



ITS
Institut
Teknologi
Sepuluh Nopember

TUGAS AKHIR - IS184853

**PERAMALAN KECEPATAN ANGIN DI KABUPATEN
BANYUWANGI DENGAN MENGGUNAKAN METODE *HYBRID
ENSEMBLE EMPIRICAL MODE DECOMPOSITION-
AUTOREGRESSIVE INTEGRATED MOVING AVERAGE*
(EEMD-ARIMA)**

***WIND SPEED FORECASTING IN BANYUWANGI DISTRICT
USING HYBRID METHOD ENSEMBLE EMPIRICAL MODE
DECOMPOSITION-AUTOREGRESSIVE INTEGRATED
MOVING AVERAGE (EEMD-ARIMA)***

**MUHAMMAD RAMADHAN KIRAM
NRP. 05211640000061**

**Dosen Pembimbing
Faizal Mahananto, S. Kom., M.Eng., Ph.D.**

**DEPARTEMEN SISTEM INFORMASI
Fakultas Teknologi Elektro dan Informatika Cerdas
Institut Teknologi Sepuluh Nopember
Surabaya 2019**

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LEMBAR PENGESAHAN**PERAMALAN KECEPATAN ANGIN DI KABUPATEN
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MOVING AVERAGE (EEMD-ARIMA)****TUGAS AKHIR**

Disusun Untuk Memenuhi Salah Satu Syarat
Memperoleh Gelar Sarjana Komputer (S.Kom)
pada
Departemen Sistem Informasi
Fakultas Teknologi Elektro dan Informatika Cerdas (ELECTICS)
Institut Teknologi Sepuluh Nopember

Oleh

Muhammad Ramadhan Kiram**05211640000061**

Surabaya, 14 Agustus 2020

Kepala Departemen Sistem Informasi**Dr. Mudjahidin, ST., MT.
NIP. 197010102003121001**

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LEMBAR PERSETUJUAN

**PERAMALAN KECEPATAN ANGIN DI
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MENGUNAKAN METODE *HYBRID ENSEMBLE
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TUGAS AKHIR

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Memperoleh Gelar Sarjana Komputer
pada
Departemen Sistem Informasi
Fakultas Teknologi Elektro dan Informatika Cerdas
Institut Teknologi Sepuluh Nopember

Oleh:

MUHAMMAD RAMADHAN KIRAM

NRP. 05211640000061

Disetujui Tim Penguji : Tanggal Ujian : 22 Juli 2020
Periode Wisuda : September 2020


Faizal Mahananto, S. Kom., M. Eng., Ph.D.


(Pembimbing I)

Ahmad Muklason, S. Kom., M. Sc., Ph.D.


(Penguji I)

Raras Tyasnurita, S.Kom., MBA.


(Penguji II)

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**PERAMALAN KECEPATAN ANGIN DI KABUPATEN
BANYUWANGI DENGAN MENGGUNAKAN METODE
*HYBRID ENSEMBLE EMPIRICAL MODE
DECOMPOSITION-AUTOREGRESSIVE INTEGRATED
MOVING AVERAGE (EEMD-ARIMA)***

Nama : Muhammad Ramadhan Kiram
NRP : 05211640000061
Departemen : Sistem Informasi ITS
Pembimbing I : Faizal Mahananto, S. Kom., M.Eng.,
Ph.D.

ABSTRAK

Angin dipengaruhi oleh tekanan yang ada pada dataran bumi, perbedaan tekanan yang terjadi adalah sebab dari angin berhembus dari dataran yang memiliki tekanan tinggi ke dataran yang memiliki tekanan yang rendah. Besar selisih dari kedua tekanan ini merupakan besar dari kecepatan angin. Angin dan kecepatannya memiliki banyak pengaruh kepada beberapa fenomena alam, seperti: pergeseran iklim, proyeksi lintasan asap gunung merapi, perpecahan ombak, dan lain – lain. Selain fenomena alam, kecepatan angin juga mempengaruhi kinerja Pembangkit Listrik Tenaga Bayu (PLTB). Peramalan kecepatan angin bisa membantu meramalkan fenomena-fenomena alam tersebut serta hal yang bersangkutan paut dengan PLTB seperti kinerja dan perkiraan harga dari penggunaan PLTB, karena itu peramalan angin yang memiliki akurasi tinggi memiliki banyak manfaat. Peramalan kecepatan angin sudah banyak dilakukan dengan berbagai macam pendekatan, seperti: Support Vector Machine, Chaotic Time Series, Neural Network Model, ARIMA, dan lain – lain. Namun, pendekatan yang pernah digunakan untuk meramalkan kecepatan angin masih memiliki kekurangannya masing – masing. Secara garis besar kekurangan ini ditimbulkan karena kecepatan angin tidak

memiliki siklus atau tren atau musiman dan data kecepatan angin memiliki jenis variasi random.

Karena data kecepatan angin memiliki sifat acak atau random, data tersebut harus diolah terlebih dahulu agar bisa memiliki pola untuk meningkatkan hasil peramalan. Pendekatan yang bisa dilakukan untuk merubah data random menjadi data yang berpola adalah dengan cara mengubah data kecepatan angin menjadi data sinyal menggunakan pendekatan Empirical Mode Decomposition. Namun, pendekatan EMD masih memiliki kekurangan, karena itu pendekatan tersebut dikembangkan teknik penggunaannya, sehingga terbentuklah pendekatan Ensemble Empirical Mode Decomposition (EEMD). Pendekatan EEMD digunakan untuk mengubah data kecepatan angin menjadi data sinyal, EEMD juga memberikan kesensitifan lebih pada data sehingga hasil peramalan bisa menjadi lebih baik.

Data yang sudah menjadi data sinyal akan diramalkan menggunakan pendekatan ARIMA. Pendekatan ARIMA dipilih karena kredibilitasnya dalam teknik peramalan cukup tinggi, pendekatan ini telah digunakan oleh banyak penelitian peramalan yang menggunakan data kecepatan angin maupun bukan.

Peramalan akan dilakukan dengan menggunakan data time-series dari variabel kecepatan angin pada Kabupaten Banyuwangi rata-rata perhari.

Hasil penelitian menunjukkan bahwa pendekatan terbaik untuk meramalkan data kecepatan angin adalah EEMD-ARIMA memiliki nilai MAPE sebesar 14%.

Kata Kunci: Peramalan, Kecepatan Angin, EEMD, Ensemble Empirical Mode Decomposition, ARIMA, Autoregressive Integrated Moving Average.

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DISTRICT USING HYBRID METHOD ENSEMBLE
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(EEMD-ARIMA)***

Student Name : Muhammad Ramadhan Kiram
NRP : 0521164000061
Department : Sistem Informasi ITS
**Supervisor I : Faizal Mahananto, S. Kom., M.Eng.,
Ph.D.**

ABSTRACT

The wind is influenced by the pressure that is on the earth's plains, the difference in pressure that occurs is the cause of the wind blowing from the plains that have high pressure to the plains that have low pressure. The difference between these two pressures is the magnitude of the wind speed. The wind and its speed have a lot of influence on several natural phenomena, such as: climate shifts, the projection of the volcano's smoke trajectory, wave splits, and others. In addition to natural phenomena, wind speed also affects the performance of Wind Power Plants. Forecasting wind speed can help predict these natural phenomena as well as matters relating to Wind Power Plants such as performance and price estimates from the use of Wind Power Plants, therefore wind forecasting that has high accuracy has many benefits.

Forecasting wind speed has been done with a variety of approaches, such as: Support Vector Machines, Chaotic Time Series, Neural Network Models, ARIMA, and others. However, the approaches used to predict wind speed still have their disadvantages. Broadly speaking, this deficiency is caused because the wind speed does not have cycles or trends or seasonality and the wind speed data has a type of random variation.

Because wind speed data has random variation, the data must be processed first so that it will be more stable in order to improve forecasting results. The approach that can be done to convert random data into patterned data is by changing wind speed data into signal data using the Empirical Mode Decomposition approach. However, the EMD approach still has disadvantages, so the approach was developed for its use, so an Ensemble Empirical Mode Decomposition (EEMD) approach was formed. The EEMD approach is used to convert wind speed data into signal data, EEMD also gives more physical meaning to the data so that forecasting results can be improved.

Data that has become subseries of the original data will be predicted using the ARIMA approach. The ARIMA approach was chosen because its credibility in forecasting techniques is quite high, this approach has been used by many forecasting studies either for wind speed forecasting or else.

Forecasting will be done using time-series wind speed data from Banyuwangi District on average per day.

Results from this research shows that the best method for predicting wind speed data is EEMD-ARIMA, this method has a MAPE value of 14%

Keywords: Forecasting, Wind Speed, Ensemble Empirical Mode Decomposition, EEMD, Autoregressive Integrated Moving Average, ARIMA

SURAT PERNYATAAN BEBAS PLAGIARISME

Saya yang bertandatangan dibawah ini:

Nama : Muhammad Ramadhan Kiram
NRP : 0521164000061
Tempat/Tanggal Lahir : Jakarta/26 Desember 1998
Fakultas/Departemen : FTEIC/Sistem Informasi
Nomor Telp/Hp/Email : 08111664060 /
ramakiram@gmail.com

Dengan ini menyatakan dengan sesungguhnya bahwa penelitian/makalah/tugas akhir saya yang berjudul PERAMALAN KECEPATAN ANGIN DI KABUPATEN BANYUWANGI DENGAN MENGGUNAKAN METODE *HYBRID ENSEMBLE EMPIRICAL MODE DECOMPOSITION-AUTOREGRESSIVE INTEGRATED MOVING AVERAGE (EEMD-ARIMA)*

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Surabaya, 22 Juli 2020



Muhammad Ramadhan Kiram
NRP. 0521164000061

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KATA PENGANTAR

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PERAMALAN KECEPATAN ANGIN DI KABUPATEN BANYUWANGI DENGAN MENGGUNAKAN METODE *HYBRID ENSEMBLE EMPIRICAL MODE DECOMPOSITION-AUTOREGRESSIVE INTEGRATED MOVING AVERAGE (EEMD-ARIMA)*

Dimana tugas ini merupakan salah satu syarat kelulusan pada Departemen Sistem Informasi, Fakultas Teknik Elektro dan Informatika Cerdas, Institut Teknologi Sepuluh Nopember Surabaya.

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Surabaya, July 2019

Penulis

Muhammad Ramadhan Kiram

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BAB I

PENDAHULUAN

Dalam bab pendahuluan ini akan dijelaskan mengenai latar belakang masalah, perumusan masalah, batasan masalah, tujuan tugas akhir, dan manfaat kegiatan tugas akhir. Berdasarkan uraian pada bab ini, diharapkan mampu memberi gambaran umum permasalahan dan pemecahan masalah pada tugas akhir.

1.1 Latar Belakang

Menurut Kamus Besar Bahasa Indonesia, angin adalah gerakan udara dari daerah yang bertekanan tinggi ke daerah yang bertekanan rendah [1]. Namun, secara umum angin merupakan benda (udara) yang bergerak relatif terhadap permukaan bumi. Secara teknis, angin merupakan udara yang mendatar atau hampir mendatar. Angin memiliki kecepatan dan juga arah, dimana kedua hal ini ditentukan oleh tekanan udara yang berbeda di permukaan bumi. Angin berhembus dari daerah yang memiliki tekanan tinggi ke daerah yang memiliki tekanan rendah, perbedaan antara kedua tekanan ini mempengaruhi kecepatan angin, semakin besar perbedaannya maka semakin cepat pula angin berhembus [2].

Angin dan juga kecepatannya memiliki beberapa hal yang dipengaruhi oleh kecepatan angin adalah, antara lain: perubahan iklim, perubahan lintasan bulu vulkanik, waktu pechanya ombak, kinerja Pembangkit Listrik Tenaga Bayu, dan lain – lain. Kecepatan angin mempengaruhi perubahan iklim karena yang menyebabkan meningkatnya temperatur pada atmosfer adalah perubahan dari pola angin yang dimana pola ini disebabkan oleh tekanan udara pada suhu udara tersebut. Perubahan temperatur yang tinggi memberikan efek pada meningkatnya perubahan pada tekanan udara, kedua hal ini menyebabkan perubahan yang akan terjadi pada pola dari badai sebagai konsekuensi dari frekuensi terjadinya perubahan – perubahan ini [11]. Bulu vulkanik selalu berinteraksi dengan angin dalam segala cakupan. Pada cakupan yang kecil, angin

membentuk local eddy structure. Pada cakupan yang lebih besar, angin mengarah kepada keseluruhan dari lintasan bulu vulkanik itu sendiri [12]. Kabupaten Banyuwangi memiliki gunung merapi aktif yang memiliki potensi meledak pada suatu saat nanti. Prakiraan proyeksi lintasan asap yang disebabkan apabila terjadinya erupsi gunung ini bisa dibantu dengan peramalan kecepatan angin [3]. Angin lepas pantai mempengaruhi proses perpecahan ombak setelah ombak mulai terbangun cukup tinggi. Kecepatan angin yang ideal merupakan 10 knot, kecepatan angin yang ideal ini menyebabkan ombak pecah pada saat ombak sedang tinggi – tingginya. Ini merupakan momen yang tepat apabila ada peselancar yang sedang berselancar [13]. Selain mempengaruhi fenomena alam, kecepatan angin bisa mempengaruhi kinerja dari Pembangkit Listrik Tenaga Bayu (PLTB), tidak hanya mempengaruhi kinerja PLTB, peramalan kecepatan angin juga bisa memperkirakan penetapan harga yang optimal untuk ditawarkan kepada pengguna sesuai dengan harga pasar dan energi yang dihasilkan [4]. Presentasi pengaruh kecepatan angin pada kinerja PLTB mencapai 48,78%, berarti hampir setengah dari kinerja satu tower PLTB dipengaruhi oleh kecepatan angin [5]. Untuk mengetahui daya (*power*) yang bisa dihasilkan sebuah tiang PLTB dalam satuan *watt* dibutuhkan kecepatan angin dalam perhitungannya, hal ini yang menyebabkan pengaruh kecepatan angin pada perkiraan daya listrik yang akan dihasilkan. Namun, hasil yang akan didapatkan dari perhitungan perkiraan daya listrik yang dimiliki sebuah tiang PLTB tidak hanya sekedar perhitungan daya tersebut, ada variabel efisiensi pada perhitungan yang akan menjadi hasil akhir dalam perkiraan daya listrik yang akan terhantarkan kepada pelanggan yang menggunakan listrik dari PLTB [6]. Energi terbarukan menggunakan tenaga angin telah diaplikasikan di Indonesia, PLTB yang sudah beroperasi terletak pada, antara lain: Kabupaten Sidrap dan Kabupaten Jenepoton. Kedua kabupaten ini terletak pada provinsi Sulawesi Selatan. Masing-masing tiang PLTB bisa menghasilkan daya sampai sebesar 2,5 megawatt, sehingga pada PLTB Sidrap bisa menghasilkan tenaga sampai 75

megawatt dan pada PLTB Jeneponton bisa menghasilkan tenaga sampai 72 megawatt [7]. Ukuran baling-baling sebuah kincir angin pada PLTB sangatlah beragam, namun klasifikasi pada kincir angin secara umum memerlukan kecepatan angin minimal 3 m/s untuk menggerakkan sebuah kincir angin, kecepatan angin sebesar 3 m/s merupakan klasifikasi paling rendah dengan kategori *poor*. Daerah yang memiliki rata-rata kecepatan angin kurang dari 3 m/s dianggap tidak memiliki potensial maksimum dari aspek tenaga listrik yang dihasilkan oleh suatu Pembangkit Listrik Tenaga Bayu, maka dari itu peramalan kecepatan angin dengan performa yang baik dibutuhkan untuk menentukan potensial suatu daerah tersebut [8].

Peramalan data kecepatan angin dengan hasil yang baik akan menghasilkan peramalan hal yang dipengaruhi oleh kecepatan angin menjadi baik pula. Data kecepatan angin pada umumnya diramalkan menggunakan pendekatan, antara lain: *Support Vector Machine Model*, *Neural Network Model*, *Chaotic Time Series forecasting*, dan lain – lain. Seluruh pendekatan ini memiliki kelemahannya masing-masing, parameter yang digunakan pada *Support Vector Machine Model* tidak memiliki struktur yang valid, *Neural Network Model* tidak sensitif terhadap *local minima*, *Chaotic Time Series forecasting* membutuhkan *chaotic time-series data*. Pendekatan EEMD-ARIMA memiliki kemampuan untuk mengatasi kekurangan-kekurangan pendekatan yang biasanya digunakan untuk melakukan peramalan angin [9].

Data yang digunakan pada tugas akhir ini adalah data *time-series*. Data *time-series* merupakan *vector-valued* data yang berisikan hanya variable yang diukur, cakupan tanggal terjadinya hal yang diukur tersebut, dan periode dicatatnya pengukuran tersebut [10]. Data *time-series* memiliki pola yang terbagi menjadi empat jenis, yaitu : musiman, siklus, tren, dan variasi random. Pola data musiman merupakan terbentuknya data yang memiliki pola puncak dan lembah yang sama pada dua cakupan tanggal yang berbeda, pola data siklus merupakan pola yang mengalami fluktuatif yang disebabkan oleh beberapa faktor, pola data tren merupakan

data yang cenderung akan terus menurun atau akan terus meningkat, sedangkan variasi random merupakan pola data yang sangat acak dan tidak bisa ditebak. Pada tugas akhir ini kecepatan angin merupakan data yang digunakan, data ini diperoleh dari Stasiun BMKG cabang Banyuwangi. Data ini mencakup kecepatan angin yang pernah berhembus pada Kecamatan Giri, Kabupaten Banyuwangi dari 2017 sampai 2019 dengan periode per-hari, total data yang didapatkan mencapai 760 baris yang tidak memiliki pola dan memiliki kriteria tidak stabil maka bisa disimpulkan bahwa data yang digunakan merupakan data random yang bersifat acak.

Dikarenakan pola data yang diperoleh bersifat acak, harus dilakukan dekomposisi terlebih dahulu agar bisa mendapatkan pola sehingga bisa mendapatkan hasil peramalan yang lebih baik. Metode dekomposisi yang akan digunakan adalah *Ensemble Empirical Mode Decomposition* (EEMD). EEMD (*Ensemble Empirical Mode Decomposition*) merupakan teknik dekomposisi data biasa menjadi data sinyal yang merupakan pengembangan dari Teknik EMD (*Empirical Mode Decomposition*). Data yang telah didekomposisi akan digunakan untuk peramalan menggunakan metode ARIMA atau Autoregressive Moving Average, dikarenakan data kecepatan angin pada umumnya bersifat tidak stabil serta tidak memiliki pola namun peramalan data kecepatan angin bisa memiliki performa yang baik apabila dilakukannya dekomposisi data terlebih dahulu menggunakan pendekatan EEMD, *output* dari EEMD merupakan beberapa IMF serta residu yang lebih stasioner, teratur dan memiliki pola. Peramalan menggunakan pendekatan ARIMA akan membantu meningkatkan akurasi peramalan karena dari syarat melakukan peramalan menggunakan pendekatan ARIMA membutuhkan data masukan yang stasioner. Pendekatan EEMD-ARIMA memiliki memiliki hasil evaluasi peramalan yang sangat baik, peramalan kecepatan angin menggunakan pendekatan EEMD-ARIMA menghasilkan MAPE sebesar 0,028. Tugas akhir ini melanjutkan penelitian tersebut namun menggunakan data yang berbeda, data yang digunakan pada penelitian sebelumnya yang dibuat oleh Yu Min, Wang Bin, Zhang

Liang-Ii and Chen Xi dalam Wind Speed Forecasting Based on EEMD and ARIMA merupakan data kecepatan angin pada sebuah kota di China pada cakupan tanggal 1998-09-14-17:00 sampai 1998-10-22-05:00. Hasil dari penelitian ini menunjukkan bahwa peramalan kecepatan angin menggunakan metode hibrid EEMD-ARIMA memiliki hasil yang lebih baik daripada hanya menggunakan metode ARIMA saja, hal ini dibuktikan dari hasil MAPE (*Mean Absolute Percent Error*) dan MAE (*Mean Absolute Error*). Peningkatan kualitas peramalan yang didapatkan dari penelitian ini yang menjadi dasar alasan mengapa tugas akhir ini menggunakan metode hibrid dari kedua metode tersebut [9].

Dengan segala faktor dukungan yang sudah ditulis pada bagian latar belakang ini, hasil dari penelitian ini diharapkan akan membantu dalam peramalan kecepatan angin pada masa depan, serta untuk membantu efektifitas dan efisiensi dari pengerjaan penelitian tugas akhir ini, *tools* yang digunakan yaitu: RStudio, Minitab dan Eviews. Penelitian tugas akhir ini menggunakan metode hibrid EEMD-ARIMA memiliki tujuan untuk melakukan peramalan menggunakan data variasi random supaya bisa lebih akurat serta memiliki error yang kecil.

1.2 Rumusan Masalah

Perumusan masalah yang diangkat pada tugas akhir ini, yaitu:

1. Bagaimanakah model EEMD-ARIMA yang terbaik untuk mencapai hasil yang paling optimal untuk data kecepatan angin di Kota Banyuwangi?
2. Bagaimana akurasi dari hasil peramalan kecepatan angin di Kota Banyuwangi, Jawa Timur apabila menggunakan model hibrid EEMD-ARIMA?

1.3 Batasan Permasalahan

Batasan permasalahan dari tugas akhir ini adalah:

1. Penelitian peramalan ini hanya menggunakan data kecepatan angin pada jangka waktu 1 September 2017 – 30 September 2019.
2. Peramalan data kecepatan angin pada dilakukan pada periode tahun 2019-2020

1.4 Tujuan

Tujuan dari dilakukannya penelitian pada tugas akhir ini adalah:

1. Mengetahui model EEMD-ARIMA yang terbaik untuk melakukan peramalan data kecepatan angin di Kota Banyuwangi, Jawa Timur.
2. Mengetahui hasil akurasi peramalan data kecepatan angin menggunakan model EEMD-ARIMA.

1.5 Manfaat Penelitian

Manfaat yang diberikan dari tugas akhir ini adalah untuk membantu meramalkan bermacam - macam fenomena alam serta kinerja dari Pembangkit Listrik Tenaga Bayu pada Kabupaten Banyuwangi yang dipengaruhi oleh kecepatan angin. Fenomena alam yang dipengaruhi oleh kecepatan angin antara lain, adalah: perubahan iklim, lintasan bulu vulkanik, pecahan ombak, dan lain – lain. Dengan meramalkan kecepatan angin, banyak hal lain yang bisa dibantu dalam peramalannya atau pengambilan keputusan dengan hasil dari peramalan ini.

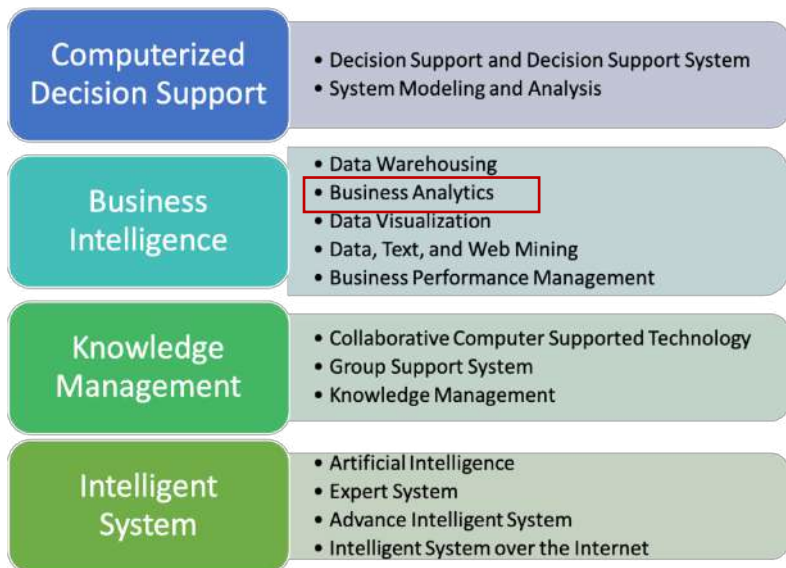
Manfaat bagi penelitian tugas akhir ini adalah agar mampu memahami, mengimplementasi, dan menarik kesimpulan dari model peramalan data menggunakan metode EEMD-ARIMA dalam kasus nyata yaitu kecepatan angin.

1.6 Relevansi

Relevansi dari tugas akhir ini adalah sebagai tindakan untuk mengantisipasi fenomena alam yang memiliki keterkaitan dengan kecepatan angin. Kecepatan angin bisa memberikan efek kepada perubahan iklim, yang dimana perubahan iklim bisa mempengaruhi banyak hal yang bisa ditemukan sehari – harinya, seperti: pertumbuhan agraria, pergeseran musim, dan

lain – lain. Peramalan ini juga bisa digunakan untuk mengukur kinerja dari PLTB serta pencocokan harga untuk penggunaan nantinya. Sehingga peramalan kecepatan angin ini bisa membantu untuk melakukan perencanaan pada banyak hal untuk menghindari resiko yang bisa terjadi.

Peramalan kecepatan angin di Kota Banyuwangi, Jawa Timur ini berkaitan dengan laboratorium Rekayasa Data dan Intelegensi Bisnis yang memiliki mata kuliah Teknik peramalan. Peramalan termasuk pada bidang *Business Intelligence* pada cabang *Business Analytics*.



Gambar 1.1 Road Map RDIB

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BAB II

TINJAUAN PUSTAKA

Pada bab ini akan dijelaskan penelitian terdahulu yang memiliki relevansi dengan penelitian ini serta rincian teori – teori yang menunjang pengerjaan penelitian ini.

2.1. Penelitian Terdahulu

Berikut merupakan beberapa penelitian yang pernah dilakukan sebelumnya, seluruh penelitian dibawah merupakan penelitian yang memiliki relevansi dari penelitian tugas akhir ini dari aspek data, metode, dan lain – lain.

Tabel 2.1 Tabel Referensi 1

Judul Paper	Short-term wind speed forecasting using ARIMA model [11]
Penulis; Tahun	Ernesta Grigonytė, Eglė Butkevičiūtė; 2016
Deskripsi Umum Penelitian	Penelitian ini menggunakan ARIMA untuk meramalkan kecepatan angin dengan periode per-jam. Hasil yang didapatkan dari penelitian ini cukup bagus dengan menggunakan model ARIMA (3,3,1). Namun hasil peramalan yang baik hanya ditemukan untuk enam sampai delapan jam saja, sisanya diasumsikan tidak memiliki hasil yang baik.
Keterkaitan Penelitian	Penelitian ini merupakan alasan mengapa penelitian ini memilih metode ARIMA untuk melakukan peramalan. Penelitian ini menyarankan untuk menggunakan metode hibrid agar mendapatkan hasil yang lebih baik, tidak hanya menggunakan ARIMA saja. MAPE terkecil yang dihasilkan menggunakan metode ini adalah 0,30. Sedangkan pendekatan yang digunakan pada

	penelitian tugas akhir ini memiliki MAPE 0,208
--	--

Tabel 2.2 Tabel Referensi 2

Judul Paper	Short-term wind speed forecasting approach using Ensemble Empirical Mode Decomposition and Deep Boltzmann Machine [12]
Penulis; Tahun	Madasthu Santhosh, Chintham Venkaiah, D.M. Vinod Kumar; 2019
Deskripsi Umum Penelitian	Penelitian ini merupakan peramalan kecepatan angin berjangka pendek menggunakan pendekatan EEMD dan DBM. EEMD digunakan pada penelitian ini dikarenakan data kecepatan angin tidak memiliki pola alias variasi random, EEMD sangat membantu menaikkan hasil yang didapatkan dalam peramalan kecepatan angin ini. Karena EEMD bisa melakukan <i>de-noising</i> yang membikin data <i>input</i> menjadi memiliki pola.
Keterkaitan Penelitian	Penelitian ini merupakan alasan mengapa penelitian ini memilih metode EEMD untuk melakukan dekomposisi dari data mentah karena hasil dari penelitian ini membuktikan bahwa data kecepatan angin yang dipecah dan ditambah <i>white noise</i> memiliki hasil peramalan yang meningkat. Pendekatan EEMD-DBM memiliki hasil peramalan dengan RMSE sebesar 0,206, hasil ini memiliki selisih 0,061 dengan pendekatan EEMD-ARIMA yang berarti masih memiliki RMSE yang kecil dan bisa dibilang akurat.

Tabel 2.3 Tabel Referensi 3

Judul Paper	Wind Speed Forecasting Based on EEMD and ARIMA [9]
Penulis; Tahun	Yu Min, Wang Bin, Zhang Liang-li and Chen Xi; 2015
Deskripsi Umum Penelitian	Penelitian ini merupakan peramalan kecepatan angin menggunakan pendekatan EEMD-ARIMA. Penelitian ini menggunakan data kecepatan angin yang direkam pada sebuah kota di China. Penelitian ini menyimpulkan bahwa peramalan kecepatan angin menggunakan pendekatan EEMD-ARIMA memiliki hasil yang lebih baik daripada metode – metode lain yang biasanya digunakan untuk melakukan peramalan kecepatan angin, seperti : SVM, <i>Chaotic Time Series</i> , <i>Neural Network Model</i> , dan lain – lain.
Keterkaitan Penelitian	Penelitian ini merupakan penunjang utama mengapa penelitian tugas akhir ini menggunakan metode EEMD-ARIMA. Data yang digunakan sama – sama data kecepatan angin, namun data pada penelitian yang dilakukan Yu Min dan kawan - kawan menggunakan data dari tahun 1990an yang memiliki jangka waktu cukup lama dari dilakukannya penelitian tersebut.

Tabel 2.4 Tabel Referensi 4

Judul Paper	Comparative study on three new hybrid models using Elman Neural Network and Empirical Mode Decomposition based technologies improved by Singular Spectrum Analysis for hour-ahead wind speed forecasting [13]
Penulis; Tahun	Chuanjin Yu, Yongle Li, MingjinZhang; 2017
Deskripsi Umum	Penelitian ini merupakan peramalan kecepatan angin menggunakan tiga

Penelitian	pendekatan, yaitu: EMD-SSA-ENN, EEMD-SSA-ENN dan CEEMDN-SSA-ENN. Data yang digunakan merupakan kecepatan angin dengan periode perjam dengan total 720 <i>sample</i> untuk membangun model dan 168 <i>sample</i> untuk memvalidasi hasil model peramalan. Pendekatan yang memiliki akurasi tertinggi adalah CEEMDN-SSA-ENN dengan MAPE 9.9%
Keterkaitan Penelitian	Penelitian ini menjelaskan bahwa data kecepatan angin tidak memiliki pola sama sekali, dengan fluktuasi yang tinggi serta tidak beraturan, dekomposisi sangatlah dianjurkan untuk dilakukan apabila ingin melakukan peramalan menggunakan data kecepatan angin. <i>Complete Ensemble Empirical Mode Decomposition with Adaptive Noise</i> , memiliki performa peramalan yang lebih baik. Namun karena keterbatasan waktu pengerjaan, penelitian ini menggunakan metode <i>Ensemble Empirical Mode Decomposition</i> .

2.2 Dasar Teori

Berisi semua landasan teori yang diperlukan untuk menunjang pengerjaan penelitian tugas akhir ini.

2.2.1. Kecepatan Angin

Angin terjadi karena pada waktu siang, udara di atas daratan mendapatkan energi panas dari matahari lebih cepat dari udara yang ada di sekitar air. Hangat yang diproduksi udara dari daratan akan meningkat, hal ini menyebabkan udara dingin menggantikan udara yang sudah terkena panas, hal ini merupakan penyebab terjadinya angin [14]. Pola dari angin disebabkan oleh medan bumi, permukaan air yang ada di bumi, dan tutupan vegetatif. Kecepatan angin atau velositas gelombang angin merupakan sebuah kuantitas atmosferik fundamental. Hal ini diakibatkan oleh Bergeraknya angin dari daerah yang memiliki tekanan tinggi ke daerah yang memiliki

tekanan rendah. Tekanan juga dipengaruhi oleh suhu dari daerah tersebut [15]. Kecepatan angin memiliki sifat *irregular* dikarenakan memiliki banyak faktor yang mempengaruhi kecepatan angin, hal ini menyebabkan terjadinya fluktuasi yang random serta besar, hal ini menunjukkan bahwa kecepatan angin memiliki karakteristik acak tanpa memiliki karakteristik *trend*, *cyclic*, ataupun *seasonal* [13].

2.2.2. Kabupaten Banyuwangi

Kabupaten Banyuwangi terletak pada provinsi Jawa Timur, luas wilayah dari kabupaten ini sebesar 5.782,50 km². Kabupaten Banyuwangi memiliki gunung Merapi yang memiliki status aktif, yaitu Gunung Ijen. Kabupaten Banyuwangi juga memiliki daerah pantai pesisir, pantai yang memiliki ombak paling aktif disetiap waktu adalah Pantai Plengkung, terletak pada bagian timur Kabupaten Banyuwangi [16]. Kabupaten Banyuwangi memiliki potensi untuk dibangunnya Pembangkit Listrik Tenaga Bayu (angin). Jumlah *tower* PLTB yang bisa dibangun pada Kecamatan Purwoharjo Kabupaten Banyuwangi mencapai angka 110.18 titik [5].

2.2.3. Peramalan

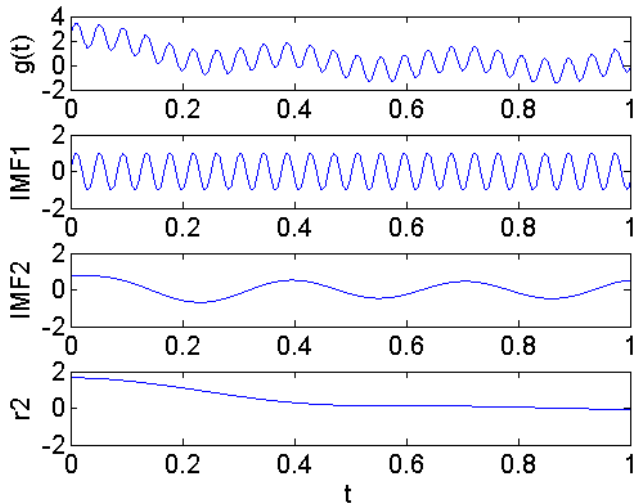
Peramalan merupakan sebuah prakiraan terhadap data yang akan mendatang yang didasarkan dari variabel – variabel yang mempengaruhi variabel yang ingin diramal, pada umumnya berdasarkan data deret waktu historis [17].

Peramalan merupakan sebuah proses untuk memperkirakan kebutuhan yang akan diperlukan pada masa depan, meliputi dari kebutuhan ukuran kuantitas, kualitas, waktu dan lokasi guna memenuhi banyak kebutuhan lainnya. Secara garis besar, pendekatan peramalan dibagi menjadi dua, yaitu : peramalan kuantitatif dan peramalan kualitatif [18]. Metode peramalan kualitatif adalah peramalan yang dilakukan hanya oleh pakar atau para ahli, sedangkan metode peramalan kuantitatif merupakan analisis dari data yang diperoleh dari masa lalu agar bisa mendapatkan keputusan yang menyangkut masa yang akan datang [19].

2.2.4. *Ensemble Empirical Mode Decomposition*

Dekomposisi adalah proses perubahan sebuah bentuk yang kompleks menjadi bentuk yang lebih sederhana [20] . Dekomposisi data merupakan metode untuk merubah data *non-stationary* menjadi data *stationary* sehingga data memiliki pola yang berarti [21] .

Metode EMD digunakan untuk mempertimbangkan sinyal pada tingkat osilasi lokal data tersebut. Melihat dari evolusi dari sebuah sinyal $x(t)$ diantara dua dua *local extrema* yang berturut – turut pada saat ada dua *minima* yang terjadi pada $t-$ dan $t+$, data bisa didefinisikan bagian *high-frequency*-nya dengan persamaan berikut : $\{d(t), t- \leq t \leq t+ \}$. Variabel $d(t)$ atau disebut juga sebagai *detail* merupakan koresponden kepada osilasi yang berakhir pada dua *minima* dan melewati *maxima* yang berada diantara keduanya. Variabel $m(t)$ atau disebut juga *local trend* yang merupakan kebalikan dari *detail*, yaitu bagian *low-frequency* sehingga memiliki persamaan $x(t) = m(t) + d(t)$ for $t- \leq t \leq t+$. Apabila proses diatas telah dilakukan secara sempurna, maka keluaran dari proses ini merupakan beberapa IMF atau *intrinsic mode function* dan juga residu yang mencakup semua *local trend*. IMF merupakan data yang telah diubah menjadi data sinyal. Contoh dari IMF dan residu yang berbentuk sinyal bisa dilihat pada Gambar 2.1 [22].



Gambar 2.1 Contoh IMF dan Residu

Intrinsic Mode Function harus memiliki beberapa kriteria agar bisa disebut sebagai IMF yang baik, yaitu : jumlah *extrema* dan jumlah fluktuasi yang melewati garis nol harus sama atau boleh berbeda maksimal satu dan rata – rata dari *upper envelope* dan *lower envelope* harus nol [23] .

Pada penggunaannya, EMD asli masih memiliki kelemahannya sendiri, yang paling sering terjadi adalah terjadinya *mode mixing*. *Mode mixing* adalah IMF tunggal yang memiliki skala yang sangat berbeda dan atau beberapa IMF yang memiliki skala yang sama, hal ini terjadi karena adanya sinyal yang terputus – putus, hal ini tidak hanya menyebabkan terjadinya anomali yang membingungkan, hal ini juga menyebabkan makna dari IMF yang didapatkan dari pendekatan ini menjadi memiliki makna yang susah untuk dimengerti, karena itu dicetuskanlah pendekatan baru yaitu *Ensemble Empirical Decomposition* (EEMD). EEMD memiliki prinsip yang sederhana, *white noise* yang ditambahkan akan menyebabkan pengisian seluruh ruang waktu-frekuensi dengan penambahan yang sama dari

komponen penyusun skala yang berbeda. Saat sinyal ditambahkan *white noise* dengan distribusi yang rata ini, sinyal – sinyal yang ada dari skala yang berbeda akan diproyeksikan kepada skala referensi yang tepat dan akurat secara otomatis oleh *white noise*. EEMD merupakan pengembangan dari EMD, yang membedakan dari keduanya adalah, EEMD menambahkan *white noise* pada data sehingga saat sudah menjadi data sinyal, data yang memiliki frekuensi rendah bisa lebih terlihat sehingga menjadi lebih sensitif. Penambahan *white noise* dilakukan dengan merubah data dengan cara menambahkan nilai yang diperoleh dari algoritma *gaussian noise* sehingga data yang memiliki frekuensi rendah mengalami efeknya dengan menjadi lebih sensitif [21] .

2.2.4.1. Tahapan Melakukan EEMD

Tahap melakukan EEMD memiliki tahap untuk melakukan EMD juga, berikut merupakan langkah – langkah yang dilakukan sampai memiliki *output* IMF yang diinginkan [24] :

a. Langkah 1

Hitung $X^k(t) = X(t) + \omega^k(t)$, dimana

$\{\omega^k(t), (k=1,2,3,..N)$ adalah perbedaan realisasi dari *white gaussian noises series*, N adalah jumlah berapa kali penambahan *white noise* pada data asli.

b. Langkah 2

Identifikasi seluruh *local extrema* dari data mentah yang dimiliki.

c. Langkah 3

Hubungkan seluruh *local maxima* dan *local minima* dengan dua garis *spline* kubik untuk menghasilkan masing-masing seri *envelope* atas $\{X_{UP}(t)\}$ dan seri *envelope* bawah $\{X_{DOWN}(t)\}$

d. Langkah 4

Hitung rata – rata dari kedua envelope dengan rumus 1

$$X_{UP}(t) = \frac{X_{UP}(t) + X_{DOWN}(t)}{2} \dots\dots\dots(1)$$

e. Langkah 5

Ekstraksi dari rumus dekomposisi dengan rumus 2

$$Y(t) = X(t) - X_{MEAN}(t) \dots\dots\dots(2)$$

f. Langkah 6

Periksalah data yang sudah diekstraksi $\{Y(t)\}$ apakah sudah menjadi komponen IMF. Apabila sudah maka $IMF(t) = Y(t)$ dan ganti seri $\{X(t)\}$ dengan residual $R(t) = X(t) - IMF(t)$. Apabila belum, maka ganti seri $\{X(t)\}$ menjadi data yang sudah diekstraksi $\{Y(t)\}$.

g. Langkah 7

Ulangi langkah dua sampai langkah enam hingga mendapatkan IMF yang sudah diinginkan. $\{IMF_m^k(t)\}, (m = 1, 2, 3, \dots, M)$, dimana M adalah jumlah IMF yang terhaslkan dengan berapa kali 'K' iterasi.

h. Langkah 8

Hitung rata – rata dari persamaan $\{IMF_m^k(t)\}$ dengan rumus 3

$$IMF_m(t) = \frac{1}{N} \sum_{k=1}^N IMF_m^k(t) \dots\dots\dots(3)$$

i. Langkah 9

Ulangi langkah sebelumnya untuk menyelesaikan metode EEMD. Keluaran dari seri sinyal $X(t)$ akan menjadi seperti rumus 4

$$X(t) = \sum_{m=1}^p IMF_m(t) + R_p(t) \dots\dots\dots(4)$$

Dimana $\{IMF_m(t)\}, (m = 1, 2, \dots, p)$ adalah IMF yang telah dilakukan proses EEMD, $\{R_m(t)\}$ adalah koresponden residu dan 'p' adalah jumlah IMF yang telah dilakukan proses EEMD.

2.2.5 ARIMA

ARIMA atau *Autoregressive Integrated Moving Average* atau juga kerap disebut metode runtun waktu Box-Jenkins adalah model yang secara keseluruhan tidak menghiraukan variabel independent dalam melakukan peramalan, ARIMA menggunakan data yang direkam pada masa lalu dan sekarang melalui variabel dependen agar menghasilkan peramalan yang akurat untuk ukuran jangka pendek, apabila untuk melakukan peramalan jangka panjang pada umumnya hasilnya akan cenderung menjadi rata dan tidak memiliki fluktuasi yang berarti [25].

ARIMA memiliki 3 unsur pada modelnya, yaitu: *autoregressive* (AR), *moving average* (MA), dan *integrated* (I). Masing – masing ketiga unsur tersebut menjadi variabel parameter untuk melakukan peramalan ARIMA, yaitu persamaan ARIMA (p,d,q), dimana variabel p merupakan ordo AR atau juga disebut sebagai koefisien autokorelasi penuh ataupun parsial, variabel d merupakan jumlah proses *differencing* yang dilakukan, dan q merupakan ordo MA atau juga disebut sebagai koefisien rata – rata bergerak. Ketiga unsur ini bisa dikombinasikan sehingga menjadi beberapa model ARIMA, yaitu: *autoregressive* (AR), *autoregressive moving average* (ARMA), *moving average* (MA), dan *autoregressive integrated moving average* (ARIMA). Penentuan model ini dihasilkan dari parameter yang digunakan pada model yang akan digunakan. Apabila hanya menggunakan variabel p berarti model AR, apabila hanya menggunakan variabel q berarti menggunakan model MA, apabila menggunakan variabel p dan q berarti menggunakan model ARMA, apabila menggunakan variabel p, d, dan q berarti menggunakan model ARIMA. Secara umum, ARIMA memiliki model matematika seperti rumus 5 [26]

$$Y_t = \gamma_0 + \delta_1 Y_{t-1} + \delta_2 Y_{t-2} + \dots + \delta_n Y_{t-p} - \lambda_1 e_{t-1} - \lambda_2 e_{t-2} - \lambda_n e_{t-q} \dots \dots \dots (5)$$

Keterangan:

Y_t : Variabel dependen pada waktu t

$Y_{t-1} \dots Y_{t-p}$: Variabel lag

e_t : Residual term

$W_1 \dots W_q$: Bobot
 $e_{t-1} \dots e_{t-q}$: Nilai sebelumnya atau residual

2.2.5.1. Tahapan Melakukan Peramalan ARIMA

Untuk bisa melakukan peramalan ARIMA, ada tahap-tahap yang harus dilakukan, seperti: pengujian, estimasi, dan peramalan. Berikut merupakan rincian dari tahap-tahap melakukan peramalan ARIMA [27] :

a. Identifikasi Data

Data yang stasioner dalam rataan maupun stasioner dalam ragam merupakan syarat untuk melakukan peramalan ARIMA. Apabila data tidak stasioner dalam ragam maka dapat dilakukan transformasi pangkat (*Power Transformation*) Box-Cox sampai data memiliki *P-Value* sama dengan 1 (satu). Apabila data tidak stasioner dalam rataan maka dapat dilakukan *differencing*.

b. Identifikasi Model

Untuk bisa mengidentifikasi model ARIMA (p, d, q) bisa dilakukan dengan pengamatan menggunakan plot ACF (*Autocorrelation Function*) dan plot PACF (*Partial Autocorrelation Function*).

Bentuk model AR (*Autoregressive*) atau model ARIMA ($p, 0, 0$) merujuk pada rumus 6

$$Z_t = \phi_1 Z_{t-1} + \phi_2 Z_{t-2} + \dots + \phi_p Z_{t-p} + \alpha_t \dots \dots \dots (6)$$

Keterangan:

$$\begin{aligned} \phi_p(B) = (1 - \phi_1 B - \dots - \phi_p B^p) Z_t &= \text{Data } time\text{-series} \text{ sebagai variabel respon pada waktu ke-} \\ Z_t &= \text{Data } time\text{-series} \text{ sebagai variabel respon pada waktu ke-} t \text{ yang telah} \\ &\text{stasioner} \\ Z_{t-1}, \dots, Z_{t-p} &= \text{Data} \\ &\text{deret waktu ke } t - 1, \dots, t - p \end{aligned}$$

$\phi_1, \phi_2, \dots, \phi_p$ = Parameter-parameter *autoregressive*

α_t = Nilai

kesalahan pada waktu ke-t

Selanjutnya untuk model MA (*Moving Average*) atau model ARIMA (0, 0, q) marujuk pada rumus 7

$$Z_t = \alpha_t - \theta_1 \alpha_{t-1} - \theta_2 \alpha_{t-2} - L - \theta_q \alpha_{t-q} \dots \dots \dots (7)$$

$$\theta_q(B) = (1 - \theta_1 B - L - \theta_q B^q)$$

Keterangan:

θ_q = Parameter-parameter *moving average*

α_t = Nilai kesalahan pada kurun waktu ke-t, t-1, ..., t-q

Sedangkan model yang merupakan kombinasi dari kedua model diatas serta dilakukannya proses *differencing* merujuk pada rumus 8

$$\phi_p(B)(1 - B)^d Z_t = \theta_q(B) \alpha_t \dots \dots \dots (8)$$

Keterangan:

$(1 - B)^d$ = *Differencing* pada orde ke-d

B = *Backward Shift*

c. Estimasi Parameter

Ada banyak macam cara yang bisa digunakan untuk bisa mendefinisikan parameter-parameter pada model ARIMA. Secara garis besar, apabila δ adalah sebuah parameter dari model ARIMA (mencakup ϕ , θ , dan μ) dan δ adalah nilai dari estimasi parameter tersebut dan juga s.e δ adalah standar error dari nilai δ itu sendiri maka uji signifikansi dari parameter bisa dilakukan dengan hipotesa:

$H_0: \delta = 0$ (Parameter tidak signifikan)

$H_0: \delta \neq 0$ (Parameter Signifikan)

Statistik uji akan dilakukan dengan rumus 9

$$t = \frac{\delta'}{s.e(\delta')} \dots \dots \dots (9)$$

Dimana daerah penolakan: Tolak H_0 apabila $|t| > t_{\frac{\alpha}{2}; n-m}$

atau menggunakan *p-value* $< \alpha$ artinya parameter signifikan.

d. Pemeriksaan Diagnostik

Pemeriksaan diagnostik adalah pemeriksaan diagnosis residual dari model yang sudah dibuat, residual yang dimaksud adalah residual yang bersifat *white noise* yang artinya antara masing – masing residual tidak ada yang berkorelasi dan berdistribusi normal. Pengujian asumsi ini menggunakan uji Ljung-Box dengan hipotesis:

$H_0: \rho_1 = \rho_2 = \dots = \rho_k = 0$ (residual *white noise*)

H_1 : minimal pada satu $\rho_k \neq 0$ (residual yang bukan *white noise*)

Dengan $k = 1, 2, \dots, K$

Statistik uji bisa dihitung dengan rumus 10:

$$Q = n(n + 2) \sum_{k=1}^K (n - k)^{-1} r_k'^2 \dots \dots \dots (10)$$

Keterangan:

r_k' = ACF Residual

K = banyaknya residual

k = lag ke- k

H_0 akan ditolak apabila $m = p + q$, dengan $m = p + q$ (orde ARMA) atau bisa juga menggunakan *p-value* < α yang berarti tidak memenuhi asumsi bahwa residual bersifat *white noise*.

e. Pemilihan Model Terbaik

Agar bisa menentukan model yang terbaik bisa menggunakan kriteria pemilihan berdasarkan residual dan error. Berikut merupakan kriteria pemilihan model berdasarkan residualnya:

i. Akaike Information Criteria (AIC)

$$AIC(M) = n \ln \sigma_a'^2 + 2M \dots \dots \dots (11)$$

Keterangan:

n^a = Banyak residual

M = Jumlah parameter di dalam model

$\sigma_a'^2$ = Ragam dari residual

ii. Schwartz's SBC

Kriteria Bayesian untuk pemilihan model terbaik bisa menggunakan rumus 12

$$SBC(M) = n \ln \sigma_a'^2 + M \ln n \dots \dots \dots (12)$$

2.2.6 Uji Hasil Peramalan

2.2.6.1. *Mean Absolute Percentage Error*

Hasil peramalan harus melewati uji kelayakkan. Ada berbagai macam metode untuk melakukan penilaian dari performa model, hal ini menggunakan error dari hasil peramalan sebagai dasarnya. Error $e_t(1)$, merupakan hasil kurang dari (y_t) dengan hasil peramalan

$(\hat{y}_t(t - 1))$ [28]

$$e_t(1) = y_t - \hat{y}_t(t - 1) \dots\dots\dots(13)$$

Saat ada banyak error yang dihasilkan, uji selanjutnya yang bisa dilakukan ialah dengan menghitung *Mean Error*, dengan rumus 14 [28]

$$ME = \frac{1}{n} \sum_{t=1}^n e_t(1) \dots\dots\dots(14)$$

Evaluasi akhir dari hasil peramalan yang dilakukan bisa menggunakan *Mean Absolute Percentage Error* (MAPE), *Mean Absolute Deviation* (MAD), *Mean Square Error* (MSE). MAPE menggunakan rata – rata nilai *Absolute Percentage Error* (APE) dengan merujuk pada rumus 15 [28]

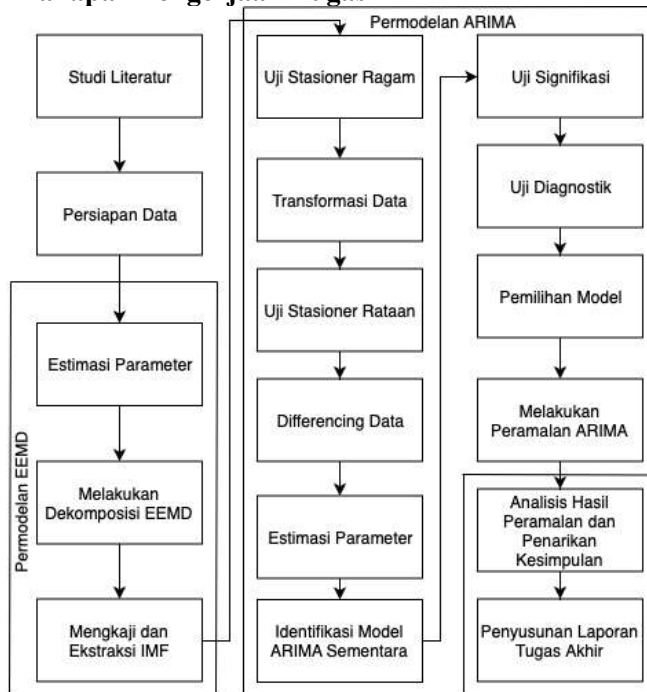
$$MAPE = \frac{1}{n} \sum_{t=1}^n \left(\left| \frac{e_t(1)}{y_t} \right| \times 100\% \right) \dots\dots\dots(15)$$

BAB III

METODOLOGI

Pada bab ini akan dijelaskan mengenai langkah-langkah yang digunakan dalam pengerjaan penelitian tugas akhir ini agar dapat diselesaikan secara sistematis, jelas, dan terarah. Bagian ini menyajikan tahapan pelaksanaan tugas akhir serta perinciannya dan jadwal kegiatan.

