1.201
17	8944870904	0.895	0.492	-0.770	1.121	0.269	-1.236
18	8865281427	0.890	0.482	-0.777	1.118	0.255	-1.248
19	8864777589	0.898	0.474	-0.787	1.114	0.254	-1.251
20	8863480589	0.900	0.479	-0.787	1.121	0.259	-1.256

Lampiran 14. (Lanjutan)

21	8856649001	0.906 0.527	0.471	-0.789	1.122	0.254	-1.255
22	8851004221	0.906 0.528	0.472	-0.789	1.123	0.257	-1.256
23	8847933621	0.908 0.532	0.476	-0.790	1.128	0.260	-1.259
24	8847030992	0.909 0.526	0.474	-0.794	1.127	0.257	-1.258
25	8846217488	0.910 0.531	0.479	-0.794	1.130	0.263	-1.261

** Convergence criterion not met after 25 iterations **

* WARNING * Back forecasts not dying out rapidly

Back forecasts (after differencing)

Lag	-95 - -90	165.391	186.443	165.307	105.061	17.956	-77.028
Lag	-89 - -84	-158.275	-206.420	-208.919	-163.242	-77.881	29.132
Lag	-83 - -78	133.993	212.374	245.029	222.449	147.496	35.242
Lag	-77 - -72	-89.957	-199.730	-268.034	-277.324	-222.908	-114.658
Lag	-71 - -66	24.739	164.367	272.006	321.361	298.590	205.798
Lag	-65 - -60	61.517	-103.212	-251.071	-347.314	-367.309	-303.389
Lag	-59 - -54	-166.472	14.606	200.268	347.339	420.737	399.667
Lag	-53 - -48	285.776	100.421	-115.421	-314.618	-448.671	-485.925
Lag	-47 - -42	-411.072	-239.699	-3.554	241.056	443.402	548.334
Lag	-41 - -36	535.379	392.881	159.833	-127.801	-388.940	-582.569
Lag	-35 - -30	-636.309	-561.648	-334.220	-43.700	298.215	550.970
Lag	-29 - -24	729.347	695.875	561.676	217.571	-101.703	-519.701
Lag	-23 - -18	-704.297	-892.538	-691.013	-552.616	-0.896	236.689
Lag	-17 - -12	838.115	778.120	1132.005	518.892	630.266	-451.318
Lag	-11 - -6	-203.621	-1434.413	-530.150	-1707.644	169.457	-1187.323
Lag	-5 - 0	1629.685	-591.406	3007.532	-916.975	3639.729	-873.703

Back forecast residuals

Lag	-95 - -90	11.012	20.242	28.419	20.215	1.832	-30.183
Lag	-89 - -84	-57.455	-75.755	-68.174	-40.499	8.168	56.677
Lag	-83 - -78	96.319	106.688	89.567	42.107	-15.912	-74.216
Lag	-77 - -72	-109.720	-118.824	-93.306	-46.991	13.159	65.298
Lag	-71 - -66	102.680	111.547	97.361	59.399	13.026	-37.062
Lag	-65 - -60	-75.321	-100.524	-103.082	-88.306	-53.176	-8.889
Lag	-59 - -54	42.376	85.554	116.741	122.330	104.025	57.480
Lag	-53 - -48	-3.582	-72.196	-126.233	-157.535	-149.604	-108.371
Lag	-47 - -42	-34.049	48.905	129.264	177.197	190.105	151.138
Lag	-41 - -36	81.529	-18.601	-108.018	-186.001	-209.307	-199.848
Lag	-35 - -30	-125.231	-41.402	80.249	155.931	235.354	219.191
Lag	-29 - -24	206.253	81.959	12.071	-156.335	-183.684	-306.064
Lag	-23 - -18	-200.799	-242.528	7.310	-20.391	302.556	152.269
Lag	-17 - -12	466.014	75.909	387.744	-267.144	185.605	-684.142
Lag	-11 - -6	135.531	-935.837	453.689	-968.049	1116.284	-1007.117
Lag	-5 - 0	1891.228	-1420.921	2578.219	-2457.257	3262.936	-2325.098



Lampiran 14. (Lanjutan)

Final Estimates of Parameters

Type		Coef	SE Coef	T	P
AR	1	0.9098	0.0917	9.93	0.000
AR	2	0.4788	0.1169	4.10	0.000
AR	3	-0.7936	0.0794	-9.99	0.000
MA	1	1.1302	0.0895	12.62	0.000
MA	2	0.2633	0.0840	3.13	0.002
MA	3	-1.2614	0.0433	-29.10	0.000
MA	4	0.5310	0.0950	5.59	0.000

Differencing: 1 regular difference

Number of observations: Original series 120, after differencing 119

Residuals: SS = 8805518535 (backforecasts excluded)

MS = 78620701 DF = 112

Modified Box-Pierce (Ljung-Box) Chi-Square statistic

Lag	12	24	36	48
Chi-Square	13.7	32.9	38.1	42.0
DF	5	17	29	41
P-Value	0.018	0.012	0.121	0.429

Forecasts from period 120

Period	Forecast	95% Limits		Actual
		Lower	Upper	
121	152777	133726	171829	
122	155636	129799	181472	
123	151674	120047	183302	
124	149853	109034	190672	
125	147685	99047	196324	
126	148158	91585	204731	
127	147891	85202	210580	
128	148658	80118	217199	
129	148426	74989	221863	
130	148773	70479	227066	
131	148476	65828	231123	
132	148665	61680	235649	
133	148463	57483	239442	
134	148613	53688	243539	
135	148488	49869	247107	
136	148598	46345	250851	
137	148512	42811	254212	
138	148586	39498	257674	
139	148524	36191	260858	
140	148575	33055	264095	
141	148532	29937	267127	
142	148567	26954	270181	
143	148538	23996	273080	
144	148563	21145	275980	
145	148542	18325	278760	
146	148559	15591	281527	
147	148545	12890	284200	
148	148557	10261	286853	
149	148547	7665	289430	
150	148555	5129	291982	

Lampiran 14. (Lanjutan)

151	148548	2626	294471
152	148554	174	296934
153	148549	-2245	299344
155	148550	-6964	304064
156	148553	-9268	306374
157	148550	-11544	308645
158	148552	-13784	310888
159	148551	-15996	313098
160	148552	-18177	315281
161	148551	-20331	317433
162	148552	-22457	319561

