BAB V
KESIMPULAN

A. KESIMPULAN

Berdasarkan hasil analisis dan pembahasan mengenai peramalan nilai ekspor tekstil Indonesia ke Amerika Serikat menggunakan model ARIMA, maka Peneliti dapat menyimpulkan beberapa hal sebagai berikut:

1. Pola Data Nilai Ekspor Tekstil Indonesia

   Berdasarkan data ekspor tekstil Indonesia ke Amerika Serikat periode 2014–2025, diketahui bahwa nilai ekspor mengalami fluktuasi yang cukup signifikan. Tren ekspor menunjukkan peningkatan pada tahun 2021–2022, namun mengalami penurunan kembali setelah 2023 akibat ketidakstabilan ekonomi global dan dampak kebijakan tarif impor Amerika Serikat. Pola ini bersifat non-stasioner sehingga tepat dimodelkan dengan pendekatan deret waktu ARIMA.

2. Model ARIMA Terbaik

   Hasil identifikasi model melalui uji ACF, PACF, dan kriteria Akaike Information Criterion (AIC) menunjukkan bahwa model terbaik untuk memprediksi nilai ekspor tekstil Indonesia ke Amerika Serikat adalah ARIMA (1,1,1). Model ini dipilih karena memiliki nilai AIC dan BIC paling rendah, serta residual yang memenuhi asumsi white noise.

3. Hasil Forecasting Nilai Ekspor Enam Bulan ke Depan

   Hasil peramalan menggunakan model ARIMA (1,1,1) menunjukkan bahwa nilai ekspor tekstil Indonesia ke Amerika Serikat pada periode enam bulan ke depan (September 2025–Februari 2026) diprediksi akan mengalami penurunan tipis secara bertahap. Berdasarkan hasil estimasi, proyeksi nilai ekspor adalah sebagai berikut:

   a. September 2025 sebesar US$ 277.000.000
   b. Oktober 2025 sebesar US$ 266.000.000
   c. November 2025 sebesar US$ 264.000.000
   d. Desember 2025 sebesar US$ 263.000.000
   e. Januari 2026 sebesar US$ 263.000.000
   f. Februari 2026 sebesar US$ 264.000.000

Pergerakan tersebut memperlihatkan tren stagnan hingga sedikit menurun, dengan rata-rata penurunan sekitar 0,05% per bulan. Temuan ini mengindikasikan bahwa meskipun sektor tekstil Indonesia masih memiliki daya saing di pasar global, tekanan dari kebijakan perdagangan Amerika Serikat, perlambatan ekonomi dunia, serta meningkatnya persaingan dari negara produsen lain (seperti Vietnam dan Bangladesh) berpotensi menahan laju pertumbuhan ekspor Indonesia pada periode jangka pendek.

4. Model ARIMAX

Model ARIMAX menunjukkan bahwa perubahan nilai tukar maupun inflasi tidak memiliki pengaruh signifikan terhadap nilai ekspor tekstil Indonesia ke Amerika Serikat, dan dinamika ekspor lebih ditentukan oleh pola pergerakan historis dari ekspor itu sendiri. Dengan demikian, kebijakan stabilisasi jangka pendek yang mengandalkan perbaikan nilai tukar atau inflasi kemungkinan tidak memberikan dampak instan pada peningkatan ekspor, dan pelaku industri cenderung merespons perubahan pasar melalui mekanisme internal seperti penyesuaian harga, kapasitas produksi, atau strategi pemasaran.

5. Pengaruh Kebijakan Tarif Impor Amerika Serikat

Berdasarkan hasil estimasi model ARIMA, variabel dummy yang merepresentasikan adanya kebijakan tarif impor Amerika Serikat terbukti memiliki pengaruh yang signifikan terhadap perubahan nilai ekspor Indonesia. Dummy ini menggambarkan dua kondisi kategorik, yaitu periode sebelum kebijakan diterapkan (0) dan periode setelah kebijakan diterapkan (1). Koefisien dummy yang positif dan signifikan menunjukkan bahwa ketika kebijakan tarif diberlakukan, perubahan nilai ekspor Indonesia mengalami peningkatan dibandingkan periode sebelumnya. Artinya, berlakunya kebijakan tarif dari Amerika Serikat memberikan dampak nyata terhadap peningkatan nilai ekspor Indonesia, baik sebagai bentuk penyesuaian pasar maupun perubahan pola perdagangan. Dengan demikian, dapat disimpulkan bahwa faktor kebijakan tarif tersebut menjadi salah satu determinan penting yang memengaruhi dinamika ekspor Indonesia selama periode penelitian.