3.1 Tahapan Pengerjaan Tugas Akhir



Gambar 3.1 Tahapan Pengerjaan Tugas Akhir

3.2 Uraian Tahapan Pengerjaan Tugas Akhir

Berikut merupakan rincian – rincian dari masing – masing tahap pada pengerjaan tugas akhir ini.

3.2.1 Studi Literatur

Tahap studi literatur merupakan proses pengumpulan informasi dari sumber – sumber yang memiliki relevansi dan atau membantu dalam penyelesaian tugas akhir. Sumber yang dijadikan bahan untuk studi literatur antara lain: artikel pada jurnal, artikel pada konferensi, buku, laporan penelitian, dan lain – lain.

Sumber referensi yang digunakan adalah kecepatan angin serta pengaruhnya kepada beberapa hal yang ada pada Kabupaten Banyuwangi, seperti fenomena alam dan juga Pembangkit Listrik Tenaga Bayu. Sumber referensi utama lainnya adalah hasil penelitian dengan topik peramalan yang menggunakan pendekatan *Ensemble Empirical Mode Decomposition* dan *Autoregressive Integrated Moving Average*, pada sumber-sumber yang telah dibaca, metode lain yang biasanya digunakan untuk melakukan peramalan kecepatan angin memiliki kekurangan yang bisa diatasi dengan metode yang digunakan untuk penelitian tugas akhir ini, metode yang digunakan pada tugas akhir ini memiliki hasil yang bagus untuk data kecepatan angin daripada metode yang biasanya digunakan untuk meramalkan data ini.

3.2.2 Persiapan Data

Apabila sudah memiliki dasar pengetahuan (teori) untuk menunjang penelitian tugas akhir ini, tahap selanjutnya adalah mempersiapkan data. Tahap ini mencakup proses *data collecting* dan mengkaji data tersebut apakah sekiranya bisa digunakan atau tidak. Penentuan data cukup memiliki andil besar dalam penyelesaian tugas akhir ini dikarenakan data merupakan pendukung utama untuk menyelesaikan tugas akhir ini. Data yang digunakan adalah data kecepatan angin yang berhembus di Kota Banyuwangi, Jawa Timur dari tanggal 01 September 2017 sampai 30 September 2019, data yang diperoleh berasal dari stasiun BMKG Kota Banyuwangi.

3.2.3 Ensemble Empirical Mode Decomposition

Pada tahap dekomposisi menggunakan EEMD akan dilakukan analisis dan dekomposisi dengan mengolah data yang sudah diperoleh agar data memiliki pola sehingga memiliki hasil peramalan yang baik.

3.2.3.1. Estimasi Parameter

Untuk melakukan dekomposisi dan menghasilkan *output* yang baik, ada beberapa variabel yang bisa dimodifikasi sehingga mencapai titik optimalnya. Percobaan ini dilakukan secara *trial and error* sampai mendapatkan hasil yang optimal. Variabel yang bisa dimodifikasi adalah antara lain: jumlah IMF yang ingin dihasilkan, jumlah iterasi perpotongan data, dan jumlah iterasi percobaan untuk mendapatkan IMF.

3.2.3.2. Melakukan Dekomposisi

Dekomposisi dilakukan sesuai dengan parameter yang sudah ditentukan. Proses ini akan memecah data mentah yang tidak memiliki pola menjadi beberapa IMF yang berbentuk sinyal serta residu data. EEMD menambahkan *white noise* pada hasil IMF sehingga sinyal yang memiliki frekuensi rendah tetap tertangkap dan menambah kesensitifannya. Metode dekomposisi EEMD merupakan dekomposisi dengan tipe *additive*, apabila seluruh hasil dekomposisi dijumlahkan, maka akan terbentuk data aktual kecepatan angin kembali.

3.2.3.3. Mengkaji dan Ekstraksi IMF

Luaran dari proses EEMD adalah beberapa IMF dan sisa data yang tidak terpakai dari perpecahan ini akan menjadi residu. Seluruh IMF dan residu dikaji apakah sudah cocok atau belum dalam aspek pola, fluktuatif, dan telah mencakup frekuensi yang rendah juga. Hasil ini akan menjadi *input* untuk peramalan.

3.2.4 Permodelan ARIMA

Tahap ini merupakan langkah – langkah bagaimana semua IMF dan residu akan ditemukan model peramalan ARIMA

yang optimal, lalu melakukan peramalan untuk masing – masing *input* data tersebut.

3.2.4.1. Uji Stasioner Ragam

Untuk melakukan peramalan menggunakan ARIMA, data *input* harus diuji terlebih dahulu. Pengujian pertama adalah uji stasioner ragam, seluruh IMF dan residu yang diperoleh dari proses EEMD akan dilakukan pengujian stasioner ragam menggunakan metode Box-Cox, syarat lulus uji stasioner ragam yaitu memiliki *rounded value* sama dengan satu.

3.2.4.2. Transformasi Data

Data yang tidak lulus uji stasioner ragam maka data tersebut ditransformasi sampai memenuhi syarat uji tersebut. Transformasi dilakukan menggunakan metode transformasi Box-Cox. Transformasi dilakukan sampai data memiliki nilai $\lambda = 1$.

3.2.4.3. Uji Stasioner Rataan

Pengujian kedua merupakan uji stasioner terhadap rata-rata, pengujian ini bisa ditentukan dengan menggunakan metode *Augmented Dickey-Fuller* (ADF). Uji ini bisa dilakukan dengan pengamatan plot ACF dan plot PACF, jika 3 (tiga) lag pertama pada kedua plot tersebut melebihi garis nilai error. Apabila data belum memenuhi pengujian ini, maka akan dilakukan *differencing* data.

3.2.4.4. Differencing

Data yang tidak lulus pengujian stasioner rata-rata, harus diolah melalui proses *differencing* (penurunan) data. Proses *differencing* dilakukan sampai lolos uji stasioner rata-rata dengan mengamati plot ACF dan PACF, apabila masih tidak lulus uji stasioner rata-rata, maka dilakukan *differencing* lagi sampai syarat uji stasioner rata-rata telah terpenuhi.

3.2.4.5. Estimasi Parameter

Data yang sudah lulus uji stasioner terhadap rata-rata, ordo p , d , dan q harus ditemukan dengan melakukan estimasi parameter. Estimasi parameter dilakukan dengan cara pengamatan *plot* ACF (Auto Correlation Function) dan PACF (Partial Auto Correlation Function). Ordo ' p ' ditemukan dengan melihat *plot* PACF, ordo ' d ' merupakan jumlah *differencing* yang dilakukan, ordo ' q ' ditemukan dengan melihat *plot* ACF.

3.2.4.6. Identifikasi Model Sementara

Seluruh kandidat ordo yang didapatkan dari estimasi parameter akan menjadi model ARIMA sementara. Model yang ditentukan akan sesuai ordo yang didapatkan. Model AR hanya menggunakan nilai ' p ' dan atau ' d ', model MA hanya menggunakan nilai ' q ' dan atau ' d ', model ARMA hanya menggunakan nilai ' p ' dan ' q ', dan model ARIMA menggunakan nilai ' p ', ' d ', dan ' q '

3.2.4.7. Uji Signifikansi

Model ARIMA sementara harus lulus uji signifikansi. Sebuah model ARIMA dinilai lolos uji ini apabila nilai probabilitas dari ordo model tersebut ≤ 0.05 . Apabila tidak memenuhi uji ini, maka sebuah model dikatakan tidak layak untuk digunakan peramalan.

3.2.4.8. Uji Diagnostik

Uji diagnostik adalah pengujian apakah model ARIMA yang sudah dibuat masih mengindikasikan adanya sifat acak pada hasil dan tidak homogen. Apabila sudah tidak bersifat acak dan sudah homogen, model yang sudah dibuat bisa dilanjutkan ke tahap peramalan.

3.2.4.9. Pemilihan Model

Dari beberapa model ARIMA sementara yang telah lulus pengujian signifikansi dan diagnostik, dipilih model yang memiliki hasil yang optimal guna melakukan peramalan dari data kecepatan angin.

3.2.4.10. Peramalan ARIMA

Data set yang digunakan memiliki rentang waktu dari 2017-2019. Peramalan yang dilakukan memiliki rentang 2019-2020. Data *input* yang digunakan untuk peramalan ini merupakan IMF dan residu dari hasil dekomposisi menggunakan EEMD. Seluruh hasil peramalan IMF dan residu akan dijadikan satu (total), total inilah yang akan menjadi hasil akhir dari peramalan ini.

3.2.5. Analisis Hasil Peramalan dan Penarikan Kesimpulan

Menganalisa hasil peramalan yang sudah dilakukan. Analisa ini mencakup perhitungan MAE dan MAPE. Hasil dari kedua perhitungan tersebut akan dijadikan dasar untuk melakukan penarikan kesimpulan. *Error* didapatkan dari selisih data aktual dengan hasil peramalan yang telah digabungkan.

3.2.6. Penyusunan Laporan Tugas Akhir

Tahapan terakhir dari penelitian tugas akhir ini adalah pembuatannya laporan pendokumentasian seluruh hal yang berkaitan dengan penelitian tugas akhir ini. Laporan Tugas Akhir ini mencakup:

a. **BAB I PENDAHULUAN**

Pada BAB I ada perincian tentang latar belakang masalah, rumusan masalah, tujuan dari penelitian, manfaat dari penelitian, dan relevansi penelitian tugas akhir dengan departemen Sistem Informasi.

b. **BAB II Tinjauan Pustaka**

BAB II berisikan tentang penelitian yang pernah dilakukan yang memiliki keterkaitan dengan penelitian tugas akhir ini. Pada BAB II akan dijelaskan seluruh dasar teori yang digunakan untuk melakukan penelitian pada tugas akhir ini.

c. **BAB III METODOLOGI**

BAB III berisikan tentang tata cara (tahapan-tahapan) yang dilakukan untuk bisa terselesaikannya penelitian tugas akhir ini.

d. BAB IV Perancangan

BAB IV akan dirincikan rancangan dari penelitian tugas akhir dalam pembuatan model peramalan. Pada BAB IV juga akan dijelaskan gambaran data, *input data*, *output data*, dan cara-cara pengolahan data.

e. BAB V Implementasi

BAB V akan menjelaskan seluruh kegiatan pengerjaan penelitian tugas akhir ini, serta pembuatan model dari metode yang sudah ditentukan untuk menjadi bahan peramalan.

f. BAB VI Hasil dan Pembahasan

BAB VI akan dijelaskan hasil dan pembahasan dari *output* yang didapatkan dari implementasi. Rincian hasil yang akan ditulis pada BAB VI adalah hasil dari uji coba model, validasi model, dan hasil peramalan untuk periode yang akan datang sesuai pada batasan masalah

g. BAB VII Kesimpulan dan Saran

BAB VII akan dijelaskan mengenai kesimpulan yang ditarik dari penelitian tugas akhir ini dan saran yang bisa dilakukan untuk pengembangan lebih lanjut yang bisa dilakukan dari penelitian tugas akhir ini.

Halaman ini sengaja dikosongkan

BAB IV

PERANCANGAN

Pada bab ini dijelaskan langkah – langkah untuk merancang proses pembuatan penelitian ini. Perancangan dilakukan untuk memandu implementasi dari penelitian yang dilakukan sesuai dengan metodologi yang sudah dipilih.

4.1 Persiapan Data

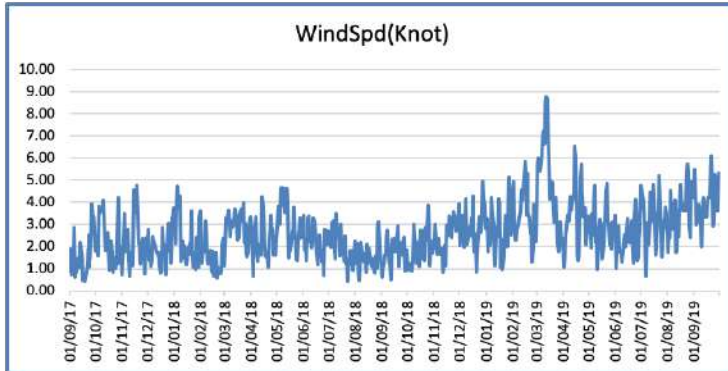
Persiapan data diawali dengan mengakuisisi data yang digunakan pada penelitian ini. Data didapatkan dari kantor BMKG Cab. Banyuwangi yang terletak pada Jl. Jaksa Agung Suprpto, Kec. Banyuwangi, Kabupaten Banyuwangi. Data yang diperoleh merupakan file *Microsoft Excel* dengan ekstensi *.xls*. Data yang diberikan merupakan kecepatan angin dari tanggal 01 September 2017 sampai 30 September 2019 dengan periode per-hari, data ini memiliki 760 baris dan dua kolom. Penjelasan kolom dari data yang digunakan dijelaskan pada Tabel 4.1. Serta, contoh dari dataset ini ada pada tabel 4.2 dan plot dari dataset ini ada pada gambar 4.1.

Tabel 4.1 Tabel Deskripsi Kolom Data

No	Nama Kolom	Deskripsi
1	Date	Tanggal pengambilan data
2	WindSpd(knot)	Kecepatan angin dalam satuan <i>knot</i> .

Tabel 4.2 Tabel Contoh Data

Date	WindSpd (Knot)
01/09/17	0.84
02/09/17	1.89
03/09/17	0.75
04/09/17	0.77
05/09/17	1.36
06/09/17	2.85
07/09/17	0.61
08/09/17	1.30
09/09/17	0.87



Gambar 4.1 Plot Kecepatan Angin

4.2 Dekomposisi Data

Dataset yang digunakan pada penelitian ini memiliki variasi acak (*Random Variance*) sehingga diperlukan dekomposisi data agar hasil dari penelitian ini bisa maksimal. Metode dekomposisi yang digunakan adalah EEMD (*Ensemble Empirical Mode Decomposition*).

4.2.1 Ensemble Empirical Mode Decomposition

Ensemble Empirical Mode Decomposition (EEMD) merupakan metode dekomposisi data yang merubah data asli menjadi sinyal osilasi yang serta diberi *white noise* untuk mengurangi *mode mixing* dari masing-masing IMF (*Intrinsic Mode Function*) yang dihasilkan. Penelitian ini menggunakan perangkat lunak R Studio untuk melakukan EEMD.

4.2.1.1 Parameter EEMD

Pada perangkat lunak R Studio, ada beberapa parameter yang harus diperhatikan agar IMF yang dihasilkan dari dekomposisi memiliki hasil yang bagus. Parameter dijelaskan pada tabel 4.3.

Tabel 4.3 Deskripsi Parameter EEMD

No	Nama Parameter	Deskripsi
1	Num_imfs	Jumlah dari IMF yang ingin dihasilkan (termasuk residual)

No	Nama Parameter	Deskripsi
2	Ensemble_size	Jumlah salinan input data yang ingin digunakan
3	Num_siftings	Jumlah penyaringan input data sebagai kriteria untuk memberhentikan iterasi

4.2.1.2 Melakukan Dekomposisi

Dekomposisi menggunakan metode EEMD dilakukan dengan software R Studio dengan fungsi “*eemd(x, ..)*” pada *package* “*Rlibeemd*”. Data yang digunakan merupakan data aktual dengan 760 baris *time series* data dengan periode per-hari. Fungsi *eemd* menghasilkan *time series object* yang memiliki nilai seluruh IMF yang dihasilkan dengan jumlah kolom sesuai dari jumlah IMF.

Tabel 4.4 Skenario Model EEMD

Nomor Skenario	Parameter		
	Num_imfs	Ensemble_size	Num_Sifting
1	2	50	25
2	2	150	25
3	2	250	25
4	2	50	50
5	2	150	50
6	2	250	50
7	3	50	25
...
37	8	50	25
38	8	150	25
39	8	250	25
40	8	50	50
41	8	150	50

Nomor Skenario	Parameter		
	Num_imfs	Ensemble_size	Num_Sifting
42	8	250	50
43	9	50	25
44	9	150	25
45	9	250	25
46	9	50	50
47	9	150	50
48	9	250	50

4.2.1.3 Pemilihan Model EEMD

Hasil dekomposisi dikaji dengan cara melihat *error* yang dihasilkan oleh parameter yang sudah dibuat. Karena EEMD menambahkan *white noise* yang sebenarnya merubah sedikit data asli namun tidak begitu signifikan demi menghindari terjadinya *mode mixing* pada data sinyal (IMF) yang dihasilkan. Penentuan model parameter *eemd* yang digunakan merupakan model yang memiliki MAPE terkecil dari hasil jumlah seluruh IMF serta Residual yang dibandingkan dengan data aktual. Jumlah IMF yang ditentukan akan mempengaruhi karakteristik hasil residualnya, dengan melihat *plot* residual yang dihasilkan model yang lurus harus memiliki residual dengan karakteristik *non-seasonal linear trend*. Penentuan parameter jumlah *Intrinsic Mode Function* yang ingin ditentukan dengan rumus " $\log_2(x)$ " dimana x merupakan jumlah baris dari dataset.

4.3 Permodelan ARIMA

Tahap ini akan menentukan model ARIMA yang terbaik menggunakan data dari seluruh IMF yang telah dihasilkan dari proses EEMD. Berikut merupakan tahapan dalam pembentukan model terbaik ARIMA.

4.3.1 *Preprocessing Data Subseries*

Data yang menjadi masukan untuk melakukan peramalan ARIMA merupakan data dari masing-masing IMF yang telah dihasilkan. Pembagian data untuk data *training* dan data *testing* memiliki proporsi 90% untuk data *training* (684 baris) dan 10% (76 baris) untuk data *testing*.

4.3.2 Uji Stasioneritas Ragam

Data yang digunakan untuk menjadi *input* peramalan menggunakan ARIMA harus stasioner dalam ragam. Stasioner dalam ragam ditentukan dengan nilai *lambda* sama dengan satu (1). Untuk mencari *lambda*, pada *software* Minitab bisa menggunakan fungsi *Box Cox Transformation*. Uji ini dilakukan pada data *training* yang diperoleh dari masing-masing IMF.

4.3.3 Transformasi Data

Data yang tidak memiliki nilai *lambda* atau *rounded value* sama dengan satu harus melewati transformasi *box cox* terlebih dahulu. Transformasi *Box Cox* bisa dilakukan pada *software* Minitab. Setelah pengecekan stasioner ragam dari langkah 4.3.2, fungsi tersebut juga bisa langsung memberikan hasil dari transformasi yang dibutuhkan sampai data memiliki *lambda* sama dengan satu (1).

4.3.4 Uji Stasioneritas Rataan

Data yang ingin dijadikan *input* untuk peramalan ARIMA harus berfluktuatif diantara rata-rata dari *time series* tersebut. Pengujian ini bisa dilakukan pada *software* Eviews dengan fungsi *unit root test* menggunakan tipe *Augmented Dickey Fuller*. Fungsi tersebut akan memberikan nilai *t-statistic*, *critical values*, dan probabilitas. Data dikatakan lolos uji ini apabila $|t\text{-statistic}| \geq |Critical\ Values|$ serta probabilitas ≤ 0.05

4.3.5 *Differencing Data*

Data yang tidak lolos uji stasioneritas rata-rata harus melewati proses *differencing*. Proses ini dilakukan untuk menghindari

trend serta efek *seasonal* yang dimiliki oleh data yang digunakan. *Differencing* bisa dilakukan pada *software* Eviews dengan fungsi *Unit Root Test*. Jika *differencing* tingkat pertama masih tidak stasioner dalam rata-rata, maka dilakukan *differencing* kembali.

4.3.6 Estimasi Parameter

Data yang sudah stasioner dalam ragam maupun variasi bisa dijadikan sebagai *input* data untuk proses peramalan menggunakan ARIMA. Model ARIMA yang digunakan untuk peramalan bisa ditentukan dengan mengamati plot ACF dan PACF, dengan nilai ordo AR melihat dari signifikansi lag pada plot PACF dan nilai ordo MA melihat dari signifikansi lag pada plot ACF. Untuk melihat plot PACF dan ACF bisa menggunakan *software* Eviews dengan fungsi *correlogram*.

4.3.7 Identifikasi Model ARIMA Sementara

Ordo yang didapatkan dari pengamatan plot ACF dan PACF akan menghasilkan model sementara. Nilai ordo 'p' didapatkan dari pengamatan plot PACF yang berarti model yang digunakan adalah AR. Nilai ordo 'q' didapatkan dari pengamatan plot ACF yang berarti model yang digunakan adalah MA. Serta gabungan dari ordo 'p' dan 'q' yang berarti model yang digunakan adalah ARMA.

4.3.8 Uji Signifikansi

Model sementara yang telah ditentukan harus melalui uji signifikansi agar bisa digunakan untuk peramalan. Pengujian ini dilakukan dengan menggunakan fungsi *estimate equation* menggunakan *software* Eviews. Model dinyatakan lulus uji ini apabila probabilitas dari seluruh ordo model tersebut $\leq 0,05$ serta $|t\text{-statistic}|$ seluruh variabel $> |T\text{-Table}|$

4.3.9 Uji Diagnostik

Uji diagnostik parameter dilakukan menggunakan *software* Eviews. Untuk menguji keacakan model dilakukan dengan fungsi *CorrelogramQ Statistic*. Untuk menguji homogenitas

model dilakukan menggunakan fungsi Correlogram Squared Residual. Model dapat dikatakan lolos uji keacakan dan uji homogenitas apabila memiliki nilai probabilitas $\geq 0,05$.

4.3.10 Pemilihan Model ARIMA

Model yang dinyatakan lolos uji signifikansi dan diagnostik harus dipilah lagi dengan cara melihat nilai SIC (*Schwarz Information Criteria*) dan nilai AIC (*Akaike Information Criteria*). Model dengan nilai SIC dan AIC paling kecil merupakan model yang dipakai untuk peramalan ARIMA. Untuk memilih model yang sudah lulus uji signifikan dan diagnostik bisa menggunakan fungsi *estimation equation* pada *software* Eviews

4.3.11 Peramalan ARIMA

Peramalan ARIMA untuk masing-masing *subseries* dengan model yang telah ditentukan bisa dilakukan menggunakan *software* Eviews dengan fungsi *forecast static*.

4.3.12 Detransformasi

Apabila pada uji stasioner rataan terjadi transformasi. Maka data hasil peramalan ARIMA masing-masing *subseries* harus dilakukan detransformasi terlebih dahulu. Langkah ini dilakukan pada *Microsoft excel* dengan memasukan *invert equation* dari transformasi yang telah dilakukan.

4.4 Superposition

Superposition merupakan proses penggabungan seluruh hasil peramalan IMF serta residual untuk data *training* maupun data *testing*. Hasil dari penggabungan merupakan hasil terakhir peramalan dan menjadi data input untuk melakukan analisa hasil peramalan.

4.5 Analisa Hasil Peramalan

Hasil rekomposisi dibandingkan dengan data aktual kecepatan angin. Analisa yang dilakukan merupakan perhitungan MAE dan MAPE. Hasil dengan MAE dan MAPE yang terkecil merupakan model yang terbaik. Langkah ini bisa dilakukan

menggunakan *software* Microsoft Excel dengan menghitung *Absolute Error* yang lalu dibandingkan dengan data aktual, lalu dicari rata-ratanya.

4.6 Peramalan Periode Mendatang

Peramalan masa mendatang dilakukan menggunakan model ARIMA yang terpilih. Peramalan periode mendatang akan dilakukan sebanyak 30 periode mendatang dengan data aktual merupakan data hasil peramalan untuk data *training* dan data *testing*.

BAB V

IMPLEMENTASI

Pada bab ini dijelaskan proses-proses dari langkah-langkah pelaksanaan penelitian yang telah dijelaskan rancangannya pada BAB IV.

5.1 Persiapan Data

Persiapan data dimulai dengan pengumpulan data. Seperti yang sudah dijelaskan pada sub bab 4.1, data diperoleh dari kantor BMKG cabang Kabupaten Banyuwangi. Data yang digunakan untuk penelitian ini memiliki periode per-hari dengan data total selama dua (2) tahun. Apabila data dilihat secara garis besar, tidak terlihat adanya siklus ataupun trend sehingga tipe dari data yang digunakan merupakan variasi acak (*random*). Plot data ini bisa dilihat pada Gambar 4.1. Data tidak memiliki nilai 0 ataupun *null* karena data selalu dicatat secara aktif setiap hari-nya. Proses pertama pada penelitian ini adalah dekomposisi menggunakan metode EEMD yang dilakukan pada *software* R Studio.

5.2 Proses EEMD

Proses pertama dari penelitian ini adalah dekomposisi data asli menjadi beberapa data sinyal yang dilakukan menggunakan metode EEMD.

5.2.1 Dekomposisi Data Asli

Proses dekomposisi menggunakan metode *Ensemble Empirical Mode Decomposition* dilakukan dengan *software* R Studio dengan fungsi “*eemd*” yang ada pada *package* “*Rlibeemd*”. Parameter dari fungsi ini sudah dijelaskan pada Tabel 4.3. Skrip 5.1 merupakan beberapa *command line* yang digunakan untuk melakukan dekomposisi menggunakan metode EEMD, dengan nilai yang berubah adalah variabel Decomposed ke-*n* serta masing-masing parameter yang digunakan sesuai dengan scenario yang telah dibuat pada tabel 4.4. Variabel Decomposed-*n* dengan *n* merupakan jumlah

skenario adalah deklarasi variabel baru untuk menyimpan data hasil proses EEMD, variabel `DataAktual` merupakan data asli kecepatan angin tanpa tanggal.

```
Decomposed1 <- eemd(DataAktual, num_imfs = 2, ensemble_size =
50, num_siftings = 25)
Decomposed2 <- eemd(DataAktual, num_imfs = 2, ensemble_size =
150, num_siftings = 25)
Decomposed3 <- eemd(DataAktual, num_imfs = 2, ensemble_size =
250, num_siftings = 25)
Decomposed4 <- eemd(DataAktual, num_imfs = 2, ensemble_size =
50, num_siftings = 50)
Decomposed5 <- eemd(DataAktual, num_imfs = 2, ensemble_size =
150, num_siftings = 50)
Decomposed6 <- eemd(DataAktual, num_imfs = 2, ensemble_size =
250, num_siftings = 50)
...
Decomposed45 <- eemd(DataAktual, num_imfs = 9, ensemble_size
= 250, num_siftings = 25)
Decomposed46 <- eemd(DataAktual, num_imfs = 9, ensemble_size
= 50, num_siftings = 50)
Decomposed47 <- eemd(DataAktual, num_imfs = 9, ensemble_size
= 150, num_siftings = 50)
Decomposed48 <- eemd(DataAktual, num_imfs = 9, ensemble_size
= 250, num_siftings = 50)
```

Skrip 5.1 Dekomposisi Masing-Masing Skenario

5.2.2 Menentukan Model EEMD

Karena dekomposisi menggunakan metode EEMD, berarti ada *white noise* yang ditambahkan untuk menghindari *mode mixing* pada masing-masing IMF. Maka dilakukan perhitungan MAPE dilakukan menggunakan *software* Rstudio sesuai skrip 5.3. Variabel `DataAktual` pada skrip 5.3 adalah data aktual kecepatan angin tanpa tanggal, variabel *Decomposed-n* merupakan hasil EEMD dengan *n* adalah jumlah skenario, fungsi *rowSums* merupakan fungsi untuk mengagregasikan seluruh kolom menurut baris.


```

mape(DataAktual, rowSums(Decomposed1))
mape(DataAktual, rowSums(Decomposed2))
mape(DataAktual, rowSums(Decomposed3))
mape(DataAktual, rowSums(Decomposed4))
mape(DataAktual, rowSums(Decomposed5))
mape(DataAktual, rowSums(Decomposed6))

...

mape(DataAktual, rowSums(Decomposed43))
mape(DataAktual, rowSums(Decomposed44))
mape(DataAktual, rowSums(Decomposed45))
mape(DataAktual, rowSums(Decomposed46))
mape(DataAktual, rowSums(Decomposed47))
mape(DataAktual, rowSums(Decomposed48))

```

Skrip 5.2 Menghitung MAPE Data Aktual Dengan Agregasi Hasil EEMD

Selain penentuan MAPE paling kecil, model yang digunakan juga ditentukan dengan karakteristik *plot* dari residual masing-masing skenario yang memiliki karakteristik *non-seasonal linear train*. Skrip 5.3 merupakan *command line* untuk menampilkan *plot* dari residual masing-masing model. Fungsi *plot(x)* berguna untuk menampilkan grafik *x*, fungsi *ncol(x)* merupakan jumlah kolom pada objek *x*, karena kolom residual selalu berada pada kolom yang terakhir, maka dari itu menggunakan fungsi *ncol(x)*.

```

plot(Decomposed43[,ncol(Decomposed43)])
plot(Decomposed37[,ncol(Decomposed37)])
plot(Decomposed31[,ncol(Decomposed31)])
plot(Decomposed25[,ncol(Decomposed25)])
plot(Decomposed19[,ncol(Decomposed19)])
plot(Decomposed13[,ncol(Decomposed13)])
plot(Decomposed7[,ncol(Decomposed7)])
plot(Decomposed1[,ncol(Decomposed1)])

```

Skrip 5.3 Penampilan Plot Residual

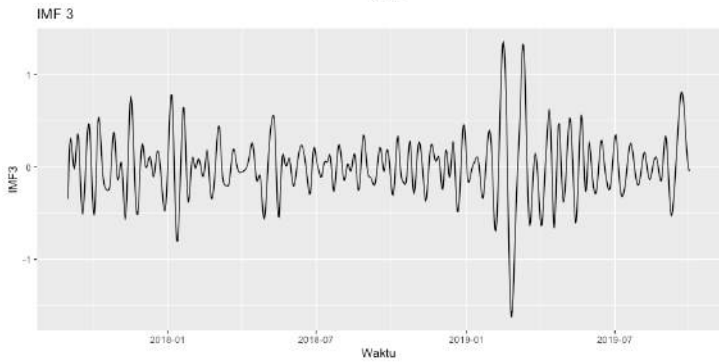
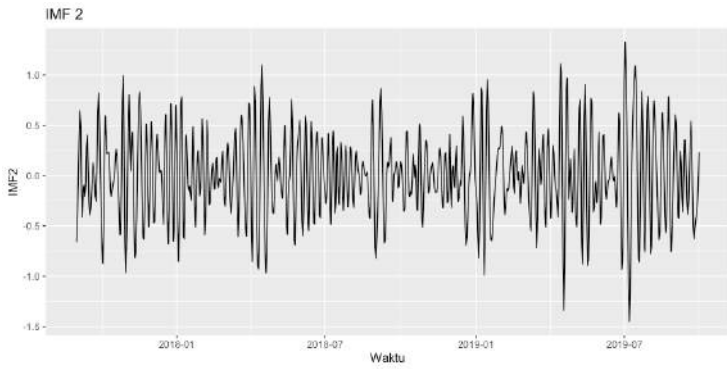
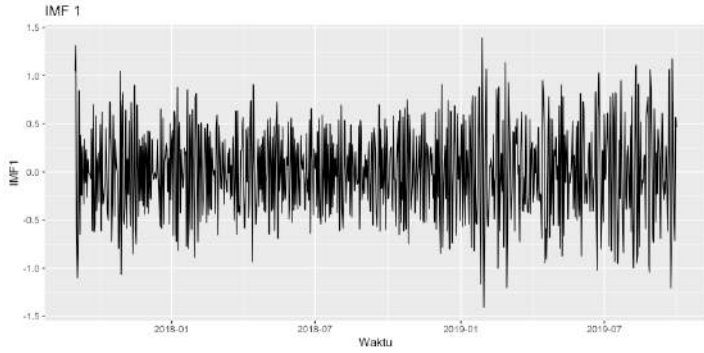
Sesuai yang terlihat pada skrip 5.3, bahwa residual yang ditampilkan grafiknya hanya skenario berkelipatan 6, hal ini dilakukan karena *plot* dari residual hanya berpengaruh kepada parameter *num_imfs*.

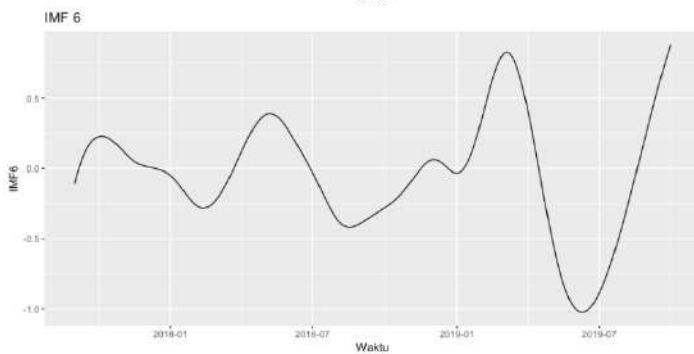
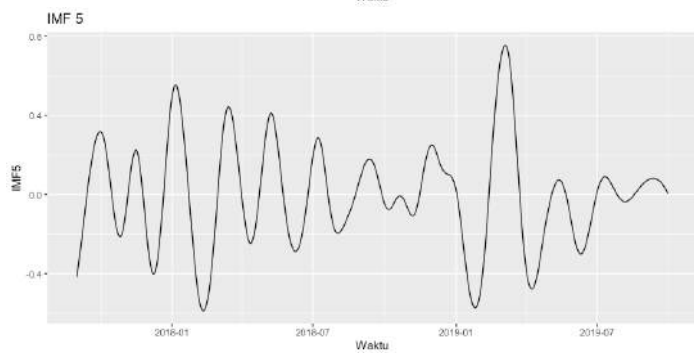
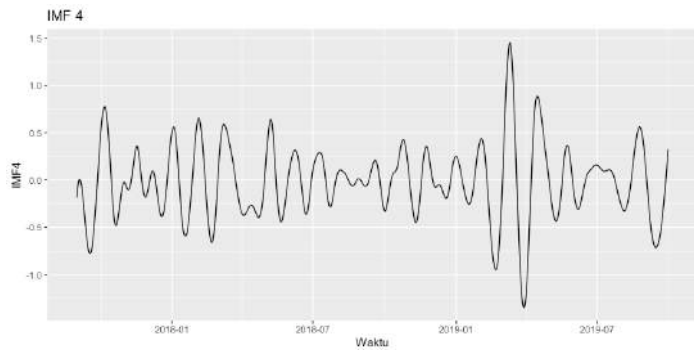
Model yang digunakan untuk dijadikan data masukkan peramalan memiliki dua kandidat, yaitu skenario ke-45 dan ke-48, keduanya memenuhi syarat yang sudah ditentukan. Maka dilakukan penentuan yang ketiga, yaitu memilih model dengan rata-rata standar deviasi dari seluruh sinyal yang dihasilkan model tersebut, Skrip 5.4 merupakan cara melakukan langkah ini.

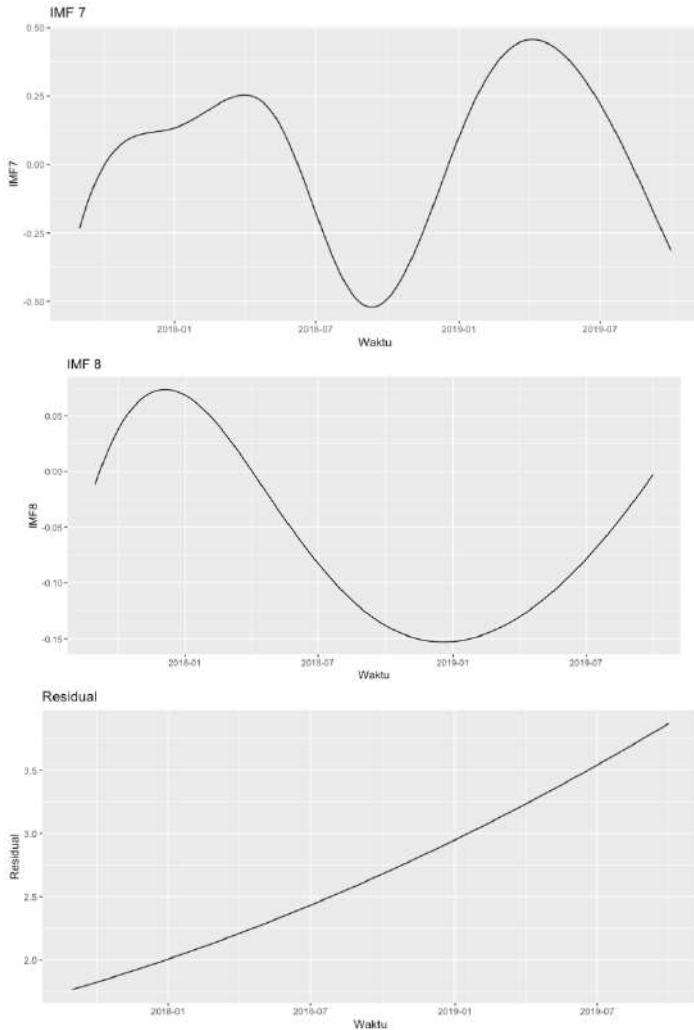
```
x <- 1
StdDevDecomposed45 <- numeric(length =
ncol(Decomposed45))
while(x<ncol(Decomposed45)+1){
  a <- sd(Decomposed45[,x])
  StdDevDecomposed45[x] <- as.numeric(a)
  x=x+1
}
x <- 1
StdDevDecomposed48 <- numeric(length =
ncol(Decomposed48))
while(x<ncol(Decomposed48)+1){
  a <- sd(Decomposed48[,x])
  StdDevDecomposed48[x] <- as.numeric(a)
  x=x+1
}
mean(StdDevDecomposed45)
mean(StdDevDecomposed48)
```

Skrip 5.4 Perhitungan Rata Rata Standar Deviasi

Variabel StdDevDecomposed45 dan StdDevDecomposed48 yang dilanjutkan dengan fungsi *numeric* merupakan deklarasi variabel baru berbentuk vektor bertipe *number*. Variabel *a* ke-*n* merupakan standard deviasi dari masing-masing IMF ke-*n*. Dari hasil ini, IMF dan residual yang digunakan sebagai data masukkan untuk melakukan peramalan ARIMA adalah hasil EEMD dengan skenario ke-45. Gambar 5.1 merupakan grafik masing-masing IMF serta residual.







Gambar 5.1 Plot Hasil Dekomposisi

Pada Gambar 5.1 terlihat bahwa data hasil dekomposisi memiliki karakteristik yang lebih stasioner jika dibandingkan dengan data asli. Masing-masing IMF memiliki perbedaan *frequency*, hal ini diketahui dengan perbedaan *span* atau jangkauan dari fluktuasi pada masing-masing IMF. IMF 1

memiliki *span* yang lebih besar apabila dibandingkan dengan IMF2, IMF2 memiliki *span* yang lebih besar apabila dibandingkan dengan IMF3, dan selanjutnya sampai IMF 8. Plot residual terlihat memiliki karakteristik *non-seasonal linear trend* sehingga model sudah bisa digunakan untuk menjadi data masukan untuk peramalan ARIMA.

5.3 Permodelan ARIMA

5.3.1 *Data Preprocessing*

Untuk melakukan uji stasioner ragam, seluruh data harus memiliki nilai lebih dari nol (0), untuk bisa melakukan pengujian ini, IMF 1 sampai IMF 8 harus melalui transformasi *reverse scoring* transformasi ini merujuk kepada rumus 16. Data residual tidak melalui transformasi ini karena seluruh nilai lebih dari nol (0).

$$\text{Nilai IMF } n \text{ ke } - t = \text{Nilai Maksimum IMF } n - \text{Nilai IMF } n \text{ ke } - t + 1 \dots(16)$$

```

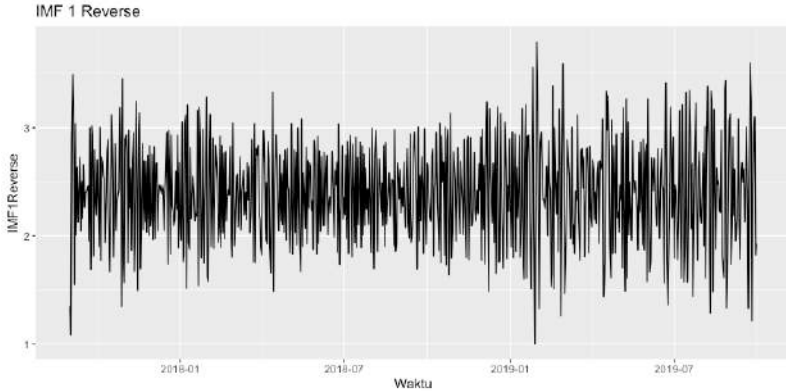
IMF1Reverse <- dfDecomposed45$IMF1
x <- 1
while (x<nrow(dfDecomposed45)+1){
  IMF1Reverse[x] <- max(dfDecomposed45$IMF1) - IMF1Reverse[x] +
  1
  x=x+1
}
IMF2Reverse <- dfDecomposed45$IMF2
x <- 1
while (x<nrow(dfDecomposed45)+1){
  IMF2Reverse[x] <- max(dfDecomposed45$IMF2) - IMF2Reverse[x] +
  1
  x=x+1
}
...
IMF8Reverse <- dfDecomposed45$IMF8
x <- 1
while (x<nrow(dfDecomposed45)+1){
  IMF8Reverse[x] <- max(dfDecomposed45$IMF8) - IMF8Reverse[x] +
  1
  x=x+1
}

```

Skrip 5.5 Transformasi Reverse Scoring

Skrip 5.5 merupakan *command line* dari transformasi *reverse scoring* menggunakan *software* R Studio. IMF_nReverse merupakan variabel yang berisi nilai dari hasil transformasi IMF_n. Gambar 5.2 merupakan grafik IMF 1 yang telah melalui transformasi *reverse scoring*.

Proporsi data yang digunakan adalah 90% (784 baris) untuk data *training* dan 10% (76 baris) untuk data *testing*, dimana data ini diambil dari data masing-masing IMF dan residual yang telah melalui transformasi reverse score.



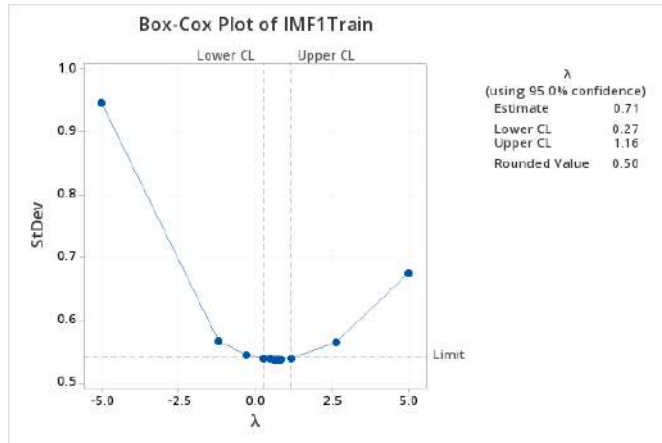
Gambar 5.2 Plot IMF 1 Hasil Reverse Score

Pada gambar 5.1 terlihat bahwa nilai minimum dari hasil transformasi IMF 1 adalah satu (1), karakteristik ini juga dimiliki oleh seluruh hasil transformasi pada masing-masing IMF. Sehingga dengan hasil transformasi ini, data bisa dilanjutkan kepada proses uji stasioner ragam.

5.3.2 Uji Stasioner Ragam

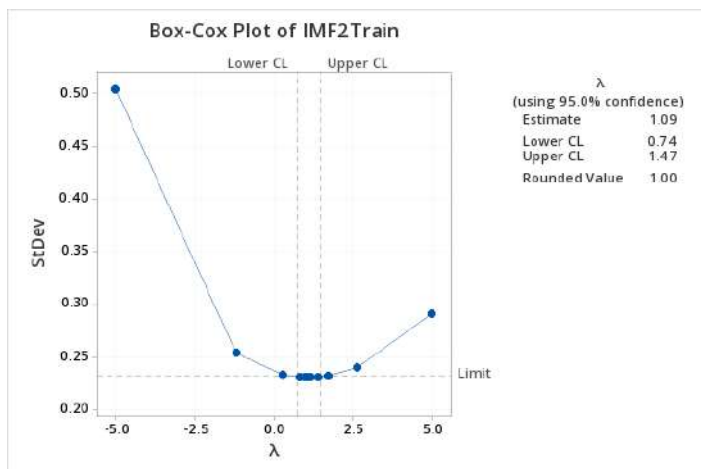
Uji stasioner dalam ragam dilakukan menggunakan fungsi Transformasi Box Cox pada *software* Minitab. Uji stasioner ragam diawali dengan pencarian nilai lambda *rounded value* pada *software* Minitab.

Uji stasioner ragam IMF_n dilakukan dengan menggunakan proporsi data *training* yang telah dilakukan transformasi *reverse scoring*. Gambar 5.3 merupakan hasil dari pengujian stasioner ragam IMF1 menggunakan fungsi “Box Cox Transformation” pada *software* Minitab.



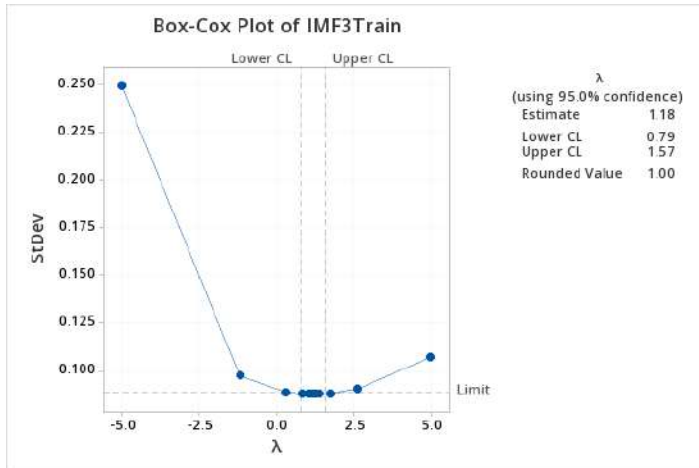
Gambar 5.3 Hasil Uji Stasioner Ragam IMF1Train

Pada gambar 5.3 terlihat bahwa data yang digunakan belum memiliki λ sama dengan satu (1). Maka dari itu dataset IMF1Train harus melalui transformasi data terlebih dahulu.