Time Series Plot for Nominal Pedagang

```
MTB > TSPlot 'Nominal Pedagang' 'FITS1';
SUBC> Overlay;
SUBC> Month;
SUBC> Year;
SUBC> Start 1 2003;
SUBC> Symbol;
SUBC> Connect.
```

Time Series Plot of Nominal Pedagang, FITS1



Lampiran 15. Output Peramalan Harga Nominal Cengkeh Tingkat Konsumen dengan Model ARIMA (2,1,2)

```
MTB > Name c6 "RESI1" c7 "FITS1"
MTB > ARIMA 2 1 2 'Nominal Konsumen' 'RESI1' 'FITS1';
SUBC> NoConstant;
SUBC> Forecast 60 c3 c4 c5;
SUBC> GSeries;
SUBC> Brief 2.
```

ARIMA Model: Nominal Konsumen

Estimates at each iteration

Iteration	SSE		Parameters			
0	13847559664	0.100	0.100	0.100	0.100	
1	13273946640	0.051	0.174	0.149	0.027	
2	13151564901	0.053	0.031	0.153	-0.123	
3	13042647586	0.115	-0.101	0.221	-0.273	
4	12986724873	0.226	-0.208	0.349	-0.423	
5	12963322149	0.216	-0.058	0.349	-0.293	
6	12958489008	0.313	-0.132	0.449	-0.384	
7	12947243933	0.323	-0.092	0.459	-0.342	
8	12944659282	0.364	-0.043	0.500	-0.303	
9	12941536916	0.369	-0.065	0.506	-0.327	
10	12938912008	0.402	-0.082	0.537	-0.344	
11	12936954257	0.441	-0.075	0.576	-0.339	
12	12935782170	0.444	-0.088	0.580	-0.353	
13	12933888464	0.470	-0.098	0.605	-0.363	
14	12931006740	0.505	-0.117	0.639	-0.382	
15	12926998453	0.549	-0.127	0.682	-0.393	
16	12923089477	0.602	-0.197	0.733	-0.461	
17	12914004492	0.634	-0.168	0.768	-0.432	
18	12910192469	0.691	-0.278	0.821	-0.543	
19	12885515424	0.756	-0.224	0.892	-0.489	
20	12826957348	0.803	-0.374	0.936	-0.639	
21	12667828771	0.953	-0.371	1.080	-0.642	
22	12288676203	1.044	-0.521	1.171	-0.789	
23	11960367135	1.176	-0.665	1.303	-0.939	
24	11917270400	1.154	-0.623	1.301	-0.933	
25	11903898268	1.152	-0.613	1.300	-0.928	

** Convergence criterion not met after 25 iterations **

Final Estimates of Parameters

Type	Coef	SE Coef	T	P
AR 1	1.1518	0.1243	9.27	0.000
AR 2	-0.6128	0.0993	-6.17	0.000
MA 1	1.3001	0.0726	17.91	0.000
MA 2	-0.9281	0.0399	-23.28	0.000

Differencing: 1 regular difference

Number of observations: Original series 120, after differencing 119

Residuals: SS = 11859833032 (backforecasts excluded)

MS = 103128983 DF = 115

Modified Box-Pierce (Ljung-Box) Chi-Square statistic

Lag	12	24	36	48

Lampiran 15. (Lanjutan)

Chi-Square	14.0	23.3	28.0	32.3
DF	8	20	32	44
P-Value	0.083	0.275	0.667	0.904

Forecasts from period 120

Period	Forecast	95% Limits		Actual
		Lower	Upper	
121	169761	149853	189669	
122	171587	145437	197738	
123	167770	134950	200591	
124	162255	121024	203485	
125	158240	107780	208701	
126	156997	97922	216072	
127	158025	91743	224306	
128	159971	87901	232040	
129	161582	84734	238430	
130	162246	81155	243337	
131	162023	76874	247171	
132	161359	72166	250552	
133	160731	67491	253971	
134	160415	63197	257633	
135	160435	59387	261483	
136	160652	55963	265342	
137	160890	52738	269042	
138	161031	49561	272501	
139	160818	46364	275731	
140	160980	43159	278801	
141	160892	39996	281789	
142	160833	36924	284742	
143	161047	33963	287672	
144	160837	31106	290567	
145	160868	28330	293406	
146	160893	25610	296175	
147	160901	22931	298872	
148	160897	20290	301504	
149	160886	17689	304083	
150	160876	15133	306619	
151	160872	12626	309118	
152	160873	10165	311580	
153	160876	7748	314005	
154	160880	5368	316392	
155	160882	3024	318740	
156	160882	712	321053	
157	160878	-1569	323331	
158	160879	-3819	325578	
159	160879	-6038	327795	
160	160881	-8227	329984	
161	160879	-10387	332145	
162	160879	-12521	334279	

Time Series Plot for Nominal Konsumen

```

MTB > TSPlot 'Nominal Konsumen' 'FITS1';
SUBC > Overlay;
SUBC > Month;
SUBC > Year;
SUBC > Start 1 2003;
SUBC > Symbol;
SUBC > Connect.

```

Time Series Plot of Nominal Konsumen, FITS1

Lampiran 16. Output Analisis AIC dan SBC Pada Peramalan Harga Cengkeh Jawa Timur Tahun 2003-2012

Dependent Variable: D(PRODUSEN)
 Method: Least Squares
 Date: 04/19/14 Time: 18:01
 Sample (adjusted): 2003M02 2012M12
 Included observations: 119 after adjustments
 Convergence achieved after 7 iterations
 MA Backcast: 2003M01

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	787.8113	478.5933	1.646097	0.1024
MA(1)	-0.495426	0.083473	-5.935192	0.0000
R-squared	0.213025	Mean dependent var		848.7395
Adjusted R-squared	0.206299	S.D. dependent var		11495.18
S.E. of regression	10241.05	Akaike info criterion		21.32286
Sum squared resid	1.23E+10	Schwarz criterion		21.36957
Log likelihood	-1266.710	Hannan-Quinn criter.		21.34183
F-statistic	31.67059	Durbin-Watson stat		2.038704
Prob(F-statistic)	0.000000			
Inverted MA Roots	.50			