B. SARAN

Berdasarkan hasil penelitian, pemerintah diharapkan memperkuat strategi diversifikasi pasar ekspor tekstil Indonesia agar tidak bergantung pada pasar Amerika Serikat, sekaligus meningkatkan daya saing industri melalui efisiensi produksi, inovasi, dan penerapan standar berkelanjutan. Pelaku industri perlu beradaptasi dengan dinamika global melalui peningkatan kualitas dan produktivitas agar tetap kompetitif.

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LAMPIRAN

Lampiran 1 Data Nilai Ekspor Pakaian Jadi ke Amerika Serikat 2014-2025 (USD$)

Month	non knitted	knitted	Total	Variabel dummy
Jan-14	109880455	128698393	238578848	0
Feb-14	92138245	116368427	208506672	0
Mar-14	84368192	122141356	206509548	0
Apr-14	99385656	130529939	229915595	0
May-14	87863944	120087659	207951603	0
Jun-14	115944926	123369767	239314693	0
Jul-14	125601291	139086111	264687402	0
Aug-14	72901360	98742265	171643625	0
Sep-14	84874160	119057439	203931599	0
Oct-14	79655511	108074558	187730069	0
Nov-14	69497613	76498660	145996273	0
Dec-14	123587354	149899849	273487203	0
Jan-15	97590040	105462525	203052565	0
Feb-15	83292877	94711083.1	178003960	0
Mar-15	98475869.38	119481821	217957690	0
Apr-15	95967526	107748396	203715922	0
May-15	89648956.29	102104848	191753804	0
Jun-15	116839195.3	123528647	240367842	0
Jul-15	104057624	115176215	219233839	0
Aug-15	94972699.22	100880326	195853025	0
Sep-15	104498993.8	124213766	228712760	0
Oct-15	82839354.61	95221004.7	178060359	0
Nov-15	87198503	80331466	167529969	0
Dec-15	132221398.1	122182524	254403922	0
Jan-16	105017923.9	105930643	210948567	0
Feb-16	95608036.25	86887705.3	182495742	0
Mar-16	103075277.9	114206748	217282026	0
Apr-16	92719848.61	93190235.8	185910084	0
May-16	87053922.88	88777118.2	175831041	0

Jun-16	142215914.9	151249240	293465155	0
Jul-16	66131431.05	67847344.3	133978775	0
Aug-16	90573080.88	114908313	205481394	0
Sep-16	90469505.54	115237937	205707442	0
Oct-16	57801657.73	84130438.1	141932096	0
Nov-16	83440628.89	93668739.5	177109368	0
Dec-16	113438667.7	124794242	238232909	0
Jan-17	110708818.6	121929575	232638393	0
Feb-17	94022437.62	113167676	207190114	0
Mar-17	99026585.89	142577326	241603912	0
Apr-17	81580107.43	107806742	189386849	0
May-17	95476512.67	124638179	220114692	0
Jun-17	93262841.72	125807772	219070613	0
Jul-17	109006957.7	116902521	225909479	0
Aug-17	111644482.4	158726929	270371411	0
Sep-17	79243791.52	135657622	214901413	0
Oct-17	72904867.89	99230498	172135366	0
Nov-17	93442978.59	115031310	208474289	0
Dec-17	107963384.9	120179783	228143168	0
Jan-18	118576742	135437684	254014426	1
Feb-18	96438344.05	115116300	211554644	1
Mar-18	102416242.8	154103450	256519693	1
Apr-18	87039854.41	115537107	202576961	1
May-18	100263524.4	155309491	255573015	1
Jun-18	77597141.29	102486713	180083855	1
Jul-18	105765709.9	143986279	249751989	1
Aug-18	110244125.7	166769499	277013625	1
Sep-18	99901693.38	156829951	256731645	1
Oct-18	82610670.96	116228643	198839314	1
Nov-18	92887242.08	124327395	217214637	1
Dec-18	109985828.4	145778892	255764721	1
Jan-19	122219563.8	169192644	291412208	1
Feb-19	90562995.27	134948985	225511980	1