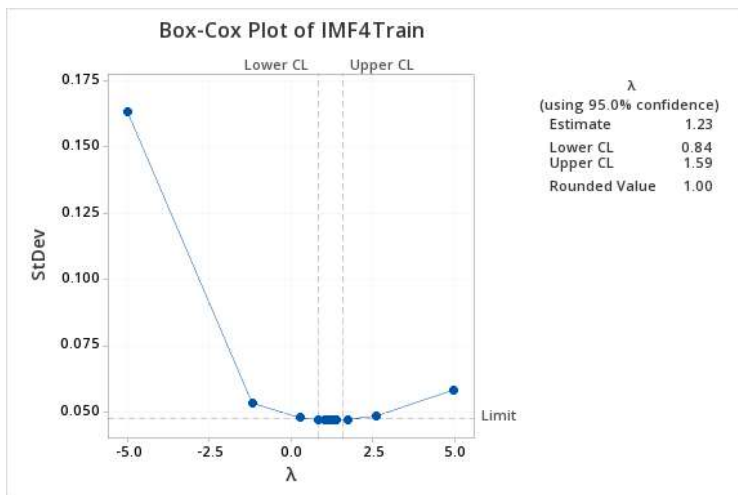
Gambar 5.4 Hasil Uji Stasioner Ragam IMF2Train

Pada Gambar 5.4 terlihat bahwa nilai λ dari dataset ini memiliki rounded value sama dengan satu (1), maka IMF2Train telah lulus uji stasioner ragam.



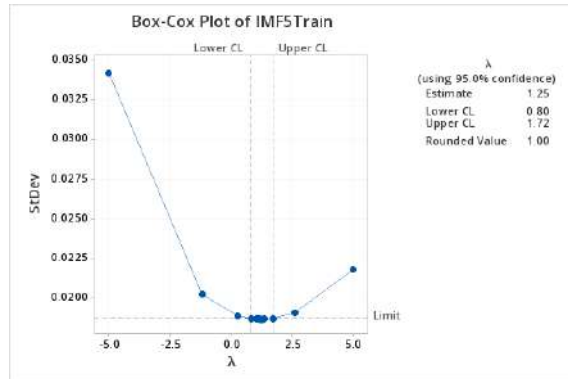
Gambar 5.5 Hasil Uji Stasioner Ragam IMF3Train

Pada Gambar 5.5 terlihat bahwa nilai lambda dari dataset IMF3Train sudah sama dengan satu (1), maka dataset IMF3train telah lolos uji stasioner dalam ragam.



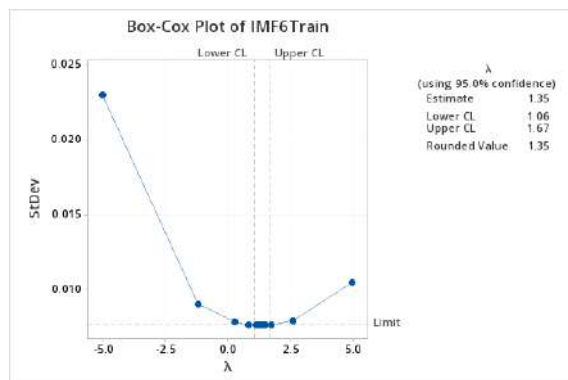
Gambar 5.6 Hasil Uji Stasioner Ragam IMF4Train

Pada Gambar 5.6 terlihat lambda untuk dataset IMF4Train memiliki nilai satu (1), maka dataset IMF4Train telah lolos uji stasioner dalam ragam.



Gambar 5.7 Hasil Uji Stasioner Ragam IMF5Train

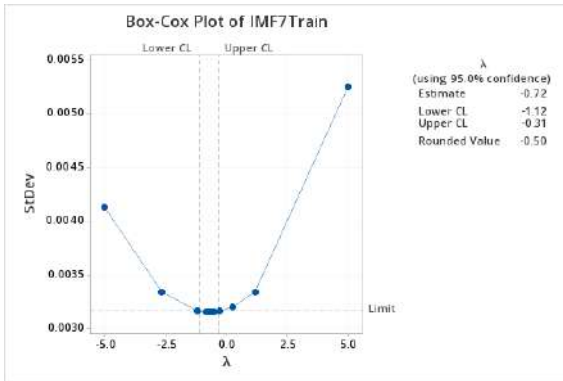
Gambar 5.7 merupakan hasil uji stasioner ragam untuk dataset IMF5Train, terlihat pada Gambar 5.7 bahwa nilai lambda sudah sama dengan satu, berarti dataset IMF5Train telah stasioner dalam ragam.



Gambar 5.8 Hasil Uji Stasioner Ragam IMF6Train

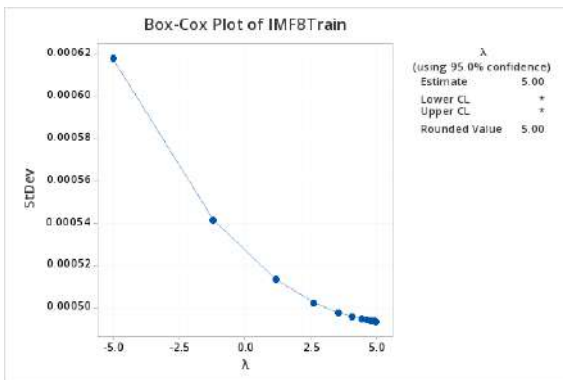
Gambar 5.8 merupakan hasil uji stasioner ragam untuk dataset IMF6Train, terlihat pada Gambar 5.8 bahwa nilai lambda tidak

sama dengan satu, berarti dataset IMF6Train harus melalui proses transformasi terlebih dahulu.



Gambar 5.9 Hasil Uji Stasioner Ragam IMF7Train

Gambar 5.9 adalah hasil uji stasioner ragam untuk dataset IMF7Train, terlihat bahwa nilai lambda belum sama dengan satu, yang berarti dataset IMF7Train harus melalui proses transformasi terlebih dahulu.



Gambar 5.10 Hasil Uji Stasioner Ragam IMF8Train

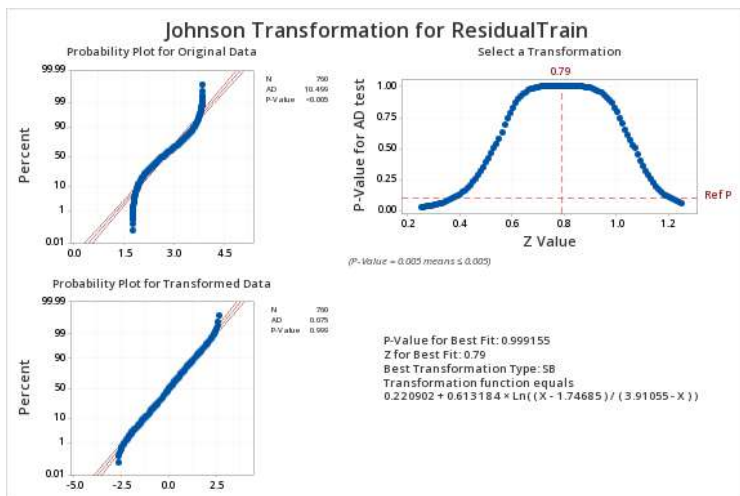
Gambar 5.10 merupakan hasil uji stasioner ragam untuk dataset IMF8Train, terlihat bahwa nilai lambda belum samadengan satu, yang berarti dataset IMF8Train harus

melalui proses transformasi terlebih dahulu. Tabel 5.1 merupakan akumulasi dari hasil uji stasioner ragam.

Tabel 5.1 Hasil Uji Stasioner Ragam

No	Data	Hasil Uji Stasioner Ragam
1	IMF1Train	Tidak Lolos
2	IMF2Train	Lolos
3	IMF3Train	Lolos
4	IMF4Train	Lolos
5	IMF5Train	Lolos
6	IMF6Train	Tidak Lolos
7	IMF7Train	Tidak Lolos
8	IMF8Train	Tidak Lolos

Untuk dataset ResidualTrain, transformasi Box Cox dinilai tidak bisa mengatasinya karena dataset ini memiliki karakteristik *non-seasonal linear trend*, sehingga untuk dataset ini, uji stasioner dalam ragam diberlakukan menggunakan metode *johnson transformation*.



Gambar 5.11 Hasil Uji Stasioner Ragam Residual

Gambar 5.11 merupakan hasil uji stasioner dalam ragam menggunakan *johnson transformation*. Nilai utama pada pada

Gambar 5.11 adalah *p-value* pada *probability plot for original data* yang memiliki nilai < 0.005 , yang menunjukkan bahwa data belum stasioner dalam ragam. *P-value* pada *probability plot for transformed data* memiliki nilai 0.999 yang berarti data yang telah ditransformasi telah stasioner dalam ragam.

5.3.3 Transformasi Data

Tabel 5.1 menunjukkan bahwa ada beberapa data *train* yang belum stasioner dalam ragam. Untuk membuat data stasioner dalam ragam, maka dilakukan transformasi dengan masing-masing transformasi tercantum pada tabel 5.2 dan untuk transformasi dataset ResidualTrain tercantum pada Tabel 5.3.

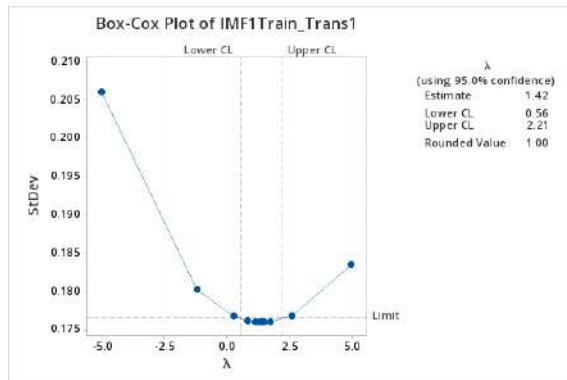
Tabel 5.2 Rumus Transformasi Box Cox

No	Data	Nilai Lambda	Rumus Transformasi
1	IMF1Train	0,5	$IMF1Train_{ke-n}$ $= \sqrt{IMF1Train_{ke-n}}$
2	IMF6Train	1,35	$IMF6Train_{ke-n}$ $= (IMF6Train_{ke-n})^{1.35}$
3	IMF7Train	-0.5	$IMF7Train_{ke-n}$ $= \frac{1}{\sqrt{IMF7Train_{ke-n}}}$
4	IMF8Train	5	$IMF8Train_{ke-n}$ $= (IMF8Train_{ke-n})^5$

Tabel 5.3 Rumus Transformasi Johnson

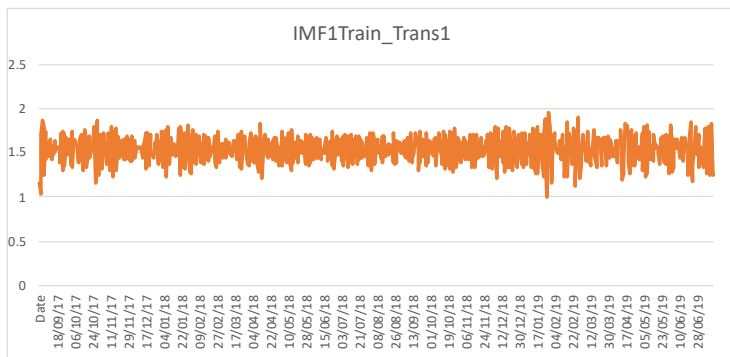
No	Data	P-Value	Rumus Transformasi
1	ResidualTrain	$<0,05$	$0.206262 + 0.61578 \times$ $LN((ResidualTrain_{Ke-n}$ $1.74855)/(3.62939 -$ $ResidualTrain_{Ke-n}))$

Setelah data yang tidak lolos dalam uji stasioner rata-rata telah melalui proses transformasi, hasil dari transformasi yang dilakukan melalui proses uji stasioner rata-rata kembali.

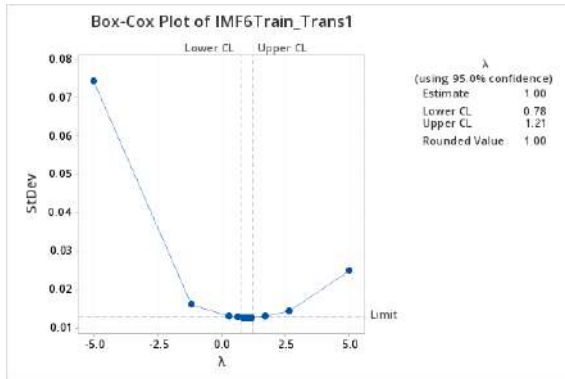


Gambar 5.12 Hasil Uji Stasioner Ragam IMF1Train Setelah Transformasi

Gambar 5.12 merupakan hasil uji stasioner ragam untuk dataset IMF1Train yang telah melalui proses transformasi, terlihat bahwa nilai λ sudah samadengan satu (1). Gambar 5.12 merupakan. grafik dataset IMF1Train yang telah melalui proses transformasi.

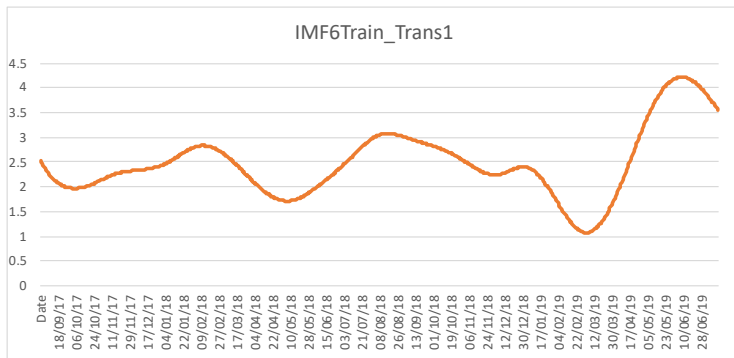


Gambar 5.13 Grafik IMF1Train Setelah Transformasi

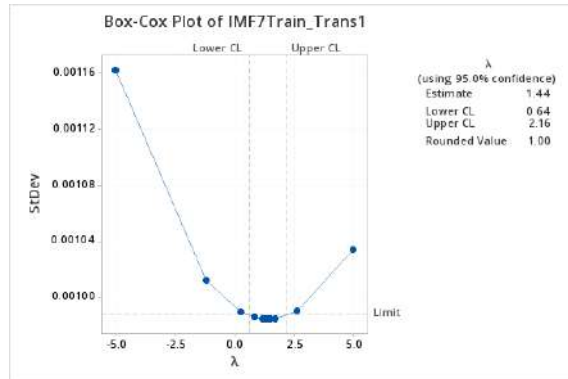


Gambar 5.14 Hasil Uji Stasioner Ragam IMF6Train Setelah Transformasi

Gambar 5.14 merupakan hasil uji stasioner dalam ragam untuk dataset IMF6Train setelah melalui proses transformasi, terlihat bahwa nilai *lambda* sudah samadengan satu, yang berarti sudah lolos uji stasioner dalam ragam. Gambar 5.15 merupakan grafik hasil dataset IMF6Train yang telah melalui proses transformasi.

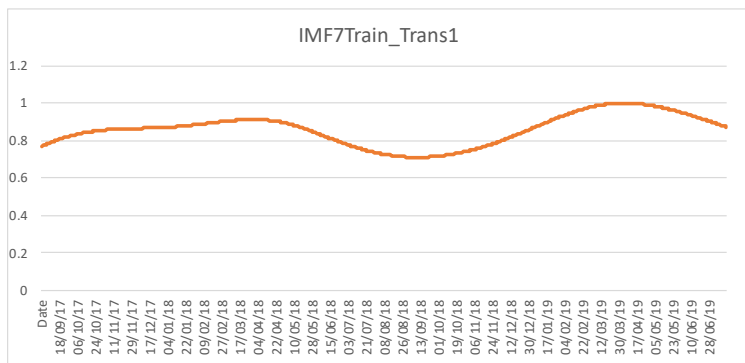


Gambar 5.15 Grafik IMF6Train Setelah Transformasi

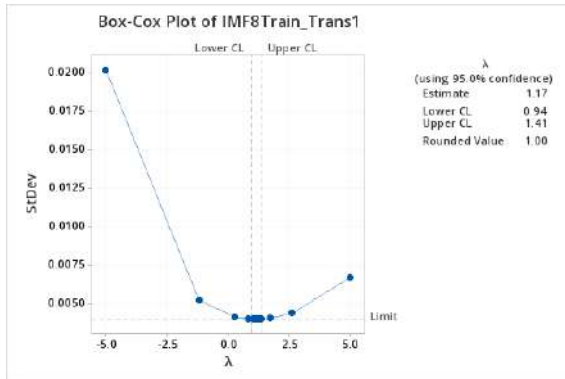


Gambar 5.16 Hasil Uji Stasioner Ragam IMF7Train Setelah Transformasi

Gambar 5.16 merupakan hasil uji stasioner dalam ragam untuk. Dataset IMF7Train yang telah melalui proses transformasi, terlihat bahwa nilai λ sudah samadengan satu (1) yang berarti hasil transformasi sudah stasioner dalam ragam. Gambar 5.17 merupakan grafik dari IMF7Train yang telah melalui uji stasioner dalam ragam.

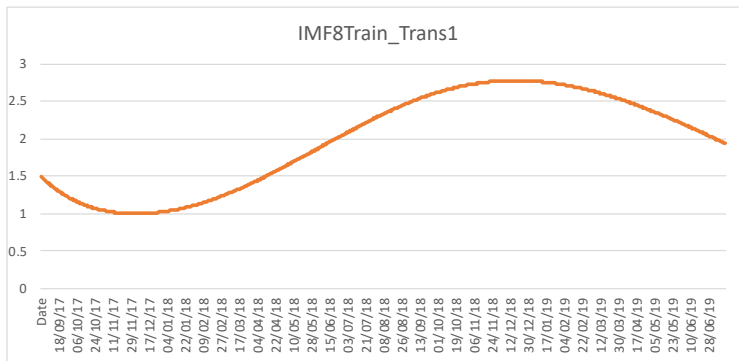


Gambar 5.17 Grafik IMF7Train Setelah Transformasi

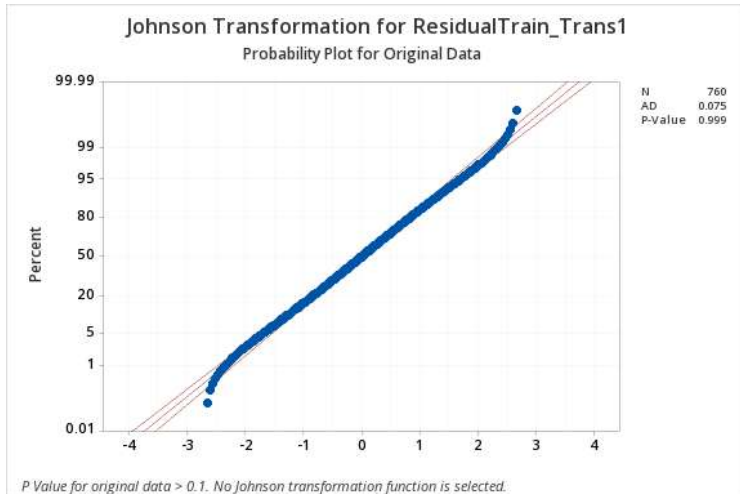


Gambar 5.18 Hasil Uji Stasioner Ragam IMF8Train Setelah Transformasi

Gambar 5.18 merupakan hasil uji stasioner dalam ragam untuk dataset IMF8Train yang telah melalui proses transformasi, terlihat bahwa nilai *lambda* dari dataset ini sudah samadengan satu yang berarti. Dataset ini telah lulus uji stasioner dalam ragam. Gambar 5.19 merupakan grafik dari dataset IMF8Train yang telah melalui proses transformasi.

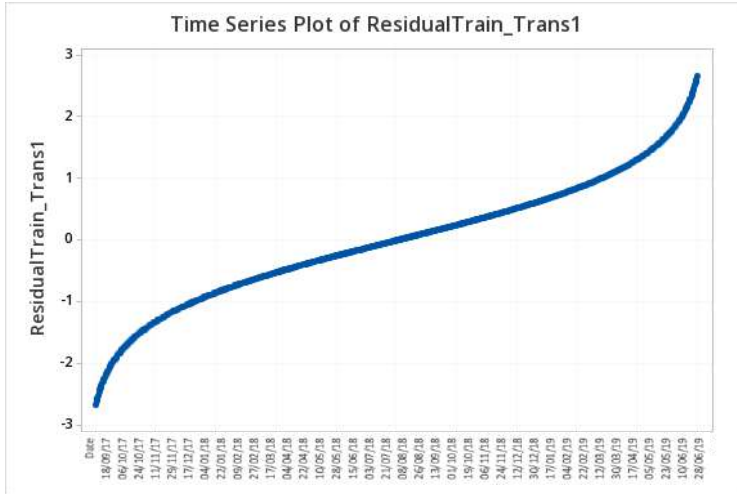


Gambar 5.19 Grafik IMF8Train Setelah Transformasi



Gambar 5.20 Hasil Uji Stasioner Ragam ResidualTrain Setelah Transformasi

Gambar 5.20 merupakan hasil uji stasioner dalam ragam untuk dataset ResidualTrain yang telah melalui proses transformasi, terlihat bahwa nilai dari p -value 0.999 yang berarti telah lolos uji stasioner dalam ragam. Gambar 5.21 merupakan grafik dari dataset ResidualTrain yang telah melalui proses transformasi.



Gambar 5.21 Grafik ResidualTrain Setelah Transformasi

Gambar 5.21 merupakan grafik dari hasil transformasi *johson* yang dilakukan untuk dataset ResidualTrain. Nilai *p-value* dari grafik diatas sudah sama dengan satu (1).

5.3.4 Uji Stasioner Rataan

Data yang sudah lolos uji stasioner ragam lalu harus melalui uji stasioner dalam ratahan. Uji ini dilakukan pada *software* Eviews dengan fungsi *unit root test*. Uji ini dilakukan menggunakan metode *Augmented Dickey-Fuller*, dengan syarat lolos uji $|t\text{-statistic}| > |critical\ values|$ serta probabilitas variabel kurang dari 0.05. Data yang digunakan untuk uji ini adalah data *train* dari masing-masing IMF dan residual yang telah lolos uji stasioner dalam ragam.

Null Hypothesis: IMF1TRAIN_TRANS1 has a unit root
 Exogenous: Constant
 Lag Length: 5 (Automatic - based on SIC, maxlag=19)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-16.60435	0.0000
Test critical values:		
1% level	-3.439766	
5% level	-2.865586	
10% level	-2.568981	

*Mackinnon (1996) one-sided p-values.

Gambar 5.22 Hasil Uji Stasioner Rataan IMF1 Menggunakan Augmented Dickey-Fuller

Gambar 5.22 merupakan *output* dari fungsi *unit root test* pada *software* Eviews menggunakan metode *Augmented Dickey-Fuller*. Terlihat bahwa nilai absolute *t-statistic* lebih besar daripada nilai *absolute critical values* serta probabilitasnya kurang dari 0.05, maka data train IMF 1 yang telah ditransformasi lulus uji stasioner rataaan.

Null Hypothesis: IMF2TRAIN has a unit root
Exogenous: Constant
Lag Length: 10 (Automatic - based on SIC, maxlag=19)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-13.50818	0.0000
Test critical values: 1% level	-3.439838	
5% level	-2.865617	
10% level	-2.568998	

*Mackinnon (1996) one-sided p-values.

Gambar 5.23 Hasil Uji Stasioner Rataan IMF2 Menggunakan Augmented Dickey-Fuller

Pada Gambar 5.23 Terlihat bahwa nilai absolute *t-statistic* lebih besar daripada nilai *absolute critical values* serta probabilitasnya kurang dari 0.05, maka data train IMF 2 dinyatakan lulus uji stasioner rataaan.

Augmented Dickey-Fuller Unit Root Test on IMF3TRAIN

Null Hypothesis: IMF3TRAIN has a unit root
Exogenous: Constant
Lag Length: 9 (Automatic - based on SIC, maxlag=19)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-11.21335	0.0000
Test critical values: 1% level	-3.439824	
5% level	-2.865611	
10% level	-2.568995	

*Mackinnon (1996) one-sided p-values.

Gambar 5.24 Hasil Uji Stasioner Rataan IMF3 Menggunakan Augmented Dickey-Fuller

Pada Gambar 5.24 Terlihat bahwa nilai absolute *t-statistic* lebih besar daripada nilai *absolute critical values* serta probabilitasnya kurang dari 0.05, maka data train IMF 3 dinyatakan lulus uji stasioner rataaan.

Null Hypothesis: IMF4TRAIN has a unit root
 Exogenous: Constant
 Lag Length: 6 (Automatic - based on SIC, maxlag=19)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-8.639434	0.0000
Test critical values: 1% level	-3.439781	
5% level	-2.865592	
10% level	-2.568985	

*Mackinnon (1996) one-sided p-values.

Gambar 5.25 Hasil Uji Stasioner Rataan IMF4 Menggunakan Augmented Dickey-Fuller

Pada Gambar 5.25 Terlihat bahwa nilai absolute *t-statistic* lebih besar daripada nilai *absolute critical values* serta probabilitasnya kurang dari 0.05, maka data train IMF 4 dinyatakan lulus uji stasioner rataaan.

Augmented Dickey-Fuller Unit Root Test on IMF5TRAIN

Null Hypothesis: IMF5TRAIN has a unit root
 Exogenous: Constant
 Lag Length: 5 (Automatic - based on SIC, maxlag=5)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-6.923376	0.0000
Test critical values: 1% level	-3.439786	
5% level	-2.865586	
10% level	-2.568981	

*Mackinnon (1996) one-sided p-values.

Gambar 5.26 Hasil Uji Stasioner Rataan IMF5Train

Gambar 5.26 merupakan output dari uji stasioner dalam rataaan dataset IMF5Train. Pada gambar 5.25 terlihat bahwa nilai $|test\ statistic| >$ nilai $|critical\ values|$ serta probabilitas yang memiliki nilai < 0.05 , maka dataset IMF5Train telah lolos uji stasioner dalam rataaan.

Augmented Dickey-Fuller Unit Root Test on IMF6TRAIN_TRANS1		
Null Hypothesis: IMF6TRAIN_TRANS1 has a unit root		
Exogenous: Constant		
Lag Length: 3 (Automatic - based on SIC, maxlag=3)		
	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-8.807020	0.0000
Test critical values:	1% level	-3.439738
	5% level	-2.865573
	10% level	-2.568975

*MacKinnon (1996) one-sided p-values.

Gambar 5.27 Hasil Uji Stasioner Rataan IMF6Train_Trans1

Pada Gambar 5.27 terlihat bahwa nilai $|test\ statistic| >$ nilai $|critical\ values|$ serta probabilitas yang memiliki nilai < 0.05 , maka dataset IMF6Train_Trans1 telah lulus uji stasioner dalam rataan.

Augmented Dickey-Fuller Unit Root Test on IMF7TRAIN_TRANS1		
Null Hypothesis: IMF7TRAIN_TRANS1 has a unit root		
Exogenous: Constant		
Lag Length: 2 (Automatic - based on SIC, maxlag=2)		
	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-6.651801	0.0000
Test critical values:	1% level	-3.439724
	5% level	-2.865567
	10% level	-2.568971

*MacKinnon (1996) one-sided p-values.

Gambar 5.28 Hasil Uji Stasioner Rataan IMF7Train_Trans1

Pada Gambar 5.28 terlihat bahwa nilai $|test\ statistic| >$ nilai $|critical\ values|$ serta probabilitas yang memiliki nilai < 0.05 , maka dataset IMF7Train_Trans1 telah lulus uji stasioner dalam rataan.

Augmented Dickey-Fuller Unit Root Test on IMF8TRAIN_TRANS1		
Null Hypothesis: IMF8TRAIN_TRANS1 has a unit root		
Exogenous: Constant		
Lag Length: 2 (Automatic - based on SIC, maxlag=2)		
	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-77.17335	0.0001
Test critical values:		
1% level	-3.439724	
5% level	-2.885567	
10% level	-2.568971	

*MacKinnon (1996) one-sided p-values.

Gambar 5.29 Hasil Uji Stasioner Rataan IMF8Train_Trans1

Pada Gambar 5.29 terlihat bahwa nilai $|test\ statistic| > nilai\ |critical\ values|$ serta nilai probability variabel < 0.05 . Maka dataset IMF8Train_Trans1 telah lolos uji stasioner dalam Rataan. Akumulasi hasil uji stasioner dalam rataan menggunakan metode *Augmented Dickey-Fuller* tercantum pada tabel 5.4.

Tabel 5.4 Hasil Uji Stasioner Rataan Metode Augmented Dickey-Fuller

No	Data	Hasil Uji Stasioner Rataan
1	IMF1Train_Trans1	Lolos
2	IMF2Train	Lolos
3	IMF3Train	Lolos
4	IMF4Train	Lolos
5	IMF5Train	Lolos
6	IMF6Train_Trans1	Lolos
7	IMF7Train_Trans1	Lolos
8	IMF8Train_Trans1	Lolos

Proses uji stasioner dalam rataan untuk dataset ResidualTrain_Trans1 dilakukan menggunakan metode *phillips-perron*, karena jangkauan nilai untuk dataset ResidualTrain_Trans1 terlalu besar untuk menggunakan metode *Augmented Dickey-Fuller*.

Phillips-Perron Unit Root Test on RESIDUALTRAIN_TRANS1		
Null Hypothesis: RESIDUALTRAIN_TRANS1 has a unit root		
Exogenous: Constant, Linear Trend		
Bandwidth: 21 (Newey-West automatic) using Bartlett kernel		
	Adj. t-Stat	Prob.*
Phillips-Perron test statistic	-2.069533	0.5614
Test critical values:		
1% level	-3.971546	
5% level	-3.416410	
10% level	-3.130520	

*Mackinnon (1996) one-sided p-values.

Gambar 5.30 Hasil Uji Stasioner Rataan ResidualTrain_Trans1

Pada Gambar 5.30 terlihat bahwa nilai $|test\ statistic| < \text{nilai } |critical\ values|$ yang menandakan bahwa dataset ResidualTrain_Trans1 belum lolos uji stasioner dalam rataaan, maka harus melalui proses differencing terlebih dahulu.

5.3.5 Differencing

Merujuk pada hasil uji stasioner pada sub bab 5.3.4 menunjukkan bahwa ada dataset yang masih belum stasioner dalam rataaan, maka dari itu dataset yang belum lolos harus melalui proses *differencing* terlebih dahulu, untuk melakukan proses ini bisa dilakukan menggunakan *software* Eviews, menggunakan fungsi I^{st} atau 2^{nd} differencing.

Phillips-Perron Unit Root Test on D(RESIDUALTRAIN_TRANS1,2)		
Null Hypothesis: D(RESIDUALTRAIN_TRANS1,2) has a unit root		
Exogenous: Constant, Linear Trend		
Bandwidth: 18 (Newey-West automatic) using Bartlett kernel		
	Adj. t-Stat	Prob.*
Phillips-Perron test statistic	-5.420613	0.0000
Test critical values:		
1% level	-3.971586	
5% level	-3.416430	
10% level	-3.130531	

*Mackinnon (1996) one-sided p-values.

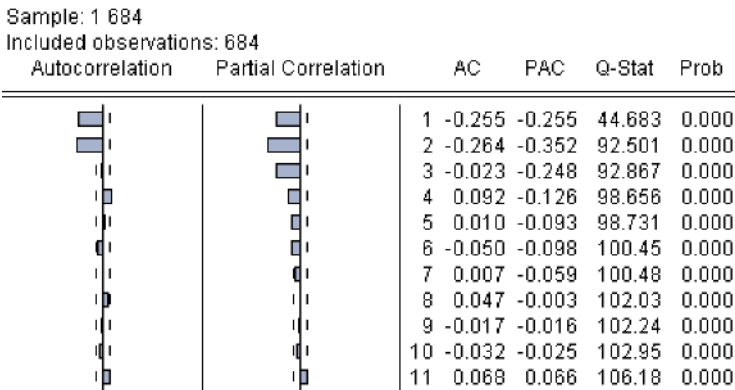
Gambar 5.31 Hasil Uji Stasioner Rataan ResidualTrain_Trans1 Differencing 2

Gambar 5.31 menunjukkan bahwa dataset ResidualTrain_Trans1 baru menunjukkan stasioneritas dalam

rataannya setelah melakukan *differencing* sebanyak dua kali, nilai $|test\ statistic| > |critical\ values|$ dan probabilitas memiliki nilai < 0.05 , maka dataset ResidualTrain_Trans1 *differencing* 2 telah lolos uji stasioner.

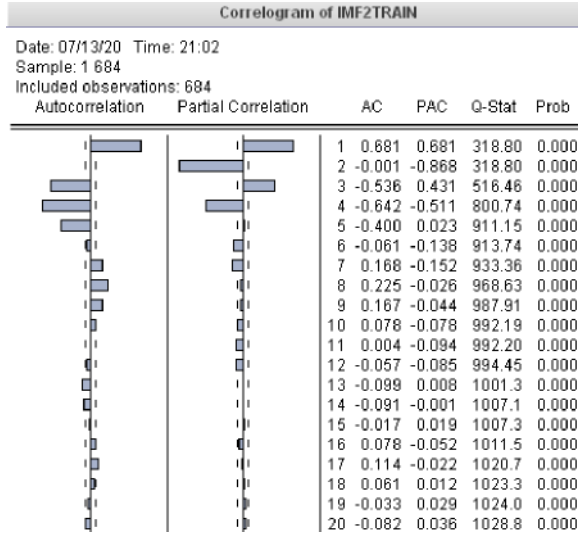
5.3.6 Estimasi Parameter

Peramalan ARIMA membutuhkan parameter “p”, “d”, dan “q”. Nilai dari “p” ditentukan dengan melihat plot PACF, nilai dari “d” ditentukan dengan jumlah *differencing* yang dilakukan, dan nilai dari “q” ditentukan dengan melihat plot ACF. Plot PACF dan ACF masing-masing dataset bisa dilihat menggunakan fungsi *correlogram* pada *software* Eviews.



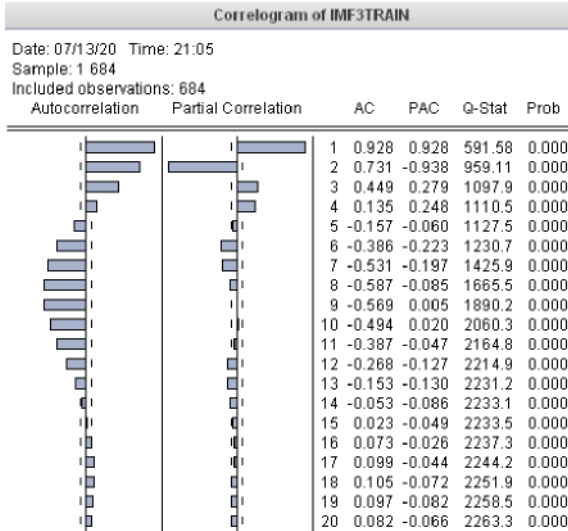
Gambar 5.32 Plot ACF Dan PACF IMF1Train_Trans1

Gambar 5.32 merupakan hasil dari fungsi *correlogram* pada *software* Eviews menggunakan dataset IMF1Train_Trans1. Pada Gambar 5.32 terlihat bahwa lag pada plot ACF signifikan pada lag ke-1 dan lag ke-2, untuk plot PACF terlihat lag yang signifikan pada lag ke-1 sampai lag ke-6. Sehingga dapat disimpulkan bahwa variabel p memiliki nilai nol (0) sampai enam (6) dan variabel q memiliki nilai nol (0) sampai dua (2). Karena data IMF1Train_Trans1 tidak melalui proses *differencing* maka nilai variabel d sama dengan nol (0).



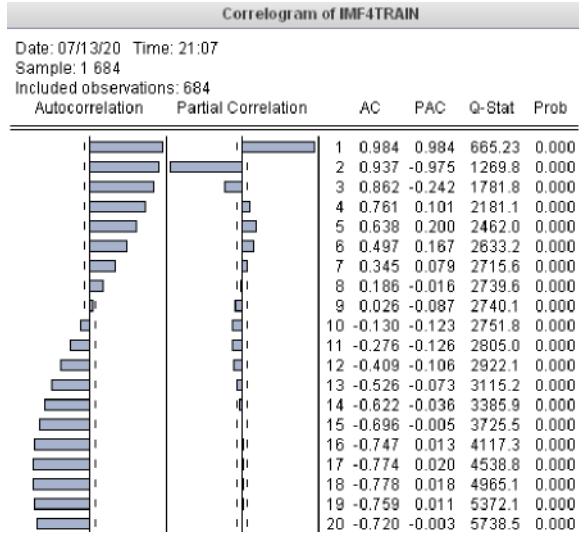
Gambar 5.33 Plot ACF Dan PACF IMF2Train

Gambar 5.33 merupakan grafik ACF dan PACF dataset IMF2Train. Pada Gambar 5.33 terlihat bahwa lag pada grafik ACF signifikan pada lag ke-1, untuk grafik PACF terlihat lag yang signifikan pada lag ke-1. Sehingga dapat disimpulkan bahwa variabel p memiliki nilai nol (0) sampai satu (1) dan variabel q memiliki nilai nol (0) sampai dua (1). Karena data IMF2Train tidak melalui proses *differencing* maka nilai variabel d samadengan nol (0).



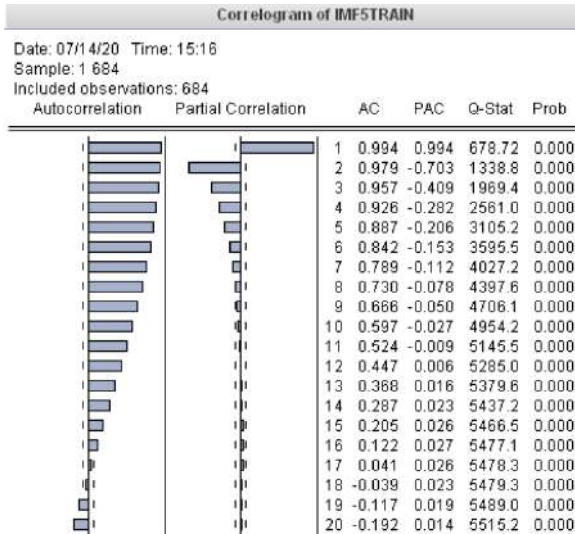
Gambar 5.34 Plot ACF Dan PACF IMF3Train

Gambar 5.34 merupakan grafik ACF dan PACF dataset IMF3Train. Pada Gambar 5.34 terlihat bahwa lag pada grafik ACF signifikan pada lag ke-4, untuk grafik PACF terlihat lag yang signifikan pada lag ke-1. Sehingga dapat disimpulkan bahwa variabel q memiliki nilai nol (0) sampai empat (4) dan variabel p memiliki nilai nol (0) sampai satu (1). Karena data IMF3Train tidak melalui proses *differencing* maka nilai variabel d samadengan nol (0).



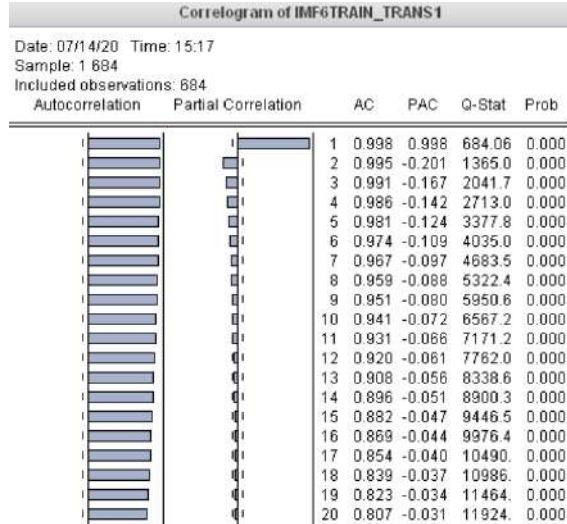
Gambar 5.35 Plot ACF Dan PACF IMF4Train

Gambar 5.35 merupakan grafik ACF dan PACF dataset IMF4Train. Pada Gambar 5.35 terlihat bahwa lag pada grafik ACF terlihat seperti grafik fungsi $\text{Sin}(x)$, untuk grafik PACF terlihat lag yang signifikan pada lag ke-1. Sehingga dapat disimpulkan bahwa variabel q memiliki nilai nol (0) dan variabel p memiliki nilai nol (0) sampai satu (1). Karena data IMF4Train tidak melalui proses *differencing* maka nilai variabel d samadengan nol (0).



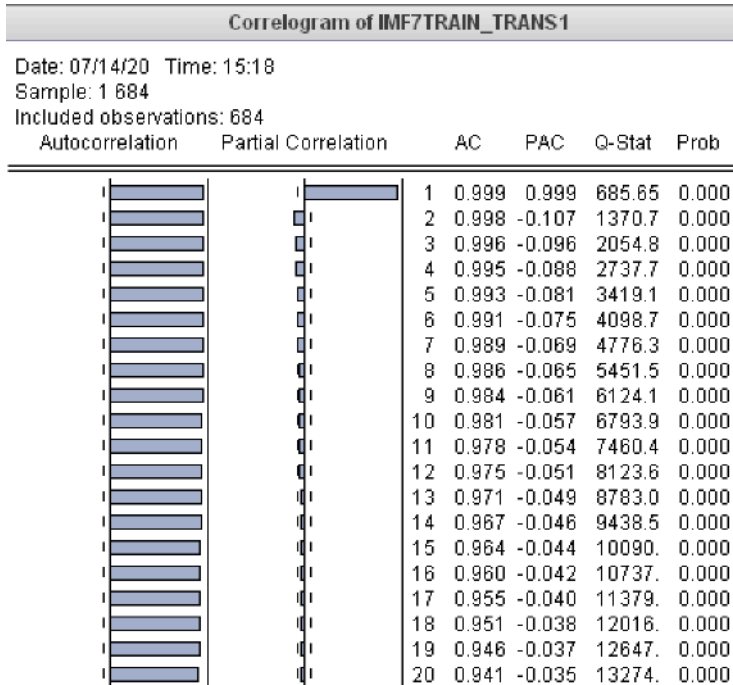
Gambar 5.36 Plot ACF Dan PACF IMF5Train

Gambar 5.36 merupakan grafik ACF dan PACF dataset IMF5Train. Pada Gambar 5.36 terlihat bahwa lag pada grafik ACF terlihat seperti grafik fungsi $\text{Sin}(x)$, untuk grafik PACF terlihat lag yang signifikan pada lag ke-1. Sehingga dapat disimpulkan bahwa variabel q memiliki nilai nol (0) dan variabel p memiliki nilai nol (0) sampai satu (1). Karena data IMF5Train tidak melalui proses *differencing* maka nilai variabel d samadengan nol (0).



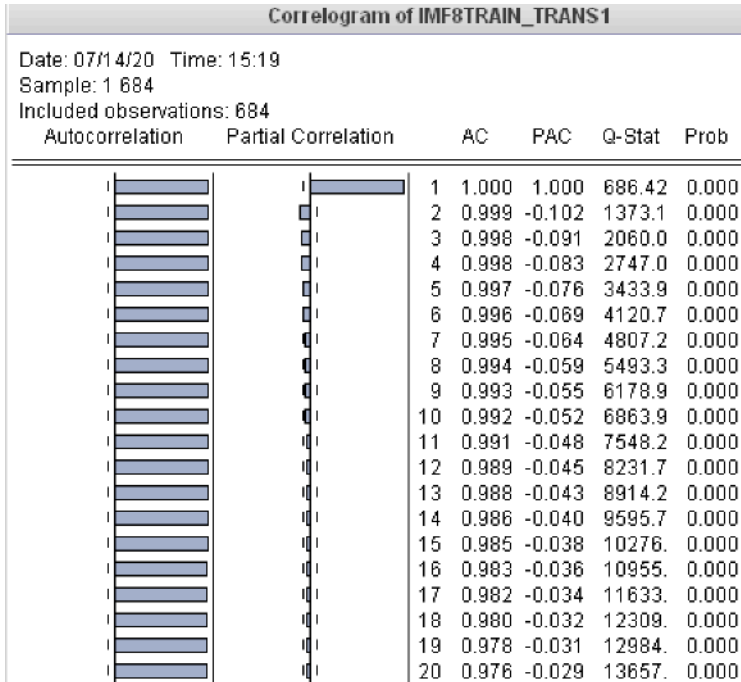
Gambar 5.37 Plot ACF Dan PACF IMF6Train_Trans1

Gambar 5.37 merupakan grafik ACF dan PACF dataset IMF6Train_Trans1. Pada Gambar 5.37 terlihat bahwa lag pada grafik ACF terlihat seperti grafik fungsi Sin(x) yang baru mengalami *cutoff* pada lag ke-55, untuk grafik PACF terlihat lag yang signifikan pada lag ke-1. Sehingga dapat disimpulkan bahwa variabel q memiliki nilai nol (0) dan variabel p memiliki nilai nol (0) sampai satu (1). Karena data IMF6Train_Trans1 tidak melalui proses *differencing* maka nilai variabel d samadengan 0 (0).



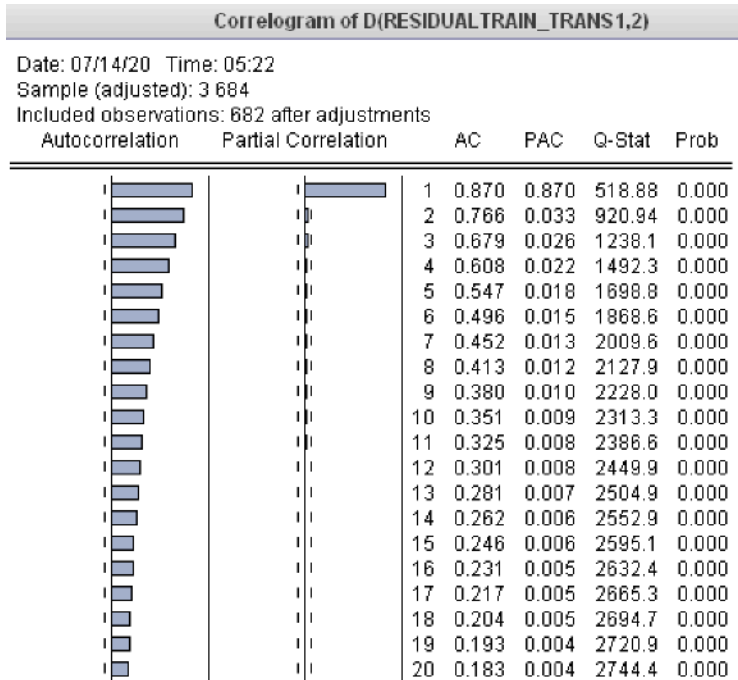
Gambar 5.38 Plot ACF Dan PACF IMF7Train_Trans1

Gambar 5.38 merupakan grafik ACF dan PACF dataset IMF7Train_Trans1. Pada Gambar 5.38 terlihat bahwa lag pada grafik ACF terlihat seperti grafik fungsi Sin(x) yang baru mengalami *cutoff* pada lag ke-106, untuk grafik PACF terlihat lag yang signifikan pada lag ke-1. Sehingga dapat disimpulkan bahwa variabel q memiliki nilai nol (0) dan variabel p memiliki nilai nol (0) sampai satu (1). Karena data IMF7Train_Trans1 tidak melalui proses *differencing* terlebih dahulu maka nilai variabel d samadengan nol (0).



Gambar 5.39 Plot ACF Dan PACF IMF8Train_Trans1

Gambar 5.39 merupakan grafik ACF dan PACF dataset IMF8Train_Trans1. Pada Gambar 5.39 terlihat bahwa lag pada grafik ACF terlihat seperti grafik fungsi $\text{Sin}(x)$ yang baru mengalami *cutoff* pada lag ke-193, untuk grafik PACF terlihat lag yang signifikan pada lag ke-1. Sehingga dapat disimpulkan bahwa variabel q memiliki nilai nol (0) dan variabel p memiliki nilai nol (0) sampai satu (1). Karena data IMF8Train_Trans1 tidak melalui proses *differencing* maka nilai variabel d samadengan 0 (0).



Gambar 5.40 Plot ACF Dan PACF ResidualTrain_Trans1 Differencing 2

Gambar 5.40 merupakan grafik ACF dan PACF dataset ResidualTrain_Trans1 *differencing* 2. Pada Gambar 5.40 terlihat bahwa lag pada grafik ACF memiliki karakteristik *exponentially decreasing* yang baru mengalami *cutoff* pada lag ke-44, untuk grafik PACF terlihat lag yang signifikan pada lag ke-1. Sehingga dapat disimpulkan bahwa variabel q memiliki nilai nol (0) dan variabel p memiliki nilai nilai nol (0) sampai satu (1). Karena data IMF8Train_Trans1 melalui proses *differencing* maka nilai variabel d samadengan dua (2). Akumulasi estimasi parameter masing-masing dataset tercantum pada Tabel 5.5.

Tabel 5.5 Estimasi Parameter

No	Data	p	d	q
1	IMF1Train_Trans1	1-6	0	1-2
2	IMF2Train	1	0	1

No	Data	p	d	q
3	IMF3Train	1	0	1-4
4	IMF4Train	1	0	0
5	IMF5Train	1	0	0
6	IMF6Train Transl	1	0	0
7	IMF7Train Transl	1	0	0
8	IMF8Train Transl	1	0	0
9	Residual Transl	1	2	0

Tabel 5.5 merupakan kesimpulan dari seluruh estimasi parameter yang dilakukan pada masing-masing dataset dengan cara yang sudah dijelaskan sebelumnya. Nilai d pada Tabel 5.5 merujuk pada jumlah *differencing* pada sub bab 5.3.5.

5.3.7 Identifikasi Model Sementara

Pada sub-bab ini dicantumkan tabel 5.6 yang berisi seluruh kombinasi model yang memungkinkan digunakan sesuai dengan nilai variabel “p”, “d”, dan “q” yang telah ditentukan pada tabel 5.5.