Dependent Variable: D(PEDAGANG)
 Method: Least Squares
 Date: 04/19/14 Time: 18:20
 Sample (adjusted): 2003M05 2012M12
 Included observations: 116 after adjustments
 Convergence achieved after 9 iterations
 MA Backcast: 2003M01 2003M04

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1039.254	842.4642	1.233589	0.2199
AR(3)	0.181537	0.093294	1.945867	0.0542
MA(4)	-0.271008	0.093095	-2.911078	0.0043
R-squared	0.100107	Mean dependent var		1031.466
Adjusted R-squared	0.084180	S.D. dependent var		10492.25
S.E. of regression	10040.93	Akaike info criterion		21.29225
Sum squared resid	1.14E+10	Schwarz criterion		21.36346
Log likelihood	-1231.950	Hannan-Quinn criter.		21.32116
F-statistic	6.285253	Durbin-Watson stat		2.217713
Prob(F-statistic)	0.002581			
Inverted AR Roots	.57	-.28-.49i	-.28+.49i	
Inverted MA Roots	.72	.00-.72i	-.00+.72i	-.72

Lampiran 16. (Lanjutan)

Dependent Variable: D(KONSUMEN)
 Method: Least Squares
 Date: 04/19/14 Time: 18:23
 Sample (adjusted): 2003M04 2012M12
 Included observations: 117 after adjustments
 Convergence achieved after 15 iterations
 MA Backcast: 2003M02 2003M03

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1013.020	1061.092	0.954696	0.3418
AR(2)	-0.774656	0.056455	-13.72172	0.0000
MA(2)	0.975562	0.013781	70.79159	0.0000
R-squared	0.101197	Mean dependent var		1061.376
Adjusted R-squared	0.085429	S.D. dependent var		10869.52
S.E. of regression	10394.87	Akaike info criterion		21.36132
Sum squared resid	1.23E+10	Schwarz criterion		21.43214
Log likelihood	-1246.637	Hannan-Quinn criter.		21.39007
F-statistic	6.417712	Durbin-Watson stat		2.227995
Prob(F-statistic)	0.002285			



Lampiran 17. Perhitungan Kesalahan Peramalan Harga Cengkeh Tingkat Produsen dengan Model ARIMA (0,1,1)

t	Y _t	\hat{Y}_t	E _t	E _t	E _t ²	E _t / Y _t	E _t / Y _t
Jan-03	25700						
Feb-03	26500	24943.95	1556.05	1556.05	2421296.36	5.87	5.87
Mar-03	26500	26372.50	127.50	127.50	16255.99	0.48	0.48
Apr-03	22750	26578.07	-3828.07	3828.07	14654118.73	16.83	-16.83
May-03	21550	23957.50	-2407.50	2407.50	5796034.23	11.17	-11.17
Jun-03	18150	22187.50	-4037.50	4037.50	16301377.93	22.25	-22.25
Jul-03	14400	20689.11	-6289.11	6289.11	39552885.70	43.67	-43.67
Aug-03	14500	17684.77	-3184.77	3184.77	10142755.73	21.96	-21.96
Sep-03	12917	15269.78	-2353.11	2353.11	5537114.51	18.22	-18.22
Oct-03	13250	14025.92	-775.92	775.92	602054.95	5.86	-5.86
Nov-03	12500	14296.52	-1796.52	1796.52	3227485.90	14.37	-14.37
Dec-03	13000	13526.32	-526.32	526.32	277016.79	4.05	-4.05
Jan-04	13350	12587.86	762.14	762.14	580861.59	5.71	5.71
Feb-04	19750	12927.19	6822.81	6822.81	46550708.61	34.55	34.55
Mar-04	21300	17143.29	4156.71	4156.71	17278259.70	19.52	19.52
Apr-04	21333	19970.14	1363.19	1363.19	1858294.87	6.39	6.39
May-04	20267	19967.13	299.54	299.54	89724.43	1.48	1.48
Jun-04	26000	19324.75	6675.25	6675.25	44558937.75	25.67	25.67
Jul-04	25333	23273.93	2059.40	2059.40	4241129.48	8.13	8.13
Aug-04	25600	25647.36	-47.36	47.36	2242.90	0.19	-0.18
Sep-04	26357	24899.51	1457.63	1457.63	2124691.59	5.53	5.53
Oct-04	26614	24368.37	2245.92	2245.92	5044141.89	8.44	8.44
Nov-04	29214	26241.78	2972.51	2972.51	8835819.76	10.17	10.17
Dec-04	29929	28977.49	951.08	951.08	904557.27	3.18	3.18
Jan-05	30214	29020.26	1194.03	1194.03	1425713.50	3.95	3.95
Feb-05	29571	28474.09	1097.34	1097.34	1204156.71	3.71	3.71
Mar-05	31429	29418.09	2010.48	2010.48	4042012.42	6.40	6.40
Apr-05	29500	31452.63	-1952.63	1952.63	3812759.30	6.62	-6.62
May-05	31000	30260.78	739.22	739.22	546446.26	2.38	2.38
Jun-05	31000	29454.71	1545.29	1545.29	2387922.69	4.98	4.98
Jul-05	30214	30603.86	-389.57	389.57	151765.44	1.29	-1.29
Aug-05	31833	31491.79	341.54	341.54	116652.28	1.07	1.07
Sep-05	30417	31247.26	-830.59	830.59	689880.37	2.73	-2.73
Oct-05	29600	29959.58	-359.58	359.58	129295.07	1.21	-1.21
Nov-05	27900	29987.06	-2087.06	2087.06	4355808.04	7.48	-7.48
Dec-05	28600	29658.41	-1058.41	1058.41	1120229.29	3.70	-3.70