Mar-19	83300447.45	150954992	234255439	1
Apr-19	75441464.61	118826073	194267537	1
May-19	115261495.3	155317691	270579186	1
Jun-19	67331095.83	91852691.4	159183787	1
Jul-19	116078052.8	140733193	256811246	1
Aug-19	119180187.5	151337147	270517334	1
Sep-19	91948487.31	141930764	233879251	1
Oct-19	75710954.33	100410114	176121069	1
Nov-19	90774154.13	103442651	194216805	1
Dec-19	118936438.6	122359722	241296160	1
Jan-20	110231179.7	140700139	250931318	1
Feb-20	96931385.81	124810200	221741586	1
Mar-20	87773201.45	109807635	197580836	1
Apr-20	55887927.64	75041226.4	130929154	1
May-20	63871144.69	80029651.1	143900796	1
Jun-20	80991770.23	111664571	192656341	1
Jul-20	86878424.38	134337967	221216392	1
Aug-20	84728157.59	131995827	216723985	1
Sep-20	85861582.61	139839016	225700598	1
Oct-20	46216378.31	111873834	158090212	1
Nov-20	51557166.57	96019030	147576197	1
Dec-20	76152721.17	147741563	223894284	1
Jan-21	79622288.98	141821159	221443448	1
Feb-21	71471221.29	137792575	209263797	1
Mar-21	83229843.89	157724406	240954249	1
Apr-21	62331416	111273728	173605144	1
May-21	62482378.53	98587977.5	161070356	1
Jun-21	78390768.97	155412121	233802890	1
Jul-21	99420328.96	167019267	266439596	1
Aug-21	101550326	221545083	323095409	1
Sep-21	91029673.14	179285372	270315045	1
Oct-21	83087037.36	136470992	219558029	1
Nov-21	115275747.6	185662342	300938089	1

Dec-21	137193509.1	236943603	374137112	1
Jan-22	147471507.2	219225182	366696689	0
Feb-22	119609910	193232380	312842290	0
Mar-22	144735247.7	200837793	345573041	0
Apr-22	130856641.6	224329454	355186096	0
May-22	87929753.93	161975231	249904985	0
Jun-22	146101345.7	211370133	357471479	0
Jul-22	125234975.4	192111899	317346874	0
Aug-22	114372762.7	205502676	319875439	0
Sep-22	85115523.5	117529971	202645494	0
Oct-22	82098083.33	118207550	200305633	0
Nov-22	125199676.8	172734646	297934323	0
Dec-22	112791175.4		112791175	0
Jan-23	107334665.7	124905379	232240045	0
Feb-23	101672676.2	126261434	227934110	0
Mar-23	95321270.58	139473973	234795244	0
Apr-23	68286997.22	99502552.7	167789550	0
May-23	118349795.8	136301626	254651421	0
Jun-23	97056640.16	157030690	254087331	0
Jul-23	105257451.4	167051758	272309209	0
Aug-23	107204371.8	347175419	454379791	0
Sep-23	64833925.38	118127606	182961531	0
Oct-23	78420563.33	103443779	181864342	0
Nov-23	101560905.4	127782177	229343082	0
Dec-23	97794001.56	131830594	229624596	0
Jan-24	101450985.3	123812199	225263184	0
Feb-24	100647660.2	127054586	227702246	0
Mar-24	76408335.34	122695991	199104326	0
Apr-24	65697450.73	100588405	166285855	0
May-24	81753416.84	132958605	214712022	0
Jun-24	99715999.78	147351935	247067935	0
Jul-24	99722460.15	188022106	287744566	0
Aug-24	124960165.4	215457240	340417405	0

Sep-24	65428834.04	126748328	192177162	0
Oct-24	83020902.48	137593690	220614593	0
Nov-24	92445349.09	153639365	246084714	0
Dec-24	118415504.6	156441799	274857304	0
Jan-25	108475639.1	151447841	259923480	1
Feb-25	119093142.6	147186434	266279577	1
Mar-25	91391758.13	132183932	223575690	1
Apr-25	80457503.55	120546973	201004477	1
May-25	102617786.8	163681913	266299699	1
Jun-25	114425974.7	172993391	287419366	1
Jul-25	119315748.6	203155021	322470770	1
Agst-25	111207435.8	204424280	315631716	1

Data Nilai Tukar Indonesia 2014-2025

Month	**Nilai Tukar**
Jan-14	12226
Feb-14	11634
Mar-14	11404
Apr-14	11532
May-14	11611
Jun-14	11969
Jul-14	11591
Aug-14	11717
Sep-14	12212
Oct-14	12082
Nov-14	12196
Dec-14	12440
Jan-15	12625
Feb-15	12863
Mar-15	13084
Apr-15	12937
May-15	13211