Tabel 5.6 Identifikasi Model Sementara Seluruh Dataset

No	Model ARIMA	Dataset
1	MA(0,0,1)	IMF1Train_Transl
2	MA(0,0,2)	
3	AR(1,0,0)	
4	ARMA(1,0,1)	
5	ARMA(1,0,2)	
6	AR (2,0,0)	
7	ARMA(2,0,1)	
8	ARMA(2,0,2)	
9	AR (3,0,0)	
10	ARMA(3,0,1)	
11	ARMA(3,0,2)	
12	AR (4,0,0)	
13	ARMA(4,0,1)	
14	ARMA(4,0,2)	
15	AR (5,0,0)	
16	ARMA(5,0,1)	
17	ARMA(5,0,2)	

No	Model ARIMA	Dataset
18	AR (6,0,0)	IMF2train
19	ARMA(6,0,1)	
20	ARMA(6,0,2)	
21	MA(0,0,1)	
22	AR (1,0,0)	
23	ARMA(1,0,1)	
24	MA(0,0,1)	IMF3Train
25	MA(0,0,2)	
26	MA(0,0,3)	
27	MA(0,0,4)	
28	AR (1,0,0)	
29	ARMA(1,0,1)	
30	ARMA(1,0,2)	
31	ARMA(1,0,3)	
32	ARMA(1,0,4)	
33	AR(1,0,0)	IMF4Train
34	AR(1,0,0)	IMF5Train
35	AR(1,0,0)	IMF6Train Trans1
36	AR(1,0,0)	IMF7Train Trans1
37	AR(1,0,0)	IMF8Train Trans1
38	AR(1,2,0)	ResidualTrain Trans1

5.3.8 Uji Signifikasi

Model sementara masing-masing dataset yang telah ditentukan pada Tabel 5.6, harus dipilih hanya satu untuk masing-masing dataset, uji signifikasi dilakukan untuk menjadi salah satu syarat pemilihan model. Uji signifikasi bisa dilakukan dengan fungsi *estimate equation* pada *software* Eviews, dengan fungsi sebagai berikut:

$$d(\text{nama dataset}, D)\text{ar}(p)\text{ma}(q)$$

D = Jumlah Differencing

p = Ordo Variabel AR

q = Ordo Variabel MA

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 22:38
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 11 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(1)	0.858029	0.027853	31.02877	0.0000
SIGMASQ	0.791649	0.110269	7.179219	0.0000
R-squared	-32.319918	Mean dependent var		1.538118
Adjusted R-squared	-32.368774	S.D. dependent var		0.154252
S.E. of regression	0.891050	Akaike info criterion		2.612036
Sum squared resid	541.4878	Schwarz criterion		2.625276
Log likelihood	-891.3163	Hannan-Quinn criter.		2.617159
Durbin-Watson stat	0.500956			

Gambar 5.41 Hasil Uji Signifikasi IMF1Train_Trans1

Gambar 5.41 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| >$ nilai $t\text{-table}$. Maka untuk dataset IMF1Train_Trans1 menggunakan model MA(0,0,1) dikatakan lulus uji signifikasi. Pembuktian uji signifikasi untuk dataset IMF1Train_Trans1 dengan model lain tercantum pada lampiran.

Dependent Variable: IMF2TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:18
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 15 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(1)	0.996572	0.006905	144.3340	0.0000
SIGMASQ	1.414587	0.271004	5.219800	0.0000
R-squared	-7.203445	Mean dependent var		2.322869
Adjusted R-squared	-7.215473	S.D. dependent var		0.415561
S.E. of regression	1.191107	Akaike info criterion		3.197836
Sum squared resid	967.5775	Schwarz criterion		3.211076
Log likelihood	-1091.660	Hannan-Quinn criter.		3.202960
Durbin-Watson stat	0.045330			

Gambar 5.42 Hasil Uji Signifikasi IMF2Train

Gambar 5.42 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| >$ nilai $t\text{-table}$. Maka untuk dataset IMF2Train menggunakan model MA(0,0,1) dikatakan lulus uji signifikasi. Pembuktian uji signifikasi untuk dataset IMF2Train dengan model lain tercantum pada lampiran.

Dependent Variable: IMF3TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:23
 Sample: 1 684
 Included observations: 684
 Failure to improve objective (non-zero gradients) after 13 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(1)	0.999999	85.82599	0.011651	0.9907
SIGMASQ	1.422617	3.245271	0.438366	0.6613
R-squared	-11.136313	Mean dependent var		2.357674
Adjusted R-squared	-11.154108	S.D. dependent var		0.342624
S.E. of regression	1.194483	Akaike info criterion		3.205768
Sum squared resid	973.0701	Schwarz criterion		3.219008
Log likelihood	-1094.373	Hannan-Quinn criter.		3.210892
Durbin-Watson stat	0.005364			

Gambar 5.43 Hasil Uji Signifikasi IMF3Train

Gambar 5.43 menunjukkan bahwa probability dari variabel > 0.05 serta nilai $|t\text{-statistic}| <$ nilai $t\text{-table}$. Maka untuk dataset IMF3Train menggunakan model MA(0,0,1) dikatakan tidak lulus uji signifikasi. Pembuktian uji signifikasi untuk dataset IMF3Train dengan model lain tercantum pada lampiran.

Dependent Variable: IMF4TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/14/20 Time: 05:41
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 10 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.999605	0.001065	938.3803	0.0000
SIGMASQ	0.004929	0.000216	22.81491	0.0000
R-squared	0.968441	Mean dependent var		2.463198
Adjusted R-squared	0.968395	S.D. dependent var		0.395493
S.E. of regression	0.070310	Akaike info criterion		-2.458446
Sum squared resid	3.371445	Schwarz criterion		-2.445207
Log likelihood	842.7886	Hannan-Quinn criter.		-2.453323
Durbin-Watson stat	0.050036			

Gambar 5.44 Hasil Uji Signifikasi IMF4Train

Gambar 5.44 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| > \text{nilai } t\text{-table}$. Maka untuk dataset IMF4Train menggunakan model AR(1,0,0) dinyatakan lulus uji signifikasi.

Dependent Variable: IMF4TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/14/20 Time: 05:41
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 10 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.999605	0.001065	938.3803	0.0000
SIGMASQ	0.004929	0.000216	22.81491	0.0000
R-squared	0.968441	Mean dependent var		2.463198
Adjusted R-squared	0.968395	S.D. dependent var		0.395493
S.E. of regression	0.070310	Akaike info criterion		-2.458446
Sum squared resid	3.371445	Schwarz criterion		-2.445207
Log likelihood	842.7886	Hannan-Quinn criter.		-2.453323
Durbin-Watson stat	0.050036			

Gambar 5.45 Hasil Uji Signifikasi IMF4Train

Gambar 5.45 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| > \text{nilai } t\text{-table}$. Maka untuk dataset

IMF4Train menggunakan model AR(1,0,0) dinyatakan lulus uji signifikansi.

Dependent Variable: IMF5TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/14/20 Time: 05:44
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 10 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.999912	0.000574	1741.548	0.0000
SIGMASQ	0.000659	4.27E-05	15.42816	0.0000

R-squared	0.991272	Mean dependent var	1.759036
Adjusted R-squared	0.991259	S.D. dependent var	0.274973
S.E. of regression	0.025709	Akaike info criterion	-4.468432
Sum squared resid	0.450755	Schwarz criterion	-4.455192
Log likelihood	1530.204	Hannan-Quinn criter.	-4.463308
Durbin-Watson stat	0.018214		

Gambar 5.46 Hasil Uji Signifikasi IMF5Train

Gambar 5.46 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| >$ nilai $t\text{-table}$. Maka untuk dataset IMF5Train menggunakan model AR(1,0,0) dinyatakan lulus uji signifikansi.

Dependent Variable: IMF6TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/14/20 Time: 15:27
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 24 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.999981	0.000691	1447.407	0.0000
SIGMASQ	0.000363	1.71E-05	21.22657	0.0000

R-squared	0.999235	Mean dependent var	2.471699
Adjusted R-squared	0.999234	S.D. dependent var	0.689961
S.E. of regression	0.019093	Akaike info criterion	-5.061209
Sum squared resid	0.248618	Schwarz criterion	-5.047969
Log likelihood	1732.933	Hannan-Quinn criter.	-5.056085
Durbin-Watson stat	0.013106		

Gambar 5.47 Hasil Uji Signifikasi IMF6Train_Trans1

Gambar 5.47 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| > \text{nilai } t\text{-table}$. Maka untuk dataset IMF6Train menggunakan model AR(1,0,0) dinyatakan lulus uji signifikasi.

Dependent Variable: IMF7TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/14/20 Time: 15:28
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 84 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.999999	0.000106	9441.516	0.0000
SIGMASQ	1.72E-06	1.39E-07	12.41594	0.0000

R-squared 0.999752 Mean dependent var 0.858277
 Adjusted R-squared 0.999752 S.D. dependent var 0.083414
 S.E. of regression 0.001314 Akaike info criterion -10.41011
 Sum squared resid 0.001177 Schwarz criterion -10.39687
 Log likelihood 3562.256 Hannan-Quinn criter. -10.40498
 Durbin-Watson stat 0.001271

Gambar 5.48 Hasil Uji Signifkasi IMF7Train_Trans1

Gambar 5.48 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| > \text{nilai } t\text{-table}$. Maka untuk dataset IMF7Train_Trans1 menggunakan model AR(1,0,0) dinyatakan lulus uji signifikasi.

Dependent Variable: IMF8TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/14/20 Time: 15:29
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 45 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.999995	0.000299	3341.044	0.0000
SIGMASQ	2.71E-05	2.20E-06	12.32903	0.0000

R-squared 0.999935 Mean dependent var 1.974780
 Adjusted R-squared 0.999934 S.D. dependent var 0.642545
 S.E. of regression 0.005212 Akaike info criterion -7.655792
 Sum squared resid 0.018527 Schwarz criterion -7.642552
 Log likelihood 2620.281 Hannan-Quinn criter. -7.650668
 Durbin-Watson stat 0.017835

Gambar 5.49 Hasil Uji Signifkasi IMF8Train_Trans1

Gambar 5.49 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| > \text{nilai } t\text{-table}$. Maka untuk dataset

IMF8Train_Trans1 menggunakan model AR(1,0,0) dinyatakan lulus uji signifikasi.

Dependent Variable: D(RESIDUALTRAIN_TRANS1,2)
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/15/20 Time: 12.46
 Sample: 3 684
 Included observations: 682
 Convergence achieved after 27 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.999864	0.001007	992.9479	0.0000
SIGMASQ	5.85E-09	5.47E-11	107.0614	0.0000

R-squared	0.962344	Mean dependent var	1.57E-06
Adjusted R-squared	0.962318	S.D. dependent var	0.006576
S.E. of regression	7.68E-05	Akaike info criterion	-16.10080
Sum squared resid	3.99E-06	Schwarz criterion	-16.08733
Log likelihood	5492.306	Hannan-Quinn criter.	-16.09547
Durbin-Watson stat	0.237574		

Gambar 5.50 Hasil Uji Signifikasi ResidualTrain_Trans1 Differencing 2

Gambar 5.50 menunjukkan bahwa probability dari variabel < 0.05 serta nilai $|t\text{-statistic}| >$ nilai $t\text{-table}$. Maka untuk dataset ResidualTrain_Trans1 menggunakan model AR(1,2,0) dinyatakan lulus uji signifikasi.

Hasil akumulasi uji signifikasi seluruh mode tercantum pada Tabel 5.7

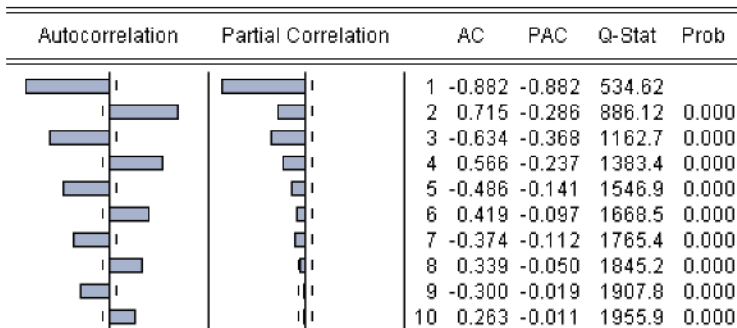
Tabel 5.7 Hasil Uji Signifikasi Model Sementara Seluruh Dataset

No	Data Set	Model ARIMA	Hasil Uji Signifikasi
1	IMF1Train_Trans1	MA(0,0,1)	Lolos
2		MA(0,0,2)	Lolos
3		AR(1,0,0)	Lolos
4		ARMA(1,0,1)	Lolos
5		ARMA(1,0,2)	Lolos
6		AR (2,0,0)	Lolos
7		ARMA(2,0,1)	Lolos
8		ARMA(2,0,2)	Lolos
9		AR (3,0,0)	Lolos
10		ARMA(3,0,1)	Lolos
11		ARMA(3,0,2)	Lolos
12		AR (4,0,0)	Lolos
13		ARMA(4,0,1)	Lolos
14		ARMA(4,0,2)	Lolos
15		AR (5,0,0)	Lolos
16		ARMA(5,0,1)	Lolos

No	Data Set	Model ARIMA	Hasil Uji Signififikasi
17		ARMA(5,0,2)	Lolos
18		AR (6,0,0)	Lolos
19		ARMA(6,0,1)	Lolos
20		ARMA(6,0,2)	Lolos
21	IMF2Train	MA(0,0,1)	Lolos
22		AR (1,0,0)	Lolos
23		ARMA(1,0,1)	Lolos
24	IMF3Train	MA(0,0,1)	Tidak Lolos
25		MA(0,0,2)	Tidak Lolos
26		MA(0,0,3)	Tidak Lolos
27		MA(0,0,4)	Lolos
28		AR (1,0,0)	Lolos
29		ARMA(1,0,1)	Tidak Lolos
30		ARMA(1,0,2)	Lolos
31		ARMA(1,0,3)	Lolos
32	ARMA(1,0,4)	Lolos	
33	IMF4Train	AR(1,0,0)	Lolos
34	IMF5Train	AR(1,0,0)	Lolos
35	IMF6Train Trans1	AR(1,0,0)	Lolos
36	IMF7Train Trans1	AR(1,0,0)	Lolos
37	IMF8Train Trans1	AR(1,0,0)	Lolos
38	ResidualTrain Trans1	AR(1,2,0)	Lolos

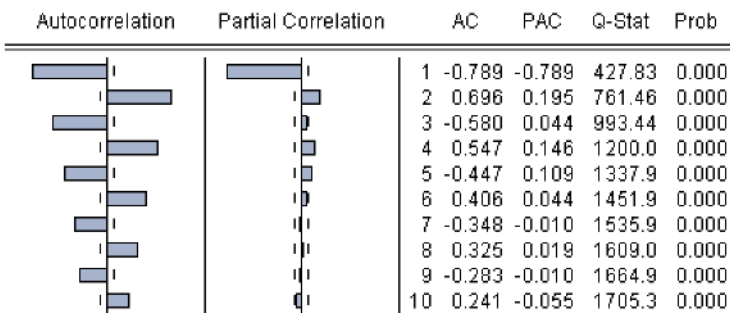
5.3.9 Uji Diagnostik

Model yang digunakan harus memiliki residual yang bersifat *white noise*, yang dimaksud *white noise residual* adalah dimana pada grafik ACF residual, tidak ada lag yang melebihi gari error. Pengujian ini dilakukan menggunakan *software* Eviews dengan fungsi *correlogram of residuals* untuk pengujian diagnostik keacakan dari model dan fungsi *correlogram of residuals squared* untuk pengujian diagnostic homogenitas dari model. Model yang dinyatakan lulus dari pengujian ini adalah model yang memiliki probabilitas < 0.05 .



Gambar 5.51 Correlogram Of Residual IMF1Train_Trans1 MA(0,0,1)

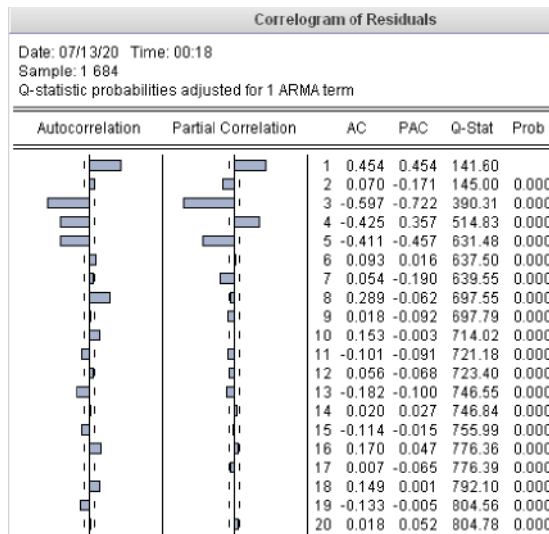
Gambar 5.51 merupakan contoh dari *correlogram of residuals* dari model MA(0,0,1) untuk dataset IMF1Train_Trans1. Gambar 5.51 hanya memasukkan 10 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model MA(0,0,1) tidak lulus uji diagnostic keacakan. Hasil uji diagnostic keacakan untuk model lainnya tercantum pada lampiran.



Gambar 5.52 Correlogram Of Residuals Squared IMF1Train_Trans1 MA(0,0,1)

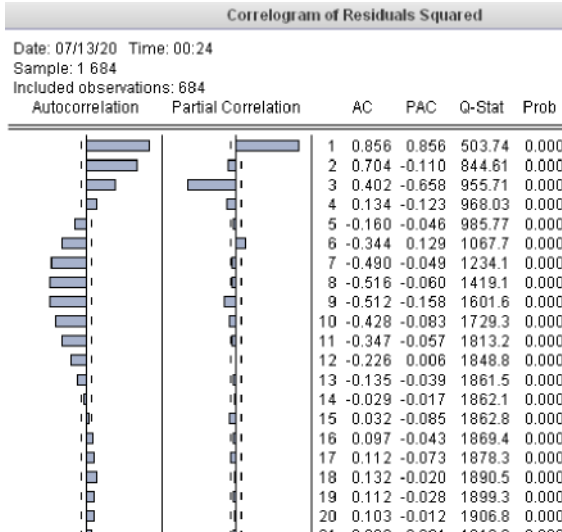
Gambar 5.52 merupakan contoh dari *correlogram of residuals squared* dari model MA(0,0,1) untuk dataset IMF1Train_Trans1. Gambar 5.52 hanya memasukkan 10 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-rata probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 , sehingga dapat disimpulkan model MA(0,0,1) tidak

lulus uji diagnostic homogenitas. Hasil uji diagnostic homogenitas untuk model lainnya tercantum pada lampiran.



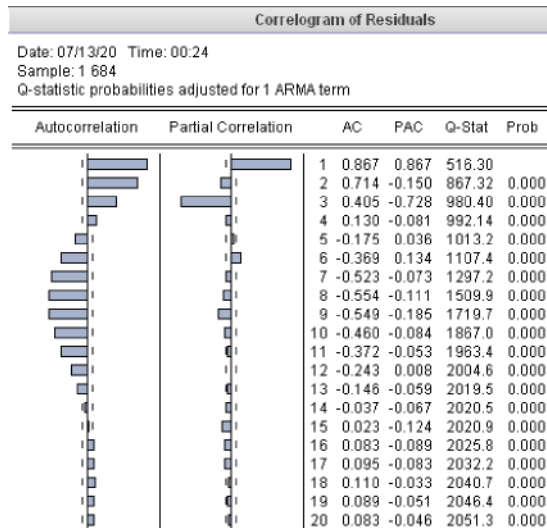
Gambar 5.53 Correlogram Of Residual IMF2Train MA(0,0,1)

Gambar 5.53 merupakan contoh dari *correlogram of residuals* dari model MA(0,0,1) untuk dataset IMF2Train. Gambar 5.53 hanya memasukkan 20 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model MA(0,0,1) tidak lulus uji diagnostic keacakan. Hasil uji diagnostic keacakan untuk model lainnya tercantum pada lampiran.



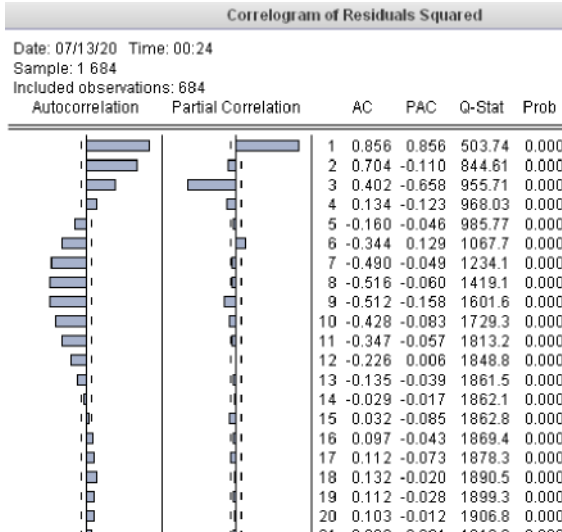
Gambar 5.54 Correlogram Of Residuals Squared IMF2Train MA(0,0,1)

Gambar 5.54 merupakan contoh dari *correlogram of residuals squared* dari model MA(0,0,1) untuk dataset IMF2Train. Gambar 5.54 hanya memasukkan 20 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-raya probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 , sehingga dapat disimpulkan model MA(0,0,1) tidak lulus uji diagnostic homogenitas. Hasil uji diagnostic homogenitas untuk model lainnya tercantum pada lampiran.



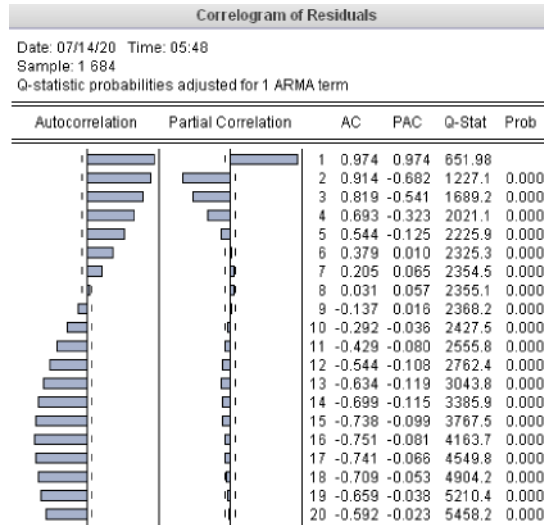
Gambar 5.55 Correlogram Of Residual IMF3Train MA(0,0,1)

Gambar 5.55 merupakan contoh dari *correlogram of residuals* dari model MA(0,0,1) untuk dataset IMF3Train. Gambar 5.55 hanya memasukkan 20 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model MA(0,0,1) tidak lulus uji diagnostic keacakan. Hasil uji diagnostic keacakan untuk model lainnya tercantum pada lampiran.



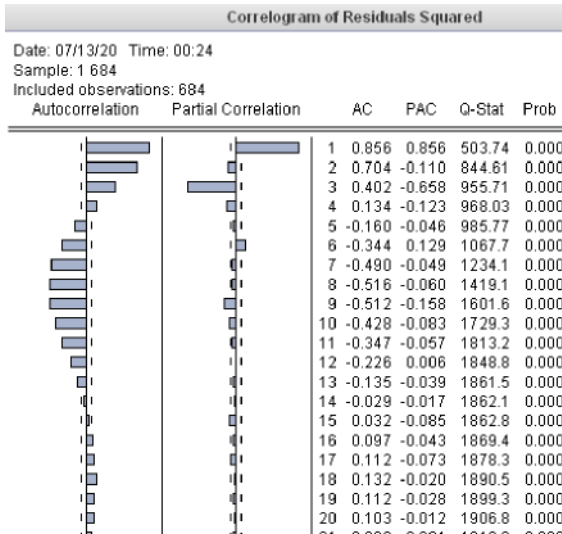
Gambar 5.56 Correlogram Of Residuals Squared IMF3Train MA(0,0,1)

Gambar 5.56 merupakan contoh dari *correlogram of residuals squared* dari model MA(0,0,1) untuk dataset IMF3Train. Gambar 5.56 hanya memasukkan 20 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-raya probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 , sehingga dapat disimpulkan model MA(0,0,1) tidak lulus uji diagnostic homogenitas. Hasil uji diagnostic homogenitas untuk model lainnya tercantum pada lampiran.



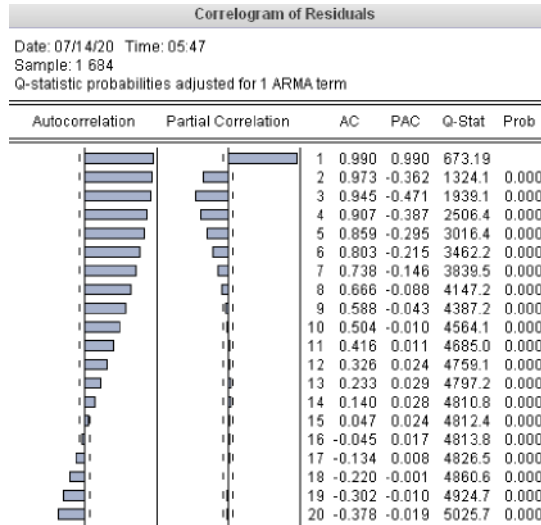
Gambar 5.57 Correlogram Of Residual IMF4Train AR(1,0,0)

Gambar 5.57 merupakan contoh dari *correlogram of residuals* dari model AR(1,0,0) untuk dataset IMF4Train. Gambar 5.57 hanya memasukkan 20 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model AR(1,0,0) tidak lulus uji diagnostic keacakan.



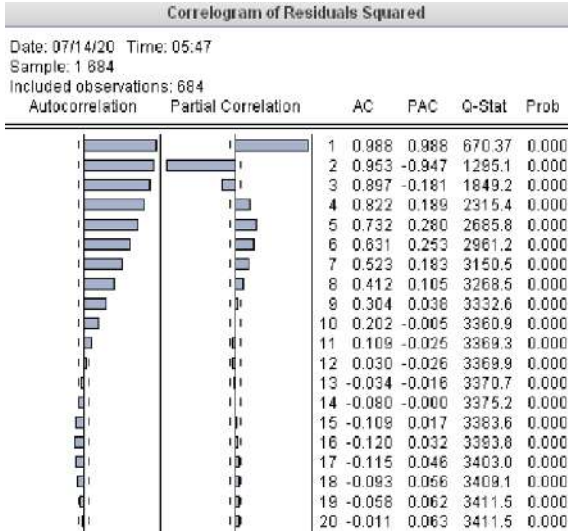
Gambar 5.58 Correlogram Of Residuals Squared IMF4Train AR(1,0,0)

Gambar 5.58 merupakan contoh dari *correlogram of residuals squared* dari model AR(1,0,0) untuk dataset IMF4Train. Gambar 5.58 hanya memasukkan 20 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-raya probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 sehingga dapat disimpulkan model AR(1,0,0) tidak lulus uji diagnostic homogenitas.



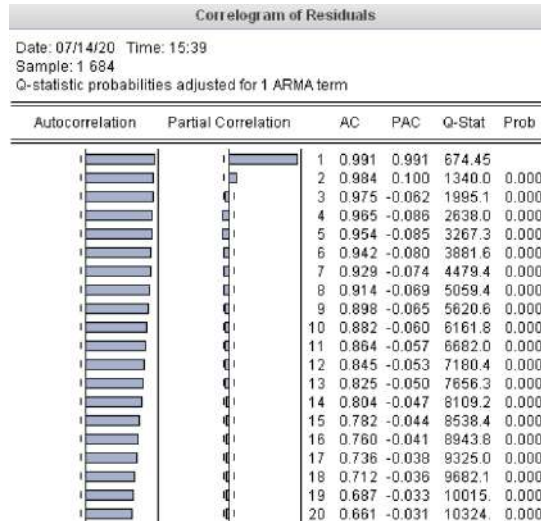
Gambar 5.59 Correlogram Of Residual IMF5Train AR(1,0,0)

Gambar 5.59 merupakan contoh dari *correlogram of residuals* dari model AR(1,0,0) untuk dataset IMF5Train. Gambar 5.59 hanya memasukkan 20 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model AR(1,0,0) tidak lulus uji diagnostic keacakan.



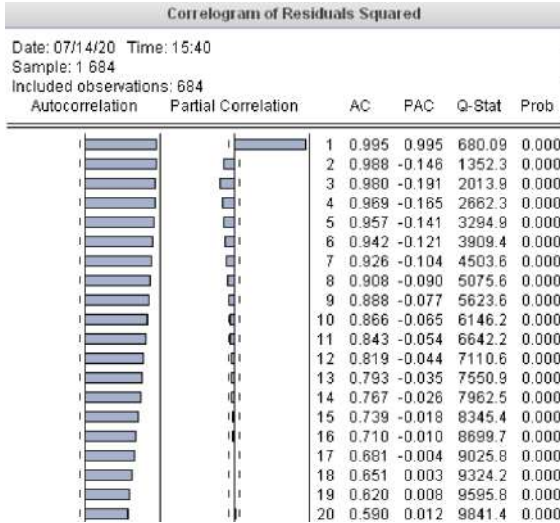
Gambar 5.60 Correlogram Of Residuals Squared IMF5Train AR(1,0,0)

Gambar 5.60 merupakan contoh dari *correlogram of residuals squared* dari model AR(1,0,0) untuk dataset IMF5Train. Gambar 5.60 hanya memasukkan 20 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-raya probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 sehingga dapat disimpulkan model AR(1,0,0) tidak lulus uji diagnostic homogenitas.



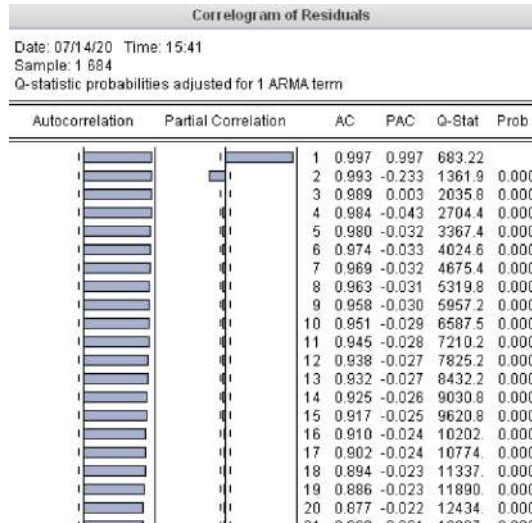
Gambar 5.61 Correlogram Of Residual IMF6Train_Trans1 AR(1,0,0)

Gambar 5.61 merupakan contoh dari *correlogram of residuals* dari model AR(1,0,0) untuk dataset IMF6Train_Trans1. Gambar 5.61 hanya memasukkan 20 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model AR(1,0,0) tidak lulus uji diagnostic keacakan.



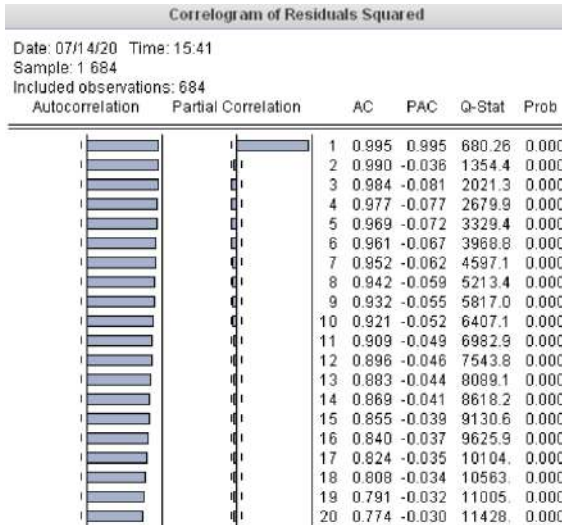
**Gambar 5.62 Correlogram Of Residuals Squared IMF6Train_Trans1
AR(1,0,0)**

Gambar 5.62 merupakan contoh dari *correlogram of residuals squared* dari model $AR(1,0,0)$ untuk dataset IMF6Train_Trans1. Gambar 5.62 hanya memasukkan 20 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-raya probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 sehingga dapat disimpulkan model $AR(1,0,0)$ tidak lulus uji diagnostic homogenitas.



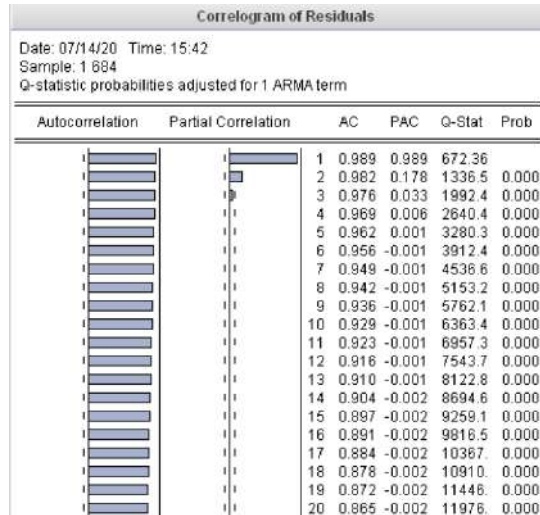
Gambar 5.63 Correlogram Of Residual IMF7Train_Trans1 AR(1,0,0)

Gambar 5.63 merupakan contoh dari *correlogram of residuals* dari model AR(1,0,0) untuk dataset IMF7Train_Trans1. Gambar 5.63 hanya memasukkan 20 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model AR(1,0,0) tidak lulus uji diagnostic keacakan.



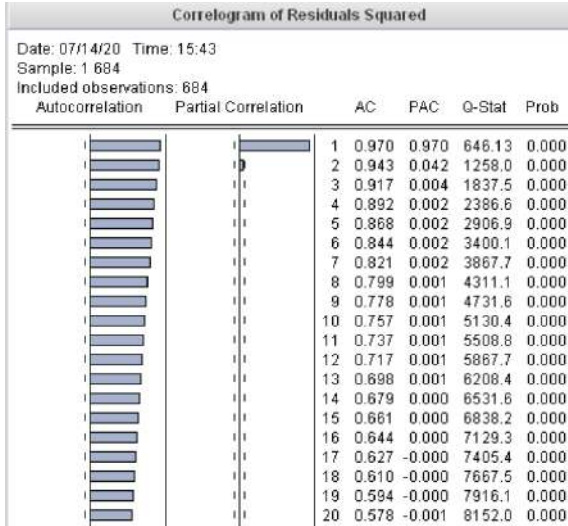
**Gambar 5.64 Correlogram Of Residuals Squared IMF7Train_Trans1
AR(1,0,0)**

Gambar 5.64 merupakan contoh dari *correlogram of residuals squared* dari model $AR(1,0,0)$ untuk dataset IMF7Train_Trans1. Gambar 5.64 hanya memasukkan 20 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-raya probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 sehingga dapat disimpulkan model $AR(1,0,0)$ tidak lulus uji diagnostic homogenitas.



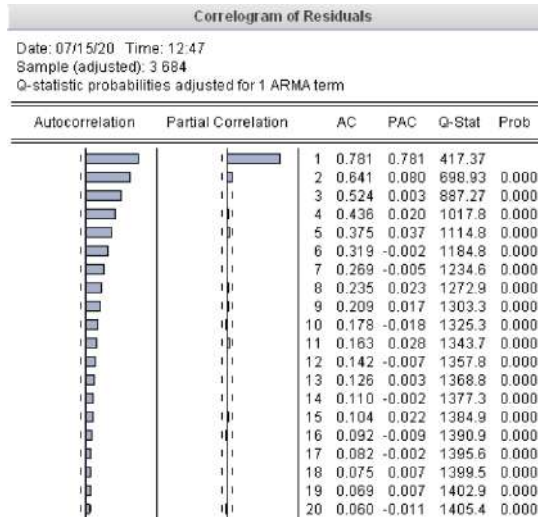
Gambar 5.65 Correlogram Of Residual IMF8Train_Trans1 AR(1,0,0)

Gambar 5.65 merupakan contoh dari *correlogram of residuals* dari model AR(1,0,0) untuk dataset IMF8Train_Trans1. Gambar 5.65 hanya memasukkan 20 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model AR(1,0,0) tidak lulus uji diagnostic keacakan.



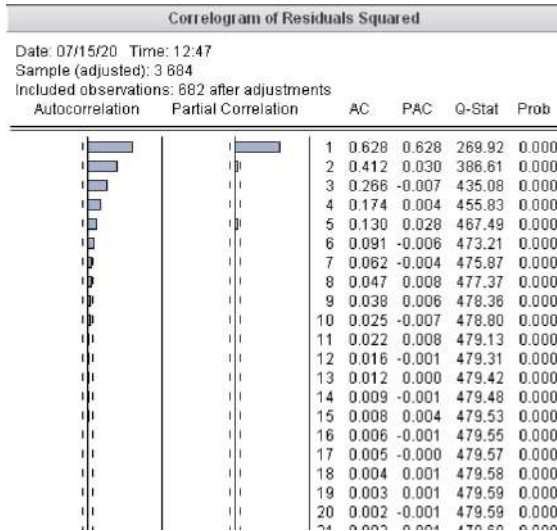
**Gambar 5.66 Correlogram Of Residuals Squared IMF8Train_Trans1
AR(1,0,0)**

Gambar 5.66 merupakan contoh dari *correlogram of residuals squared* dari model $AR(1,0,0)$ untuk dataset IMF8Train_Trans1. Gambar 5.66 hanya memasukkan 20 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-raya probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 sehingga dapat disimpulkan model $AR(1,0,0)$ tidak lulus uji diagnostic homogenitas.



Gambar 5.67 Correlogram Of Residual Train_Trans1 AR(1,2,0)

Gambar 5.67 merupakan contoh dari *correlogram of residuals* dari model AR(1,2,0) untuk dataset ResidualTrain_Trans1. Gambar 5.67 hanya memasukkan 20 lag dari 36 lag. Uji keacakan dinyatakan lolos apabila variabel probabilitas > 0.05 , sehingga dapat disimpulkan model AR(1,2,0) tidak lulus uji diagnostic keacakan.



**Gambar 5.68 Correlogram Of Residuals Squared ResidualTrain_Trans1
AR(1,2,0)**

Gambar 5.68 merupakan contoh dari *correlogram of residuals squared* dari model AR(1,2,0) untuk dataset ResidualTrain_Trans1. Gambar 5.68 hanya memasukkan 20 lag dari 36 lag. Uji homogenitas dinyatakan lolos apabila rata-raya probabilitas seluruh lag pada *correlogram of residuals squared* > 0.05 sehingga dapat disimpulkan model AR(1,2,0) tidak lulus uji diagnostic homogenitas.

Seluruh akumulasi uji diagnostic model tercantum pada tabel 5.8.

Tabel 5.8 Hasil Uji Diagnostik Model Sementara Seluruh Dataset

No	Data Set	Model ARIMA	Uji Keacakan	Uji Homogenitas
1	IMF1Train_Trans1	MA(0,0,1)	Tidak Lolos	Tidak Lolos
2		MA(0,0,2)	Tidak Lolos	Tidak Lolos
3		AR(1,0,0)	Tidak Lolos	Tidak Lolos

No	Data Set	Model ARIMA	Uji Keacakan	Uji Homogenitas	
4		ARMA(1,0,1)	Tidak Lolos	Tidak Lolos	
5		ARMA(1,0,2)	Tidak Lolos	Tidak Lolos	
6		AR (2,0,0)	Tidak Lolos	Tidak Lolos	
7		ARMA(2,0,1)	Tidak Lolos	Tidak Lolos	
8		ARMA(2,0,2)	Tidak Lolos	Tidak Lolos	
9		AR (3,0,0)	Tidak Lolos	Tidak Lolos	
10		ARMA(3,0,1)	Tidak Lolos	Tidak Lolos	
11		ARMA(3,0,2)	Tidak Lolos	Tidak Lolos	
12		AR (4,0,0)	Tidak Lolos	Tidak Lolos	
13		ARMA(4,0,1)	Tidak Lolos	Tidak Lolos	
14		ARMA(4,0,2)	Tidak Lolos	Tidak Lolos	
15		AR (5,0,0)	Tidak Lolos	Tidak Lolos	
16		ARMA(5,0,1)	Tidak Lolos	Tidak Lolos	
17		ARMA(5,0,2)	Tidak Lolos	Tidak Lolos	
18		AR (6,0,0)	Tidak Lolos	Tidak Lolos	
19		ARMA(6,0,1)	Tidak Lolos	Tidak Lolos	
20		ARMA(6,0,2)	Tidak Lolos	Tidak Lolos	
21		IMF2Train	MA(0,0,1)	Tidak Lolos	Tidak Lolos
22			AR (1,0,0)	Tidak Lolos	Tidak

No	Data Set	Model ARIMA	Uji Keacakan	Uji Homogenitas
				Lolos
23		ARMA(1,0,1)	Tidak Lolos	Tidak Lolos
24	IMF3Train	MA(0,0,1)	Tidak Lolos	Tidak Lolos
25		MA(0,0,2)	Tidak Lolos	Tidak Lolos
26		MA(0,0,3)	Tidak Lolos	Tidak Lolos
27		MA(0,0,4)	Tidak Lolos	Tidak Lolos
28		AR (1,0,0)	Tidak Lolos	Tidak Lolos
29		ARMA(1,0,1)	Tidak Lolos	Tidak Lolos
30		ARMA(1,0,2)	Tidak Lolos	Tidak Lolos
31		ARMA(1,0,3)	Tidak Lolos	Tidak Lolos
32		ARMA(1,0,4)	Tidak Lolos	Tidak Lolos
33		IMF4Train	AR(1,0,0)	Tidak Lolos
34	IMF5Train	AR(1,0,0)	Tidak Lolos	Tidak Lolos
35	IMF6Train_Transl	AR(1,0,0)	Tidak Lolos	Tidak Lolos
36	IMF7Train_Transl	AR(1,0,0)	Tidak Lolos	Tidak Lolos
37	IMF8Train_Transl	AR(1,0,0)	Tidak Lolos	Tidak Lolos
38	ResidualTrain_Transl	AR(1,2,0)	Tidak Lolos	Tidak Lolos

5.3.10 Pemilihan Model ARIMA

Seluruh model yang telah melalui uji signifikansi dan uji diagnostik akan dipilih hanya salah satu dengan melihat nilai dari AIC (*Akaike Information Criterion*) dan SIC (*Schwarz Information Criterion*) yang paling kecil. Nilai AIC dan SIC didapatkan dari fungsi *estimate equation* menggunakan *software* Eviews. Untuk melihat nilai AIC dan SIC dirujuk pada gambar 5.44 sampai 5.50. Tabel 5.9 merupakan akumulasi model yang digunakan untuk masing-masing dataset yang akan menjadi data *input* untuk peramalan ARIMA.

Tabel 5.9 Model Terpilih

No	Dataset	Model	AIC	SIC
1	IMF1Train Trans1	ARMA(2,0,2)	-0.859711	-0.839851
2	IMF2Train	ARMA(1,0,1)	-0.365139	-0.345279
3	IMF3Train	ARMA(1,0,2)	-2.249779	-2.229919
4	IMF4Train	AR(1,0,0)	-2.458446	-2.445207
5	IMF5Train	AR (1,0,0)	-4.468432	-4.455192
6	IMF6Train Trans1	AR(1,0,0)	-5.061209	-5.047969
7	IMF7Train Trans1	AR(1,0,0)	-10.41011	-10.39687
8	IMF8Train Trans1	AR(1,0,0)	-7.655792	-7.642552
9	ResidualTrain Trans1	AR(1,2,0)	-16.09276	-16.08762

5.3.11 Peramalan ARIMA Data *Training*

Model yang terpilih akan dijadikan ordo “p”, “d”, dan “q” untuk masing-masing dataset. Peramalan ARIMA dilakukan menggunakan *software* Eviews dengan fungsi *forecast* setelah melakukan *estimate equation* dengan model yang telah ditentukan.

5.3.12 Detransformasi Hasil Peramalan

Hasil peramalan beberapa data yang dihasilkan pada sub bab 5.3.11 harus melalui detranformasi terlebih dahulu. Seluruh dataset kecuali data residual diberlakukan transformasi *reverse scoring* terlebih dahulu karena memiliki nilai negative didalamnya, persamaan 17 merupakan persamaan untuk melakukan detransformasi *reverse scoring*

$$x' = (\text{Nilai Maksimum Data Aktual}) - x + 1 \dots 17$$

Untuk beberapa data yang melalui transformasi selain *reverse scoring* harus melalui proses detransformasi kembali fungsi detransformasi untuk data yang menggunakan transformasi *box cox* tercantum pada Tabel 5.10

Tabel 5.10 Fungsi Detransformasi Box Cox

No	Data	Rumus Deransformasi
1	IMF1Train	= (Hasil Peramalan) ²
2	IMF6Train	= (Hasil Peramalan) ^(1/1.35)
3	IMF7Train	= (Hasil Peramalan) ^(1/-0.5)
4	IMF8Train	= (Hasil Peramalan) ^($\frac{1}{5}$)

Transformasi data residual menggunakan transformasi *johnson* yang memiliki persamaan tercantum pada Tabel 5.3. Rumus detransformasi *johnson* tercantum pada rumus 18.

$$x' = \frac{c + (d x e^{\frac{x-a}{b}})}{1 + e^{\frac{x-a}{b}}} \dots 18$$

Keterangan:

- x' = Nilai detransformasi
- x = Hasil peramalan
- c = 1.74855
- d = 3.62939
- a = 0.206262
- b = 0.61578
- e = Eksponensial

Nilai untuk variabel a, b, c, dan d tercantum pada Tabel 5.3.

5.3.13 Peramalan ARIMA Data *Testing*

Peramalan data *testing* dilakukan menggunakan *software* Eviews dengan fungsi *static forecast* setelah melakukan

estimate equation. Data input untuk peramalan data testing adalah proporsional data testing dari masing-masing dataset aktual.

Untuk data residual, peramalan untuk data *testing* dilakukan menggunakan *software* RStudio dengan fungsi “*sarima.for(x, n.ahead = ..., p, d, q)*”. Variabel “*x*” merupakan data input aktual residual untuk proporsi data *training*, variabel “*n.ahead*” merupakan *integer* yang mengartikan meramal berapa periode kedepan, variabel “*p*” merupakan ordo AR, variabel “*d*” merupakan jumlah *differencing*, variabel “*q*” merupakan ordo MA. Fungsi ini akan mengembalikan dua variabel, yaitu variabel hasil prediksi serta variabel *standard error*. Hasil prediksi sebanyak 76 baris akan menjadi hasil peramalan data testing.

5.4 Superposition

Superposition merupakan proses penggabungan seluruh peramalan masing-masing IMF serta residual. Hasil dari proses ini akan menjadi hasil peramalan terakhir dan akan menjadi data masukkan untuk proses analisa hasil peramalan.

5.5 Analisa Hasil Peramalan

Hasil peramalan akhir adalah agregasi seluruh hasil peramalan masing-masing IMF serta residual, data ini lalu digunakan untuk melakukan analisa hasil peramalan. Analisa hasil peramalan yang dilakukan menggunakan perhitungan MAPE dan MAE. Perhitungan ini dilakukan menggunakan *software Microsoft excel*. MAPE dihitung dengan menggunakan fungsi $AVERAGE(ABS(Data\ Aktual - Hasil\ Peramalan)/Data\ Aktual * 100)$, sedangkan MAE dihitung dengan $AVERAGE(ABS(Data\ Aktual - Hasil\ Peramalan))$.

5.6 Peramalan Periode Mendatang

Peramalan periode mendatang dilakukan sebanyak 31 periode dari 1 Oktober 2019 sampai 31 Oktober 2019 karena data yang

digunakan merupakan rata-rata perhari. Proses ini dilakukan menggunakan fungsi *forecast* pada *software* Eviews.

BAB VI

HASIL DAN PEMBAHASAN

6.1 Menentukan Model EEMD

Menurut skenario pada Tabel 4.4 nilai MAPE yang dihasilkan masing-masing model EEMD memiliki perbedaan, nilai MAPE dihasilkan dengan hasil prediksi merupakan hasil jumlah dari seluruh IMF serta Residual yang lalu dibandingkan dengan data aktual angin. Tabel 6.1 merupakan akumulasi dari nilai MAPE masing-masing model.

Tabel 6.1 Akumulasi Nilai MAPE

Skenario	Nilai MAPE
1	0.01346264
2	0.00796377
3	0.006308933
4	0.01346264
5	0.00796377
...	...
44	0.00796377
45	0.006308933
46	0.01346264
47	0.00796377
48	0.006308933

Tabel 6.1 menunjukkan bahwa nilai MAPE terkecil adalah 0.006308933. Nilai MAPE terlihat berulang dengan kelipatan tiga, hal ini disebabkan oleh nilai MAPE hanya dipengaruhi oleh salah satu parameter, yaitu “ensemble_size”.

Selain melihat nilai MAPE yang dihasilkan masing-masing model, model yang digunakan harus memiliki grafik residual yang dihasilkan memiliki karakteristik *non-seasonal linear trend*, grafik dari masing-masing residual yang dihasilkan masing-masing model tercantum pada lampiran. Karakteristik grafik residual hanya dipengaruhi oleh parameter “num_imfs” semakin besar nilai parameter ini, maka karakteristik grafik

residual yang dihasilkan makin mendekati karakteristik *non-seasonal linear trend*.

Penentuan model menggunakan syarat nilai MAPE paling kecil dan grafik hasil residual memiliki karakteristik *non-seasonal linear trend* dimiliki oleh dua model pada skenario tersebut, yaitu skenario ke-45 dan skenario ke-48. Pemilihan model dilanjutkan dengan mencari nilai rata-rata standar deviasi masing-masing IMF pada skenario ke-45 dan ke-48, model dengan standar deviasi yang terkecil akan menjadi model yang terpilih karena semakin kecil standar deviasi, maka karakteristik dari masing-masing dataset semakin stabil. Nilai dari rata-rata standar deviasi masing-masing skenario tercantum pada Tabel 6.2.