Lampiran 17. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-06	29833	28782.07	1051.26	1051.26	1105155.92	3.52	3.52
Feb-06	31750	28761.58	2988.42	2988.42	8930667.01	9.41	9.41
Mar-06	32833	30759.67	2073.66	2073.66	4300081.42	6.32	6.32
Apr-06	33083	32524.80	558.53	558.53	311959.17	1.69	1.69
May-06	35667	32414.51	3252.16	3252.16	10576570.45	9.12	9.12
Jun-06	37750	33397.21	4352.79	4352.79	18946777.92	11.53	11.53
Jul-06	37667	36238.31	1428.36	1428.36	2040216.34	3.79	3.79
Aug-06	36143	37736.31	-1593.45	1593.45	2539079.35	4.41	-4.41
Sep-06	36500	36220.49	279.51	279.51	78126.92	0.77	0.77
Oct-06	37750	35438.18	2311.82	2311.82	5344498.15	6.12	6.12
Nov-06	38000	37344.65	655.35	655.35	429483.87	1.72	1.72
Dec-06	39437	38681.77	755.23	755.23	570375.68	1.92	1.92
Jan-07	32312	38386.79	-6074.79	6074.79	36903038.49	18.80	-18.80
Feb-07	33420	34395.39	-975.39	975.39	951379.97	2.92	-2.92
Mar-07	35430	33780.61	1649.39	1649.39	2720480.97	4.66	4.66
Apr-07	37233	35749.19	1483.81	1483.81	2201693.92	3.99	3.99
May-07	34246	36888.81	-2642.81	2642.81	6984452.19	7.72	-7.72
Jun-07	34256	34605.74	-349.74	349.74	122315.76	1.02	-1.02
Jul-07	34556	33705.22	850.78	850.78	723819.67	2.46	2.46
Aug-07	30240	35071.90	-4831.90	4831.90	23347231.01	15.98	-15.98
Sep-07	25768	33302.26	-7534.26	7534.26	56765081.48	29.24	-29.24
Oct-07	32192	28099.65	4092.35	4092.35	16747336.40	12.71	12.71
Nov-07	31650	29244.15	2405.85	2405.85	5788097.52	7.60	7.60
Dec-07	30230	32570.47	-2340.47	2340.47	5477801.87	7.74	-7.74
Jan-08	33765	32127.10	1637.90	1637.90	2682732.19	4.85	4.85
Feb-08	27056	30842.19	-3786.19	3786.19	14335255.24	13.99	-13.99
Mar-08	41009	28518.84	12490.16	12490.16	156004087.83	30.46	30.46
Apr-08	42789	36271.14	6517.86	6517.86	42482457.01	15.23	15.23
May-08	44265	41528.60	2736.40	2736.40	7487858.00	6.18	6.18
Jun-08	45334	41535.17	3798.83	3798.83	14431145.70	8.38	8.38
Jul-08	42399	41618.61	780.39	780.39	609005.73	1.84	1.84
Aug-08	47689	43279.69	4409.31	4409.31	19442027.43	9.25	9.25
Sep-08	45789	46941.18	-1152.18	1152.18	1327507.67	2.52	-2.52
Oct-08	50738	45702.63	5035.37	5035.37	25354910.33	9.92	9.92
Nov-08	51462	46671.47	4790.53	4790.53	22949140.47	9.31	9.31
Dec-08	42760	50227.04	-7467.04	7467.04	55756749.45	17.46	-17.46

Lampiran 17. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-09	31222	47793.62	-16571.62	16571.62	274618632.45	53.08	-53.08
Feb-09	33097	37210.51	-4113.51	4113.51	16920931.14	12.43	-12.43
Mar-09	25096	32826.52	-7730.52	7730.52	59760890.32	30.80	-30.80
Apr-09	28283	31383.27	-3100.27	3100.27	9611698.38	10.96	-10.96
May-09	16111	31325.12	-15214.12	15214.12	231469412.64	94.43	-94.43
Jun-09	20000	21678.26	-1678.26	1678.26	2816558.93	8.39	-8.39
Jul-09	18550	18240.92	309.08	309.08	95528.69	1.67	1.67
Aug-09	19436	20894.07	-1458.07	1458.07	2125982.06	7.50	-7.50
Sep-09	18150	22526.81	-4376.81	4376.81	19156472.70	24.11	-24.11
Oct-09	20682	18085.05	2596.95	2596.95	6744160.30	12.56	12.56
Nov-09	26179	17070.78	9108.22	9108.22	82959754.69	34.79	34.79
Dec-09	27250	24155.84	3094.16	3094.16	9573809.34	11.35	11.35
Jan-10	48350	28474.11	19875.89	19875.89	395051123.37	41.11	41.11
Feb-10	48350	36459.15	11890.85	11890.85	141392271.34	24.59	24.59
Mar-10	48150	41971.47	6178.53	6178.53	38174204.99	12.83	12.83
Apr-10	48700	46585.43	2114.57	2114.57	4471402.89	4.34	4.34
May-10	49250	47878.65	1371.35	1371.35	1880597.36	2.78	2.78
Jun-10	48300	47110.46	1189.54	1189.54	1414997.80	2.46	2.46
Jul-10	49250	47472.84	1777.16	1777.16	3158286.06	3.61	3.61
Aug-10	49350	49621.43	-271.43	271.43	73673.30	0.55	-0.55
Sep-10	47350	49805.03	-2455.03	2455.03	6027186.04	5.18	-5.18
Oct-10	47400	47342.18	57.82	57.82	3342.93	0.12	0.12
Nov-10	47200	46847.87	352.13	352.13	123998.29	0.75	0.75
Dec-10	47200	48216.53	-1016.53	1016.53	1033338.26	2.15	-2.15
Jan-11	48400	48192.95	207.05	207.05	42871.36	0.43	0.43
Feb-11	48600	47200.29	1399.71	1399.71	1959180.43	2.88	2.88
Mar-11	48830	47577.62	1252.38	1252.38	1568458.18	2.56	2.56
Apr-11	51400	49252.30	2147.70	2147.70	4612600.28	4.18	4.18
May-11	61700	50696.23	11003.77	11003.77	121083051.71	17.83	17.83
Jun-11	55000	55673.89	-673.89	673.89	454123.38	1.23	-1.23
Jul-11	57386	55913.24	1472.76	1472.76	2169020.96	2.57	2.57
Aug-11	58310	56317.75	1992.25	1992.25	3969053.64	3.42	3.42
Sep-11	57716	57050.06	665.94	665.94	443478.98	1.15	1.15
Oct-11	58429	57755.75	673.25	673.25	453267.93	1.15	1.15
Nov-11	59652	58265.71	1386.29	1386.29	1921794.46	2.32	2.32
Dec-11	59870	58700.54	1169.46	1169.46	1367627.86	1.95	1.95