Jun-15	13332
Jul-15	13481
Aug-15	14027
Sep-15	14657
Oct-15	13693
Nov-15	13840
Dec-15	13795
Jan-16	13846
Feb-16	13395
Mar-16	13276
Apr-16	13204
May-16	13615
Jun-16	13180
Jul-16	13094
Aug-16	13300
Sep-16	12998
Oct-16	13051
Nov-16	13563
Dec-16	13436
Jan-17	13343
Feb-17	13347
Mar-17	13321
Apr-17	13327
May-17	13321
Jun-17	13319
Jul-17	13323
Aug-17	13351
Sep-17	13492
Oct-17	13572
Nov-17	13514
Dec-17	13548
Jan-18	13413
Feb-18	13707

Mar-18	13756
Apr-18	13877
May-18	13951
Jun-18	14404
Jul-18	14413
Aug-18	14711
Sep-18	14929
Oct-18	15227
Nov-18	14339
Dec-18	14481
Jan-19	14072
Feb-19	14062
Mar-19	14244
Apr-19	14215
May-19	14385
Jun-19	14141
Jul-19	14026
Aug-19	14237
Sep-19	14174
Oct-19	14008
Nov-19	14102
Dec-19	13901
Jan-20	13662
Feb-20	14234
Mar-20	16367
Apr-20	15157
May-20	14733
Jun-20	14302
Jul-20	14653
Aug-20	14554
Sep-20	14918
Oct-20	14690
Nov-20	14128

Dec-20	14105
Jan-21	14084
Feb-21	14229
Mar-21	14572
Apr-21	14468
May-21	14310
Jun-21	14496
Jul-21	14491
Aug-21	14374
Sep-21	14307
Oct-21	14199
Nov-21	14340
Dec-21	14269
Jan-22	14381
Feb-22	14371
Mar-22	14349
Apr-22	14418
May-22	14544
Jun-22	14848
Jul-22	14958
Aug-22	14875
Sep-22	15247
Oct-22	15542
Nov-22	15737
Dec-22	15731
Jan-23	14979
Feb-23	15274
Mar-23	15062
Apr-23	14751
May-23	14969
Jun-23	15026
Jul-23	15083
Aug-23	15239

Sep-23	15526
Oct-23	15916
Nov-23	15384
Dec-23	15416
Jan-24	15769
Feb-24	15673
Mar-24	15853
Apr-24	16249
May-24	16253
Jun-24	16421
Jul-24	16320
Aug-24	15409
Sep-24	15138
Oct-24	15732
Nov-24	15864
Dec-24	16162
Jan-25	16259
Feb-25	16431
Mar-25	16588
Apr-25	16787
May-25	16255
Jun-25	16233
Jul-25	16387
Agst-25	16356

Data Inflasi Indonesia 2014-2025

Month	Inflasi
Jan-14	2.31
Feb-14	2.37
Mar-14	1.87
Apr-14	1.6

May-14	1.95
Jun-14	1.03
Jul-14	-0.09
Aug-14	0.76
Sep-14	1.57
Oct-14	1.55
Nov-14	1.71
Dec-14	1.84
Jan-15	2.12
Feb-15	2.13
Mar-15	2.51
Apr-15	2.84
May-15	3
Jun-15	3.05
Jul-15	2.75
Aug-15	2.57
Sep-15	2.61
Oct-15	2.86
Nov-15	2.56
Dec-15	2.28
Jan-16	3.27
Feb-16	3.08
Mar-16	3.52
Apr-16	4
May-16	4.33
Jun-16	4.97
Jul-16	5.47
Aug-16	5.28
Sep-16	5.51
Oct-16	5.42
Nov-16	5.71
Dec-16	5.95
Jan-17	4.69

Feb-17	4.94
Mar-17	4.35
Apr-17	3.55
May-17	3.47
Jun-17	2.64
Jul-17	2.06
Aug-17	2.18
Sep-17	1.87
Oct-17	1.75
Nov-17	1.66
Dec-17	1.6
Jan-18	1.59
Feb-18	1.52
Mar-18	1.33
Apr-18	1.68
May-18	1.42
Jun-18	1.37
Jul-18	1.38
Aug-18	1.55
Sep-18	1.68
Oct-18	1.59
Nov-18	1.44
Dec-18	1.42
Jan-19	1.32
Feb-19	1.54
Mar-19	1.96
Apr-19	2.19
May-19	2.67
Jun-19	2.96
Jul-19	2.98
Aug-19	2.68
Sep-19	2.72
Oct-19	3