Tabel 6.2 Akumulasi Nilai Rata-Rata Standar Deviasi

Skenario	Nilai Rata-Rata Standar Deviasi
45	0.3638907
48	0.3648395

Dari hasil persyaratan model EEMD yang boleh digunakan, skenario yang memenuhi semua syarat adalah skenario ke-45.

6.2 Uji Stasioner Ragam

Uji stasioner dalam ragam dilakukan terhadap seluruh hasil dekomposisi, dari IMF 1 sampai IMF 8 serta residual. Berdasarkan uji yang telah dilakukan pada sub bab 5.3.2, ada beberapa dataset IMF yang tidak lolos uji stasioner dalam ragam.

Tabel 6.3 Akumulasi Hasil Uji Stasioner Ragam

No	Dataset	Nilai Lambda / P-Value	Keterangan
1	IMF 1	0,5	Tidak Lolos
2	IMF 2	1	Lolos
3	IMF 3	1	Lolos
4	IMF 4	1	Lolos
5	IMF 5	1	Lolos

No	Dataset	Nilai Lambda / P-Value	Keterangan
6	IMF 6	1,35	Tidak Lolos
7	IMF 7	-0,5	Tidak Lolos
8	IMF 8	5	Tidak Lolos
9	Residual	p-value <0.005	Tidak Lolos

Berdasarkan Tabel 6.3, beberapa dataset harus melalui proses transformasi terlebih dahulu sebelum dijadikan masukkan data untuk peramalan ARIMA.

6.3 Transformasi Data

Data yang belum lolos uji stasioner dalam ragam harus melalui proses transformasi terlebih dahulu. Persamaan transformasi masing-masing dataset tercantum pada Tabel 6.4. Hasil transformasi data IMF 1, IMF 6, IMF 7 tercantum pada Tabel 6.5, Hasil transformasi data IMF 8 dan residual tercantum pada Tabel 6.6. Untuk seluruh hasil transformasi masing-masing data tercantum pada LAMPIRAN.

Tabel 6.4 Akumulasi Hasil Uji Stasioner Ragam

No	Data	Rumus Transformasi
1	IMF 1	$= \sqrt{\text{IMF1Train } ke - n}$
2	IMF 6	$= (\text{IMF6Train } ke - n)^{1.35}$
3	IMF 7	$= \frac{1}{\sqrt{\text{IMF7Train } ke - n}}$
4	IMF 8	$= (\text{IMF8Train } ke - n)^5$
5	Residual	$0.206262 + 0.61578 \times \text{LN}((\text{ResidualTrain } Ke-n - 1.74855) / (3.62939 - \text{ResidualTrain } Ke-n))$

Tabel 6.5 Hasil Transformasi Data

Tanggal	IMF1	IMF6	IMF7
01/09/17	1.161639031	2.533555708	0.76909123
02/09/17	1.040809847	2.495700276	0.77137918
03/09/17	1.704936089	2.459502663	0.773641977
04/09/17	1.868488474	2.424922467	0.775879189
05/09/17	1.798530372	2.391920134	0.778090398
06/09/17	1.245634519	2.360456941	0.780275197
07/09/17	1.743204076	2.330494983	0.782433192
08/09/17	1.416595526	2.301997155	0.784564001
...
06/07/19	1.49881299	3.8295695	0.891039
07/07/19	1.777323993	3.803146963	0.88925797
08/07/19	1.428202115	3.776102833	0.887475707
09/07/19	1.268996259	3.748458094	0.885692473
10/07/19	1.792390549	3.720233121	0.883908524
11/07/19	1.61433071	3.691447734	0.882124114
12/07/19	1.254572572	3.662121437	0.880339489
13/07/19	1.377761618	3.632273287	0.878554892
14/07/19	1.822650425	3.601922112	0.876770559
15/07/19	1.252247135	3.57108654	0.874986724

Tabel 6.6 Hasil Transformasi Data

Tanggal	IMF8	Residual
01/09/17	1.504415872	-2.649377303
02/09/17	1.490936648	-2.589548209
03/09/17	1.477732389	-2.534846643
04/09/17	1.464797983	-2.484449279
05/09/17	1.452128436	-2.437716403
06/09/17	1.439718864	-2.39414107
07/09/17	1.427564494	-2.35331473
...
06/07/19	1.99842781	2.210102071
07/07/19	1.992102436	2.243023933
08/07/19	1.985768925	2.277693133
09/07/19	1.979427503	2.314312248
10/07/19	1.973078397	2.353121233

Tanggal	IMF8	Residual
11/07/19	1.966721834	2.394407217
12/07/19	1.960358038	2.438517748
13/07/19	1.953987234	2.485879025
14/07/19	1.947609646	2.537021588
15/07/19	1.941225498	2.592617422
16/07/19	1.93483501	2.653535187

6.4 Uji Stasioner Rataan Dan *Differencing*

Data masukkan peramalan ARIMA harus stasioner dalam rata-rata, data yang menjadi *input* untuk pengujian ini adalah data asli jika tidak melalui transformasi dan data setelah transformasi apabila melaluinya. Hasil uji stasioner rata-rata serta *differencing* yang dilakukan tercantum pada Tabel 6.7.

Tabel 6.7 Nilai Probabilitas Uji Stasioner Rataan

Data	Probabilitas			Ket
	Non Diff	Diff 1	Diff 2	
IMF 1	0	-	-	d = 0
IMF 2	0	-	-	d = 0
IMF 3	0	-	-	d = 0
IMF 4	0	-	-	d = 0
IMF 5	0	-	-	d = 0
IMF 6	0	-	-	d = 0
IMF 7	0	-	-	d = 0
IMF 8	0	-	-	d = 0
Residual	0.5614	0.3053	0	d = 2

Tabel 6.7 menunjukkan bahwa seluruh data kecuali data residual sudah stasioner dalam rata-rata. Data residual sudah stasioner dalam rata-rata setelah melalui proses *differencing* sebanyak dua kali.

6.5 Hasil Estimasi Parameter

Hasil estimasi parameter untuk menentukan ordo “p”, “d”, dan “q” tercantum pada Tabel 6.8. Nilai “I” pada Tabel 6.8 merupakan jumlah *differencing* yang dilakukan.

Tabel 6.8 Hasil Estimasi Parameter

No	Data	Parameter		
		AR	I	MA
1	IMF 1	6	0	2
2	IMF 2	1	0	1
3	IMF 3	1	0	4
4	IMF 4	1	0	0
5	IMF 5	1	0	0
6	IMF 6	1	0	0
7	IMF 7	1	0	0
8	IMF 8	1	0	0
9	Residual	1	2	0

6.6 Identifikasi Model Sementara

Dari hasil estimasi parameter pada Tabel 6.8, masing-masing dataset memiliki kombinasi model sementara dari variabel-variabel ordo yang telah ditentukan pada Tabel 6.8. Tabel 6.9 merupakan akumulasi model sementara masing-masing dataset.

Tabel 6.9 Identifikasi Model Sementara Seluruh Dataset

No	Model ARIMA	Dataset
1	MA(0,0,1)	IMF1
2	MA(0,0,2)	
3	AR(1,0,0)	
4	ARMA(1,0,1)	
5	ARMA(1,0,2)	
6	AR(2,0,0)	
7	ARMA(2,0,1)	
8	ARMA(2,0,2)	

No	Model ARIMA	Dataset	
9	AR (3,0,0)		
10	ARMA(3,0,1)		
11	ARMA(3,0,2)		
12	AR (4,0,0)		
13	ARMA(4,0,1)		
14	ARMA(4,0,2)		
15	AR (5,0,0)		
16	ARMA(5,0,1)		
17	ARMA(5,0,2)		
18	AR (6,0,0)		
19	ARMA(6,0,1)		
20	ARMA(6,0,2)		
21	MA(0,0,1)		IMF2
22	AR (1,0,0)		
23	ARMA(1,0,1)		
24	MA(0,0,1)		IMF3
25	MA(0,0,2)		
26	MA(0,0,3)		
27	MA(0,0,4)		
28	AR (1,0,0)		
29	ARMA(1,0,1)		
30	ARMA(1,0,2)		
31	ARMA(1,0,3)		
32	ARMA(1,0,4)		
33	AR(1,0,0)	IMF4	
34	AR(1,0,0)	IMF5	
35	AR(1,0,0)	IMF6	
36	AR(1,0,0)	IMF7	
37	AR(1,0,0)	IMF8	
38	AR(1,2,0)	Residual	

Pada Tabel 6.9 bisa disimpulkan bahwa data IMF 1 memiliki 20 model sementara, IMF 2 memiliki tiga model sementara, IMF 3 memiliki sembilan model sementara, IMF 4 memiliki satu model sementara, IMF 5 memiliki satu model sementara, IMF 6 memiliki satu model sementara, IMF 7 memiliki satu model sementara, IMF 8 memiliki satu model sementara, dan Residual memiliki satu model sementara.

6.7 Pemilihan Model ARIMA

Dari beberapa model yang dimiliki oleh masing-masing data, hanya ada satu model yang bisa digunakan untuk melakukan peramalan ARIMA, yaitu model yang lulus uji signifikansi, lolos uji diagnostik, dan memiliki SIC serta AIC terkecil.

Tabel 6.10 Nilai Probabilitas Uji Signifikansi

Data Set	Model ARIMA	Probabilitas			Ket
		AR	MA	SIGMASQ	
IMF1	(0,0,1)	-	0	0	Lolos
	(0,0,2)	-	0	0	Lolos
	(1,0,0)	0	-	0	Lolos
	(1,0,1)	0	0	0	Lolos
	(1,0,2)	0	0.0401	0	Lolos
	(2,0,0)	0	-	0	Lolos
	(2,0,1)	0	0	0	Lolos
	(2,0,2)	0	0	0	Lolos
	(3,0,0)	0	-	0	Lolos
	(3,0,1)	0	0	0	Lolos
	(3,0,2)	0	0.0095	0	Lolos
	(4,0,0)	0	-	0	Lolos
	(4,0,1)	0	0	0	Lolos
	(4,0,2)	0	0	0	Lolos
	(5,0,0)	0	-	0	Lolos
	(5,0,1)	0	0	0	Lolos
	(5,0,2)	0	0	0	Lolos
	(6,0,0)	0	-	0	Lolos
	(6,0,1)	0	0	0	Lolos
	(6,0,2)	0	0	0	Lolos
IMF2	(0,0,1)	-	0	0	Lolos

Data Set	Model ARIMA	Probabilitas			Ket
		AR	MA	SIGMASQ	
	(1,0,0)	0	-	0	Lolos
	(1,0,1)	0	0	0	Lolos
IMF3	(0,0,1)	-	0.9907	0.6613	Tidak Lolos
	(0,0,2)	-	0.8933	0.7874	Tidak Lolos
	(0,0,3)	-	0.9399	0.88	Tidak Lolos
	(0,0,4)	-	0	0	Lolos
	(1,0,0)	0	-	0	Lolos
	(1,0,1)	0	0.2551	0	Tidak Lolos
	(1,0,2)	0	0	0	Lolos
	(1,0,3)	0	0	0	Lolos
	(1,0,4)	0	0	0	Lolos
IMF 4	(1,0,0)	0	-	0	Lolos
IMF 5	(1,0,0)	0	-	0	Lolos
IMF 6	(1,0,0)	0	-	0	Lolos
IMF 7	(1,0,0)	0	-	0	Lolos
IMF 8	(1,0,0)	0	-	0	Lolos
Residual	(1,2,0)	0	-	0	Lolos

Tabel 6.10 merupakan nilai probabilitas dari masing-masing variabel saat melakukan uji signifikansi. Model dinyatakan lulus uji signifikansi apabila nilai probabilitas > 0.05 .

Tabel 6.11 Nilai T-Statistic Uji Signifikansi

Data Set	Model ARIMA	T-Statistic			Ket
		AR	MA	SIGMASQ	
IMF1	(0,0,1)	-	31.02877	7.179219	Lolos
	(0,0,2)	-	30.59367	7.692892	Lolos
	(1,0,0)	161.2665	-	16.56114	Lolos

Data Set	Model ARIMA	T-Statistic			Ket
		AR	MA	SIGMASQ	
	(1,0,1)	16241.01	- 1849.262	17.09589	Lolos
	(1,0,2)	174.915	- 2.056158	16.30134	Lolos
	(2,0,0)	162.8617	-	21.05391	Lolos
	(2,0,1)	427381.4	- 69.34255	23.91512	Lolos
	(2,0,2)	6626227	- 14075.21	18.59326	Lolos
	(3,0,0)	181.3452	-	20.40302	Lolos
	(3,0,1)	255059.5	- 74.01118	26.79722	Lolos
	(3,0,2)	200.5732	- 2.599748	18.77365	Lolos
	(4,0,0)	197.3451	-	17.2871	Lolos
	(4,0,1)	130109.1	-81.0993	26.4553	Lolos
	(4,0,2)	11594.02	-52.3433	18.4469	Lolos
	(5,0,0)	188.6478	-	17.51839	Lolos
	(5,0,1)	59893.99	-75.4930	22.8257	Lolos
	(5,0,2)	247.3156	-4.78749	17.32306	Lolos
	(6,0,0)	183.1783	-	17.10635	Lolos
	(6,0,1)	33231.37	-63.5956	19.85557	Lolos
	(6,0,2)	366.6436	-10.2357	17.00303	Lolos
	IMF2	(0,0,1)	-	144.334	5.2198
(1,0,0)		185.3139	-	18.37148	Lolos
(1,0,1)		155.9843	74.06099	17.36629	Lolos
IMF3	(0,0,1)	-	0.011651	0.438366	Tidak Lolos
	(0,0,2)	-	0.134228	0.26977	Tidak Lolos
	(0,0,3)	-	0.075428	0.150992	Tidak Lolos

Data Set	Model ARIMA	T-Statistic			Ket
		AR	MA	SIGMASQ	
	(0,0,4)	-	61.68896	7.200231	Lolos
	(1,0,0)	481.1695	-	20.93825	Lolos
	(1,0,1)	460.522	1.139019	4.21119	Tidak Lolos
	(1,0,2)	405.9519	70.58376	20.7828	Lolos
	(1,0,3)	321.0742	41.92095	18.49102	Lolos
	(1,0,4)	14169.58	-88.6118	27.94339	Lolos
IMF 4	(1,0,0)	938.3803	-	22.91491	Lolos
IMF 5	(1,0,0)	1742.548	-	15.42816	Lolos
IMF 6	(1,0,0)	1447.407	-	21.22657	Lolos
IMF 7	(1,0,0)	9441.516	-	12.41594	Lolos
IMF 8	(1,0,0)	3341.044	-	12.32903	Lolos
Residual	(1,2,0)	995.2092	-	108.4282	Lolos

Terlihat pada Tabel 6.11 bahwa ada beberapa model yang tidak lulus uji signifikansi jika dilihat dari nilai $|t\text{-statistic}|$, syarat dari lolos uji signifikansi adalah nilai $|t\text{-statistic}| >$ nilai $t\text{-table}$. Nilai $t\text{-table}$ bisa dilihat pada Table Z, dengan nilai $t\text{-table}$ samadengan 1.98.

Tabel 6.12 Nilai Probabilitas Uji Diagnostik Keacakan Dan Homogen

Data	Model ARIMA	Keacakan	Homogenitas	Ket
IMF 1	MA(0,0,1)	0	0	Tidak Lolos
	MA(0,0,2)	0	0	Tidak Lolos
	AR(1,0,0)	0	0	Tidak Lolos
	ARMA(1,0,1)	0.00341176	0	Tidak Lolos
	ARMA(1,0,2)	0.01432353	0	Tidak Lolos

Data	Model ARIMA	Keacakan	Homogenitas	Ket
	AR (2,0,0)	0	0	Tidak Lolos
	ARMA(2,0,1)	0.038	0	Tidak Lolos
	ARMA(2,0,2)	0	0	Tidak Lolos
	AR (3,0,0)	0	0	Tidak Lolos
	ARMA(3,0,1)	0	0	Tidak Lolos
	ARMA(3,0,2)	0	0	Tidak Lolos
	AR (4,0,0)	0	0	Tidak Lolos
	ARMA(4,0,1)	0	0	Tidak Lolos
	ARMA(4,0,2)	0	0	Tidak Lolos
	AR (5,0,0)	0	0	Tidak Lolos
	ARMA(5,0,1)	0	0	Tidak Lolos
	ARMA(5,0,2)	0	0	Tidak Lolos
	AR (6,0,0)	0	0	Tidak Lolos
	ARMA(6,0,1)	0	0	Tidak Lolos
	ARMA(6,0,2)	0	0	Tidak Lolos
IMF 2	MA(0,0,1)	0	0	Tidak Lolos
	AR (1,0,0)	0	0	Tidak Lolos
	ARMA(1,0,1)	0	0	Tidak Lolos
IMF 3	MA(0,0,1)	0	0	Tidak Lolos

Data	Model ARIMA	Keacakan	Homogenitas	Ket
	MA(0,0,2)	0	0	Tidak Lolos
	MA(0,0,3)	0	0	Tidak Lolos
	MA(0,0,4)	0	0	Tidak Lolos
	AR (1,0,0)	0	0	Tidak Lolos
	ARMA(1,0,1)	0	0	Tidak Lolos
	ARMA(1,0,2)	0	0	Tidak Lolos
	ARMA(1,0,3)	0	0	Tidak Lolos
	ARMA(1,0,4)	0	0	Tidak Lolos
IMF 4	AR(1,0,0)	0	0	Tidak Lolos
IMF 5	AR (1,0,0)	0	0	Tidak Lolos
IMF 6	AR (1,0,0)	0	0	Tidak Lolos
IMF 7	AR (1,0,0)	0	0	Tidak Lolos
IMF 8	AR (1,0,0)	0	0	Tidak Lolos
Residual	AR (1,0,0)	0	0	Tidak Lolos

Pada Tabel 6.12 terlihat bahwa tidak ada satupun model dengan dataset masing-masing yang lulus uji diagnostik. Hal ini terjadi karena data masukkan untuk melakukan peramalan ARIMA memiliki karakteristik sinusoidal kecuali untuk data Residual.

Tabel 6.13 Nilai AIC Dan SIC

Data Set	Model ARIMA	AIC	SIC
IMF 1	MA(0,0,1)	2.612036	2.625276
	MA(0,0,2)	2.655179	2.668419
	AR(1,0,0)	0.018926	0.032166
	ARMA(1,0,1)	-0.875412	-0.855553
	ARMA(1,0,2)	0.015697	0.035556
	AR (2,0,0)	0.023897	-0.037136
	ARMA(2,0,1)	-0.459715	-0.439856
	ARMA(2,0,2)	-0.859711	-0.839851
	AR (3,0,0)	-0.184307	-0.184307
	ARMA(3,0,1)	-0.511269	-0.491409
	ARMA(3,0,2)	-0.191605	-0.171745
	AR (4,0,0)	-0.301696	-0.288456
	ARMA(4,0,1)	-0.587746	-0.567886
	ARMA(4,0,2)	-0.484374	-0.464515
	AR (5,0,0)	-0.212202	-0.198962
	ARMA(5,0,1)	-0.517094	-0.497235
	ARMA(5,0,2)	-0.251521	-0.231662
	AR (6,0,0)	-0.147898	-0.134658
	ARMA(6,0,1)	-0.445514	-0.425654
ARMA(6,0,2)	-0.234546	-0.214687	
IMF 2	MA(0,0,1)	3.197836	3.211076
	AR (1,0,0)	0.629996	0.643236
	ARMA(1,0,1)	-0.365139	-0.345279
IMF 3	MA(0,0,1)	3.205768	3.219008
	MA(0,0,2)	3.218323	3.231563
	MA(0,0,3)	3.236233	3.249473

Data Set	Model ARIMA	AIC	SIC
	MA(0,0,4)	3.322991	3.336231
	AR (1,0,0)	-1.238169	-1.224929
	ARMA(1,0,1)	-2.538814	-2.518954
	ARMA(1,0,2)	-2.249779	-2.229919
	ARMA(1,0,3)	-1.730003	-1.710144
	ARMA(1,0,4)	-1.782804	-1.762945
IMF 4	AR(1,0,0)	-2.458446	-2.445207
IMF 5	AR (1,0,0)	-4.468432	-4.455192
IMF 6	AR(1,0,0)	-5.061209	-5.047969
IMF 7	AR(1,0,0)	-10.41011	-10.39687
IMF 8	AR(1,0,0)	-7.655792	-7.642552
Residual	AR(1,2,0)	-16.09276	-16.08762

Tabel 6.13 merupakan nilai AIC dan SIC masing-masing model. Pada Tabel 6.13 terlihat nilai paling kecil masing-masing AIC serta SIC. Untuk data IMF 1, yang digunakan adalah model ARMA(2,0,2), walau model ARMA(1,0,1) memiliki nilai AIC serta SIC lebih kecil, model ARMA(1,0,1) tidak berhasil melakukan *converging* setelah melakukan 500 iterasi, maka dari itu model yang digunakan untuk IMF 1 adalah model ARMA(2,0,2). Nilai SIC dan AIC terkecil pada IMF 2 adalah model ARMA(1,0,1). Nilai SIC dan AIC terkecil pada IMF 3 adalah model ARMA(1,0,2), walau nilai SIC dan AIC lebih besar daripada model ARMA(1,0,1) model ini lulus uji signifikansi, IMF 4 sampai IMF 8 serta residual hanya memiliki satu model yaitu AR(1,0,0) untuk masing masing IMF dan AR(1,2,0) untuk data Residual.

6.8 Peramalan ARIMA

Model yang telah terpilih dengan penjelasan pada sub bab 6.7 digunakan sebagai model untuk melakukan peramalan ARIMA.

Tabel 6.14 Hasil Peramalan Data Training IMF 1

Periode	Data Input	Hasil Peramalan
1	1.161639031	
2	1.040809847	
3	1.704936089	1.150055083
4	1.868488474	1.030430816
5	1.798530372	1.426105325
6	1.245634519	1.447359883
...		
678	1.540084169	0.025247028
679	1.538017805	0.021348997
680	1.539284509	0.022938351
681	1.538768159	0.020669442
682	1.539505231	0.025510042
683	1.537932299	0.022129641
684	1.539030915	0.022941179

Tabel 6.14 berisi data input serta hasil peramalan, data input yang dimaksud adalah data IMF 1 yang telah melalui proses transformasi *reverse scoring* serta transformasi *box cox*. Kedua baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai dua.



Gambar 6.1 Hasil Peramalan IMF1Train_Trans1

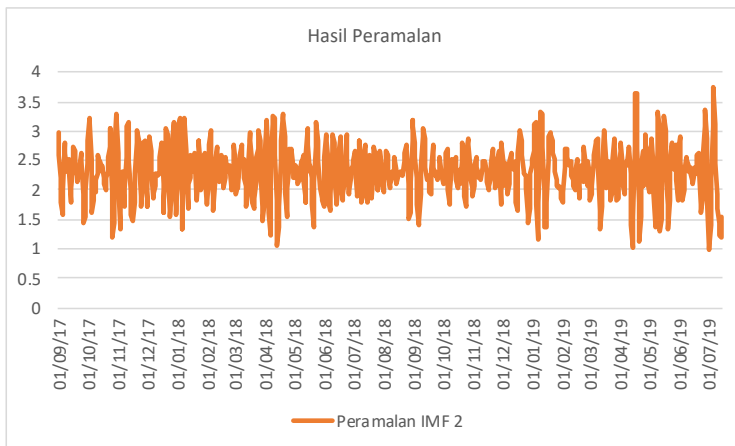
Gambar 6.1 merupakan hasil peramalan menggunakan data *input* IMF1Train_Trans1 (data *training* yang melewati proses transformasi *reverse scoring* serta *box cox* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(2,0,2)

Tabel 6.15 Hasil Peramalan Data Training IMF 2

Periode	Data Input	Hasil Peramalan
1	2.989973499	
2	2.740789179	2.970249889
3	2.369516543	2.589749084
4	1.970174823	2.191718456
5	1.684326213	1.778618306
6	1.830666311	1.587051132
...
679	1.803301834	1.91391588
680	1.566759381	1.675209371
681	1.35030753	1.443825924
682	1.234003714	1.244309501

Periode	Data Input	Hasil Peramalan
683	1.392189432	1.208017794
684	1.890158124	1.547532816

Tabel 6.15 berisi data input serta hasil peramalan, data input yang dimaksud adalah data IMF 2 yang telah melalui proses transformasi *reverse scoring*. Satu baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai satu.



Gambar 6.2 Hasil Peramalan IMF2Train

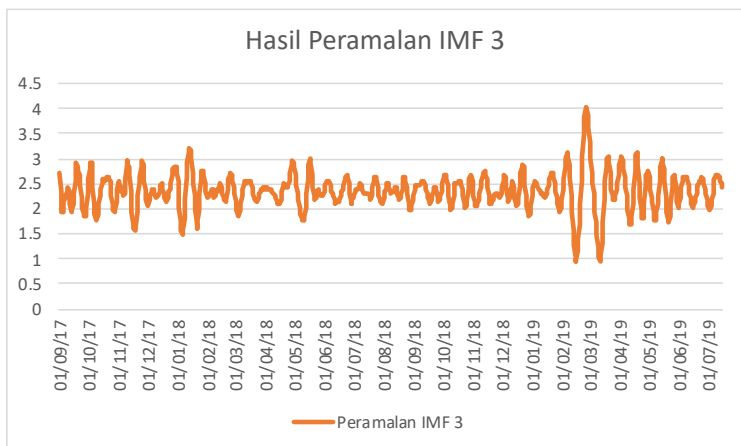
Gambar 6.2 merupakan hasil peramalan menggunakan data *input* IMF2Train (data *training* yang melewati proses transformasi *reverse scoring* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(1,0,1)

Tabel 6.16 Hasil Peramalan Data Training IMF 3

Periode	Data Input	Hasil Peramalan
1	2.70102993	
2	2.329644214	2.698661396
3	2.121180552	2.32809142

Periode	Data Input	Hasil Peramalan
4	2.04221394	1.933045537
5	2.059319372	1.935240875
6	2.139071843	2.128374027
...
679	2.675644744	2.667510756
680	2.666904277	2.683947706
681	2.635228618	2.669985357
682	2.586752456	2.614371709
683	2.523055499	2.549100092
684	2.442569237	2.492316533

Tabel 6.16 berisi data input serta hasil peramalan, data input yang dimaksud adalah data IMF 3 yang telah melalui proses transformasi *reverse scoring*. Satu baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai satu.



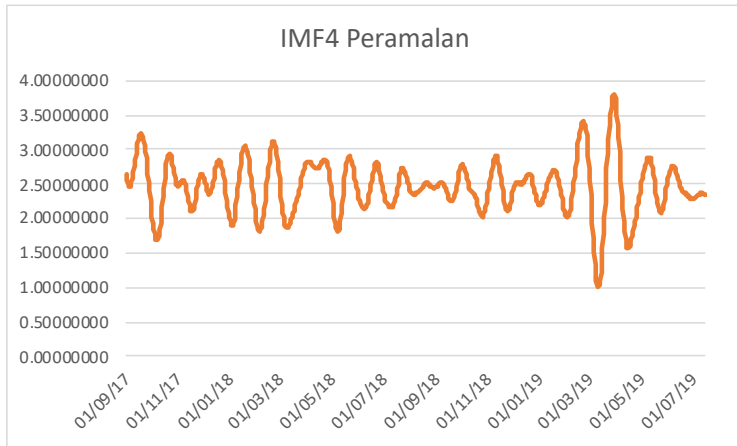
Gambar 6.3 Hasil Peramalan IMF3Train

Gambar 6.3 merupakan hasil peramalan menggunakan data *input* IMF3Train (data *training* yang melewati proses transformasi *reverse scoring* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(1,0,2).

Tabel 6.17 Hasil Peramalan Data Training IMF 4

Periode	Data Input	Hasil Peramalan
1	2.643339509	
2	2.543589731	2.64229616
3	2.481642566	2.54258576
4	2.453283624	2.48066304
5	2.454298518	2.45231529
6	2.480472863	2.45332979
...
679	2.364005525	2.362781289
680	2.362170282	2.363072435
681	2.358737299	2.361237916
682	2.354571908	2.357806288
683	2.350746309	2.353642541
684	2.348330266	2.349818452

Tabel 6.17 berisi data input serta hasil peramalan, data input yang dimaksud adalah data IMF 4 yang telah melalui proses transformasi *reverse scoring*. Satu baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai satu.



Gambar 6.4 Hasil Peramalan IMF4Train

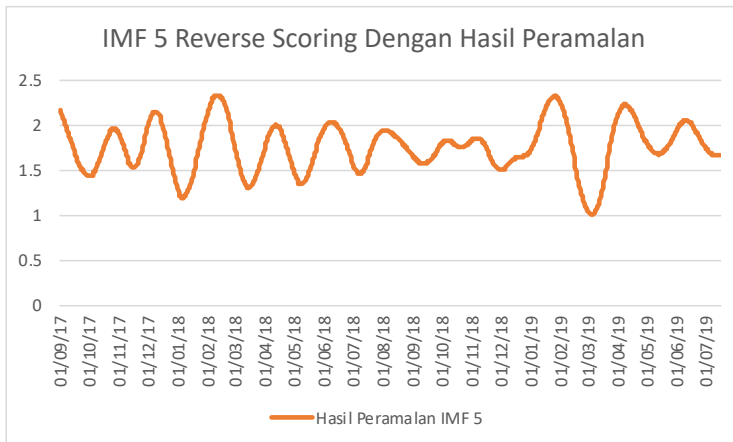
Gambar 6.4 merupakan hasil peramalan menggunakan data *input* IMF4Train (data *training* yang melewati proses transformasi *reverse scoring* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(1,0,0).

Tabel 6.18 Hasil Peramalan Data Training IMF 5

Periode	Data Input	Hasil Peramalan
1	2.16870578	
2	2.13985658	2.16851404
3	2.11001025	2.13966739
4	2.07930577	2.1098237
5	2.04788213	2.07912194
6	2.0158783	2.04770107
...		
679	1.66440766	1.66512008

Periode	Data Input	Hasil Peramalan
680	1.66493787	1.66426051
681	1.66675955	1.66479068
682	1.66975868	1.66661219
683	1.67381055	1.66961106
684	1.67878517	1.67366257

Tabel 6.18 berisi data input serta hasil peramalan, data input yang dimaksud adalah data IMF 5 yang telah melalui proses transformasi *reverse scoring*. Satu baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai satu.



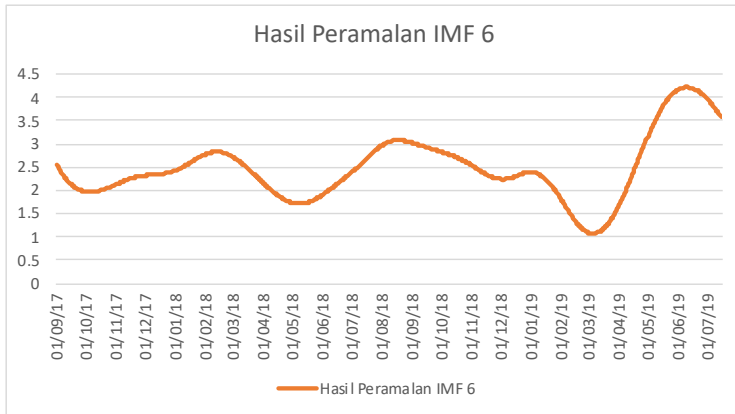
Gambar 6.5 Hasil Peramalan IMF5Train

Gambar 6.5 merupakan hasil peramalan menggunakan data *input* IMF5Train (data *training* yang melewati proses transformasi *reverse scoring* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(1,0,0).

Tabel 6.19 Hasil Peramalan Data Training IMF 6

Periode	Data Input	Hasil Peramalan
1	2.533555708	
2	2.495700276	2.533506915
3	2.459502663	2.495652213
4	2.424922467	2.4594552965
5	2.391920134	2.4248757665
6	2.360456941	2.3918740692
...
679	3.691447734	3.720161475
680	3.662121437	3.691376643
681	3.632273287	3.66205091
682	3.601922112	3.632203335
683	3.57108654	3.601852744
684	3.539784928	3.571017767

Tabel 6.19 berisi data input serta hasil peramalan, data input yang dimaksud adalah data IMF 6 yang telah melalui proses transformasi *reverse scoring* serta transformasi *box cox*. Satu baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai satu.



Gambar 6.6 Hasil Peramalan IMF6Train_Trans1

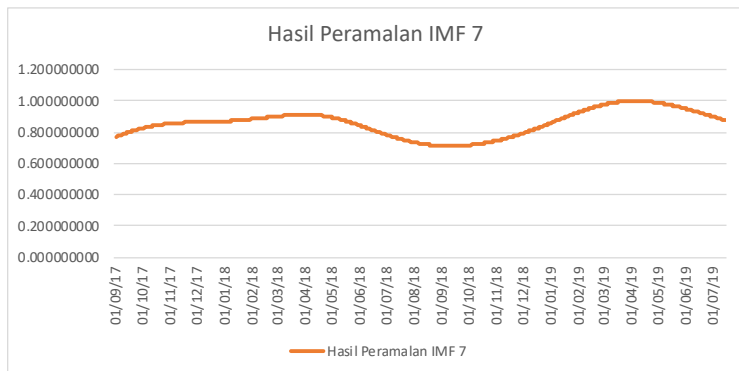
Gambar 6.6 merupakan hasil peramalan menggunakan data *input* IMF6Train_Trans1 (data *training* yang melewati proses transformasi *reverse scoring* dan *box cox* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(1,0,0).

Tabel 6.20 Hasil Peramalan Data Training IMF 7

Periode	Data Input	Hasil Peramalan
1	0.76909123	
2	0.77137918	0.769090253
3	0.773641977	0.7713782
4	0.775879189	0.773640993
5	0.778090398	0.775878202638
6	0.780275197	0.778089409
...
679	0.882124114	0.883907401
680	0.880339489	0.882122993

Periode	Data Input	Hasil Peramalan
681	0.878554892	0.880338371
682	0.876770559	0.878553775
683	0.874986724	0.876769445
684	0.873203613	0.874985612

Tabel 6.20 berisi data input serta hasil peramalan, data input yang dimaksud adalah data IMF 7 yang telah melalui proses transformasi *reverse scoring* serta transformasi *box cox*. Satu baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai satu.



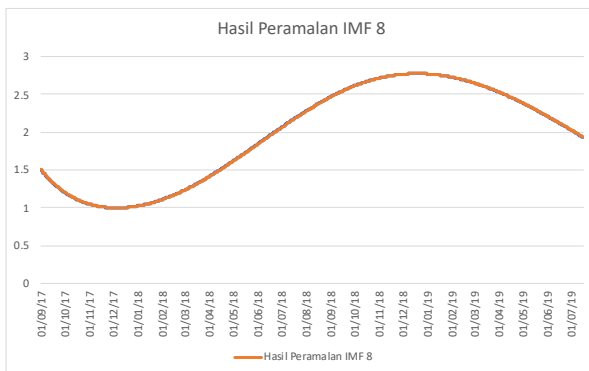
Gambar 6.7 Hasil Peramalan IMF7Train_Trans1

Gambar 6.7 merupakan hasil peramalan menggunakan data *input* IMF7Train_Trans1 (data *training* yang melewati proses transformasi *reverse scoring* dan *box cox* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(1,0,0).

Tabel 6.21 Hasil Peramalan Data Training IMF 8

Periode	Data Input	Hasil Peramalan
1	1.50441587	
2	1.49093665	1.5044091
3	1.47773239	1.49092993
4	1.46479798	1.47772573
5	1.45212844	1.46479139
6	1.43971886	1.4521219
...
679	1.96672183	1.97306951
680	1.96035804	1.96671298
681	1.95398723	1.96034921
682	1.94760965	1.95397844
683	1.9412255	1.94760088
684	1.93483501	1.94121676

Tabel 6.21 berisi data input serta hasil peramalan, data input yang dimaksud adalah data IMF 8 yang telah melalui proses transformasi *reverse scoring* serta transformasi *box cox*. Satu baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai satu.



Gambar 6.8 Hasil Peramalan IMF8Train_Trans1

Gambar 6.8 merupakan hasil peramalan menggunakan data *input* IMF8Train_Trans1 (data *training* yang melewati proses transformasi *reverse scoring* dan *box cox* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(1,0,0).

Tabel 6.22 Hasil Peramalan Data Training Residual

Periode	Data Input	Hasil Peramalan Residual
1	-2.649455951	
2	-2.589620153	
3	-2.534898693	
4	-2.484497813	-0.005113744
5	-2.437774294	-0.004320079
6	-2.394195625	-0.003676935
...		
679	2.394411745	0.002183874
680	2.438516756	0.002481949
681	2.485878326	0.002817604
682	2.537028425	0.003256181
683	2.592624557	0.003788089
684	2.653533228	0.004445518

Tabel 6.22 berisi data input serta hasil peramalan, data input yang dimaksud adalah data Residual yang telah melalui proses transformasi *reverse scoring* serta transformasi *johnson*. Ketiga baris pertama hasil peramalan kosong disebabkan oleh model yang digunakan memiliki ordo AR bernilai satu serta melalui *differencing* 2 kali.



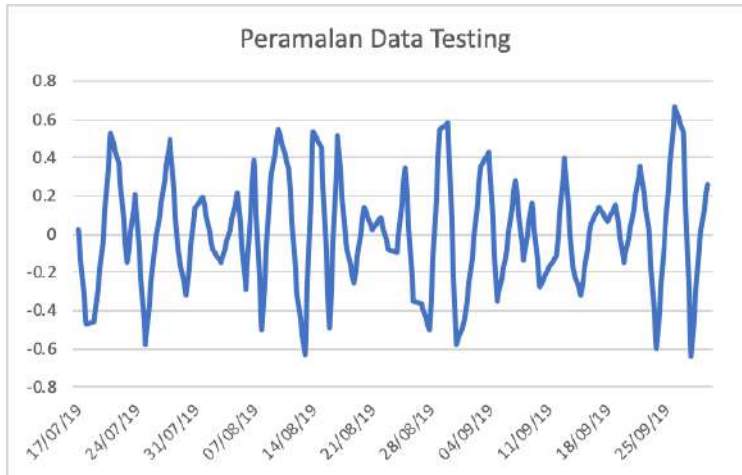
Gambar 6.9 Hasil Peramalan ResidualTrain_Trans1

Gambar 6.9 merupakan hasil peramalan menggunakan data *input* ResidualTrain_Trans1 (data *training* yang melewati proses transformasi *reverse scoring* dan *johnson* terlebih dahulu). Peramalan ini menggunakan model dengan SIC dan AIC terkecil yaitu model ARMA(1,2,0).

Tabel 6.23 Hasil Peramalan Data Testing IMF 1

Periode	Aktual IMF 1	Hasil Peramalan
1	0.022014154	-0.465642013
2	-0.954652383	-0.454178296
3	-0.627731566	-0.059800002
4	0.327377076	0.525524871
5	-0.278439609	0.369661755
6	0.947300636	-0.143121485
...
71	1.173064871	0.663576801
72	0.162369274	0.532301254
73	-0.545809968	-0.635360222
74	-0.712234397	-0.043689503
75	0.566594652	0.262808577
76	0.462889554	0.421853817

Tabel 6.23 berisikan data aktual IMF 1 serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 2 baris di atasnya karena menggunakan ordo AR samadengan dua.



Gambar 6.10 Grafik Hasil Peramalan Data Testing IMF 1

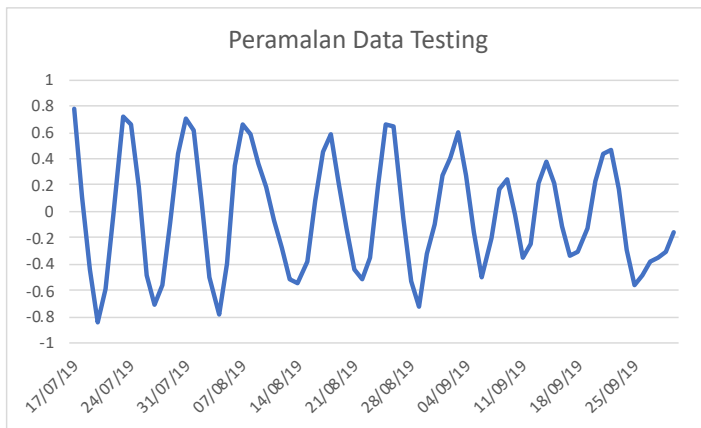
Gambar 6.10 merupakan grafik dari hasil peramalan data *testing* IMF 1 menggunakan model ARMA(2,0,2).

Tabel 6.24 Hasil Peramalan Data Testing IMF 2

Periode	Data Aktual	Hasil Peramalan
1	-0.276596631	0.103640028
2	-0.827986715	-0.445735269
3	-0.861009078	-0.842985878
4	-0.347757717	-0.588304302
5	0.451160019	-0.029983726
6	0.838305715	0.714957819
...		
71	-0.522548712	-0.483490616

Periode	Data Aktual	Hasil Peramalan
72	-0.442128006	-0.38673308
73	-0.392588512	-0.349267325
74	-0.273932366	-0.304352645
75	-0.063677397	-0.152518081
76	0.236502519	0.045257465

Tabel 6.24 berisikan data aktual IMF 2 serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 1 baris di atasnya karena menggunakan ordo AR samadengan satu.



Gambar 6.11 Grafik Hasil Peramalan Data Testing IMF 2

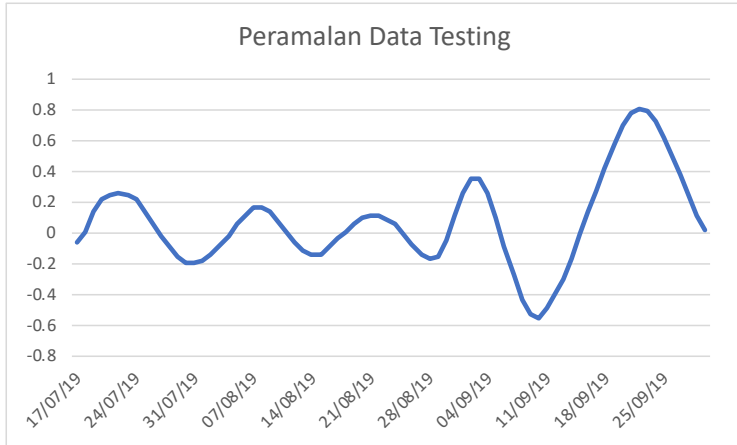
Gambar 6.11 merupakan grafik dari hasil peramalan data *testing* IMF 2 menggunakan model ARMA(1,0,1).

Tabel 6.25 Hasil Peramalan Data Testing IMF 3

Periode	Data Aktual	Hasil Peramalan
1	0.095215969	-0.000498441

Periode	Data Aktual	Hasil Peramalan
2	0.174270237	0.135995413
3	0.229435423	0.213165251
4	0.256129755	0.242637048
5	0.254105497	0.253072765
6	0.223730983	0.250433475
...
71	0.44863088	0.500318586
72	0.316494851	0.382769296
73	0.189760177	0.24899713
74	0.079596933	0.114910572
75	-0.002824806	0.017590781
76	-0.046334968	-0.037080373

Tabel 6.25 berisikan data aktual IMF 3 serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 1 baris di atasnya karena menggunakan ordo AR samadengan satu.



Gambar 6.12 Grafik Hasil Peramalan Data Testing IMF 3

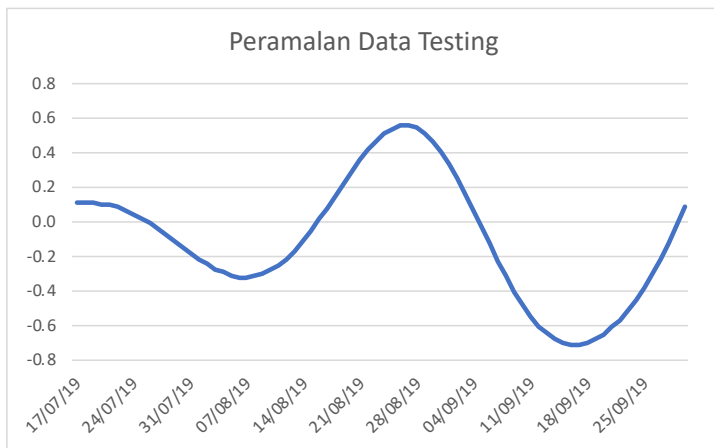
Gambar 6.12 merupakan grafik dari hasil peramalan data *testing* untuk IMF 3 menggunakan model ARMA(1,0,2).

Tabel 6.26 Hasil Peramalan Data Testing IMF 4

Periode	Data Aktual	Hasil Peramalan
1	0.108770079	0.107070254
2	0.105377786	0.107059907
3	0.097789167	0.103720951
4	0.085469445	0.096251646
5	0.068203517	0.084125625
6	0.046065558	0.067131166
...
71	-0.215706742	-0.29821854
72	-0.121042201	-0.212315225
73	-0.019225885	-0.119139077

Periode	Data Aktual	Hasil Peramalan
74	0.089504972	-0.0189236
75	0.204913135	0.088097702
76	0.326761371	0.201691324

Tabel 6.26 berisikan data aktual IMF 4 serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 1 baris di atasnya karena menggunakan ordo AR samadengan satu.



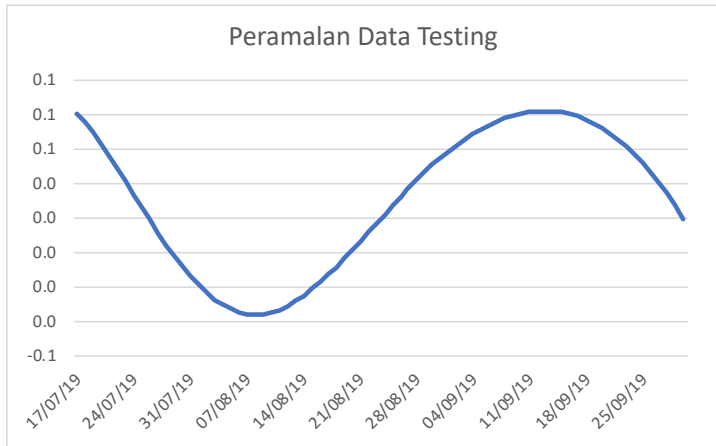
Gambar 6.13 Grafik Hasil Peramalan Data Testing IMF 4

Gambar 6.13 merupakan grafik dari hasil peramalan data *testing* untuk IMF 4 menggunakan model AR(1,0,0).

Tabel 6.27 Hasil Peramalan Data Testing IMF 5

Periode	Data Aktual	Hasil Peramalan
1	0.069562039	0.075061096
2	0.063148401	0.069318567
3	0.056222872	0.062927378
4	0.048926641	0.056026088
5	0.041398677	0.048755394
6	0.033771977	0.041253779
...
71	0.040781909	0.046586712
72	0.034297624	0.040639169
73	0.027287185	0.03417758
74	0.019740288	0.027191678
75	0.011646629	0.019671195
76	0.002995905	0.011605865

Tabel 6.27 berisikan data aktual IMF 5 serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 1 baris di atasnya karena menggunakan ordo AR samadengan satu.



Gambar 6.14 Grafik Hasil Peramalan Data Testing IMF 5

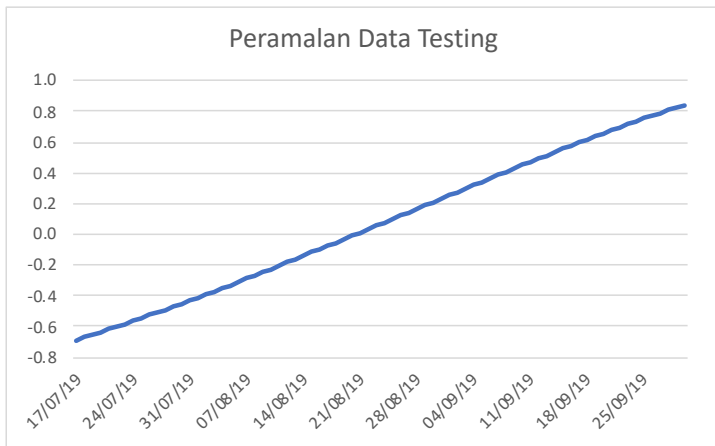
Gambar 6.14 merupakan grafik dari hasil peramalan data *testing* untuk IMF 5 menggunakan model AR(1,0,0).

Tabel 6.28 Hasil Peramalan Data Testing IMF 6

Periode	Data Aktual	Hasil Peramalan
1	-0.653480751	-0.670210881
2	-0.63625279	-0.65325871
3	-0.618762507	-0.636036602
4	-0.601017536	-0.618552262
5	-0.583025464	-0.60081332
6	-0.564793876	-0.582827362
...
71	0.790374642	0.771563109
72	0.808699407	0.790106086
73	0.82679272	0.808424625

Periode	Data Aktual	Hasil Peramalan
74	0.844647646	0.82651179
75	0.862257247	0.844360649
76	0.879614588	0.861964267

Tabel 6.28 berisikan data aktual IMF 6 serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 1 baris di atasnya karena menggunakan ordo AR samadengan satu.