Lampiran 17. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-12	129500	59243.18	70256.82	70256.82	4936021408.98	54.25	54.25
Feb-12	52656	95981.85	-43325.85	43325.85	1877129692.17	82.28	-82.28
Mar-12	54787	80253.78	-25466.78	25466.78	648556726.68	46.48	-46.48
Apr-12	57207	56894.91	312.09	312.09	97399.11	0.55	0.55
May-12	62794	52268.91	10525.09	10525.09	110777508.76	16.76	16.76
Jun-12	81700	68206.43	13493.57	13493.57	182076401.44	16.52	16.52
Jul-12	94200	80542.28	13657.72	13657.72	186533435.18	14.50	14.50
Aug-12	94500	79507.28	14992.72	14992.72	224781553.13	15.87	15.87
Sep-12	77900	82782.12	-4882.12	4882.12	23835123.14	6.27	-6.27
Oct-12	122800	87175.70	35624.30	35624.30	1269090566.75	29.01	29.01
Nov-12	112300	107931.15	4368.85	4368.85	19086862.42	3.89	3.89
Dec-12	126700	108370.89	18329.11	18329.11	335956159.72	14.47	14.47
Rata-rata			1450.45	4862.33	2103808.89	11.67	0.09
			MAD		MSE	MAPE	MPE



Lampiran 18. Perhitungan Kesalahan Peramalan Harga Cengkeh Tingkat Pedagang dengan Model ARIMA (3,1,4)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-03	28420						
Feb-03	28750	27500.68	1249.32	1249.32	1560798.15	4.35	4.35
Mar-03	28140	29414.96	-1274.96	1274.96	1625522.03	4.53	-4.53
Apr-03	22725	26138.54	-3413.54	3413.54	11652279.30	15.02	-15.02
May-03	22510	24001.92	-1491.92	1491.92	2225820.76	6.63	-6.63
Jun-03	20176	21049.69	-873.69	873.69	763334.21	4.33	-4.33
Jul-03	19526	19748.49	-222.49	222.49	49500.31	1.14	-1.14
Aug-03	18639	18009.01	629.99	629.99	396891.59	3.38	3.38
Sep-03	15763	18471.40	-2708.40	2708.4	7335410.18	17.18	-17.18
Oct-03	15380	15505.64	-125.64	125.64	15786.65	0.82	-0.82
Nov-03	15628	15911.47	-283.47	283.47	80357.72	1.81	-1.81
Dec-03	18536	14440.21	4095.79	4095.79	16775491.44	22.10	22.10
Jan-04	20170	18397.27	1772.73	1772.73	3142554.47	8.79	8.79
Feb-04	20777	19502.32	1274.68	1274.68	1624813.19	6.14	6.14
Mar-04	25800	22776.53	3023.47	3023.47	9141384.16	11.72	11.72
Apr-04	26000	26137.29	-137.29	137.29	18848.88	0.53	-0.53
May-04	26332	27564.90	-1232.90	1232.9	1520031.67	4.68	-4.68
Jun-04	28771	27272.57	1498.43	1498.43	2245295.21	5.21	5.21
Jul-04	28660	28985.80	-325.80	325.8	106148.00	1.14	-1.14
Aug-04	26320	28119.69	-1799.69	1799.69	3238880.16	6.84	-6.84
Sep-04	27058	26919.58	138.42	138.42	19160.11	0.51	0.51
Oct-04	29230	26578.14	2651.86	2651.86	7032354.01	9.07	9.07
Nov-04	29890	28609.77	1280.23	1280.23	1638988.90	4.28	4.28
Dec-04	30333	29620.97	712.03	712.03	506983.06	2.35	2.35
Jan-05	31651	31373.97	277.03	277.03	76744.63	0.88	0.88
Feb-05	30160	32269.02	-2109.02	2109.02	4447959.41	6.99	-6.99
Mar-05	36841	31087.65	5753.35	5753.35	33101045.91	15.62	15.62
Apr-05	37500	36311.65	1188.35	1188.35	1412173.92	3.17	3.17
May-05	35821	36895.56	-1074.56	1074.56	1154668.47	3.00	-3.00
Jun-05	37668	37979.90	-311.90	311.9	97280.93	0.83	-0.83
Jul-05	38678	38068.89	609.11	609.11	371009.87	1.57	1.57
Aug-05	35349	39079.54	-3730.54	3730.54	13916913.02	10.55	-10.55
Sep-05	32633	35095.71	-2462.71	2462.71	6064918.68	7.55	-7.55
Oct-05	35300	32981.95	2318.05	2318.05	5373378.66	6.57	6.57
Nov-05	30600	33208.44	-2608.44	2608.44	6803953.66	8.52	-8.52
Dec-05	35989	30075.91	5913.09	5913.09	34964656.26	16.43	16.43