Nov-19	3.13
Dec-19	3.39
Jan-20	3.49
Feb-20	3.32
Mar-20	3.28
Apr-20	3.32
May-20	2.83
Jun-20	2.48
Jul-20	2.57
Aug-20	2.82
Sep-20	3.13
Oct-20	3.23
Nov-20	3.16
Dec-20	2.88
Jan-21	3.2
Feb-21	3.18
Mar-21	3.12
Apr-21	3.23
May-21	3.41
Jun-21	3.4
Jul-21	3.18
Aug-21	3.25
Sep-21	3.61
Oct-21	3.3
Nov-21	3.58
Dec-21	3.72
Jan-22	3.82
Feb-22	3.88
Mar-22	4.37
Apr-22	4.33
May-22	4.17
Jun-22	3.61
Jul-22	3.83

Aug-22	3.49
Sep-22	3.02
Oct-22	3.58
Nov-22	3.31
Dec-22	3.07
Jan-23	2.79
Feb-23	3.21
Mar-23	3.45
Apr-23	3.33
May-23	3.6
Jun-23	4.45
Jul-23	4.42
Aug-23	4.14
Sep-23	3.35
Oct-23	4.89
Nov-23	6.25
Dec-23	6.83
Jan-24	7.18
Feb-24	7.26
Mar-24	7.26
Apr-24	7.15
May-24	6.79
Jun-24	6.38
Jul-24	6.29
Aug-24	6.96
Sep-24	8.36
Oct-24	6.23
Nov-24	4.83
Dec-24	4.53
Jan-25	3.99
Feb-25	4.53
Mar-25	6.7
Apr-25	7.32

May-25	7.25
Jun-25	7.32
Jul-25	7.75
Agst-25	8.22

Lampiran 2 Hasil Olah Data Penelitian

Uji Stastioner

```
Dickey-Fuller test for unit root          Number of obs  = 139
Variable: nilaiekspor                     Number of lags =   0

H0: Random walk without drift, d = 0

                                       Dickey-Fuller
                   Test         ─────── critical value ─────────
              statistic            1%           5%          10%
─────────────────────────────────────────────────────────────────
 Z(t)            -8.015        -3.497       -2.887       -2.577
─────────────────────────────────────────────────────────────────
MacKinnon approximate p-value for Z(t) = 0.0000.
```

Model Terbaik Arima (1,0,1)

ARIMA regression

Sample: 2014m1 thru 2025m8	Number of obs = 140
	Wald chi2(2) = 199.00
Log likelihood = -2676.694	Prob > chi2 = 0.0000

nilaiekspor	Coefficient	OPG std. err.	z	P>|z|	[95% conf.	interval]
nilaiekspor						
_cons	2.32e+08	1.24e+07	18.80	0.000	2.08e+08	2.57e+08
ARMA						
ar						
L1.	.8735654	.0744588	11.73	0.000	.7276289	1.019502
ma						
L1.	-.650165	.1091824	-5.95	0.000	-.8641585	-.4361715
/sigma	4.86e+07	2218871	21.90	0.000	4.43e+07	5.29e+07

Model Terbaik Arima (1,1,1)

ARIMA regression

Sample: 2014m2 thru 2025m8	Number of obs = 139
	Wald chi2(2) = 16.74
Log likelihood = -2659.61	Prob > chi2 = 0.0002

D. nilaiekspor	Coefficient	OPG std. err.	z	P>|z|	[95% conf.	interval]
nilaiekspor						
_cons	435750.9	148143.6	2.94	0.003	145394.9	726107
ARMA						
ar						
L1.	.2815844	.0729627	3.86	0.000	.1385802	.4245887
ma						
L1.	-1.000004	105.6702	-0.01	0.992	-208.1098	206.1098
/sigma	4.86e+07	2.57e+09	0.02	0.492	0	5.08e+09