Gambar 6.15 Grafik Hasil Peramalan Data Testing IMF 6

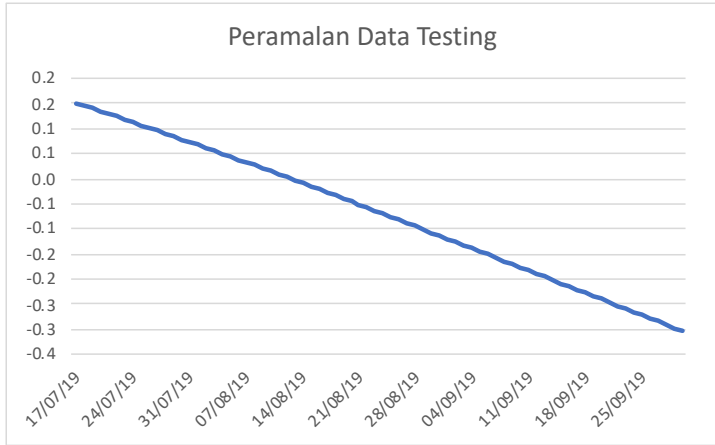
Gambar 6.15 merupakan grafik dari hasil peramalan data *testing* untuk IMF 6 menggunakan model AR(1,0,0).

Tabel 6.29 Hasil Peramalan Data Testing IMF 7

Periode	Data Aktual	Hasil Peramalan
1	0.139504819	0.14483126

Periode	Data Aktual	Hasil Peramalan
2	0.134105464	0.139463018
3	0.12867705	0.134065281
4	0.123220023	0.128638493
5	0.117734831	0.123183102
6	0.112221918	0.117699553
...
71	-0.284207127	-0.277766017
72	-0.29056326	-0.284121967
73	-0.296917225	-0.290476196
74	-0.303268576	-0.296828257
75	-0.309616867	-0.303177705
76	-0.315961651	-0.309524094

Tabel 6.29 berisikan data aktual IMF 7 serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 1 baris di atasnya karena menggunakan ordo AR samadengan satu.



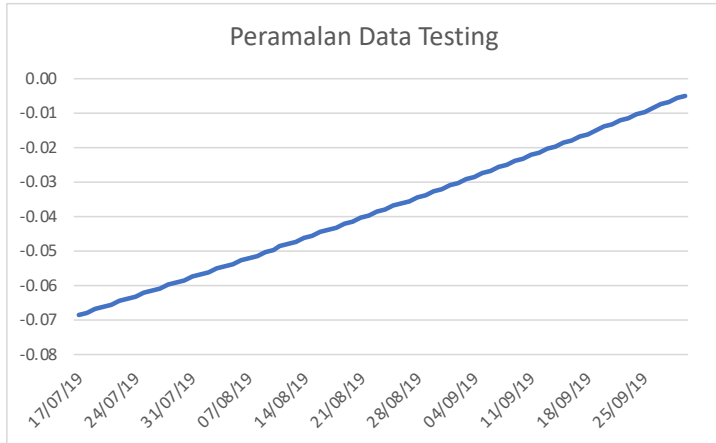
Gambar 6.16 Grafik Hasil Peramalan Data Testing IMF 7

Gambar 6.16 merupakan grafik dari hasil peramalan data testing untuk IMF 7 menggunakan model AR(1,0,0).

Tabel 6.30 Hasil Peramalan Data Testing IMF 8

Periode	Data Aktual	Hasil Peramalan
1	-0.066803418	-0.0675482
2	-0.066045203	-0.066792811
3	-0.065284289	-0.066034716
4	-0.064520686	-0.065273924
5	-0.063754401	-0.064510442
6	-0.062985444	-0.063744279
...
71	-0.007677556	-0.008600637
72	-0.006750997	-0.007676337
73	-0.005822335	-0.006749925
74	-0.004891579	-0.005821411
75	-0.003958736	-0.004890802
76	-0.003023816	-0.003958108

Tabel 6.30 berisikan data aktual IMF 8 serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 1 baris di atasnya karena menggunakan ordo AR samadengan satu.



Gambar 6.17 Grafik Hasil Peramalan Data Testing IMF 8

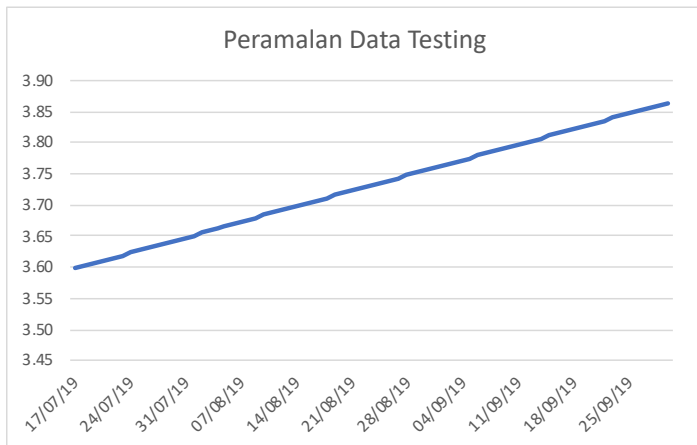
Gambar 6.17 merupakan grafik dari hasil peramalan data *testing* untuk IMF 8 menggunakan model AR(1,0,0).

Tabel 6.31 Hasil Peramalan Data Testing Residual

Periode	Data Aktual	Hasil Peramalan
1	3.598231	3.598229616
2	3.601771	3.601766537
3	3.605313	3.605304512
4	3.608858	3.60884334
5	3.612405	3.612382855
6	3.615955	3.615922927
...
71	3.852098	3.846169706
72	3.855815	3.849712115

Periode	Data Aktual	Hasil Peramalan
73	3.859533	3.853254524
74	3.863255	3.856796934
75	3.866979	3.860339343
76	3.870705	3.863881752

Tabel 6.31 berisikan data aktual Residual serta hasil peramalan untuk proporsional data *testing*. Hasil peramalan tidak ada baris kosong karena saat melakukan peramalan, ditambahkan 3 baris di atasnya karena menggunakan ordo AR samadengan satu dengan *differencing* sama dengan dua.

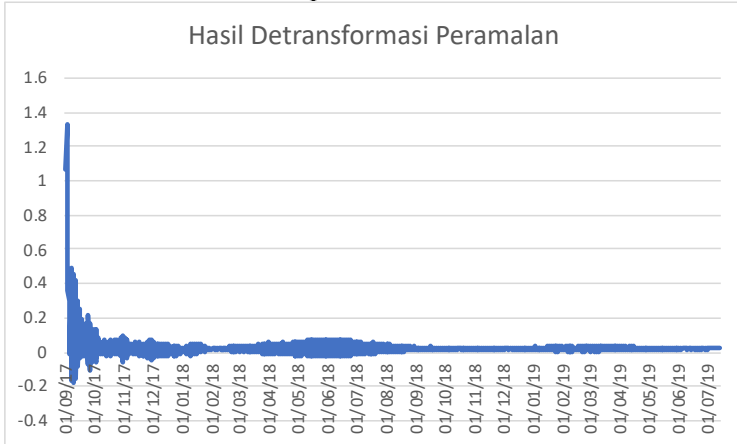


Gambar 6.18 Grafik Hasil Peramalan Data Testing Residual

Gambar 6.18 merupakan hasil peramalan data *testing* untuk dataset residual dengan model $AR(1,2,0)$.

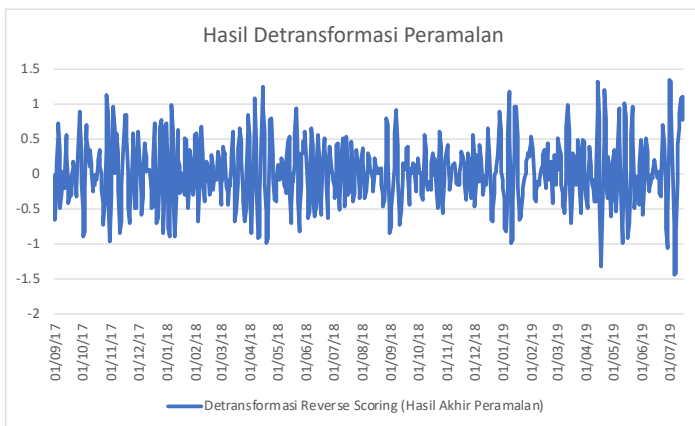
6.9 Detransformasi Data

Hasil peramalan data *train* merupakan hasil peramalan yang belum diberlakukan detransformasi data. Tabel rumus detransformasi tercantum pada Tabel 5.10.



Gambar 6.19 Grafik Detransformasi Hasil Peramalan IMF 1

Gambar 6.19 merupakan hasil detransformasi dari hasil peramalan menggunakan fungsi X^2 serta fungsi detransformasi *reverse scoring*.



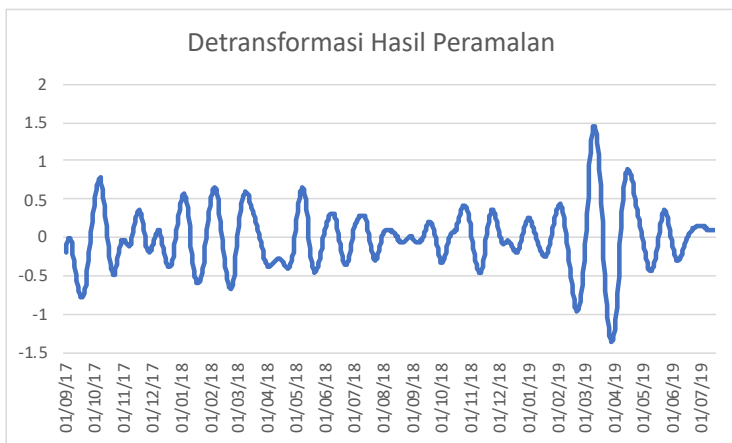
Gambar 6.20 Grafik Detransformasi Hasil Peramalan IMF 2

Gambar 6.20 merupakan hasil detransformasi dari hasil peramalan IMF 2 menggunakan fungsi detransformasi *reverse scoring*.



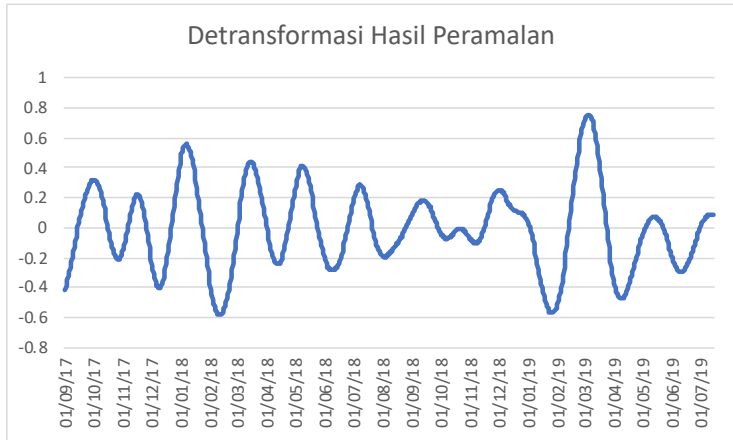
Gambar 6.21 Grafik Detransformasi Hasil Peramalan IMF 3

Gambar 6.21 merupakan hasil detransformasi dari hasil peramalan IMF 3 menggunakan fungsi detransformasi *reverse scoring*.



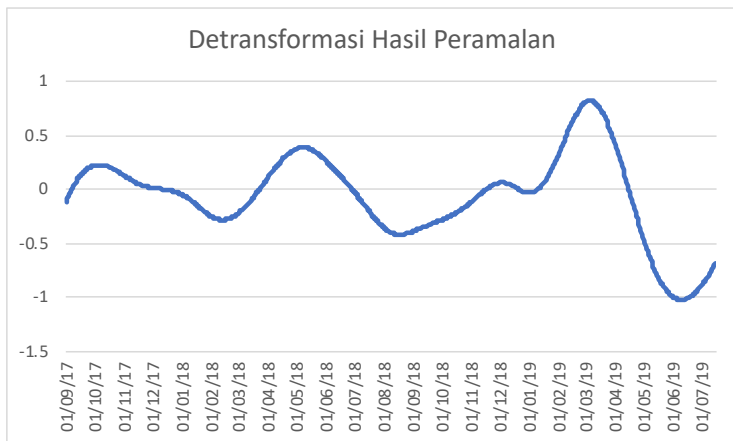
Gambar 6.22 Grafik Detransformasi Hasil Peramalan IMF 4

Gambar 6.22 merupakan hasil detransformasi dari hasil peramalan IMF 4 menggunakan fungsi detransformasi *reverse scoring*.



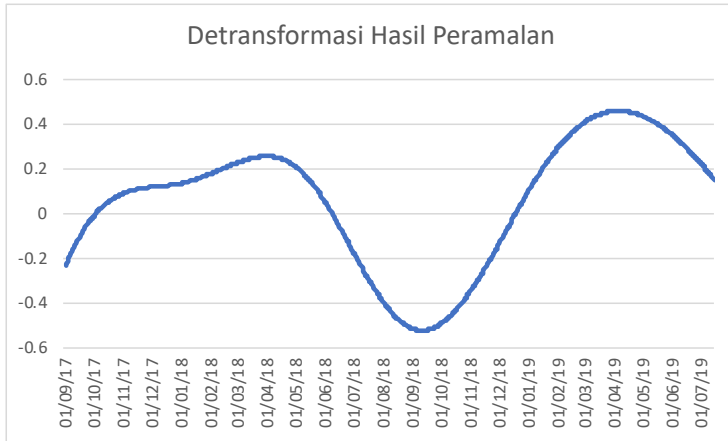
Gambar 6.23 Grafik Detransformasi Hasil Peramalan IMF 5

Gambar 6.23 merupakan hasil detransformasi dari hasil peramalan IMF 5 menggunakan fungsi detransformasi *reverse scoring*.



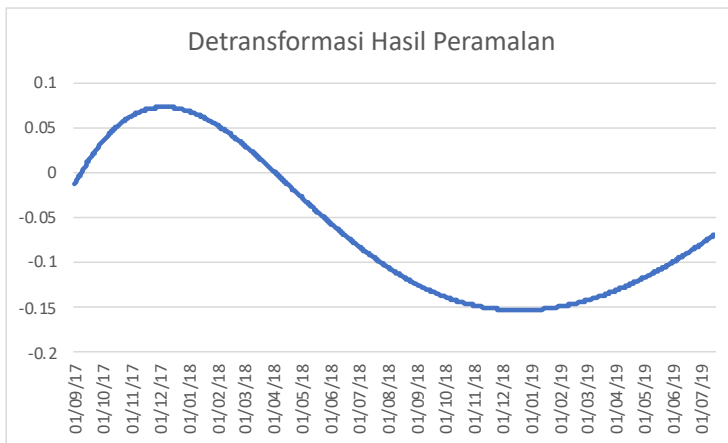
Gambar 6.24 Grafik Detransformasi Hasil Peramalan IMF 6

Gambar 6.24 merupakan hasil detransformasi dari hasil peramalan IMF 6 menggunakan fungsi detransformasi *reverse scoring* serta fungsi detransformasi $X^{1/1.35}$.



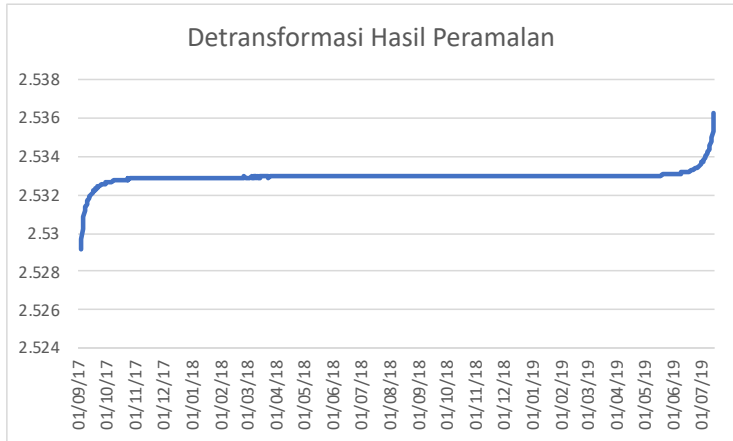
Gambar 6.25 Grafik Detransformasi Hasil Peramalan IMF 7

Gambar 6.25 merupakan hasil detransformasi dari hasil peramalan IMF 7 menggunakan fungsi detransformasi *reverse scoring* serta fungsi detransformasi $X^{1/-0.5}$.



Gambar 6.26 Grafik Detransformasi Hasil Peramalan IMF 8

Gambar 6.26 merupakan hasil detransformasi dari hasil peramalan IMF 8 menggunakan fungsi detransformasi *reverse scoring* serta fungsi detransformasi $X^{1/5}$.



Gambar 6.27 Grafik Detransformasi Hasil Peramalan Residual

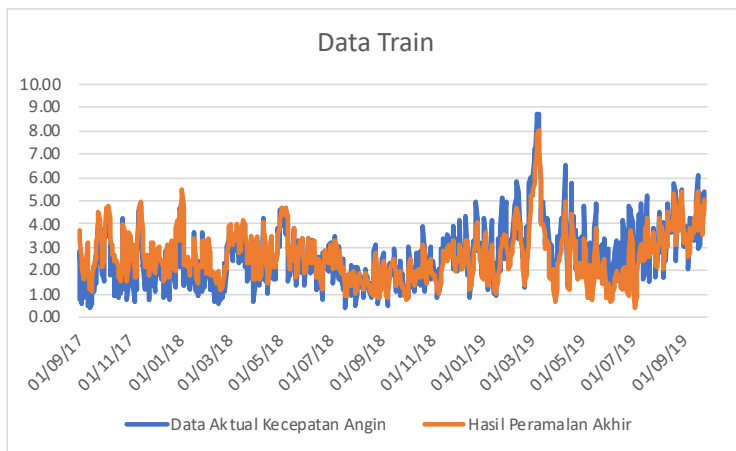
Gambar 6.27 merupakan hasil detransformasi dari hasil peramalan Residual menggunakan fungsi detransformasi *johnson*.

6.10 Superposition

Hasil dari *superposition* merupakan hasil akhir dari peramalan yang dilakukan karena ini merupakan proses penggabungan seluruh hasil peramalan IMF dan residual. Tabel 6.31 merupakan hasil *superposition* untuk data *training* dan Tabel 6.32 merupakan hasil *superposition* untuk data *testing*.

Tabel 6.32 Hasil Superposition Data Training

Periode	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir
1	0.84	
2	1.89	
3	0.75	
4	0.77	3.74374
5	1.36	3.27413
6	2.85	3.27314
7	0.61	2.49116
...
679	3.11	2.16
680	4.44	2.42
681	4.37	2.72
682	3.18	3.00
683	4.83	3.11
684	4.39	2.86

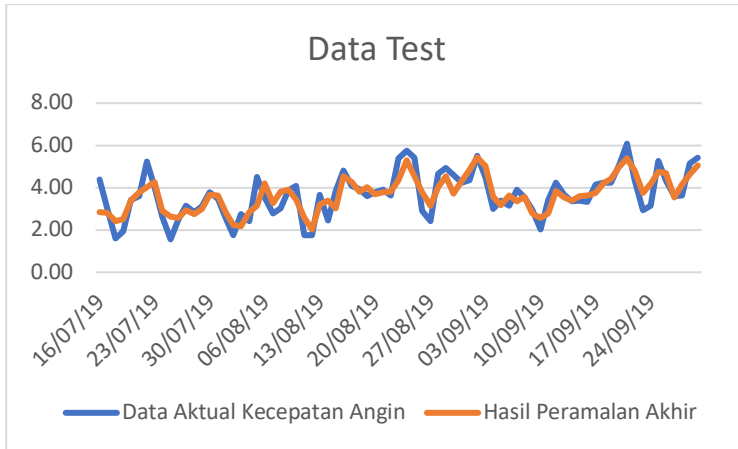


Gambar 6.28 Grafik Hasil Peramalan Akhir Dengan Data Aktual

Gambar 6.28 merupakan grafik perbandingan antara data hasil peramalan akhir dengan data aktual kecepatan angin untuk proporsional data *train*. Terlihat bahwa hasil peramalan bisa mengikuti pola data aktual walaupun masih mengalami beberapa perbedaan cukup signifikan.

Tabel 6.33 Hasil Superposition Data Training

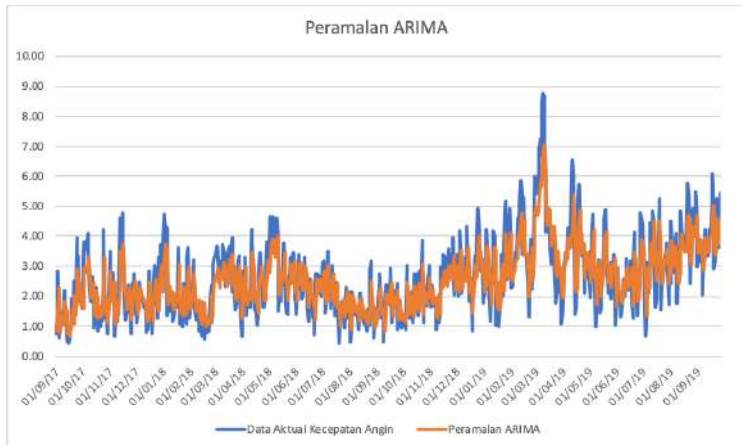
Periode	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir
685	3.03	2.82
686	1.61	2.43
687	1.93	2.51
688	3.43	3.39
689	3.62	3.80
690	5.23	4.02
691	4.01	4.27
...
755	5.26	4.76
756	4.34	4.70
757	3.61	3.54
758	3.63	4.16
759	5.15	4.63
760	5.41	5.06



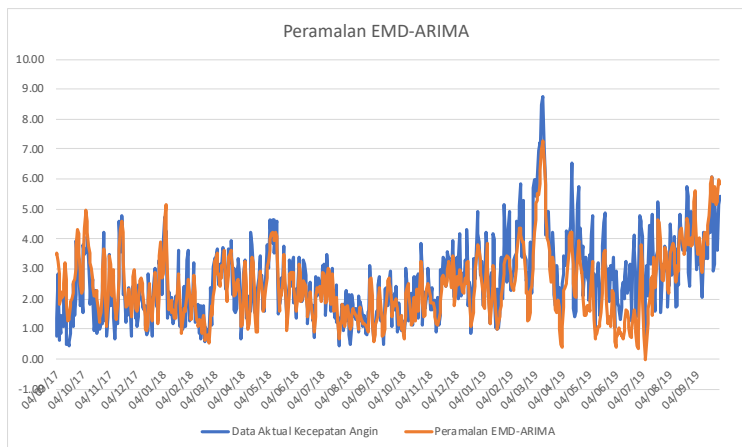
Gambar 6.29 Grafik Hasil Peramalan Akhir Dengan Data Aktual

Gambar 6.29 merupakan grafik perbandingan hasil peramalan akhir dengan data aktual kecepatan angin. Terlihat bahwa hasil peramalan mampu mengikuti pola dari data asli walaupun masih memiliki kekurangan apabila dilihat dari nilai fluktuatif tajam.

Perbandingan menggunakan metode lain juga dilakukan untuk melihat efektifitas serta efisiensi dari metode yang digunakan pada penelitian ini. Metode pembandingan merupakan peramalan dengan pendekatan ARIMA dan EMD-ARIMA. Model ARIMA dilakukan dengan menggunakan proporsional 90% untuk data *training* dan 10% untuk data *testing*, pendekatan ARIMA menggunakan data aktual kecepatan angin sebagai data *input* menghasilkan model yang terpilih adalah ARIMA(1,1,1). Peramalan menggunakan pendekatan EMD-ARIMA dilakukan dengan mendekomposisi data asli kecepatan angin menjadi beberapa *subseries* dengan delapan IMF dan satu residual, model yang terpilih untuk *subseries* IMF 1 adalah ARMA(1,0,1), untuk *subseries* IMF 2 adalah ARMA(1,0,1), untuk *subseries* IMF 3 adalah ARMA(1,0,2), untuk *subseries* IMF 4 sampai IMF 6 adalah AR(1,0,0), untuk *subseries* IMF 7 dan Residual adalah AR(1,2,0), dan untuk IMF 8 adalah AR(1,1,0).



Gambar 6.30 Peramalan ARIMA



Gambar 6.31 Peramalan EMD-ARIMA

Gambar 6.30 merupakan perbandingan antara data kecepatan angin dengan peramalan menggunakan pendekatan ARIMA, terlihat bahwa peramalan menggunakan pendekatan ini bisa mengikuti pola data asli secara garis besar, namun memiliki beberapa kekurangan pada fluktuasi yang tinggi.

Gambar 6.31 merupakan perbandingan antara data kecepatan angin dengan peramalan menggunakan pendekatan EMD-ARIMA, terlihat bahwa ada beberapa periode yang gagal untuk mengikuti pola data aktual.

6.11 Analisa Hasil Peramalan

Tabel 6.34 Perbandingan Nilai MAPE Data Training 3 Metode

Data Training		
Metode	Analisa Hasil Peramalan	
	MAPE	MAE
EEMD-ARIMA	31%	0.60743796
ARIMA	33%	0.64757819
EMD-ARIMA	30%	0.63768678

Tabel 6.35 Perbandingan Nilai MAPE Data Testing 3 Metode

Data Testing		
Metode	Analisa Hasil Peramalan	
	MAPE	MAE
EEMD-ARIMA	14%	0.45383057
ARIMA	23%	0.72391497
EMD-ARIMA	20%	0.672525

Pada Tabel 6.34 terlihat bahwa nilai MAPE untuk data *train* 31% berarti akurasi dari peramalan untuk data *train* adalah 69%. Sedangkan untuk data *test*, memiliki nilai MAPE 14% yang berarti akurasi dari peramalan untuk data *test* adalah 86%. Nilai MAPE untuk data testing memiliki nilai yang lebih kecil dikarenakan hasil peramalan data *training* untuk *subseries* IMF 1 memiliki perubahan yang sangat signifikan, namun dengan model yang sama, untuk peramalan *subseries* IMF 1 proporsional data *testing* menghasilkan performa yang terbaik jika dibandingkan dengan model lain untuk *subseries*

IMF 1. Dari ketiga metode yang dibandingkan, metode EEMD-ARIMA memiliki akurasi yang tertinggi apabila dibandingkan dengan metode ARIMA dan EMD-ARIMA. Proporsional 90% untuk data *training* dan 10% untuk data *testing* tidak menunjukkan indikasi terjadinya *overfitting* ataupun *underfitting*, hal ini disimpulkan dari nilai MAPE untuk proporsional 50/50 dan 70/30 tidak memiliki perbedaan yang signifikan.

Tabel 6.36 Perbandingan Nilai MAPE Data Training 3 Skenario Proporsional

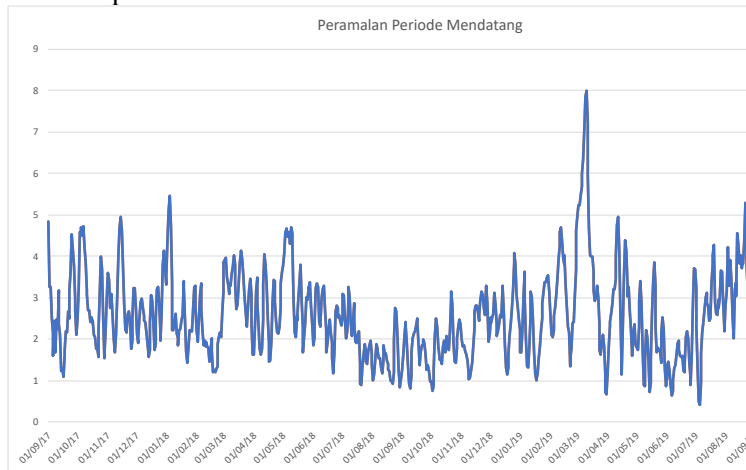
Data Training		
Proporsional	Analisa Hasil Peramalan	
	MAPE	MAE
50/50	37%	0.49793
70/30	31%	0.60912
90/10	31%	0.60743796

Tabel 6.37 Perbandingan Nilai MAPE Data Testing 3 Skenario Proporsional

Data Testing		
Metode	Analisa Hasil Peramalan	
	MAPE	MAE
50/50	17%	0.43962
70/30	18%	0.55160
90/10	14%	0.45383057

6.1 Peramalan Periode Mendatang

Peramalan periode mendatang dilakukan dengan melakukan peramalan sebanyak periode 1 Oktober 2019 sampai 31 Oktober 2019.



Gambar 6.32 Grafik Hasil Peramalan Periode Mendatang

Gambar 6.32 menunjukkan data aktual kecepatan angin dengan warna b periode mendatang dengan warna oranye.

BAB VII

KESIMPULAN DAN SARAN

Bab VII berisi mengenai kesimpulan dari seluruh proses serta hasil yang sudah dilakukan dan didapatkan pada tugas akhir ini serta saran yang diberikan untuk pengembangan yang lebih baik.

7.1 Kesimpulan

Berdasarkan dari hasil yang diperoleh pada Bab VI, maka dapat ditarik kesimpulan sebagai berikut:

1. Dekomposisi yang dilakukan yaitu menggunakan metode *Ensemble Empirical Mode Decomposition* telah berhasil membuat beberapa *subseries* yang lebih stabil jika dibandingkan dengan data asli.
2. Parameter untuk melakukan proses EEMD dinilai semakin besar nilai parameter “num_imfs” dan “ensemble_size” semakin bagus pula *subseries* yang dihasilkan. Parameter “num_siftings” tidak memiliki pengaruh yang signifikan.
3. Hasil dekomposisi (masing-masing *subseries*) memang terlihat lebih stabil dan stasioner jika dibandingkan dengan data aslinya, namun tidak menutup kemungkinan bahwa hasil dekomposisi sudah stasioner dalam rataan maupun ragam.
4. Penentuan parameter untuk ordo “p” dan “q” cukup menyulitkan karena grafik ACF untuk *subseries* IMF 4 sampai IMF 8 memiliki karakteristik seperti sinyal *sinusoidal*, yang mengakibatkan hanya bisa menggunakan model AR(1,0,0).
5. Pada uji diagnostik untuk masing-masing *subseries*, tidak ada model yang lolos, hal ini dikarenakan masing-masing *subseries* memiliki kemiripan karakteristik dengan grafik sinusoidal.
6. Hasil analisa peramalan menunjukkan bahwa metode EEMD-ARIMA bisa dengan baik mengikuti pola data

asli serta memiliki nilai MAE. dan MAPE yang kecil. Yaitu, dengan nilai MAE 0.45383057 dan nilai MAPE 14%. Kedua hasil ini memiliki kategori peramalan dengan akurasi yang baik.

7. Peramalan menggunakan pendekatan lain dianggap tidak lebih akurat apabila dibandingkan dengan pendekatan EEMD-ARIMA. Peramalan menggunakan pendekatan ARIMA menghasilkan MAPE 23% dan pendekatan EMD-ARIMA menghasilkan MAPE 20%.
8. Hasil peramalan periode mendatang menunjukkan bahwa nilai maksimum kecepatan angin sebesar 5,267 knot atau 2,7 m/s. Hal ini menunjukkan bahwa kecepatan angin yang berhembus pada Kecamatan Giri, Kabupaten Banyuwangi lebih rendah dari nilai minimum kecepatan angin dengan kategori *poor*, yang berarti pembangunan PLTB pada Kecamatan Giri Kabupaten Banyuwangi tidak memiliki potensial yang maksimal.

7.2 Saran

Berdasarkan dari hasil yang diperoleh pada Bab VI, maka saran untuk penelitian berikutnya sebagai berikut:

1. *Ensemble Empirical Mode Decomposition* merupakan metode yang bagus untuk melakukan dekomposisi. Namun, ada metode pengembangan dari metode EEMD yaitu *Complete Ensemble Empirical Mode Decomposition with Adaptive Noise* (CEEMDAN). Dengan algoritma penambahan *noise* pada *subseries* yang lebih bagus, CEEMDAN memiliki kemungkinan untuk melakukan dekomposisi lebih bagus.
2. Hasil dekomposisi menggunakan EEMD memiliki pola *seasonal*, maka dari itu metode peramalan SARIMA memiliki kemungkinan untuk melakukan peramalan yang lebih baik.

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BIODATA PENULIS



Penulis lahir di Jakarta pada tanggal 26 Desember 1998, dengan nama Muhammad Ramadhan Kiram. Penulis merupakan anak ketiga dari ketiga bersaudara. Penulis menamatkan pendidikan Sekolah Dasar di SDI Asy-Syafi'iyah pada tahun 2010, kemudian melanjutkan pendidikan Sekolah Menengah Pertama di SMP Putra 1

Jakarta dan lulus pada tahun 2013, kemudian melanjutkan pendidikan Sekolah Menengah Atas di SMA Negeri 61 Jakarta dan lulus pada tahun 2016, kemudian melanjutkan pendidikan di perguruan tinggi negeri Institut Teknologi Sepuluh Nopember (ITS) Fakultas Teknik Elektro dan Informatika Cerdas pada Program Studi Sistem Informasi dengan NRP 05211640000061.

Selama kuliah penulis bergabung dalam organisasi kemahasiswaan, yaitu Himpunan Mahasiswa Sistem Informasi selama dua periode yaitu 2017-2018. Selama satu periode tersebut penulis menjadi Staff Departemen Dalam Negeri periode kepengurusan 2017-2018 serta menjadi panitia dalam beberapa acara seperti GERIGI ITS, ITS EXPO, PETROLIDA, FTiF Festival, dan Information System Expo. Penulis pernah menjalani Kerja Praktik pada PT. Chevron Pacific Indonesia pada divisi *data scientist*.

Penulis mengambil bidang minat Rekayasa Data dan Intelektual Bisnis di Departemen Sistem Informasi. Penulis dapat dihubungi melalui email ramakiram@gmail.com.

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LAMPIRAN A HASIL UJI SIGNIFIKASI

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 22:38
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 11 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(1)	0.858029	0.027653	31.02877	0.0000
SIGMASQ	0.791649	0.110269	7.179219	0.0000
R-squared	-32.319918	Mean dependent var		1.538118
Adjusted R-squared	-32.368774	S.D. dependent var		0.154252
S.E. of regression	0.891050	Akaike info criterion		2.612036
Sum squared resid	541.4878	Schwarz criterion		2.625276
Log likelihood	-891.3163	Hannan-Quinn criter.		2.617159
Durbin-Watson stat	0.500956			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 22:49
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 33 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(2)	0.838004	0.027391	30.59367	0.0000
SIGMASQ	0.825234	0.107272	7.692892	0.0000
R-squared	-33.733487	Mean dependent var		1.538118
Adjusted R-squared	-33.784416	S.D. dependent var		0.154252
S.E. of regression	0.909755	Akaike info criterion		2.655179
Sum squared resid	564.4599	Schwarz criterion		2.668419
Log likelihood	-906.0712	Hannan-Quinn criter.		2.660302
Durbin-Watson stat	0.309509			

Dependent Variable: IMF1TRAIN_TRANS1

Method: ARMA Maximum Likelihood (OPG - BHHH)

Date: 07/12/20 Time: 22:50

Sample: 1 684

Included observations: 684

Convergence achieved after 8 iterations

Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.987076	0.006121	161.2665	0.0000
SIGMASQ	0.059004	0.003563	16.56114	0.0000
R-squared	-1.483429	Mean dependent var		1.538118
Adjusted R-squared	-1.487070	S.D. dependent var		0.154252
S.E. of regression	0.243263	Akaike info criterion		0.018926
Sum squared resid	40.35864	Schwarz criterion		0.032166
Log likelihood	-4.472821	Hannan-Quinn criter.		0.024050
Durbin-Watson stat	2.979690			

Dependent Variable: IMF1TRAIN_TRANS1

Method: ARMA Maximum Likelihood (OPG - BHHH)

Date: 07/12/20 Time: 23:01

Sample: 1 684

Included observations: 684

Convergence not achieved after 500 iterations

Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	1.000000	6.16E-05	16241.01	0.0000
MA(1)	-0.999958	0.000541	-1849.262	0.0000
SIGMASQ	0.023795	0.001392	17.09589	0.0000
R-squared	-0.001508	Mean dependent var		1.538118
Adjusted R-squared	-0.004450	S.D. dependent var		0.154252
S.E. of regression	0.154595	Akaike info criterion		-0.875412
Sum squared resid	16.27568	Schwarz criterion		-0.855553
Log likelihood	302.3910	Hannan-Quinn criter.		-0.867727
Durbin-Watson stat	2.488791			



Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:06
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 10 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(2)	0.986594	0.006058	162.8617	0.0000
SIGMASQ	0.058988	0.002802	21.05391	0.0000
R-squared	-1.482741	Mean dependent var		1.538118
Adjusted R-squared	-1.486381	S.D. dependent var		0.154252
S.E. of regression	0.243229	Akaike info criterion		0.023897
Sum squared resid	40.34746	Schwarz criterion		0.037136
Log likelihood	-6.172664	Hannan-Quinn criter.		0.029020
Durbin-Watson stat	2.147045			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:08
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 22 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(2)	1.000000	2.34E-06	427381.4	0.0000
MA(1)	-0.994675	0.014344	-69.34255	0.0000
SIGMASQ	0.035344	0.001478	23.91512	0.0000
R-squared	-0.487606	Mean dependent var		1.538118
Adjusted R-squared	-0.491975	S.D. dependent var		0.154252
S.E. of regression	0.188414	Akaike info criterion		-0.459715
Sum squared resid	24.17534	Schwarz criterion		-0.439856
Log likelihood	160.2226	Hannan-Quinn criter.		-0.452030
Durbin-Watson stat	1.864753			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:11
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 44 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(2)	1.000000	1.51E-07	6626227.	0.0000
MA(2)	-0.999978	7.10E-05	-14075.21	0.0000
SIGMASQ	0.023829	0.001282	18.59326	0.0000

R-squared	-0.002943	Mean dependent var	1.538118
Adjusted R-squared	-0.005888	S.D. dependent var	0.154252
S.E. of regression	0.154706	Akaike info criterion	-0.859711
Sum squared resid	16.29900	Schwarz criterion	-0.839851
Log likelihood	297.0211	Hannan-Quinn criter.	-0.852026
Durbin-Watson stat	2.473357		

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:13
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 16 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(3)	0.989449	0.005456	181.3452	0.0000
SIGMASQ	0.047597	0.002333	20.40302	0.0000

R-squared	-1.003338	Mean dependent var	1.538118
Adjusted R-squared	-1.006275	S.D. dependent var	0.154252
S.E. of regression	0.218488	Akaike info criterion	-0.184307
Sum squared resid	32.55659	Schwarz criterion	-0.171067
Log likelihood	65.03301	Hannan-Quinn criter.	-0.179184
Durbin-Watson stat	2.322248		

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:14
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 21 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(3)	0.999999	3.92E-06	255059.5	0.0000
MA(1)	-0.988695	0.013359	-74.01118	0.0000
SIGMASQ	0.032988	0.001231	26.79722	0.0000
R-squared	-0.388460	Mean dependent var		1.538118
Adjusted R-squared	-0.392537	S.D. dependent var		0.154252
S.E. of regression	0.182027	Akaike info criterion		-0.511269
Sum squared resid	22.56410	Schwarz criterion		-0.491409
Log likelihood	177.8540	Hannan-Quinn criter.		-0.503584
Durbin-Watson stat	1.436834			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:38
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 18 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(3)	0.991276	0.004942	200.5732	0.0000
MA(2)	-0.086473	0.033262	-2.599748	0.0095
SIGMASQ	0.047073	0.002507	18.77365	0.0000
R-squared	-0.981280	Mean dependent var		1.538118
Adjusted R-squared	-0.987099	S.D. dependent var		0.154252
S.E. of regression	0.217441	Akaike info criterion		-0.191605
Sum squared resid	32.19812	Schwarz criterion		-0.171745
Log likelihood	68.52883	Hannan-Quinn criter.		-0.183920
Durbin-Watson stat	2.449958			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:42
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 21 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(4)	0.990806	0.005021	197.3451	0.0000
SIGMASQ	0.042053	0.002433	17.28710	0.0000
R-squared	-0.769995	Mean dependent var		1.538118
Adjusted R-squared	-0.772590	S.D. dependent var		0.154252
S.E. of regression	0.205370	Akaike info criterion		-0.301696
Sum squared resid	28.76449	Schwarz criterion		-0.288456
Log likelihood	105.1799	Hannan-Quinn criter.		-0.296572
Durbin-Watson stat	2.550530			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:46
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 27 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(4)	0.999996	7.69E-06	130109.1	0.0000
MA(1)	-0.975027	0.012023	-81.09934	0.0000
SIGMASQ	0.030179	0.001141	26.45530	0.0000
R-squared	-0.270222	Mean dependent var		1.538118
Adjusted R-squared	-0.273953	S.D. dependent var		0.154252
S.E. of regression	0.174104	Akaike info criterion		-0.587746
Sum squared resid	20.64261	Schwarz criterion		-0.567886
Log likelihood	204.0090	Hannan-Quinn criter.		-0.580061
Durbin-Watson stat	1.412130			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/12/20 Time: 23:48
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 24 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(4)	0.999950	8.62E-05	11594.02	0.0000
MA(2)	-0.916608	0.017511	-52.34330	0.0000
SIGMASQ	0.034065	0.001847	18.44690	0.0000
R-squared	-0.433787	Mean dependent var		1.538118
Adjusted R-squared	-0.437998	S.D. dependent var		0.154252
S.E. of regression	0.184974	Akaike info criterion		-0.484374
Sum squared resid	23.30072	Schwarz criterion		-0.464515
Log likelihood	168.6559	Hannan-Quinn criter.		-0.476689
Durbin-Watson stat	3.039034			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:10
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 25 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(5)	0.990051	0.005248	188.6478	0.0000
SIGMASQ	0.045748	0.002611	17.51839	0.0000
R-squared	-0.925518	Mean dependent var		1.538118
Adjusted R-squared	-0.928342	S.D. dependent var		0.154252
S.E. of regression	0.214202	Akaike info criterion		-0.212202
Sum squared resid	31.29193	Schwarz criterion		-0.198962
Log likelihood	74.57309	Hannan-Quinn criter.		-0.207079
Durbin-Watson stat	2.550706			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:11
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 35 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(5)	0.999986	1.67E-05	59893.99	0.0000
MA(1)	-0.955095	0.012651	-75.49303	0.0000
SIGMASQ	0.032083	0.001406	22.82570	0.0000
R-squared	-0.350344	Mean dependent var		1.538118
Adjusted R-squared	-0.354310	S.D. dependent var		0.154252
S.E. of regression	0.179511	Akaike info criterion		-0.517094
Sum squared resid	21.94468	Schwarz criterion		-0.497235
Log likelihood	179.8463	Hannan-Quinn criter.		-0.509409
Durbin-Watson stat	1.493002			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:12
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 30 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(5)	0.993448	0.004017	247.3156	0.0000
MA(2)	-0.169612	0.035428	-4.787490	0.0000
SIGMASQ	0.043719	0.002524	17.32306	0.0000
R-squared	-0.840112	Mean dependent var		1.538118
Adjusted R-squared	-0.845516	S.D. dependent var		0.154252
S.E. of regression	0.209552	Akaike info criterion		-0.251521
Sum squared resid	29.90398	Schwarz criterion		-0.231662
Log likelihood	89.02021	Hannan-Quinn criter.		-0.243836
Durbin-Watson stat	2.707264			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:14
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 22 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(6)	0.989375	0.005401	183.1783	0.0000
SIGMASQ	0.048536	0.002837	17.10635	0.0000
R-squared	-1.042836	Mean dependent var		1.538118
Adjusted R-squared	-1.045832	S.D. dependent var		0.154252
S.E. of regression	0.220631	Akaike info criterion		-0.147898
Sum squared resid	33.19849	Schwarz criterion		-0.134658
Log likelihood	52.58109	Hannan-Quinn criter.		-0.142775
Durbin-Watson stat	2.471061			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:15
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 34 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(6)	0.999964	3.01E-05	33231.37	0.0000
MA(1)	-0.929450	0.014615	-63.59568	0.0000
SIGMASQ	0.034196	0.001722	19.85557	0.0000
R-squared	-0.439275	Mean dependent var		1.538118
Adjusted R-squared	-0.443502	S.D. dependent var		0.154252
S.E. of regression	0.185328	Akaike info criterion		-0.445514
Sum squared resid	23.38992	Schwarz criterion		-0.425654
Log likelihood	155.3658	Hannan-Quinn criter.		-0.437829
Durbin-Watson stat	1.504513			

Dependent Variable: IMF1TRAIN_TRANS1
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:16
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 23 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(6)	0.996002	0.002717	366.6436	0.0000
MA(2)	-0.355994	0.034779	-10.23579	0.0000
SIGMASQ	0.043994	0.002587	17.00303	0.0000
R-squared	-0.851684	Mean dependent var		1.538118
Adjusted R-squared	-0.857122	S.D. dependent var		0.154252
S.E. of regression	0.210209	Akaike info criterion		-0.234546
Sum squared resid	30.09204	Schwarz criterion		-0.214687
Log likelihood	83.21481	Hannan-Quinn criter.		-0.226861
Durbin-Watson stat	2.783939			

Dependent Variable: IMF2TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:18
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 15 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(1)	0.996572	0.006905	144.3340	0.0000
SIGMASQ	1.414587	0.271004	5.219800	0.0000
R-squared	-7.203445	Mean dependent var		2.322869
Adjusted R-squared	-7.215473	S.D. dependent var		0.415561
S.E. of regression	1.191107	Akaike info criterion		3.197836
Sum squared resid	967.5775	Schwarz criterion		3.211076
Log likelihood	-1091.660	Hannan-Quinn criter.		3.202960
Durbin-Watson stat	0.045330			

Dependent Variable: IMF2TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:19
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 7 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.990350	0.005344	185.3139	0.0000
SIGMASQ	0.108663	0.005915	18.37148	0.0000
R-squared	0.369846	Mean dependent var		2.322869
Adjusted R-squared	0.368922	S.D. dependent var		0.415561
S.E. of regression	0.330123	Akaike info criterion		0.629996
Sum squared resid	74.32523	Schwarz criterion		0.643236
Log likelihood	-213.4587	Hannan-Quinn criter.		0.635119
Durbin-Watson stat	0.847373			

Dependent Variable: IMF2TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:20
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 32 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.986818	0.006326	155.9843	0.0000
MA(1)	0.943114	0.012734	74.06099	0.0000
SIGMASQ	0.039865	0.002296	17.36629	0.0000
R-squared	0.768816	Mean dependent var		2.322869
Adjusted R-squared	0.768137	S.D. dependent var		0.415561
S.E. of regression	0.200102	Akaike info criterion		-0.365139
Sum squared resid	27.26767	Schwarz criterion		-0.345279
Log likelihood	127.8774	Hannan-Quinn criter.		-0.357454
Durbin-Watson stat	1.107043			

Dependent Variable: IMF3TRAIN

Method: ARMA Maximum Likelihood (OPG - BHHH)

Date: 07/13/20 Time: 00:23

Sample: 1 684

Included observations: 684

Failure to improve objective (non-zero gradients) after 13 iterations

Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(1)	0.999999	85.82599	0.011651	0.9907
SIGMASQ	1.422617	3.245271	0.438366	0.6613

R-squared	-11.136313	Mean dependent var	2.357674
Adjusted R-squared	-11.154108	S.D. dependent var	0.342624
S.E. of regression	1.194483	Akaike info criterion	3.205768
Sum squared resid	973.0701	Schwarz criterion	3.219008
Log likelihood	-1094.373	Hannan-Quinn criter.	3.210892
Durbin-Watson stat	0.005364		

Dependent Variable: IMF3TRAIN

Method: ARMA Maximum Likelihood (OPG - BHHH)

Date: 07/13/20 Time: 00:24

Sample: 1 684

Included observations: 684

Failure to improve objective (non-zero gradients) after 2 iterations

Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(2)	1.000000	7.450033	0.134228	0.8933
SIGMASQ	1.429792	5.300049	0.269770	0.7874

R-squared	-11.197520	Mean dependent var	2.357674
Adjusted R-squared	-11.215405	S.D. dependent var	0.342624
S.E. of regression	1.197491	Akaike info criterion	3.218323
Sum squared resid	977.9776	Schwarz criterion	3.231563
Log likelihood	-1098.667	Hannan-Quinn criter.	3.223447
Durbin-Watson stat	0.007222		

Dependent Variable: IMF3TRAIN

Method: ARMA Maximum Likelihood (OPG - BHHH)

Date: 07/13/20 Time: 00:25

Sample: 1 684

Included observations: 684

Failure to improve objective (non-zero gradients) after 7 iterations

Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(3)	0.999999	13.25769	0.075428	0.9399
SIGMASQ	1.445820	9.575484	0.150992	0.8800
R-squared	-11.334257	Mean dependent var		2.357674
Adjusted R-squared	-11.352342	S.D. dependent var		0.342624
S.E. of regression	1.204184	Akaike info criterion		3.236233
Sum squared resid	988.9409	Schwarz criterion		3.249473
Log likelihood	-1104.792	Hannan-Quinn criter.		3.241356
Durbin-Watson stat	0.011277			

Dependent Variable: IMF3TRAIN

Method: ARMA Maximum Likelihood (OPG - BHHH)

Date: 07/13/20 Time: 00:27

Sample: 1 684

Included observations: 684

Convergence achieved after 7 iterations

Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
MA(4)	0.968637	0.015702	61.68896	0.0000
SIGMASQ	1.588803	0.220660	7.200231	0.0000
R-squared	-12.554046	Mean dependent var		2.357674
Adjusted R-squared	-12.573920	S.D. dependent var		0.342624
S.E. of regression	1.262324	Akaike info criterion		3.322991
Sum squared resid	1086.742	Schwarz criterion		3.336231
Log likelihood	-1134.463	Hannan-Quinn criter.		3.328115
Durbin-Watson stat	0.037536			