Lampiran 18. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-06	34393	35547.33	-1154.33	1154.33	1332477.69	3.36	-3.36
Feb-06	32688	34013.11	-1325.11	1325.11	1755924.59	4.05	-4.05
Mar-06	34250	35270.09	-1020.09	1020.09	1040575.01	2.98	-2.98
Apr-06	35790	33750.54	2039.46	2039.46	4159380.08	5.70	5.70
May-06	38032	36032.06	1999.94	1999.94	3999779.35	5.26	5.26
Jun-06	37908	36620.30	1287.70	1287.7	1658166.00	3.40	3.40
Jul-06	39677	38989.53	687.47	687.47	472615.38	1.73	1.73
Aug-06	38798	39949.90	-1151.90	1151.9	1326864.18	2.97	-2.97
Sep-06	39708	40240.81	-532.81	532.81	283884.50	1.34	-1.34
Oct-06	39774	39782.75	-8.75	8.75	76.65	0.02	-0.02
Nov-06	39721	39694.10	26.90	26.9	723.85	0.07	0.07
Dec-06	39622	39119.99	502.01	502.01	252009.37	1.27	1.27
Jan-07	35317	39534.47	-4217.47	4217.47	17787046.94	11.94	-11.94
Feb-07	35820	35514.12	305.88	305.88	93563.07	0.85	0.85
Mar-07	36087	35970.15	116.85	116.85	13653.76	0.32	0.32
Apr-07	37257	34380.80	2876.20	2876.2	8272511.22	7.72	7.72
May-07	36667	37166.64	-499.64	499.64	249640.36	1.36	-1.36
Jun-07	34375	36233.42	-1858.42	1858.42	3453729.89	5.41	-5.41
Jul-07	34938	36182.26	-1244.26	1244.26	1548178.90	3.56	-3.56
Aug-07	30769	34607.27	-3838.27	3838.27	14732279.46	12.47	-12.47
Sep-07	26942	31007.75	-4065.75	4065.75	16530338.90	15.09	-15.09
Oct-07	32192	25978.50	6213.50	6213.5	38607589.15	19.30	19.30
Nov-07	33055	30050.93	3004.07	3004.07	9024447.60	9.09	9.09
Dec-07	32808	30935.02	1872.98	1872.98	3508061.02	5.71	5.71
Jan-08	37365	34958.16	2406.84	2406.84	5792867.32	6.44	6.44
Feb-08	27050	38342.81	-11292.81	11292.81	127527653.33	41.75	-41.75
Mar-08	41341	30229.77	11111.23	11111.23	123459512.59	26.88	26.88
Apr-08	43173	40695.75	2477.25	2477.25	6136743.32	5.74	5.74
May-08	44865	39452.72	5412.28	5412.28	29292790.95	12.06	12.06
Jun-08	47160	48188.72	-1028.72	1028.72	1058270.45	2.18	-2.18
Jul-08	45115	47356.25	-2241.25	2241.25	5023201.22	4.97	-4.97
Aug-08	48365	49769.48	-1404.48	1404.48	1972577.34	2.90	-2.90
Sep-08	50865	47057.64	3807.36	3807.36	14496017.63	7.49	7.49
Oct-08	51308	51131.99	176.01	176.01	30978.50	0.34	0.34
Nov-08	52938	49100.26	3837.74	3837.74	14728230.05	7.25	7.25
Dec-08	49354	54725.86	-5371.86	5371.86	28856924.80	10.88	-10.88

Lampiran 18. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-09	46889	49165.87	-2276.87	2276.87	5184124.96	4.86	-4.86
Feb-09	47111	49742.37	-2631.37	2631.37	6924120.90	5.59	-5.59
Mar-09	49889	44357.01	5531.99	5531.99	30602935.65	11.09	11.09
Apr-09	48558	49431.39	-873.39	873.39	762814.54	1.80	-1.80
May-09	47111	45978.56	1132.44	1132.44	1282426.83	2.40	2.40
Jun-09	49360	49967.19	-607.19	607.19	368685.67	1.23	-1.23
Jul-09	50860	48271.45	2588.55	2588.55	6700608.45	5.09	5.09
Aug-09	52132	52831.65	-699.65	699.65	489503.92	1.34	-1.34
Sep-09	55058	50844.75	4213.25	4213.25	17751457.12	7.65	7.65
Oct-09	53967	56789.88	-2822.88	2822.88	7968630.09	5.23	-5.23
Nov-09	52480	53061.06	-581.06	581.06	337633.77	1.11	-1.11
Dec-09	51249	55188.47	-3939.47	3939.47	15519458.79	7.69	-7.69
Jan-10	50339	49526.03	812.97	812.97	660915.01	1.61	1.61
Feb-10	51429	51085.26	343.74	343.74	118157.48	0.67	0.67
Mar-10	51105	48388.33	2716.67	2716.67	7380284.42	5.32	5.32
Apr-10	52338	52007.34	330.66	330.66	109335.45	0.63	0.63
May-10	57589	51279.81	6309.19	6309.19	39805916.51	10.96	10.96
Jun-10	59857	59400.42	456.58	456.58	208460.92	0.76	0.76
Jul-10	61088	59575.74	1512.26	1512.26	2286938.80	2.48	2.48
Aug-10	57321	64607.50	-7286.50	7286.5	53093079.16	12.71	-12.71
Sep-10	55338	57554.91	-2216.91	2216.91	4914683.75	4.01	-4.01
Oct-10	93909	57190.54	36718.46	36718.46	1348245489.82	39.10	39.10
Nov-10	62472	86715.48	-24243.48	24243.48	587746166.82	38.81	-38.81
Dec-10	54375	65716.60	-11341.60	11341.6	128631850.91	20.86	-20.86
Jan-11	58658	66940.45	-8282.45	8282.45	68599025.41	14.12	-14.12
Feb-11	48479	51541.74	-3062.74	3062.74	9380348.05	6.32	-6.32
Mar-11	49200	47165.99	2034.01	2034.01	4137216.03	4.13	4.13
Apr-11	51943	39404.21	12538.79	12538.79	157221266.83	24.14	24.14
May-11	52969	51263.92	1705.08	1705.08	2907311.39	3.22	3.22
Jun-11	65700	51117.70	14582.30	14582.3	212643509.80	22.20	22.20
Jul-11	73400	72380.43	1019.57	1019.57	1039522.24	1.39	1.39
Aug-11	100200	74101.81	26098.19	26098.19	681115275.81	26.05	26.05
Sep-11	102000	107136.24	-5136.24	5136.24	26380954.20	5.04	-5.04
Oct-11	148900	102262.04	46637.96	46637.96	2175099614.34	31.32	31.32
Nov-11	166400	158168.44	8231.56	8231.56	67758635.12	4.95	4.95
Dec-11	160400	163495.99	-3095.99	3095.99	9585161.03	1.93	-1.93

Lampiran 18. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-12	197500	184137.08	13362.92	13362.92	178567662.76	6.77	6.77
Feb-12	148800	195944.48	-47144.48	47144.48	2222601853.38	31.68	-31.68
Mar-12	149300	161171.96	-11871.96	11871.96	140943426.68	7.95	-7.95
Apr-12	157400	146864.22	10535.78	10535.78	111002641.78	6.69	6.69
May-12	137800	140718.40	-2918.40	2918.4	8517087.63	2.12	-2.12
Jun-12	108033	129300.59	-21267.59	21267.59	452310419.81	19.69	-19.69
Jul-12	108179	109073.75	-894.75	894.75	800570.97	0.83	-0.83
Aug-12	109125	107736.73	1388.27	1388.27	1927294.69	1.27	1.27
Sep-12	125833	102606.61	23226.39	23226.39	539465341.01	18.46	18.46
Oct-12	146636	123179.16	23456.84	23456.84	550223528.16	16.00	16.00
Nov-12	140300	144052.06	-3752.06	3752.06	14077929.87	2.67	-2.67
Dec-12	142375	152375.48	-10000.48	10000.48	100009560.25	7.02	-7.02
Rata-Rata			728.08	4852.29	89683945.03	7.87	0.58
			MAD		MSE	MAPE	MPE