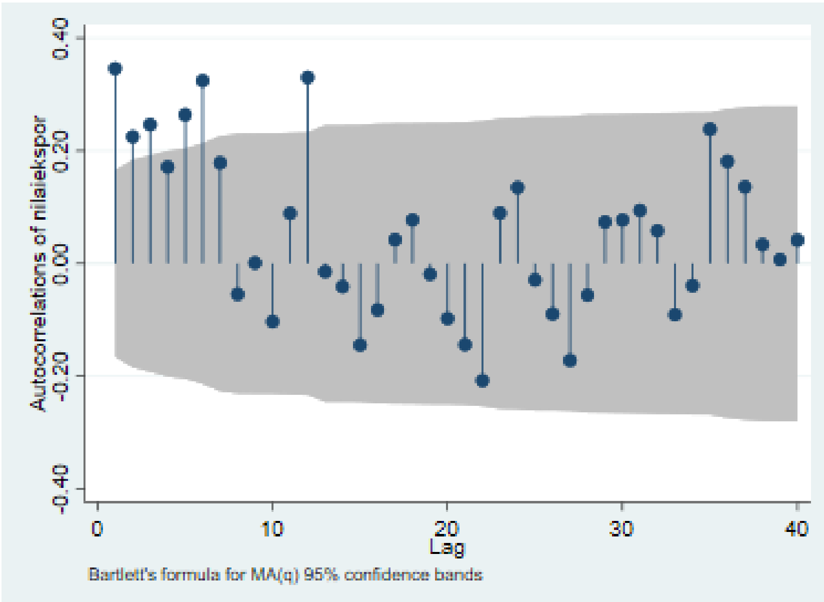
Hasil Forecasting Nilai Ekspor Pakaian Jadi

Month	**Forecasting nilai ekspor**
2025m9	277.000.000
2025m10	266.000.000
2025m11	264.000.000
2025m12	263.000.000
2026m1	263.000.000
2026m2	264.000.000

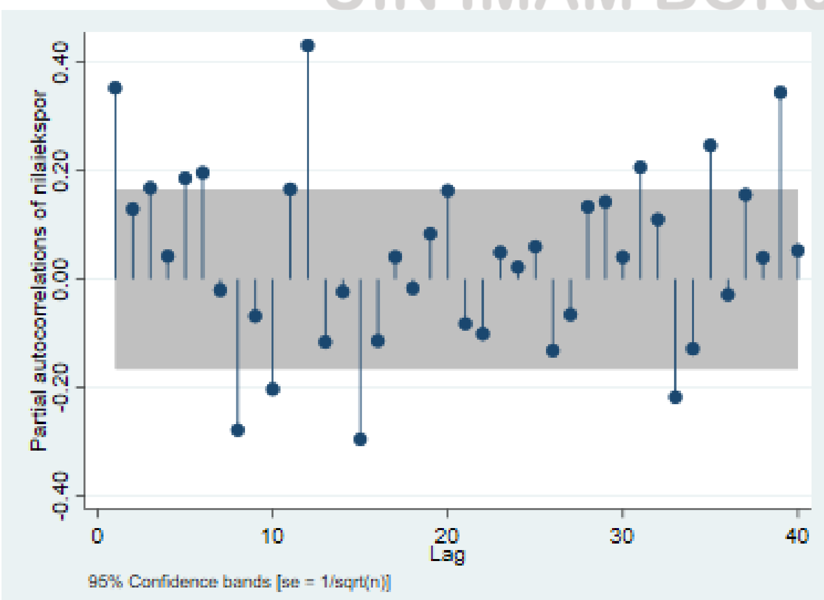
Olah Data Variabel Dummy

```
ARIMA regression

Sample: 2014m2 thru 2025m8                      Number of obs     =        139
                                                Wald chi2(3)      =     343.58
Log likelihood = -2656.862                      Prob > chi2       =     0.0000

------------------------------------------------------------------------------
D.           |                 OPG
 nilaiekspor | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
nilaiekspor  |
          DE |
         D1. |   .1797917   .0569838     3.16   0.002     .0681055    .2914778
             |
       _cons |   121250.5    1088837     0.11   0.911     -2012831     2255332
-------------+----------------------------------------------------------------
ARMA         |
          ar |
         L1. |    .106963   .0872299     1.23   0.220    -.0640045    .2779305
             |
          ma |
         L1. |  -.7877493   .0663467   -11.87   0.000    -.9177865   -.6577122
-------------+----------------------------------------------------------------
      /sigma |   4.83e+07    1955917    24.68   0.000     4.44e+07    5.21e+07
------------------------------------------------------------------------------
Note: The test of the variance against zero is one sided, and the two-sided
      confidence interval is truncated at zero.
```

Grafik AC



Grafik PAC



Grafik Before and After Forecasting