Dependent Variable: IMF3TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:27
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 7 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.998617	0.002075	481.1695	0.0000
SIGMASQ	0.016731	0.000799	20.93825	0.0000
R-squared	0.857270	Mean dependent var		2.357674
Adjusted R-squared	0.857061	S.D. dependent var		0.342624
S.E. of regression	0.129537	Akaike info criterion		-1.238169
Sum squared resid	11.44384	Schwarz criterion		-1.224929
Log likelihood	425.4537	Hannan-Quinn criter.		-1.233045
Durbin-Watson stat	0.233561			

Dependent Variable: IMF3TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:28
 Sample: 1 684
 Included observations: 684
 Failure to improve objective (non-zero gradients) after 32 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.998577	0.002168	460.5220	0.0000
MA(1)	0.999949	0.877904	1.139019	0.2551
SIGMASQ	0.004492	0.001067	4.211190	0.0000
R-squared	0.961682	Mean dependent var		2.357674
Adjusted R-squared	0.961570	S.D. dependent var		0.342624
S.E. of regression	0.067167	Akaike info criterion		-2.538814
Sum squared resid	3.072237	Schwarz criterion		-2.518954
Log likelihood	871.2743	Hannan-Quinn criter.		-2.531129
Durbin-Watson stat	0.297280			

Dependent Variable: IMF3TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:29
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 29 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.998249	0.002459	405.9519	0.0000
MA(2)	0.952975	0.013501	70.58376	0.0000
SIGMASQ	0.006014	0.000289	20.78280	0.0000
R-squared	0.948693	Mean dependent var		2.357674
Adjusted R-squared	0.948542	S.D. dependent var		0.342624
S.E. of regression	0.077722	Akaike info criterion		-2.249779
Sum squared resid	4.113724	Schwarz criterion		-2.229919
Log likelihood	772.4243	Hannan-Quinn criter.		-2.242094
Durbin-Watson stat	0.381146			

Dependent Variable: IMF3TRAIN
 Method: ARMA Maximum Likelihood (OPG - BHHH)
 Date: 07/13/20 Time: 00:31
 Sample: 1 684
 Included observations: 684
 Convergence achieved after 19 iterations
 Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	0.997117	0.003106	321.0742	0.0000
MA(3)	0.886366	0.021144	41.92095	0.0000
SIGMASQ	0.010125	0.000548	18.49102	0.0000
R-squared	0.913628	Mean dependent var		2.357674
Adjusted R-squared	0.913374	S.D. dependent var		0.342624
S.E. of regression	0.100842	Akaike info criterion		-1.730003
Sum squared resid	6.925200	Schwarz criterion		-1.710144
Log likelihood	594.6612	Hannan-Quinn criter.		-1.722318
Durbin-Watson stat	0.378173			

Dependent Variable: IMF3TRAIN

Method: ARMA Maximum Likelihood (OPG - BHHH)

Date: 07/13/20 Time: 00:31

Sample: 1 684

Included observations: 684

Failure to improve objective (non-zero gradients) after 51 iterations

Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
AR(1)	1.000000	7.06E-05	14169.58	0.0000
MA(4)	-0.980742	0.011068	-88.61186	0.0000
SIGMASQ	0.009487	0.000339	27.94339	0.0000
R-squared	0.919070	Mean dependent var		2.357674
Adjusted R-squared	0.918832	S.D. dependent var		0.342624
S.E. of regression	0.097614	Akaike info criterion		-1.782804
Sum squared resid	6.488839	Schwarz criterion		-1.762945
Log likelihood	612.7190	Hannan-Quinn criter.		-1.775119
Durbin-Watson stat	0.238084			

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**LAMPIRAN B HASIL UJI DIAGNOSIS
KEACAKAN**

Correlogram of Residuals

Date: 07/12/20 Time: 22:44

Sample: 1 684

Q-statistic probabilities adjusted for 1 ARMA term

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 -0.882	-0.882	534.62	
		2 0.715	-0.286	886.12	0.000
		3 -0.634	-0.368	1162.7	0.000
		4 0.566	-0.237	1383.4	0.000
		5 -0.486	-0.141	1546.9	0.000
		6 0.419	-0.097	1668.5	0.000
		7 -0.374	-0.112	1765.4	0.000
		8 0.339	-0.050	1845.2	0.000
		9 -0.300	-0.019	1907.8	0.000
		10 0.263	-0.011	1955.9	0.000
		11 -0.239	-0.038	1995.7	0.000
		12 0.239	0.098	2035.4	0.000
		13 -0.250	-0.019	2079.2	0.000
		14 0.253	0.024	2124.1	0.000
		15 -0.246	0.018	2166.4	0.000
		16 0.236	0.001	2205.5	0.000
		17 -0.214	0.072	2237.8	0.000
		18 0.183	0.009	2261.5	0.000
		19 -0.160	0.005	2279.6	0.000
		20 0.142	-0.014	2293.9	0.000

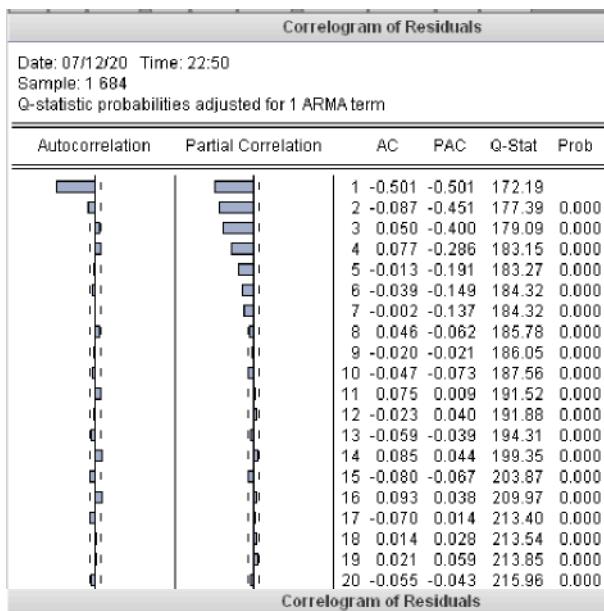
Correlogram of Residuals

Date: 07/12/20 Time: 22:49

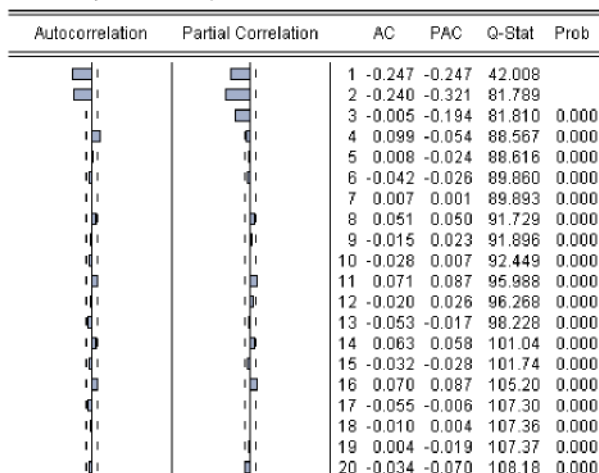
Sample: 1 684

Q-statistic probabilities adjusted for 1 ARMA term

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 -0.033	-0.033	0.7540	
		2 -0.901	-0.903	558.71	0.000
		3 0.038	-0.264	559.70	0.000
		4 0.775	-0.293	973.82	0.000
		5 -0.042	-0.192	975.01	0.000
		6 -0.656	-0.096	1272.8	0.000
		7 0.049	-0.028	1274.4	0.000
		8 0.550	-0.026	1484.5	0.000
		9 -0.057	-0.022	1486.7	0.000
		10 -0.454	0.023	1630.3	0.000
		11 0.064	0.037	1633.2	0.000
		12 0.368	0.004	1727.7	0.000
		13 -0.060	0.060	1730.3	0.000
		14 -0.298	0.030	1792.6	0.000
		15 0.047	-0.023	1794.2	0.000
		16 0.254	0.056	1839.4	0.000
		17 -0.043	-0.019	1840.7	0.000
		18 -0.202	0.092	1869.5	0.000
		19 0.030	0.011	1870.2	0.000
		20 0.153	-0.021	1886.6	0.000



Date: 07/12/20 Time: 23:01
 Sample: 1 684
 Q-statistic probabilities adjusted for 2 ARMA terms



Correlogram of Residuals

Date: 07/12/20 Time: 23:03

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	-0.541	-0.541	200.94	
		2	-0.008	-0.425	200.98	
		3	0.009	-0.391	201.04	0.000
		4	0.074	-0.275	204.80	0.000
		5	-0.013	-0.179	204.92	0.000
		6	-0.031	-0.139	205.58	0.000
		7	-0.003	-0.129	205.58	0.000
		8	0.040	-0.062	206.70	0.000
		9	-0.015	-0.016	206.86	0.000
		10	-0.045	-0.070	208.26	0.000
		11	0.070	0.004	211.67	0.000
		12	-0.019	0.047	211.93	0.000
		13	-0.061	-0.045	214.51	0.000
		14	0.091	0.043	220.31	0.000
		15	-0.090	-0.063	226.03	0.000
		16	0.101	0.035	233.19	0.000
		17	-0.075	0.023	237.13	0.000
		18	0.018	0.022	237.35	0.000
		19	0.019	0.055	237.61	0.000
		20	-0.053	-0.046	239.59	0.000

Correlogram of Residuals

Date: 07/12/20 Time: 23:07

Sample: 1 684

Q-statistic probabilities adjusted for 1 ARMA term

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	-0.086	-0.086	5.1170	
		2	-0.623	-0.635	272.27	0.000
		3	0.089	-0.091	277.74	0.000
		4	0.188	-0.351	302.14	0.000
		5	0.011	0.004	302.23	0.000
		6	-0.092	-0.250	308.12	0.000
		7	0.004	0.054	308.13	0.000
		8	0.071	-0.112	311.61	0.000
		9	-0.040	0.027	312.74	0.000
		10	-0.037	-0.078	313.71	0.000
		11	0.081	0.124	318.28	0.000
		12	-0.029	-0.108	318.88	0.000
		13	-0.056	0.103	321.05	0.000
		14	0.031	-0.118	321.70	0.000
		15	0.018	0.082	321.92	0.000
		16	0.036	-0.027	322.84	0.000
		17	-0.032	0.065	323.56	0.000
		18	-0.020	0.018	323.84	0.000
		19	0.002	-0.005	323.84	0.000
		20	-0.039	-0.069	324.92	0.000

Correlogram of Residuals

Date: 07/12/20 Time: 23:09

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.161	0.161	17.834	
		2	-0.503	-0.543	191.93	
		3	-0.110	0.149	200.33	0.000
		4	0.119	-0.238	210.15	0.000
		5	0.040	0.110	211.25	0.000
		6	-0.049	-0.159	212.89	0.000
		7	0.008	0.141	212.94	0.000
		8	0.054	-0.089	214.96	0.000
		9	-0.009	0.083	215.02	0.000
		10	-0.002	-0.009	215.02	0.000
		11	0.056	0.101	217.18	0.000
		12	-0.023	-0.091	217.56	0.000
		13	-0.047	0.102	219.13	0.000
		14	0.025	-0.070	219.59	0.000
		15	0.042	0.105	220.83	0.000
		16	0.032	-0.019	221.56	0.000
		17	-0.035	0.013	222.41	0.000
		18	-0.050	-0.027	224.15	0.000
		19	-0.023	-0.057	224.53	0.000
		20	-0.005	-0.003	224.55	0.000

Correlogram of Residuals

Date: 07/12/20 Time: 23:11

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	-0.240	-0.240	39.453	
		2	-0.235	-0.310	77.454	
		3	-0.000	-0.174	77.454	0.000
		4	0.098	-0.035	84.116	0.000
		5	0.010	-0.007	84.188	0.000
		6	-0.040	-0.012	85.309	0.000
		7	0.007	0.011	85.341	0.000
		8	0.054	0.059	87.389	0.000
		9	-0.018	0.024	87.603	0.000
		10	-0.024	0.012	88.000	0.000
		11	0.069	0.084	91.344	0.000
		12	-0.018	0.025	91.565	0.000
		13	-0.054	-0.021	93.588	0.000
		14	0.065	0.057	96.552	0.000
		15	-0.032	-0.030	97.256	0.000
		16	0.071	0.086	100.83	0.000
		17	-0.055	-0.011	102.98	0.000
		18	-0.007	0.004	103.02	0.000
		19	0.003	-0.021	103.03	0.000
		20	-0.033	-0.067	103.81	0.000

Correlogram of Residuals

Date: 07/12/20 Time: 23:13

Sample: 1 684

Q-statistic probabilities adjusted for 1 ARMA term

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	-0.169	-0.169	19.695	
		2	-0.119	-0.152	29.427	0.000
		3	-0.467	-0.544	179.80	0.000
		4	0.212	-0.060	210.89	0.000
		5	0.109	-0.045	219.10	0.000
		6	-0.033	-0.330	219.85	0.000
		7	-0.024	0.014	220.24	0.000
		8	0.005	0.001	220.26	0.000
		9	0.018	-0.194	220.49	0.000
		10	-0.000	0.067	220.49	0.000
		11	0.009	0.054	220.55	0.000
		12	0.002	-0.095	220.55	0.000
		13	-0.073	-0.028	224.31	0.000
		14	0.057	0.100	226.57	0.000
		15	-0.017	-0.104	226.77	0.000
		16	0.093	0.076	232.84	0.000
		17	-0.069	0.099	236.20	0.000
		18	-0.021	-0.114	236.50	0.000
		19	-0.039	0.019	237.57	0.000
		20	0.005	0.001	237.58	0.000

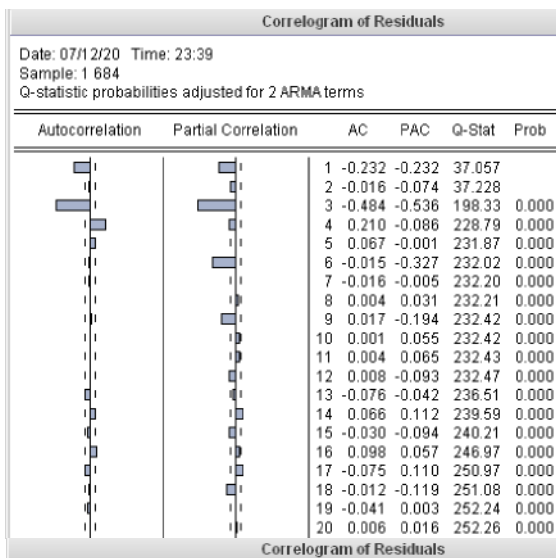
Correlogram of Residuals

Date: 07/12/20 Time: 23:32

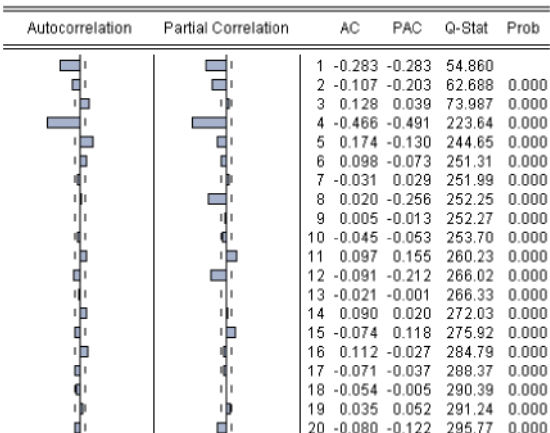
Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.280	0.280	53.795	
		2	-0.171	-0.271	73.939	
		3	-0.449	-0.366	213.05	0.000
		4	-0.038	0.211	214.03	0.000
		5	0.066	-0.144	217.07	0.000
		6	0.012	-0.188	217.16	0.000
		7	-0.004	0.183	217.18	0.000
		8	0.018	-0.074	217.40	0.000
		9	0.035	-0.079	218.27	0.000
		10	0.023	0.161	218.63	0.000
		11	0.008	-0.049	218.67	0.000
		12	-0.022	-0.076	218.99	0.000
		13	-0.048	0.077	220.58	0.000
		14	0.031	0.052	221.24	0.000
		15	0.028	-0.091	221.80	0.000
		16	0.049	0.108	223.51	0.000
		17	-0.062	-0.052	226.19	0.000
		18	-0.072	-0.125	229.81	0.000
		19	-0.053	0.073	231.80	0.000
		20	0.021	-0.026	232.12	0.000



Date: 07/12/20 Time: 23:42
 Sample: 1 684
 Q-statistic probabilities adjusted for 1 ARMA term



Correlogram of Residuals

Date: 07/12/20 Time: 23:47

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.290	0.290	57.631	
		2 -0.001	-0.092	57.631	
		3 -0.121	-0.104	67.766	0.000
		4 -0.428	-0.402	194.28	0.000
		5 -0.063	0.208	197.00	0.000
		6 0.057	-0.021	199.22	0.000
		7 0.030	-0.041	199.83	0.000
		8 0.045	-0.163	201.25	0.000
		9 0.027	0.163	201.77	0.000
		10 0.007	-0.008	201.81	0.000
		11 0.044	0.041	203.17	0.000
		12 -0.054	-0.199	205.21	0.000
		13 -0.021	0.169	205.53	0.000
		14 0.046	0.030	207.03	0.000
		15 -0.016	-0.001	207.21	0.000
		16 0.030	-0.130	207.82	0.000
		17 -0.076	-0.011	211.93	0.000
		18 -0.088	0.025	217.36	0.000
		19 -0.020	-0.008	217.64	0.000
		20 -0.018	-0.096	217.87	0.000

Correlogram of Residuals

Date: 07/12/20 Time: 23:48

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms









































Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 -0.520	-0.520	185.43	
		2 0.334	0.088	262.09	
		3 -0.133	0.098	274.26	0.000
		4 -0.174	-0.324	295.18	0.000
		5 0.081	-0.191	299.70	0.000
		6 -0.050	0.088	301.44	0.000
		7 0.068	0.099	304.65	0.000
		8 -0.061	-0.176	307.20	0.000
		9 0.092	-0.024	313.04	0.000
		10 -0.100	0.055	319.94	0.000
		11 0.111	0.089	328.48	0.000
		12 -0.083	-0.070	333.28	0.000
		13 0.002	-0.114	333.28	0.000
		14 0.058	0.108	335.65	0.000
		15 -0.076	0.080	339.69	0.000
		16 0.079	-0.065	344.03	0.000
		17 -0.054	-0.080	348.09	0.000
		18 -0.044	-0.058	347.45	0.000
		19 0.059	0.083	349.95	0.000
		20 -0.097	-0.070	356.60	0.000

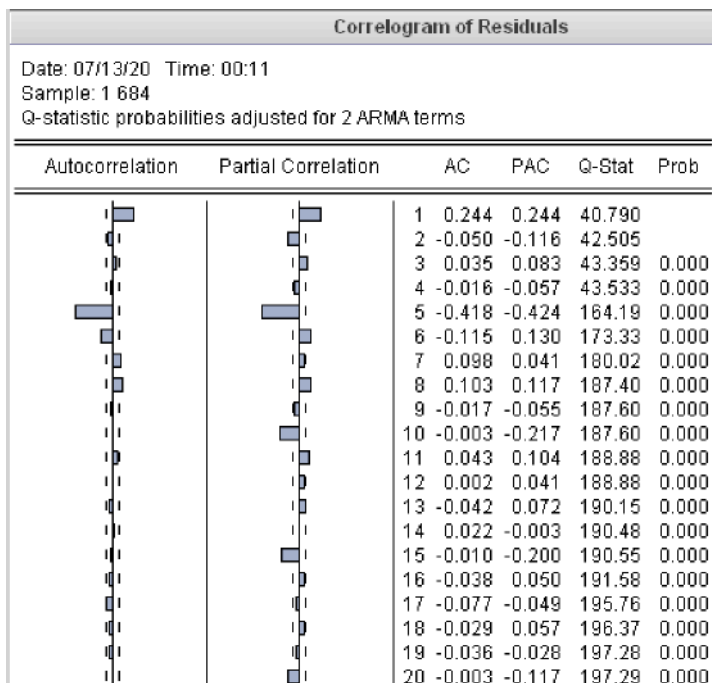
Correlogram of Residuals

Date: 07/13/20 Time: 00:10

Sample: 1 684

Q-statistic probabilities adjusted for 1 ARMA term

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 -0.285	-0.285	55.715	
		2 -0.245	-0.355	96.991	0.000
		3 0.087	-0.135	102.26	0.000
		4 0.237	0.174	141.05	0.000
		5 -0.456	-0.385	284.70	0.000
		6 0.052	-0.166	286.59	0.000
		7 0.128	-0.177	298.03	0.000
		8 0.085	0.024	303.05	0.000
		9 -0.087	0.136	308.33	0.000
		10 -0.025	-0.184	308.75	0.000
		11 0.053	-0.059	310.71	0.000
		12 0.012	-0.062	310.82	0.000
		13 -0.073	0.016	314.58	0.000
		14 0.068	0.181	317.81	0.000
		15 0.001	-0.088	317.81	0.000
		16 0.010	0.034	317.87	0.000
		17 -0.062	-0.070	320.57	0.000
		18 0.027	-0.002	321.07	0.000
		19 -0.029	0.073	321.65	0.000
		20 -0.011	-0.133	321.74	0.000











































Correlogram of Residuals

Date: 07/13/20 Time: 00:13

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	-0.360	-0.360	89.097	
		2	-0.047	-0.203	90.591	
		3	-0.047	-0.168	92.121	0.000
		4	0.251	0.192	135.70	0.000
		5	-0.467	-0.388	286.67	0.000
		6	0.111	-0.211	295.24	0.000
		7	0.043	-0.114	296.55	0.000
		8	0.105	0.001	304.18	0.000
		9	-0.077	0.142	308.33	0.000
		10	-0.003	-0.198	308.34	0.000
		11	0.030	-0.098	308.96	0.000
		12	0.024	-0.015	309.35	0.000
		13	-0.075	-0.001	313.25	0.000
		14	0.077	0.187	317.42	0.000
		15	-0.024	-0.102	317.83	0.000
		16	0.027	-0.008	318.35	0.000
		17	-0.073	-0.045	322.06	0.000
		18	0.034	-0.030	322.88	0.000
		19	-0.038	0.091	323.92	0.000
		20	0.006	-0.129	323.94	0.000

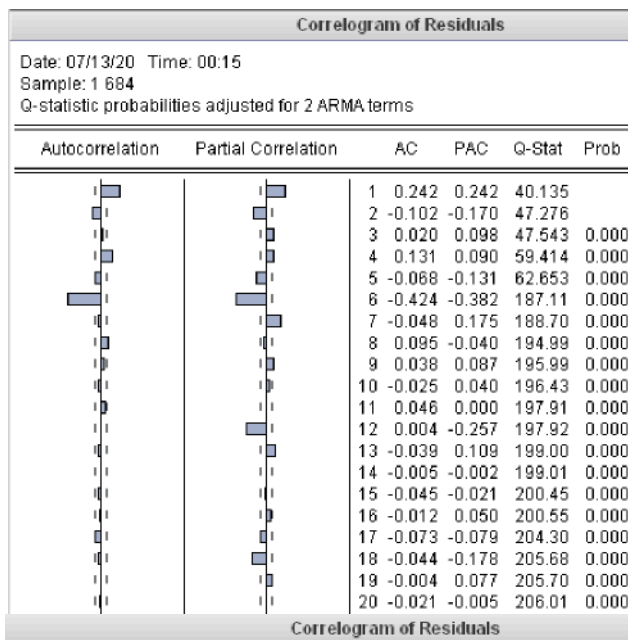
Correlogram of Residuals

Date: 07/13/20 Time: 00:14

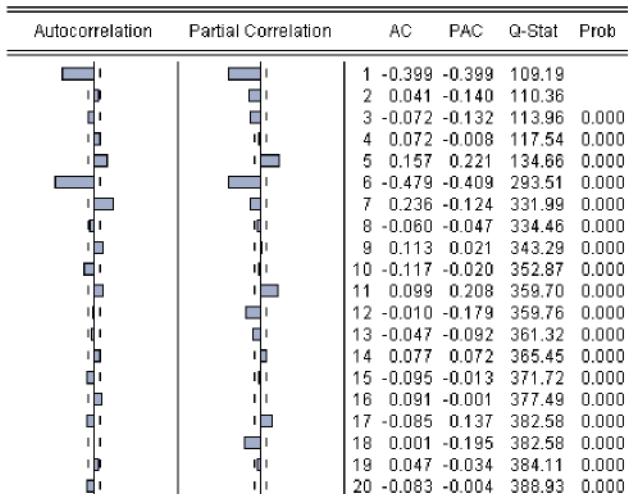
Sample: 1 684

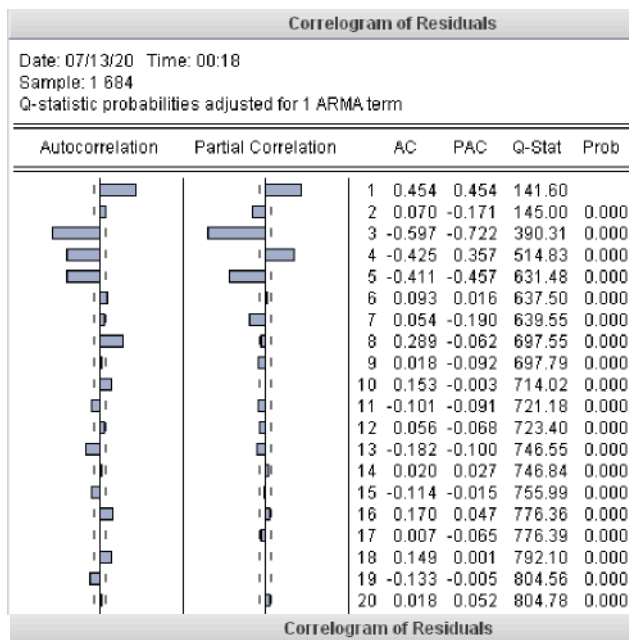
Q-statistic probabilities adjusted for 1 ARMA term

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	-0.248	-0.248	42.324	
		2	-0.298	-0.383	103.47	0.000
		3	0.006	-0.239	103.50	0.000
		4	0.218	0.030	136.32	0.000
		5	0.113	0.199	145.21	0.000
		6	-0.491	-0.371	312.18	0.000
		7	0.151	-0.039	327.97	0.000
		8	0.129	-0.138	339.60	0.000
		9	0.008	-0.038	339.64	0.000
		10	-0.098	0.014	346.31	0.000
		11	0.078	0.232	350.59	0.000
		12	0.005	-0.194	350.61	0.000
		13	-0.048	0.009	352.22	0.000
		14	0.053	0.015	354.18	0.000
		15	-0.053	-0.051	356.14	0.000
		16	0.067	0.077	359.33	0.000
		17	-0.072	0.123	362.99	0.000
		18	-0.003	-0.171	363.00	0.000
		19	0.038	-0.001	364.04	0.000
		20	-0.063	-0.062	366.82	0.000

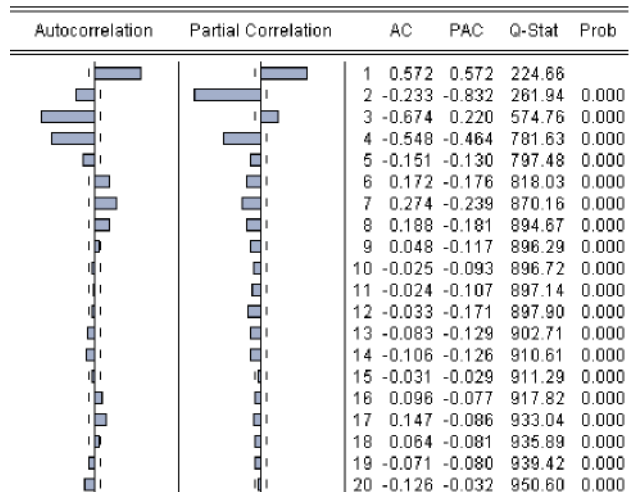


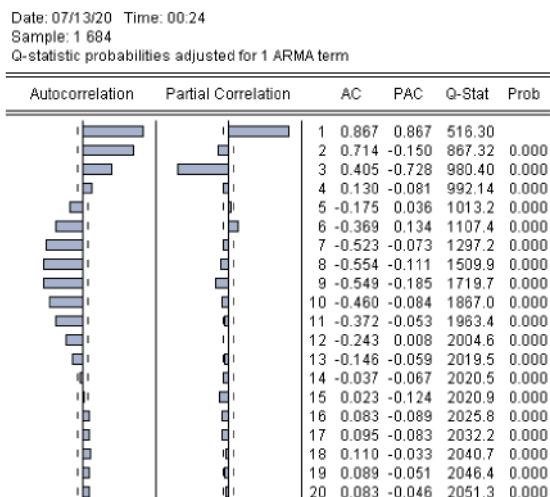
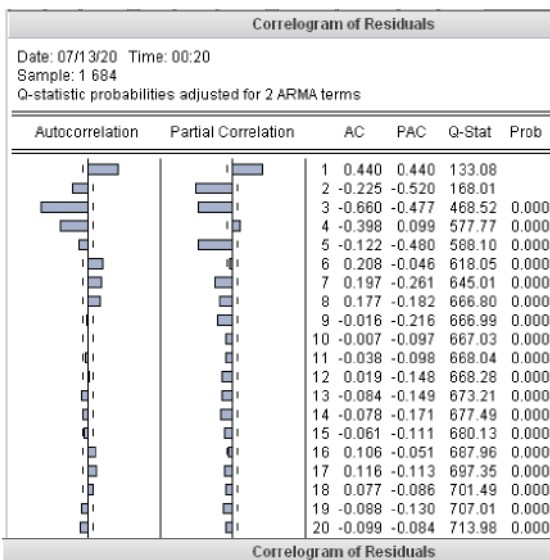
Date: 07/13/20 Time: 00:16
 Sample: 1 684
 Q-statistic probabilities adjusted for 2 ARMA terms





Date: 07/13/20 Time: 00:20
 Sample: 1 684
 Q-statistic probabilities adjusted for 1 ARMA term





Correlogram of Residuals

Date: 07/13/20 Time: 00:25

Sample: 1 684

Q-statistic probabilities adjusted for 1 ARMA term

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.851	0.851	497.92	
		2 0.579	-0.531	728.21	0.000
		3 0.365	0.317	819.77	0.000
		4 0.131	-0.725	831.64	0.000
		5 -0.184	0.035	855.11	0.000
		6 -0.433	0.053	984.72	0.000
		7 -0.495	0.143	1154.8	0.000
		8 -0.477	-0.220	1312.7	0.000
		9 -0.489	-0.133	1478.9	0.000
		10 -0.459	-0.087	1625.7	0.000
		11 -0.318	-0.018	1696.2	0.000
		12 -0.168	-0.094	1715.9	0.000
		13 -0.105	-0.041	1723.5	0.000
		14 -0.057	-0.039	1725.8	0.000
		15 0.046	-0.066	1727.3	0.000
		16 0.124	-0.138	1738.1	0.000
		17 0.103	-0.094	1745.6	0.000
		18 0.064	-0.031	1748.5	0.000
		19 0.085	-0.032	1753.6	0.000
		20 0.100	-0.084	1760.7	0.000

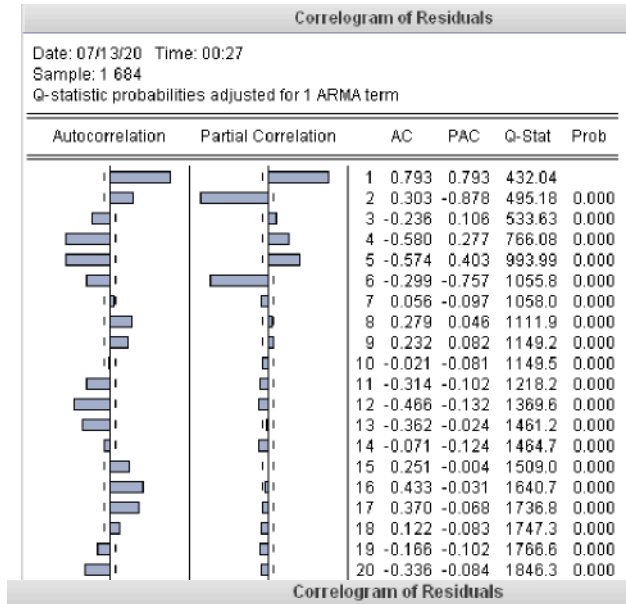
Correlogram of Residuals

Date: 07/13/20 Time: 00:25

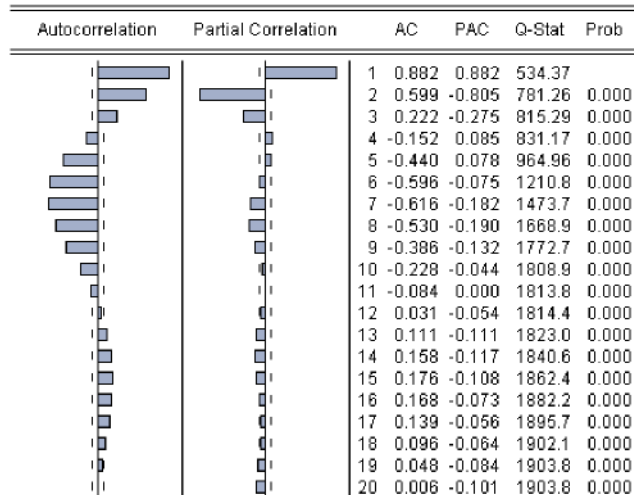
Sample: 1 684

Q-statistic probabilities adjusted for 1 ARMA term

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.836	0.836	479.73	
		2 0.496	-0.669	649.33	0.000
		3 0.128	-0.033	660.61	0.000
		4 -0.083	0.470	665.35	0.000
		5 -0.190	-0.687	690.35	0.000
		6 -0.252	-0.138	734.28	0.000
		7 -0.369	0.142	828.90	0.000
		8 -0.470	-0.010	982.54	0.000
		9 -0.496	-0.080	1153.3	0.000
		10 -0.373	-0.059	1250.1	0.000
		11 -0.193	-0.199	1276.1	0.000
		12 -0.041	-0.079	1277.3	0.000
		13 -0.006	-0.006	1277.3	0.000
		14 -0.024	-0.005	1277.7	0.000
		15 -0.029	-0.077	1278.3	0.000
		16 0.046	-0.084	1279.8	0.000
		17 0.135	-0.137	1292.6	0.000
		18 0.174	-0.078	1314.0	0.000
		19 0.106	-0.047	1322.0	0.000
		20 0.003	-0.019	1322.0	0.000



Date: 07/13/20 Time: 00:28
 Sample: 1 684
 Q-statistic probabilities adjusted for 1 ARMA term



Correlogram of Residuals

Date: 07/13/20 Time: 00:29

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.850	0.850	496.33	
		2	0.593	-0.466	738.39	
		3	0.195	-0.681	764.61	0.000
		4	-0.153	0.151	780.80	0.000
		5	-0.452	0.014	921.85	0.000
		6	-0.579	0.047	1154.2	0.000
		7	-0.607	-0.223	1409.5	0.000
		8	-0.499	-0.146	1582.7	0.000
		9	-0.371	-0.204	1678.5	0.000
		10	-0.202	-0.027	1706.9	0.000
		11	-0.079	-0.027	1711.2	0.000
		12	0.043	-0.007	1712.5	0.000
		13	0.104	-0.139	1720.1	0.000
		14	0.163	-0.086	1738.6	0.000
		15	0.165	-0.144	1757.6	0.000
		16	0.169	-0.051	1777.7	0.000
		17	0.126	-0.076	1788.9	0.000
		18	0.097	-0.041	1795.5	0.000
		19	0.038	-0.105	1796.5	0.000
		20	0.009	-0.083	1796.5	0.000

Correlogram of Residuals

Date: 07/13/20 Time: 00:30

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.808	0.808	448.55	
		2	0.447	-0.592	586.24	
		3	0.143	0.204	600.36	0.000
		4	-0.138	-0.564	613.44	0.000
		5	-0.442	-0.217	748.51	0.000
		6	-0.613	0.218	1008.3	0.000
		7	-0.538	0.064	1208.6	0.000
		8	-0.369	-0.267	1303.3	0.000
		9	-0.277	-0.274	1356.6	0.000
		10	-0.198	-0.071	1383.9	0.000
		11	-0.042	0.007	1385.2	0.000
		12	0.094	-0.054	1391.4	0.000
		13	0.110	-0.069	1399.9	0.000
		14	0.096	-0.082	1406.3	0.000
		15	0.146	-0.134	1421.1	0.000
		16	0.180	-0.115	1444.0	0.000
		17	0.116	-0.052	1453.5	0.000
		18	0.036	-0.036	1454.4	0.000
		19	0.028	-0.085	1455.0	0.000
		20	0.028	-0.112	1455.6	0.000

Correlogram of Residuals

Date: 07/13/20 Time: 00:31

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.810	0.810	450.28	
		2	0.381	-0.796	550.23	
		3	-0.083	0.060	554.94	0.000
		4	-0.374	0.300	651.72	0.000
		5	-0.463	-0.457	799.72	0.000
		6	-0.409	-0.179	915.73	0.000
		7	-0.331	-0.089	991.45	0.000
		8	-0.262	0.047	1039.1	0.000
		9	-0.199	-0.115	1066.7	0.000
		10	-0.106	-0.137	1074.5	0.000
		11	-0.001	-0.162	1074.5	0.000
		12	0.085	-0.081	1079.5	0.000
		13	0.114	-0.049	1088.6	0.000
		14	0.103	-0.015	1096.0	0.000
		15	0.083	-0.107	1100.9	0.000
		16	0.085	-0.110	1105.9	0.000
		17	0.090	-0.119	1111.6	0.000
		18	0.077	-0.052	1115.8	0.000
		19	0.030	-0.057	1116.4	0.000
		20	-0.024	-0.063	1116.8	0.000

Correlogram of Residuals

Date: 07/13/20 Time: 00:31

Sample: 1 684

Q-statistic probabilities adjusted for 2 ARMA terms

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.880	0.880	531.57	
		2	0.643	-0.577	816.24	
		3	0.381	-0.022	916.49	0.000
		4	0.105	-0.322	924.09	0.000
		5	-0.207	-0.458	953.59	0.000
		6	-0.436	0.416	1085.1	0.000
		7	-0.520	0.094	1272.8	0.000
		8	-0.513	-0.230	1455.4	0.000
		9	-0.503	-0.375	1631.4	0.000
		10	-0.446	0.002	1769.9	0.000
		11	-0.316	0.090	1839.4	0.000
		12	-0.175	0.012	1860.7	0.000
		13	-0.102	-0.160	1867.9	0.000
		14	-0.042	-0.088	1869.2	0.000
		15	0.043	-0.107	1870.5	0.000
		16	0.110	-0.067	1879.0	0.000
		17	0.099	-0.076	1885.9	0.000
		18	0.072	-0.006	1889.6	0.000
		19	0.081	-0.051	1894.2	0.000
		20	0.089	-0.082	1899.8	0.000

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**LAMPIRAN C HASIL UJI DIAGNOSIS
HOMOGENITAS**

Correlogram of Residuals Squared

Date: 07/12/20 Time: 22:44

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	-0.789	-0.789	427.83	0.000
		2	0.696	0.195	761.46	0.000
		3	-0.580	0.044	993.44	0.000
		4	0.547	0.146	1200.0	0.000
		5	-0.447	0.109	1337.9	0.000
		6	0.406	0.044	1451.9	0.000
		7	-0.348	-0.010	1535.9	0.000
		8	0.325	0.019	1609.0	0.000
		9	-0.283	-0.010	1664.9	0.000
		10	0.241	-0.055	1705.3	0.000
		11	-0.226	-0.067	1740.8	0.000
		12	0.227	0.057	1776.6	0.000
		13	-0.236	-0.054	1815.6	0.000
		14	0.235	0.029	1854.3	0.000
		15	-0.239	-0.017	1894.5	0.000
		16	0.217	-0.044	1927.7	0.000
		17	-0.204	0.010	1957.0	0.000
		18	0.173	-0.033	1978.0	0.000
		19	-0.153	0.015	1994.6	0.000
		20	0.137	0.018	2007.8	0.000

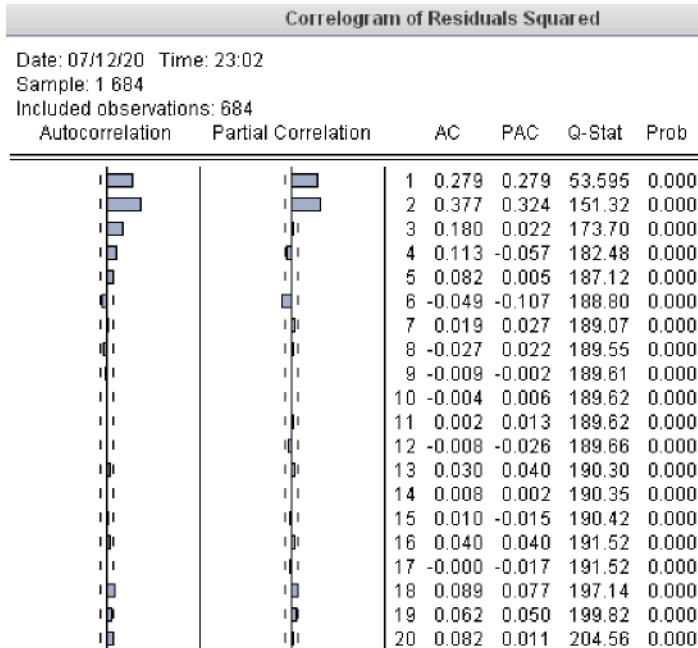
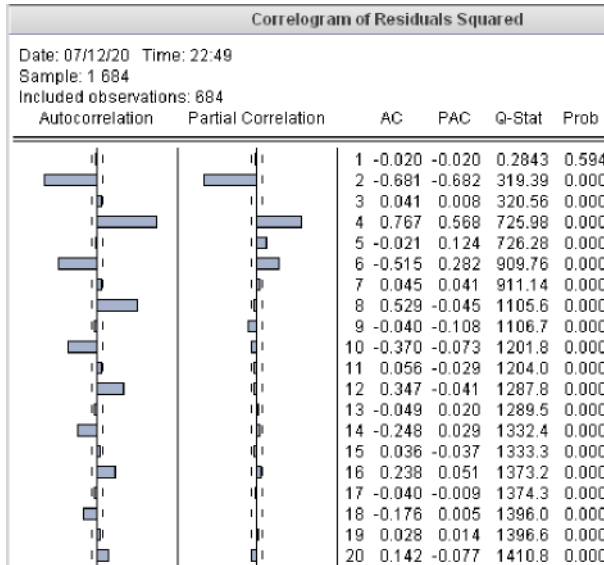
Correlogram of Residuals Squared

Date: 07/12/20 Time: 22:52

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.246	0.246	41.647	0.000
		2	0.120	0.064	51.614	0.000
		3	0.049	0.006	53.259	0.000
		4	0.066	0.049	56.230	0.000
		5	0.018	-0.012	56.446	0.000
		6	-0.023	-0.036	56.808	0.000
		7	0.018	0.032	57.036	0.000
		8	-0.047	-0.059	58.553	0.000
		9	-0.021	-0.001	58.850	0.000
		10	-0.011	0.006	58.930	0.000
		11	-0.016	-0.016	59.108	0.000
		12	0.017	0.032	59.322	0.000
		13	-0.005	-0.010	59.337	0.000
		14	0.003	-0.002	59.344	0.000
		15	0.017	0.023	59.551	0.000
		16	-0.022	-0.039	59.892	0.000
		17	0.034	0.046	60.721	0.000
		18	0.045	0.037	62.153	0.000
		19	0.048	0.019	63.809	0.000
		20	0.014	-0.002	63.958	0.000



Correlogram of Residuals Squared

Date: 07/12/20 Time: 23:03

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.286	0.286	56.290	0.000
		2 0.099	0.019	63.088	0.000
		3 0.031	-0.002	63.769	0.000
		4 0.052	0.046	65.660	0.000
		5 0.021	-0.007	65.951	0.000
		6 -0.016	-0.027	66.127	0.000
		7 0.015	0.029	66.285	0.000
		8 -0.048	-0.065	67.901	0.000
		9 -0.032	-0.005	68.607	0.000
		10 -0.019	0.001	68.849	0.000
		11 -0.013	-0.009	68.964	0.000
		12 0.012	0.024	69.061	0.000
		13 -0.016	-0.022	69.235	0.000
		14 -0.008	-0.003	69.283	0.000
		15 -0.001	0.008	69.284	0.000
		16 -0.026	-0.035	69.773	0.000
		17 0.031	0.051	70.447	0.000
		18 0.043	0.028	71.740	0.000
		19 0.041	0.014	72.911	0.000
		20 0.010	-0.004	72.978	0.000

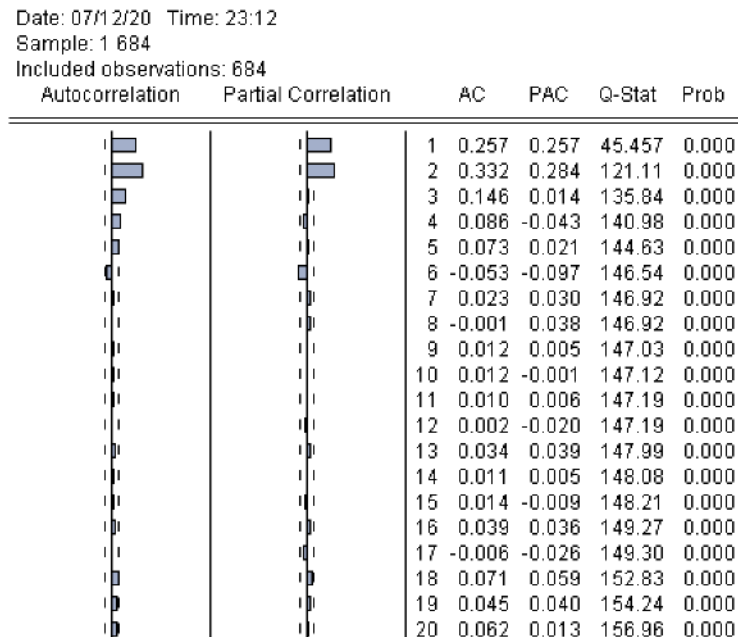
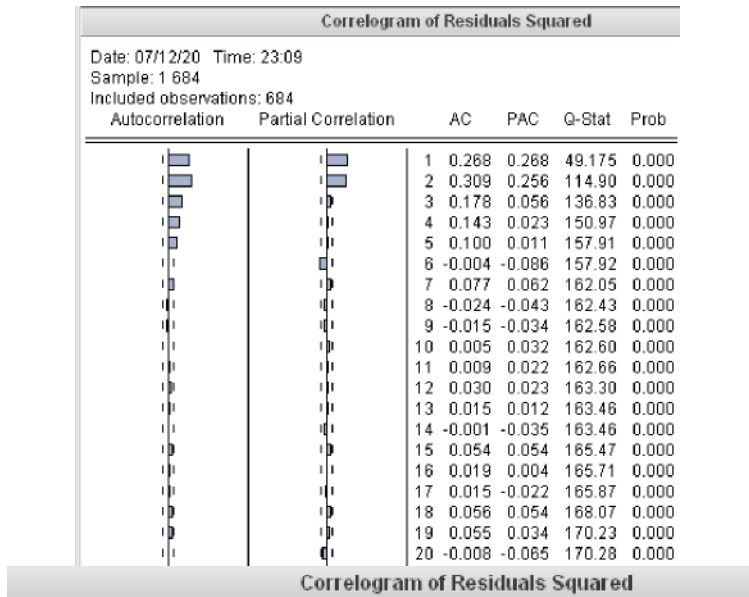
Correlogram of Residuals Squared

Date: 07/12/20 Time: 23:08

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.107	0.107	7.8012	0.005
		2 0.492	0.486	174.53	0.000
		3 0.180	0.135	196.97	0.000
		4 0.152	-0.131	212.82	0.000
		5 0.151	0.001	228.58	0.000
		6 -0.025	-0.094	229.03	0.000
		7 0.072	-0.009	232.58	0.000
		8 -0.039	0.014	233.62	0.000
		9 0.032	0.042	234.33	0.000
		10 -0.010	0.010	234.40	0.000
		11 0.031	0.033	235.09	0.000
		12 0.021	0.008	235.39	0.000
		13 0.036	0.011	236.28	0.000
		14 0.024	-0.013	236.67	0.000
		15 0.015	-0.018	236.83	0.000
		16 0.074	0.074	240.66	0.000
		17 0.012	0.017	240.75	0.000
		18 0.102	0.051	248.06	0.000
		19 -0.005	-0.038	248.08	0.000
		20 0.085	0.009	253.23	0.000



Correlogram of Residuals Squared

Date: 07/12/20 Time: 23:13

Sample: 1 684

Included observations: 684









































Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.204	0.204	28.627	0.000
		2 0.287	0.256	85.245	0.000
		3 0.230	0.150	121.78	0.000
		4 0.152	0.032	137.66	0.000
		5 0.200	0.095	165.25	0.000
		6 0.010	-0.112	165.32	0.000
		7 0.062	-0.025	167.95	0.000
		8 0.014	-0.023	168.08	0.000
		9 -0.016	-0.029	168.27	0.000
		10 0.012	0.011	168.37	0.000
		11 -0.037	-0.007	169.30	0.000
		12 -0.009	-0.000	169.36	0.000
		13 0.023	0.052	169.74	0.000
		14 -0.026	-0.020	170.23	0.000
		15 0.020	0.013	170.50	0.000
		16 -0.024	-0.024	170.92	0.000
		17 -0.014	-0.022	171.06	0.000
		18 -0.000	-0.001	171.06	0.000
		19 0.049	0.082	172.76	0.000
		20 0.026	0.014	173.26	0.000