Lampiran 19. Perhitungan Kesalahan Peramalan Harga Cengkeh Tingkat Konsumen dengan Model ARIMA (2,1,2)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-03	33780						
Feb-03	36910	31824.44	5085.56	5085.56	25862930.48	13.78	13.78
Mar-03	35919	36597.72	-678.72	678.72	460654.06	1.89	-1.89
Apr-03	29000	38461.71	-9461.71	9461.71	89523910.05	32.63	-32.63
May-03	36891	33309.2	3581.80	3581.80	12829290.81	9.71	9.71
Jun-03	27910	36782.13	-8872.13	8872.13	78714641.97	31.79	-31.79
Jul-03	29700	27588.62	2111.38	2111.38	4457923.01	7.11	7.11
Aug-03	27616	26286.31	1329.69	1329.69	1768070.19	4.81	4.81
Sep-03	26900	24349.41	2550.59	2550.59	6505493.01	9.48	9.48
Oct-03	24716	25270.42	-554.42	554.42	307384.85	2.24	-2.24
Nov-03	20140	25727.19	-5587.19	5587.19	31216673.50	27.74	-27.74
Dec-03	22810	22957.07	-147.07	147.07	21629.30	0.64	-0.64
Jan-04	38166	23695.45	14470.55	14470.55	209396890.32	37.91	37.91
Feb-04	35600	35267.42	332.58	332.58	110611.04	0.93	0.93
Mar-04	40188	36231.53	3956.47	3956.47	15653639.76	9.84	9.84
Apr-04	37100	42209.94	-5109.94	5109.94	26111496.51	13.77	-13.77
May-04	36819	41047.02	-4228.02	4228.02	17876166.68	11.48	-11.48
Jun-04	40200	39142.15	1057.85	1057.85	1119039.54	2.63	2.63
Jul-04	41700	38967.21	2732.79	2732.79	7468131.23	6.55	6.55
Aug-04	38250	38784.61	-534.61	534.61	285810.83	1.40	-1.40
Sep-04	52660	36588.27	16071.73	16071.73	258300436.17	30.52	30.52
Oct-04	31900	49980.88	-18080.88	18080.88	326918260.96	56.68	-56.68
Nov-04	30150	37580.51	-7430.51	7430.51	55212404.88	24.65	-24.65
Dec-04	45710	33736.27	11973.73	11973.73	143370107.06	26.19	26.19
Jan-05	42640	42241.51	398.49	398.49	158797.24	0.93	0.93
Feb-05	39760	40162.98	-402.98	402.98	162393.37	1.01	-1.01
Mar-05	41600	39217.85	2382.15	2382.15	5674648.96	5.73	5.73
Apr-05	39510	42013.24	-2503.24	2503.24	6266187.41	6.34	-6.34
May-05	39620	41440.44	-1820.44	1820.44	3314019.49	4.59	-4.59
Jun-05	42800	41071.06	1728.94	1728.94	2989229.83	4.04	4.04
Jul-05	43677	42458.05	1218.95	1218.95	1485837.21	2.79	2.79
Aug-05	39288	42758.22	-3470.22	3470.22	12042399.99	8.83	-8.83
Sep-05	40167	39338.14	828.86	828.86	687013.58	2.06	2.06
Oct-05	45660	39570.83	6089.17	6089.17	37077947.10	13.34	13.34
Nov-05	38255	44300.99	-6045.99	6045.99	36553957.96	15.80	-15.80
Dec-05	43711	39871.25	3839.75	3839.75	14743697.14	8.78	8.78

Lampiran 19. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-06	46500	43930	2570.00	2570.00	6604918.32	5.53	5.53
Feb-06	48100	46591.25	1508.75	1508.75	2276319.29	3.14	3.14
Mar-06	38200	48657.44	-10457.44	10457.44	109357947.12	27.38	-27.38
Apr-06	40175	40812.48	-637.48	637.48	406378.14	1.59	-1.59
May-06	46700	39640.12	7059.88	7059.88	49841879.33	15.12	15.12
Jun-06	48300	43235.07	5064.93	5064.93	25653560.33	10.49	10.49
Jul-06	49720	46111.48	3608.52	3608.52	13021385.74	7.26	7.26
Aug-06	43875	50384.35	-6509.35	6509.35	42371629.27	14.84	-14.84
Sep-06	50177	48084.31	2092.69	2092.69	4379372.09	4.17	4.17
Oct-06	45800	52255.79	-6455.79	6455.79	41677174.73	14.10	-14.10
Nov-06	44620	47231.9	-2611.90	2611.90	6822025.31	5.85	-5.85
Dec-06	44863	43347.34	1515.66	1515.66	2297219.71	3.38	3.38
Jan-07	38910	41471.38	-2561.38	2561.38	6560658.59	6.58	-6.58
Feb-07	40180	36640.96	3539.04	3539.04	12524782.47	8.81	8.81
Mar-07	43717	38312.6	5404.40	5404.40	29207547.26	12.36	12.36
Apr-07	46728	43270.97	3457.03	3457.03	11951066.15	7.40	7.40
May-07	53770	48549.89	5220.11	5220.11	27249561.22	9.71	9.71
Jun-07	42810	56457.73	-13647.73	13647.73	186260546.79	31.88	-31.88
Jul-07	43710	48458.82	-4748.82	4748.82	22551279.64	10.86	-10.86
Aug-07	37290	44970.82	-7680.82	7680.82	58995055.23	20.60	-20.60
Sep-07	36282	34922.26	1359.74	1359.74	1848886.25	3.75	3.75
Oct-07	39100	30158.88	8941.12	8941.12	79943595.25	22.87	22.87
Nov-07	42833	32601.03	10231.97	10231.97	104693210.72	23.89	23.89
Dec-07	42819	40401.32	2417.68	2417.68	5845200.31	5.65	5.65
Jan-08	46188	46868.21	-680.21	680.21	462689.57	1.47	-1.47
Feb-08	36700	53205.36	-16505.36	16505.36	272426883.54	44.97	-44.97
Mar-08	50120	44534.42	5585.58	5585.58	31198724.58	11.14	11.14
Apr-08	65233	48811.62	16421.38	16421.38	269661685.34	25.17	25.17
May-08	52770	58250.78	-5480.78	5480.78	30038932.89	10.39	-10.39
Jun-08	58126	51519.33	6606.67	6606.67	43648116.47	11.37	11.37
Jul-08	58277	58256.73	20.27	20.27	410.77	0.03	0.03
Aug-08	60200	61273.94	-1073.94	1073.94	1153341.26	1.78	-1.78
Sep-08	58133	63737.52	-5604.52	5604.52	31410628.73	9.64	-9.64
Oct-08	63500	60863.52	2636.48	2636.48	6951022.48	4.15	4.15
Nov-08	65700	62319.33	3380.67	3380.67	11428906.71	5.15	5.15
Dec-08	57900	62996.63	-5096.63	5096.63	25975682.51	8.80	-8.80

Lampiran 19. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-09	52900	57331.27	-4431.27	4431.27	19636179.96	8.38	-8.38
Feb-09	63888	52951.86	10936.14	10936.14	119599111.52	17.12	17.12
Mar-09	58000	61277.57	-3277.57	3277.57	10742450.74	5.65	-5.65
Apr-09	61077	58895.29	2181.71	2181.71	4759838.78	3.57	3.57
May-09	59100	62351.15	-3251.15	3251.15	10569959.47	5.50	-5.50
Jun-09	56750	61188.88	-4438.88	4438.88	19703630.43	7.82	-7.82
Jul-09	61800	58008.43	3791.57	3791.57	14376013.95	6.14	6.14
Aug-09	63810	60007.7	3802.30	3802.30	14457476.34	5.96	5.96
Sep-09	64910	61605.92	3304.08	3304.08	10916935.91	5.09	5.09
Oct-09	67880	64178.45	3701.55	3701.55	13701471.77	5.45	5.45
Nov-09	63810	68880.91	-5070.91	5070.91	25714109.65	7.95	-7.95
Dec-09	63799	67330.13	-3531.13	3531.13	12468894.49	5.53	-5.53
Jan-10	62770	66165.13	-3395.13	3395.13	11526923.09	5.41	-5.41
Feb-10	59200	62728.34	-3528.34	3528.34	12449160.02	5.96	-5.96
Mar-10	63820	57154.77	6665.23	6665.23	44425296.34	10.44	10.44
Apr-10	62770	59389.02	3380.98	3380.98	11431023.42	5.39	5.39
May-10	71072	60519.62	10552.38	10552.38	111352740.71	14.85	14.85
Jun-10	72888	70696.55	2191.45	2191.45	4802448.30	3.01	3.01
Jul-10	74500	76836.58	-2336.58	2336.58	5459592.55	3.14	-3.14
Aug-10	67299	80315.6	-13016.60	13016.60	169431995.82	19.34	-19.34
Sep-10	63810	72771.33	-8961.33	8961.33	80305423.59	14.04	-14.04
Oct-10	93878	63774.3	30103.70	30103.70	906232630.93	32.07	32.07
Nov-10	62788	83194.16	-20406.16	20406.16	416411176.21	32.50	-32.50
Dec-10	71900	63020.55	8879.45	8879.45	78844566.74	12.35	12.35
Jan-11	62500	70965.04	-8465.04	8465.04	71656984.03	13.54	-13.54
Feb-11	59800	65335.24	-5535.24	5535.24	30638858.11	9.26	-9.26
Mar-11	60188	61790.69	-1602.69	1602.69	2568605.07	2.66	-2.66
Apr-11	61088	59235.98	1852.02	1852.02	3429993.88	3.03	3.03
May-11	62810	57991.56	4818.44	4818.44	23217373.05	7.67	7.67
Jun-11	78100	59696.22	18403.78	18403.78	338699092.81	23.56	23.56
Jul-11	82990	75201.18	7788.82	7788.82	60665764.35	9.39	9.39
Aug-11	110627	86206.51	24420.49	24420.49	596360259.44	22.07	22.07
Sep-11	109180	114942.9	-5762.88	5762.88	33210783.90	5.28	-5.28
Oct-11	157290	120733.7	36556.28	36556.28	1336361902.71	23.24	23.24
Nov-11	178200	160715.6	17484.38	17484.38	305703462.32	9.81	9.81
Dec-11	176277	183997.9	-7720.94	7720.94	59612838.97	4.38	-4.38

Lampiran 19. (Lanjutan)

t	Yt	\hat{Y}	Et	Et	Et ²	Et / Yt	Et / Yt
Jan-12	197890	187513.2	10376.77	10376.77	107677314.10	5.24	5.24
Feb-12	160299	203306.3	-43007.32	43007.32	1849629873.13	26.83	-26.83
Mar-12	162300	169300.6	-7000.61	7000.61	49008608.15	4.31	-4.31
Apr-12	162800	156828.1	5971.85	5971.85	35663039.92	3.67	3.67
May-12	142050	147888.2	-5838.20	5838.20	34084601.66	4.11	-4.11
Jun-12	110277	130975.7	-20698.74	20698.74	428437929.89	18.77	-18.77
Jul-12	110733	107888.2	2844.79	2844.79	8092808.94	2.57	2.57
Aug-12	128193	107820.5	20372.48	20372.48	415037940.61	15.89	15.89
Sep-12	130220	124178.2	6041.79	6041.79	36503284.52	4.64	4.64
Oct-12	160250	132907.5	27342.54	27342.54	747614540.63	17.06	17.06
Nov-12	152775	163656.3	-10881.31	10881.31	118402986.42	7.12	-7.12
Dec-12	160100	165285.5	-5185.48	5185.48	26889185.20	3.24	-3.24
Rata-Rata			774.16	6858.59	99662462.45	11.26	-0.05
			MAD		MSE	MAPE	MPE