Correlogram of Residuals Squared

Date: 07/12/20 Time: 23:33

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.304	0.304	63.404	0.000
		2	0.174	0.090	84.188	0.000
		3	0.275	0.222	136.22	0.000
		4	0.151	0.010	152.03	0.000
		5	0.106	0.022	159.80	0.000
		6	0.029	-0.081	160.36	0.000
		7	0.072	0.049	163.94	0.000
		8	-0.008	-0.073	163.99	0.000
		9	-0.007	0.017	164.02	0.000
		10	0.007	-0.012	164.06	0.000
		11	0.006	0.031	164.09	0.000
		12	-0.006	-0.016	164.11	0.000
		13	-0.012	0.003	164.22	0.000
		14	0.003	-0.006	164.22	0.000
		15	0.041	0.058	165.42	0.000
		16	0.039	0.018	166.47	0.000
		17	-0.016	-0.038	166.65	0.000
		18	0.053	0.047	168.60	0.000
		19	0.023	-0.020	168.97	0.000
		20	0.037	0.042	169.95	0.000

Correlogram of Residuals Squared

Date: 07/12/20 Time: 23:39

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.205	0.205	28.812	0.000
		2	0.234	0.201	66.544	0.000
		3	0.224	0.158	101.19	0.000
		4	0.131	0.032	113.10	0.000
		5	0.174	0.086	134.00	0.000
		6	0.011	-0.095	134.09	0.000
		7	0.036	-0.028	134.97	0.000
		8	0.008	-0.030	135.02	0.000
		9	-0.024	-0.025	135.41	0.000
		10	0.003	0.008	135.42	0.000
		11	-0.045	-0.020	136.81	0.000
		12	-0.012	0.008	136.91	0.000
		13	0.015	0.040	137.07	0.000
		14	-0.037	-0.028	138.01	0.000
		15	0.009	0.012	138.07	0.000
		16	-0.037	-0.035	139.03	0.000
		17	-0.030	-0.026	139.66	0.000
		18	-0.011	-0.003	139.75	0.000
		19	0.054	0.094	141.82	0.000
		20	0.029	0.022	142.40	0.000

Correlogram of Residuals Squared

Date: 07/12/20 Time: 23:45

Sample: 1 684

Included observations: 684

	Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
1			0.302	0.302	62.510	0.000
2			0.184	0.102	85.747	0.000
3			0.220	0.156	119.24	0.000
4			0.137	0.026	132.21	0.000
5			0.089	0.007	137.65	0.000
6			0.087	0.020	142.86	0.000
7			0.029	-0.033	143.45	0.000
8			0.030	0.005	144.06	0.000
9			-0.012	-0.043	144.16	0.000
10			-0.060	-0.061	146.70	0.000
11			-0.003	0.031	146.70	0.000
12			0.017	0.033	146.91	0.000
13			0.021	0.036	147.21	0.000
14			-0.029	-0.047	147.82	0.000
15			-0.021	-0.013	148.12	0.000
16			0.025	0.037	148.55	0.000
17			0.063	0.065	151.30	0.000
18			0.109	0.094	159.64	0.000
19			0.092	0.026	165.63	0.000
20			0.130	0.070	177.51	0.000

Correlogram of Residuals Squared

Date: 07/12/20 Time: 23:47

Sample: 1 684

Included observations: 684









































Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.299	0.299	61.280	0.000
		2	0.130	0.045	72.885	0.000
		3	0.142	0.101	86.767	0.000
		4	0.279	0.230	140.60	0.000
		5	0.088	-0.070	145.93	0.000
		6	0.024	-0.025	146.32	0.000
		7	0.073	0.040	149.99	0.000
		8	0.016	-0.088	150.17	0.000
		9	0.021	0.037	150.48	0.000
		10	0.009	0.004	150.54	0.000
		11	-0.003	-0.037	150.54	0.000
		12	-0.009	0.021	150.60	0.000
		13	-0.050	-0.066	152.35	0.000
		14	-0.018	0.006	152.57	0.000
		15	0.009	0.041	152.62	0.000
		16	0.062	0.062	155.33	0.000
		17	0.061	0.065	157.90	0.000
		18	0.039	0.007	159.00	0.000
		19	0.095	0.067	165.42	0.000
		20	0.079	0.005	169.83	0.000

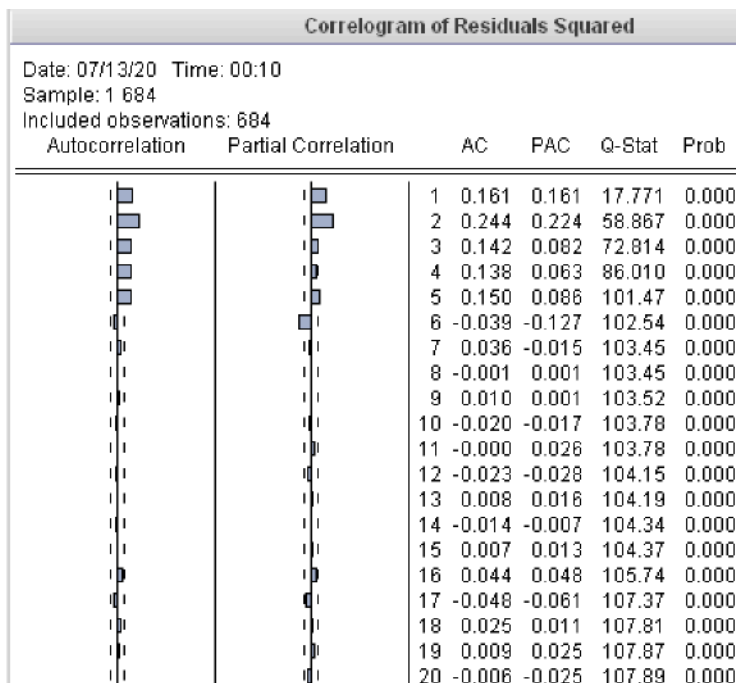
Correlogram of Residuals Squared

Date: 07/12/20 Time: 23:49

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.325	0.325	72.676	0.000
		2	-0.022	-0.143	73.006	0.000
		3	0.026	0.092	73.487	0.000
		4	0.078	0.039	77.666	0.000
		5	0.077	0.047	81.754	0.000
		6	0.058	0.029	84.096	0.000
		7	-0.000	-0.029	84.096	0.000
		8	-0.012	-0.001	84.189	0.000
		9	-0.021	-0.032	84.507	0.000
		10	-0.019	-0.010	84.756	0.000
		11	0.005	0.011	84.776	0.000
		12	0.031	0.028	85.432	0.000
		13	-0.042	-0.064	86.684	0.000
		14	-0.094	-0.056	92.928	0.000
		15	-0.054	-0.011	94.957	0.000
		16	-0.009	-0.002	95.018	0.000
		17	0.050	0.063	96.793	0.000
		18	0.029	0.000	97.378	0.000
		19	0.013	0.031	97.489	0.000
		20	0.056	0.058	99.677	0.000



Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:12

Sample: 1 684

Included observations: 684









































	Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
1			0.239	0.239	39.110	0.000
2			0.143	0.092	53.276	0.000
3			0.159	0.114	70.758	0.000
4			0.140	0.076	84.237	0.000
5			0.189	0.130	108.87	0.000
6			-0.008	-0.114	108.91	0.000
7			0.007	-0.022	108.95	0.000
8			0.007	-0.028	108.98	0.000
9			0.033	0.028	109.74	0.000
10			0.011	-0.010	109.83	0.000
11			0.016	0.043	110.01	0.000
12			0.029	0.018	110.58	0.000
13			-0.023	-0.041	110.94	0.000
14			-0.030	-0.042	111.55	0.000
15			0.012	0.027	111.66	0.000
16			0.053	0.053	113.65	0.000
17			0.043	0.033	114.92	0.000
18			-0.002	-0.009	114.92	0.000
19			0.062	0.061	117.63	0.000
20			0.018	-0.037	117.87	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:13

Sample: 1 684

Included observations: 684









































Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.202	0.202	28.140	0.000
		2 0.134	0.097	40.552	0.000
		3 0.108	0.067	48.549	0.000
		4 0.120	0.081	58.560	0.000
		5 0.173	0.129	79.289	0.000
		6 -0.025	-0.108	79.729	0.000
		7 0.012	-0.008	79.829	0.000
		8 -0.006	-0.025	79.858	0.000
		9 -0.011	-0.025	79.945	0.000
		10 -0.030	-0.035	80.570	0.000
		11 -0.025	0.015	80.990	0.000
		12 -0.022	-0.014	81.334	0.000
		13 -0.015	0.005	81.497	0.000
		14 -0.025	-0.011	81.921	0.000
		15 -0.021	-0.003	82.226	0.000
		16 0.023	0.034	82.611	0.000
		17 -0.039	-0.044	83.686	0.000
		18 -0.000	0.011	83.686	0.000
		19 0.002	0.010	83.690	0.000
		20 -0.022	-0.028	84.030	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:15

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.127	0.127	11.087	0.001
		2	0.255	0.243	55.732	0.000
		3	0.084	0.031	80.593	0.000
		4	0.217	0.156	92.952	0.000
		5	0.085	0.029	97.967	0.000
		6	0.269	0.194	147.93	0.000
		7	0.132	0.067	160.05	0.000
		8	0.061	-0.087	162.60	0.000
		9	0.090	0.029	168.21	0.000
		10	0.066	-0.018	171.21	0.000
		11	-0.011	-0.092	171.30	0.000
		12	0.059	0.006	173.70	0.000
		13	0.048	0.008	175.32	0.000
		14	0.049	0.034	176.97	0.000
		15	0.026	0.009	177.45	0.000
		16	0.119	0.098	187.43	0.000
		17	-0.002	-0.003	187.43	0.000
		18	0.094	0.054	193.65	0.000
		19	0.033	0.003	194.42	0.000
		20	0.068	0.001	197.66	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:16

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.212	0.212	30.924	0.000
		2 0.207	0.169	60.311	0.000
		3 0.136	0.068	72.967	0.000
		4 0.165	0.103	91.684	0.000
		5 0.151	0.080	107.37	0.000
		6 0.210	0.136	137.83	0.000
		7 0.170	0.073	157.75	0.000
		8 0.046	-0.073	159.23	0.000
		9 0.048	-0.030	160.85	0.000
		10 0.045	-0.013	162.25	0.000
		11 0.136	0.091	175.15	0.000
		12 0.062	-0.013	177.86	0.000
		13 0.091	0.024	183.61	0.000
		14 0.084	0.051	188.58	0.000
		15 0.024	-0.026	188.97	0.000
		16 0.038	-0.003	189.99	0.000
		17 0.037	-0.019	190.94	0.000
		18 0.101	0.059	198.11	0.000
		19 0.104	0.072	205.82	0.000
		20 0.035	-0.038	206.68	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:17

Sample: 1 684

Included observations: 684









































	Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
1			0.230	0.230	36.264	0.000
2			0.109	0.060	44.468	0.000
3			0.046	0.009	45.902	0.000
4			0.076	0.061	49.847	0.000
5			0.050	0.019	51.567	0.000
6			0.265	0.256	100.29	0.000
7			0.075	-0.044	104.21	0.000
8			0.010	-0.043	104.28	0.000
9			0.028	0.028	104.82	0.000
10			0.040	0.005	105.94	0.000
11			-0.016	-0.038	106.13	0.000
12			0.054	-0.002	108.14	0.000
13			-0.015	-0.038	108.30	0.000
14			-0.023	-0.004	108.68	0.000
15			0.041	0.051	109.83	0.000
16			0.076	0.050	113.85	0.000
17			0.038	0.029	114.88	0.000
18			0.060	0.032	117.40	0.000
19			0.019	0.004	117.66	0.000
20			0.047	0.052	119.22	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:19

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.438	0.438	131.67	0.000
		2	0.073	-0.146	135.37	0.000
		3	-0.569	-0.685	358.40	0.000
		4	-0.406	0.256	472.35	0.000
		5	-0.390	-0.321	577.25	0.000
		6	0.104	0.012	584.67	0.000
		7	0.052	-0.247	586.54	0.000
		8	0.276	0.053	639.33	0.000
		9	0.012	-0.102	639.44	0.000
		10	0.154	0.046	655.92	0.000
		11	-0.097	-0.082	662.50	0.000
		12	0.048	-0.034	664.10	0.000
		13	-0.186	-0.056	688.23	0.000
		14	0.017	0.022	688.42	0.000
		15	-0.107	0.010	696.51	0.000
		16	0.172	0.063	717.23	0.000
		17	0.006	-0.057	717.26	0.000
		18	0.145	0.027	732.06	0.000
		19	-0.132	-0.031	744.33	0.000
		20	0.013	0.048	744.45	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:20

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.363	0.363	90.426	0.000
		2	0.084	-0.055	95.276	0.000
		3	0.501	0.564	268.10	0.000
		4	0.418	0.049	388.67	0.000
		5	0.116	0.034	397.97	0.000
		6	0.170	-0.088	417.95	0.000
		7	0.188	-0.133	442.39	0.000
		8	0.073	-0.045	446.05	0.000
		9	0.085	0.035	451.10	0.000
		10	0.074	-0.001	454.86	0.000
		11	-0.003	-0.000	454.87	0.000
		12	0.006	-0.020	454.90	0.000
		13	-0.008	-0.070	454.94	0.000
		14	-0.045	-0.010	456.37	0.000
		15	-0.036	-0.014	457.30	0.000
		16	-0.014	0.054	457.44	0.000
		17	-0.027	0.032	457.96	0.000
		18	-0.048	-0.009	459.59	0.000
		19	0.005	0.051	459.61	0.000
		20	0.001	-0.038	459.61	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:21

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.264	0.264	47.895	0.000
		2	0.098	0.030	54.473	0.000
		3	0.445	0.443	190.73	0.000
		4	0.286	0.093	247.27	0.000
		5	0.115	0.034	256.39	0.000
		6	0.151	-0.069	272.23	0.000
		7	0.168	-0.006	291.76	0.000
		8	0.078	-0.042	296.01	0.000
		9	0.086	0.041	301.15	0.000
		10	0.079	-0.015	305.45	0.000
		11	0.002	-0.050	305.46	0.000
		12	0.023	-0.015	305.82	0.000
		13	0.018	-0.028	306.06	0.000
		14	-0.045	-0.039	307.49	0.000
		15	-0.039	-0.019	308.54	0.000
		16	0.034	0.068	309.34	0.000
		17	-0.031	-0.012	310.03	0.000
		18	-0.057	0.003	312.32	0.000
		19	0.019	0.013	312.58	0.000
		20	0.001	0.007	312.58	0.000

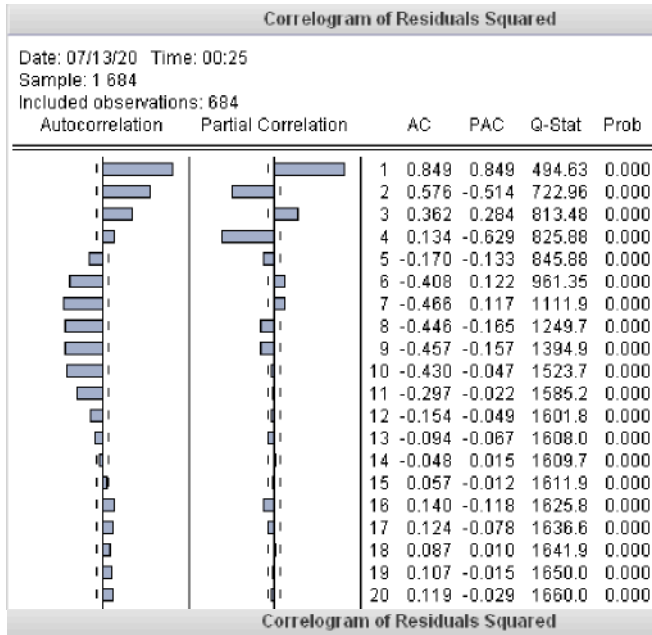
Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:24

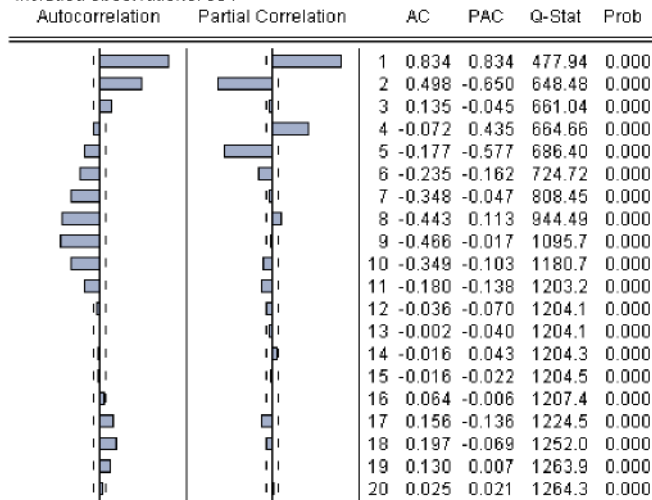
Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob	
		1	0.856	0.856	503.74	0.000
		2	0.704	-0.110	844.61	0.000
		3	0.402	-0.658	955.71	0.000
		4	0.134	-0.123	968.03	0.000
		5	-0.160	-0.046	985.77	0.000
		6	-0.344	0.129	1067.7	0.000
		7	-0.490	-0.049	1234.1	0.000
		8	-0.516	-0.060	1419.1	0.000
		9	-0.512	-0.158	1601.6	0.000
		10	-0.428	-0.083	1729.3	0.000
		11	-0.347	-0.057	1813.2	0.000
		12	-0.226	0.006	1848.8	0.000
		13	-0.135	-0.039	1861.5	0.000
		14	-0.029	-0.017	1862.1	0.000
		15	0.032	-0.085	1862.8	0.000
		16	0.097	-0.043	1869.4	0.000
		17	0.112	-0.073	1878.3	0.000
		18	0.132	-0.020	1890.5	0.000
		19	0.112	-0.028	1899.3	0.000
		20	0.103	-0.012	1906.8	0.000



Date: 07/13/20 Time: 00:26
 Sample: 1 684
 Included observations: 684



Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:27

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.787	0.787	425.85	0.000
		2 0.301	-0.839	488.09	0.000
		3 -0.208	0.155	517.89	0.000
		4 -0.521	0.044	705.48	0.000
		5 -0.523	0.223	894.63	0.000
		6 -0.283	-0.239	950.11	0.000
		7 0.042	0.147	951.35	0.000
		8 0.254	-0.447	996.05	0.000
		9 0.208	-0.280	1026.0	0.000
		10 -0.031	0.253	1026.7	0.000
		11 -0.299	-0.086	1089.2	0.000
		12 -0.432	-0.024	1219.7	0.000
		13 -0.333	0.069	1297.1	0.000
		14 -0.055	0.004	1299.2	0.000
		15 0.260	-0.178	1346.8	0.000
		16 0.442	-0.071	1483.7	0.000
		17 0.378	0.048	1584.2	0.000
		18 0.140	0.180	1598.0	0.000
		19 -0.126	-0.102	1609.2	0.000
		20 -0.281	-0.006	1665.0	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:28

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.827	0.827	469.57	0.000
		2 0.492	-0.604	636.39	0.000
		3 0.233	0.396	673.92	0.000
		4 0.175	0.224	694.99	0.000
		5 0.262	0.007	742.51	0.000
		6 0.368	0.070	836.19	0.000
		7 0.415	0.146	955.64	0.000
		8 0.403	0.075	1068.3	0.000
		9 0.356	-0.027	1156.2	0.000
		10 0.293	-0.013	1216.1	0.000
		11 0.244	0.087	1257.5	0.000
		12 0.232	0.058	1295.2	0.000
		13 0.255	-0.025	1340.6	0.000
		14 0.268	-0.072	1390.9	0.000
		15 0.236	-0.031	1430.1	0.000
		16 0.170	-0.012	1450.3	0.000
		17 0.112	-0.017	1459.2	0.000
		18 0.101	0.009	1466.4	0.000
		19 0.136	0.041	1479.6	0.000
		20 0.185	0.025	1503.8	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:29

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.730	0.730	365.67	0.000
		2 0.443	-0.191	500.60	0.000
		3 0.207	-0.085	530.08	0.000
		4 0.154	0.204	546.37	0.000
		5 0.252	0.240	590.09	0.000
		6 0.327	0.002	664.02	0.000
		7 0.372	0.102	759.76	0.000
		8 0.356	0.092	847.59	0.000
		9 0.311	0.043	914.95	0.000
		10 0.256	-0.010	960.50	0.000
		11 0.205	0.001	989.73	0.000
		12 0.201	0.067	1017.9	0.000
		13 0.236	0.067	1056.8	0.000
		14 0.245	-0.054	1098.7	0.000
		15 0.216	-0.041	1131.4	0.000
		16 0.147	-0.039	1146.5	0.000
		17 0.095	-0.008	1152.9	0.000
		18 0.089	0.002	1158.5	0.000
		19 0.123	0.024	1169.1	0.000
		20 0.173	0.041	1190.2	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:30

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.673	0.673	311.48	0.000
		2 0.295	-0.291	371.19	0.000
		3 0.154	0.188	387.60	0.000
		4 0.128	-0.019	398.63	0.000
		5 0.256	0.336	443.94	0.000
		6 0.401	0.103	555.00	0.000
		7 0.302	-0.164	618.00	0.000
		8 0.227	0.252	653.89	0.000
		9 0.240	0.015	694.02	0.000
		10 0.199	-0.014	721.59	0.000
		11 0.167	-0.045	741.11	0.000
		12 0.195	0.085	767.56	0.000
		13 0.189	0.059	792.60	0.000
		14 0.189	-0.042	817.65	0.000
		15 0.181	-0.037	840.53	0.000
		16 0.130	0.027	852.38	0.000
		17 0.065	-0.076	855.36	0.000
		18 0.067	0.024	858.57	0.000
		19 0.110	0.024	867.07	0.000
		20 0.160	0.069	885.13	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:31

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.679	0.679	316.41	0.000
		2 0.208	-0.468	346.20	0.000
		3 0.112	0.528	354.86	0.000
		4 0.252	-0.127	398.82	0.000
		5 0.310	0.182	485.30	0.000
		6 0.234	-0.017	503.09	0.000
		7 0.157	0.068	520.13	0.000
		8 0.138	-0.028	533.35	0.000
		9 0.148	0.066	548.61	0.000
		10 0.128	-0.093	559.97	0.000
		11 0.067	0.003	563.07	0.000
		12 0.053	0.083	565.03	0.000
		13 0.121	0.041	575.22	0.000
		14 0.186	0.058	599.33	0.000
		15 0.165	-0.010	618.45	0.000
		16 0.077	-0.046	622.60	0.000
		17 0.027	0.039	623.10	0.000
		18 0.055	-0.021	625.22	0.000
		19 0.111	0.065	633.97	0.000
		20 0.133	0.000	646.51	0.000

Correlogram of Residuals Squared

Date: 07/13/20 Time: 00:32

Sample: 1 684

Included observations: 684

Autocorrelation	Partial Correlation	AC	PAC	Q-Stat	Prob
		1 0.882	0.882	534.45	0.000
		2 0.650	-0.577	825.04	0.000
		3 0.420	0.169	946.72	0.000
		4 0.246	-0.006	988.53	0.000
		5 0.174	0.281	1009.5	0.000
		6 0.201	0.080	1037.4	0.000
		7 0.254	-0.110	1082.1	0.000
		8 0.320	0.291	1153.1	0.000
		9 0.394	0.092	1260.9	0.000
		10 0.436	-0.012	1393.5	0.000
		11 0.447	0.105	1532.8	0.000
		12 0.451	0.134	1675.1	0.000
		13 0.439	0.039	1810.1	0.000
		14 0.404	-0.055	1924.4	0.000
		15 0.342	-0.144	2006.6	0.000
		16 0.256	0.020	2052.7	0.000
		17 0.170	0.010	2073.1	0.000
		18 0.116	-0.069	2082.5	0.000
		19 0.103	-0.009	2090.0	0.000
		20 0.123	-0.036	2100.6	0.000

LAMPIRAN D SELURUH PROSES IMF 1

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
1	1.041340559	1.349405239	1.161639031			
2	1.30746066	1.083285138	1.040809847			
3	-0.516061269	2.906807066	1.704936089	1.150055083	1.322626693	1.068119105
4	-1.100503381	3.491249179	1.868488474	1.030430816	1.061787666	1.328958131
5	-0.843965701	3.234711498	1.798530372	1.426105325	2.033776399	0.356969399
6	0.839140441	1.551605356	1.245634519	1.447359883	2.09485063	0.295895167
7	-0.648014654	3.038760451	1.743204076	1.549831596	2.401977976	-0.011232178
8	0.384002912	2.006742885	1.416595526	1.380343104	1.905347085	0.485398712
9	-0.245700459	2.636446257	1.623713724	1.598053288	2.55377431	-0.163028513
10	0.266393563	2.124352234	1.457515775	1.389383445	1.930386357	0.46035944
11	-0.027837667	2.418583465	1.55517956	1.603175057	2.570170263	-0.179424466
12	-0.335078807	2.725824604	1.651007148	1.402982516	1.968359939	0.422385858
13	0.340636908	2.050108889	1.431820132	1.595189214	2.544628628	-0.15388283
14	-0.114560121	2.505305918	1.582815819	1.444250676	2.085860014	0.304885784
15	0.228331207	2.162414591	1.470515077	1.571884307	2.470820276	-0.080074479
16	-0.2652625	2.656008298	1.629726449	1.464017253	2.143346518	0.247399279
17	0.127714354	2.263031443	1.504337543	1.559229087	2.431195347	-0.040449549
18	-0.013162646	2.403908444	1.55045427	1.484704856	2.20434851	0.186397288
19	-0.01478399	2.405529788	1.550977043	1.553136845	2.412234059	-0.021488262
20	-0.04699373	2.437739527	1.561326208	1.49200218	2.226070504	0.164675293
21	-0.071205714	2.461951511	1.56906071	1.552921082	2.411563887	-0.02081809
22	0.441766542	1.948979255	1.396058471	1.498927607	2.246783971	0.143961827
23	-0.608121661	2.998867458	1.73172384	1.554386979	2.41611888	-0.025373082
24	0.702109997	1.688635801	1.299475202	1.489584423	2.218861752	0.171884046
25	-0.625451924	3.016197722	1.736720393	1.569152657	2.46224006	-0.071494263

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
26	-0.539113263	2.92985906	1.711683107	1.473755274	2.171954607	0.21879119
27	0.577611734	1.813134063	1.346526666	1.582032504	2.502826842	-0.112081045
28	-0.406270961	2.797016759	1.672428402	1.492043246	2.226193047	0.164552751
29	0.099485661	2.291260137	1.513690899	1.565222752	2.449922262	-0.059176465
30	0.195444709	2.195301089	1.481654848	1.504918637	2.264780103	0.125965695
31	-0.315267856	2.706013653	1.644996551	1.5617896	2.439186755	-0.048440957
32	0.085121175	2.305624622	1.518428339	1.503368758	2.260117623	0.130628175
33	0.489765171	1.900980626	1.37876054	1.566986763	2.455447515	-0.064701717
34	-0.611574359	3.002320156	1.732720449	1.50430939	2.26294674	0.127799057
35	0.618542785	1.772203013	1.331241155	1.555921188	2.420890743	-0.030144946
36	-0.337847224	2.728593021	1.651845338	1.517737379	2.303526751	0.087219046
37	-0.287394951	2.678140749	1.636502597	1.543445944	2.382225383	0.008520415
38	-0.160787953	2.551533751	1.597352106	1.525183655	2.32618518	0.064560617
39	-0.128058214	2.518804012	1.587074041	1.548341068	2.397360063	-0.006614265
40	0.451605933	1.939139864	1.392530023	1.528979982	2.337779785	0.052966013
41	0.075792067	2.314953731	1.5214972	1.550276742	2.403357976	-0.012612179
42	-0.397405344	2.788151141	1.669775776	1.522160918	2.316973859	0.073771938
43	-0.502242077	2.892987875	1.70087856	1.548906944	2.399112723	-0.008366925
44	0.196008111	2.194737687	1.48146471	1.529186827	2.338412352	0.052333445
45	0.723961958	1.666783839	1.291039829	1.555811584	2.420549686	-0.029803889
46	0.292905875	2.097839922	1.448392185	1.527018633	2.331785904	0.058959893
47	-0.726530623	3.117276421	1.765581043	1.544304807	2.384877338	0.00586846
48	-0.313149916	2.703895714	1.644352673	1.523601588	2.321361798	0.069384
49	0.587997859	1.802747938	1.342664492	1.553520783	2.413426824	-0.022681027
50	0.233004227	2.15774157	1.468925311	1.528630773	2.336712039	0.054033759
51	-0.462712105	2.853457902	1.689218133	1.545089928	2.387302885	0.003442913
52	0.337658499	2.053087299	1.432859832	1.526243516	2.329419269	0.061326528

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
53	0.095568284	2.295177514	1.514984328	1.550631174	2.404457038	-0.013711241
54	0.014778748	2.375967049	1.541417221	1.522653226	2.318472847	0.072272951
55	-0.024338877	2.415084674	1.55405427	1.549311413	2.400365854	-0.009620056
56	-0.800290542	3.19103634	1.786347206	1.52334793	2.320588915	0.070156882
57	-0.462987753	2.853733551	1.689299722	1.54948074	2.400890562	-0.010144765
58	1.044055656	1.346690141	1.160469793	1.532737384	2.34928389	0.041461908
59	-1.063262013	3.45400781	1.858496115	1.55430041	2.415849766	-0.025103968
60	0.66591665	1.724829147	1.31332751	1.519905026	2.310111289	0.080634508
61	0.823839446	1.566906351	1.2517613	1.564436865	2.447462706	-0.056716908
62	-0.503928969	2.894674766	1.701374376	1.513021419	2.289233815	0.101511982
63	-0.543045372	2.933791169	1.712831331	1.554353831	2.416015833	-0.025270036
64	-0.334813412	2.72555921	1.650926773	1.519095349	2.307650678	0.08309512
65	0.640103263	1.750642535	1.323118489	1.559304696	2.431431134	-0.040685337
66	-0.585931365	2.976677162	1.725304948	1.523213785	2.320180234	0.070565563
67	0.131290706	2.259455092	1.503148393	1.552149721	2.409168755	-0.018422958
68	-0.233189224	2.623935022	1.619856482	1.529335892	2.33886827	0.051877527
69	0.528002203	1.862743594	1.364823649	1.550708932	2.404698191	-0.013952393
70	-0.329003415	2.719749213	1.649166217	1.531997474	2.347016261	0.043729537
71	-0.563049493	2.953795291	1.718660901	1.545399451	2.388259462	0.002486335
72	0.719458432	1.671287366	1.292782799	1.53534419	2.357281782	0.033464016
73	0.124847287	2.265898511	1.505290175	1.550210923	2.403153907	-0.01240811
74	-0.853549386	3.244295183	1.801192711	1.528608257	2.336643203	0.054102595
75	-0.161882631	2.552628428	1.597694723	1.548997179	2.399392262	-0.008646464
76	0.895186094	1.495559704	1.222930785	1.535973401	2.359214288	0.03153151
77	-0.601624388	2.992370186	1.729846868	1.550278354	2.403362976	-0.012617178
78	-0.748388606	3.139134403	1.771760256	1.527737618	2.333982231	0.056763567
79	0.694725387	1.69602041	1.302313484	1.554881487	2.41765644	-0.026910642

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
80	0.077510047	2.31323575	1.520932527	1.533992995	2.353134509	0.037611289
81	-0.463839456	2.854585254	1.689551791	1.548568875	2.398065562	-0.007319764
82	0.333616776	2.057129022	1.434269508	1.533666565	2.352133134	0.038612664
83	-0.302164064	2.692909861	1.641008794	1.552006639	2.408724609	-0.017978811
84	0.265924155	2.124821642	1.457676796	1.531242842	2.34470464	0.046041157
85	-0.298828629	2.689574426	1.639992203	1.554125231	2.415305233	-0.024559435
86	0.357163145	2.033582653	1.426037395	1.529491689	2.339344826	0.051400972
87	-0.35208485	2.742830647	1.656149343	1.55612167	2.421514652	-0.030768854
88	0.387932298	2.0028135	1.415207935	1.527086338	2.331992683	0.058753115
89	-0.441854555	2.832600353	1.683033081	1.558394507	2.428593438	-0.037847641
90	0.300489345	2.090256453	1.445771923	1.524544228	2.324235103	0.066510695
91	0.236947041	2.153798757	1.467582624	1.561163634	2.437231891	-0.046486094
92	-0.365174072	2.755919869	1.660096343	1.522794123	2.318901942	0.071843855
93	0.422361312	1.968384486	1.402991264	1.559129709	2.430885448	-0.040139651
94	-0.433979197	2.824724995	1.68069182	1.525778302	2.327999426	0.062746371
95	0.414554841	1.976190957	1.405770592	1.555808325	2.420539543	-0.029793746
96	-0.275001947	2.665747745	1.632711776	1.529073629	2.338066163	0.052679635
97	-0.285204458	2.675950256	1.635833199	1.552683193	2.410825099	-0.020079301
98	0.339067865	2.051677932	1.432367946	1.531232305	2.344672371	0.046073426
99	-0.000226383	2.39097218	1.546276877	1.554379784	2.416096513	-0.025350716
100	-0.08299878	2.473744578	1.572814222	1.529215079	2.338498757	0.05224704
101	-0.04181156	2.432557358	1.559665784	1.554217758	2.415592841	-0.024847043
102	-0.001065281	2.391811078	1.546548117	1.530086886	2.34116588	0.049579918
103	-0.070196182	2.460941979	1.568738977	1.554324561	2.415924842	-0.025179045
104	-0.025896129	2.416641927	1.554555218	1.530409592	2.342153519	0.048592278
105	0.337672189	2.053073608	1.432855055	1.554601708	2.416786471	-0.026040674
106	-0.032526252	2.42327205	1.55668624	1.530873841	2.343574718	0.04717108

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
107	-0.221898741	2.612644538	1.616367699	1.552305037	2.409650928	-0.01890513
108	-0.565978035	2.956723832	1.719512673	1.531360775	2.345065824	0.045679973
109	0.650812179	1.739933618	1.319065434	1.553491162	2.41333479	-0.022588993
110	-0.585006052	2.97575185	1.725036768	1.534844421	2.355747398	0.034998399
111	-0.181484894	2.572230692	1.603817537	1.549229654	2.400112522	-0.009366724
112	0.558240096	1.832505701	1.353700743	1.538301833	2.366372528	0.02437327
113	-0.539267024	2.930012822	1.711728022	1.550204263	2.403133258	-0.01238746
114	0.119815201	2.270930596	1.506960715	1.535005976	2.356243346	0.034502452
115	0.155527955	2.235217842	1.495064494	1.553037514	2.41192552	-0.021179723
116	0.293521865	2.097223932	1.448179524	1.53451404	2.35473334	0.036012458
117	0.239301836	2.151443961	1.466780134	1.552038152	2.408822426	-0.018076629
118	-0.207456688	2.598202485	1.611894068	1.533025772	2.350168017	0.04057778
119	0.142868976	2.247876821	1.499292107	1.550593347	2.404339728	-0.01359393
120	-0.539751564	2.930497362	1.711869552	1.534362295	2.354267653	0.036478145
121	0.502069436	1.888676362	1.374291222	1.549738469	2.401689323	-0.010943526
122	-0.289227418	2.679973216	1.637062374	1.537320254	2.363353565	0.027392233
123	0.299057292	2.091688506	1.446267093	1.546862758	2.392784393	-0.002038595
124	0.429562252	1.961183545	1.400422631	1.538955102	2.368382807	0.022362991
125	-0.663058675	3.053804472	1.747513797	1.54524051	2.387768234	0.002977564
126	0.629069527	1.761676271	1.327281534	1.536721069	2.361511644	0.029234153
127	0.573434587	1.817311211	1.348076856	1.548450686	2.397699526	-0.006953729
128	-0.634897147	3.025642944	1.739437537	1.533397161	2.351306855	0.039438943
129	-0.725586999	3.116332796	1.765313795	1.545320335	2.388014939	0.002730858
130	0.876978319	1.513767479	1.230352583	1.536616038	2.361188847	0.02955695
131	-0.817038875	3.207784672	1.791028942	1.548704328	2.398485096	-0.007739298
132	0.450377658	1.94036814	1.392970976	1.531905019	2.346732988	0.04401281
133	0.514985548	1.875760249	1.369583969	1.552375355	2.409869244	-0.019123446

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
134	-0.425296672	2.816042469	1.678106811	1.529800278	2.34028889	0.050456908
135	0.230261589	2.160484209	1.469858568	1.549647534	2.401407479	-0.010661682
136	0.026684046	2.364061752	1.537550569	1.532013477	2.347065293	0.043680504
137	-0.163352567	2.554098364	1.598154675	1.54847434	2.397772781	-0.007026983
138	-0.004535245	2.395281042	1.547669552	1.532094893	2.34731476	0.043431037
139	0.250105262	2.140640536	1.463092798	1.54919424	2.400002793	-0.009256996
140	0.18226774	2.208478057	1.486094902	1.53232058	2.348006359	0.042739439
141	0.20474918	2.185996618	1.478511623	1.547964395	2.396193769	-0.005447972
142	-0.770042997	3.160788795	1.777860736	1.531660307	2.345983297	0.044762501
143	0.851740542	1.539005255	1.240566506	1.546986325	2.393166691	-0.002420893
144	-0.801288426	3.192034224	1.786626493	1.53512743	2.356616226	0.034129572
145	-0.503721662	2.89446746	1.701313451	1.542731086	2.380019205	0.010726593
146	0.593096091	1.797649707	1.340764598	1.538619987	2.367351463	0.023394334
147	0.315242779	2.075503019	1.440660619	1.54490315	2.386725742	0.004020056
148	-0.599987319	2.990733116	1.72937362	1.53591001	2.35901956	0.031726237
149	0.642406407	1.748339391	1.322247855	1.543494657	2.382375757	0.008370041
150	0.080780412	2.309965385	1.519857028	1.53852403	2.367056191	0.023689607
151	-0.357222555	2.747968353	1.657699717	1.540545093	2.373279185	0.017466613
152	-0.893053471	3.283799269	1.812125622	1.53827517	2.366290498	0.0244553
153	0.770713585	1.620032212	1.27280486	1.542086399	2.378030461	0.012715336
154	0.811624165	1.579121633	1.256631065	1.541877991	2.377387739	0.013358059
155	-0.249535758	2.640281555	1.624894321	1.53858969	2.367258235	0.023487563
156	-0.729194033	3.11993983	1.766335141	1.538173967	2.365979151	0.024766646
157	0.489406653	1.901339145	1.378890548	1.539696018	2.370663828	0.02008197
158	0.195337295	2.195408502	1.481691095	1.541098735	2.374985311	0.015760487
159	-0.516482752	2.907228549	1.705059691	1.537660763	2.364400623	0.026345175
160	0.504939917	1.88580588	1.373246475	1.540346835	2.372668371	0.018077427

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
161	0.086084655	2.304661143	1.518111044	1.539752988	2.370839265	0.019906532
162	-0.447079199	2.837824996	1.684584517	1.538258341	2.366238723	0.024507074
163	-0.296121198	2.686866996	1.639166555	1.539485837	2.370016642	0.020729156
164	-0.104661677	2.495407474	1.579685878	1.540064614	2.371799016	0.018946782
165	0.450641783	1.940104015	1.392876166	1.540701307	2.373760518	0.016985279
166	0.330060788	2.06068501	1.435508624	1.540547741	2.373287344	0.017458454
167	-0.52850189	2.919247687	1.708580606	1.538920496	2.368276292	0.022469505
168	0.495147238	1.895598559	1.376807379	1.539282362	2.36939019	0.021355607
169	-0.445407215	2.836153013	1.684088184	1.540940019	2.374496142	0.016249655
170	0.362901231	2.027844567	1.424024075	1.537348366	2.363439998	0.027305799
171	-0.376634756	2.767380553	1.663544575	1.542623917	2.379688551	0.011057247
172	0.415161389	1.975584408	1.40555484	1.536015295	2.359342988	0.03140281
173	-0.390708549	2.781454346	1.667769272	1.544029809	2.38402805	0.006717748
174	0.250611694	2.140134104	1.462919719	1.534498489	2.354685614	0.036060184
175	0.054857055	2.335888743	1.528361457	1.545451938	2.388421693	0.002324104
176	-0.034186291	2.424932088	1.557219345	1.533675839	2.352161579	0.038584218
177	0.014101316	2.376644482	1.541636949	1.54525775	2.387821515	0.002924283
178	-0.435293144	2.826038942	1.68108267	1.533943349	2.352982197	0.037763601
179	0.425301618	1.965444179	1.401943002	1.545217072	2.387695798	0.003049999
180	0.588059442	1.802686356	1.342641559	1.535596414	2.358056348	0.03268945
181	-0.6563363	3.047082098	1.745589327	1.543625314	2.382779109	0.007966689
182	-0.139578649	2.530324446	1.590699358	1.533452709	2.35147721	0.039268588
183	0.480307075	1.910438723	1.382186211	1.545844456	2.389635081	0.001110717
184	0.163945836	2.226799962	1.492246616	1.534081724	2.353406736	0.037339062
185	-0.16849053	2.559236328	1.599761335	1.544065754	2.384139053	0.006606745
186	-0.181991669	2.572737466	1.603975519	1.533627044	2.352011909	0.038733888
187	0.306919576	2.083826222	1.443546405	1.544664567	2.385988625	0.004757172

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
188	0.011921759	2.378824039	1.542343684	1.534383398	2.354332412	0.036413385
189	-0.339477172	2.730222969	1.652338636	1.543588956	2.382666865	0.008078933
190	0.334884407	2.05586139	1.433827532	1.534468073	2.354592267	0.036153531
191	-0.023796247	2.414542044	1.553879675	1.54473357	2.386201801	0.004543997
192	-0.126896474	2.517642272	1.586707998	1.53340881	2.351342578	0.03940322
193	-0.212859742	2.603605539	1.613569193	1.544828832	2.386496119	0.004249678
194	0.19420528	2.196540518	1.482073047	1.533963952	2.353045406	0.037700391
195	-0.009448582	2.40019438	1.549256073	1.545537423	2.388685925	0.002059873
196	0.242980226	2.147765572	1.465525698	1.533429049	2.351404649	0.039341149
197	-0.284719925	2.675465722	1.635685093	1.545575364	2.388803206	0.001942591
198	0.064833067	2.325912731	1.525094335	1.532736228	2.349280344	0.041465453
199	-0.254851777	2.645597574	1.626529303	1.546485472	2.391617316	-0.000871518
200	0.365379535	2.025366263	1.423153633	1.532659045	2.349043748	0.04170205
201	0.168604135	2.222141663	1.490684964	1.547285831	2.394093443	-0.003347646
202	-0.501162871	2.891908669	1.700561281	1.531564099	2.34568859	0.045057207
203	-0.129725859	2.520471657	1.587599338	1.546725482	2.392359715	-0.001613918
204	0.631280554	1.759465244	1.326448357	1.533237174	2.350816233	0.039929564
205	-0.648709878	3.039455676	1.743403475	1.547126167	2.393599376	-0.002853578
206	0.635627952	1.755117845	1.324808607	1.53121003	2.344604156	0.046141641
207	-0.41866023	2.809406028	1.676128285	1.549031588	2.399498862	-0.008753065
208	-0.357555009	2.748300807	1.65779999	1.529206325	2.338471985	0.052273812
209	-0.447588329	2.838334127	1.684735625	1.550253556	2.403286087	-0.01254029
210	0.213892022	2.176853776	1.475416475	1.530442685	2.342254813	0.048490985
211	0.220550674	2.170195123	1.473158214	1.551534217	2.407258426	-0.016512628
212	0.504577686	1.886168111	1.373378357	1.529918675	2.340651153	0.050094644
213	0.566906527	1.823839271	1.350495935	1.550794889	2.404964789	-0.014218992
214	-0.224325868	2.615071665	1.617118321	1.528442018	2.336135001	0.054610796

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
215	-0.583171169	2.973916966	1.724504847	1.548923109	2.399162799	-0.008417001
216	-0.296009856	2.686755654	1.639132592	1.529270692	2.338668848	0.052076949
217	0.437597586	1.953148211	1.39755079	1.550548718	2.404201326	-0.013455528
218	-0.103739654	2.494485451	1.579394014	1.530287838	2.341780869	0.048964929
219	0.463683225	1.927062573	1.388186793	1.549145194	2.399850832	-0.009105035
220	-0.480169627	2.870915425	1.694377592	1.530738313	2.343159783	0.047586014
221	-0.335172151	2.725917949	1.651035417	1.547682067	2.395319781	-0.004573983
222	0.501156425	1.889589373	1.374623357	1.532225809	2.347715931	0.043029866
223	0.735141429	1.655604368	1.286702906	1.548613096	2.39820252	-0.007456722
224	-0.103106645	2.493852442	1.579193605	1.530806094	2.343367296	0.047378501
225	-0.933473421	3.324219218	1.823244147	1.546274817	2.390965811	-0.000220014
226	0.90526885	1.485476947	1.218801439	1.531238087	2.344690079	0.046055718
227	0.174849962	2.215895836	1.488588538	1.54872566	2.39855117	-0.007805372
228	-0.188943203	2.579689001	1.606141028	1.528473402	2.33623094	0.054514857
229	-0.542970272	2.933716069	1.712809408	1.548198187	2.396917626	-0.006171828
230	-0.313400586	2.704146383	1.644428893	1.529154638	2.338313907	0.052431891
231	0.167777825	2.222967973	1.490962096	1.549629466	2.401351483	-0.010605685
232	0.340012981	2.050732816	1.432037994	1.530156937	2.341380252	0.049365545
233	-0.357839979	2.748585777	1.657885936	1.549123756	2.399784411	-0.009038614
234	0.256567483	2.134178314	1.460882717	1.529311156	2.338792611	0.051953186
235	-0.188478216	2.579224014	1.605996268	1.550053269	2.402665137	-0.01191934
236	0.283315614	2.107430184	1.451699068	1.528726346	2.337004242	0.053741555
237	-0.310680959	2.701426757	1.643601763	1.550527323	2.404134979	-0.013389182
238	0.359351642	2.031394155	1.425269854	1.528073627	2.33500901	0.055736787
239	-0.403776446	2.794522243	1.671682459	1.551309397	2.406560844	-0.015815047
240	0.428330564	1.962415234	1.400862318	1.527209801	2.332369777	0.058376021
241	-0.418675076	2.809420874	1.676132714	1.552312424	2.40967386	-0.018928063

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
242	-0.070074349	2.460820146	1.568700145	1.526156991	2.329155162	0.061590635
243	-0.027873529	2.418619327	1.55519109	1.553335649	2.412851638	-0.022105841
244	0.543635944	1.847109854	1.359084197	1.526508559	2.330228381	0.060517416
245	0.304965719	2.085780079	1.444223002	1.553350856	2.412898883	-0.022153085
246	-0.646877885	3.037623683	1.742877989	1.525136339	2.326040851	0.064704946
247	0.560397901	1.830347896	1.352903506	1.552463708	2.410143566	-0.019397769
248	0.182711835	2.208033962	1.485945478	1.526906455	2.331443322	0.059302475
249	-0.406165406	2.796911203	1.672396844	1.550854479	2.405149615	-0.014403817
250	0.360629345	2.030116452	1.424821551	1.526576151	2.330434744	0.060311054
251	-0.382203403	2.772949201	1.665217464	1.551826742	2.408166237	-0.017420439
252	0.474171888	1.916573909	1.38440381	1.525762177	2.327950222	0.062795575
253	-0.607264572	2.99801037	1.731476356	1.552726598	2.41095989	-0.020214092
254	0.129129983	2.261615814	1.503866954	1.524640373	2.324528265	0.066217532
255	0.534253621	1.856492177	1.362531532	1.554133969	2.415332393	-0.024586595
256	0.722574602	1.668171196	1.291577019	1.524476815	2.324029559	0.066716239
257	-0.691816276	3.082562074	1.755722664	1.552637189	2.41068224	-0.019936442
258	0.48757964	1.903166158	1.379552883	1.522657424	2.31848563	0.072260168
259	-0.197627769	2.588373567	1.608842306	1.554211376	2.415573001	-0.024827203
260	0.008380977	2.382364821	1.543491115	1.52154817	2.315108833	0.075636964
261	0.324150349	2.066595448	1.437565807	1.554631582	2.416879357	-0.026133559
262	-0.429945221	2.820691018	1.679491297	1.521716949	2.315622473	0.075123324
263	0.465531584	1.925214214	1.387520888	1.553738017	2.414101825	-0.023356027
264	-0.306219281	2.696965078	1.642243916	1.522921244	2.319289116	0.071456682
265	0.133445949	2.257299849	1.502431312	1.552478889	2.4101907	-0.019444903
266	-0.286324022	2.677069819	1.636175363	1.523825137	2.322043049	0.068702749
267	-0.250438932	2.64118473	1.625172215	1.552102619	2.409022539	-0.018276741
268	0.1558961	2.234849698	1.494941369	1.524669814	2.324618042	0.066127755

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
269	0.065370976	2.325374822	1.524917972	1.552647875	2.410715423	-0.019969625
270	0.518022811	1.872722986	1.368474693	1.524447976	2.323941632	0.066804166
271	-0.492448217	2.883194015	1.69799706	1.552442483	2.410077662	-0.019331865
272	-0.394212394	2.784958192	1.668819401	1.523292701	2.320420654	0.070325144
273	0.160166386	2.230579412	1.493512441	1.553512661	2.413401587	-0.02265579
274	0.558434366	1.832311432	1.353628986	1.524362674	2.323681563	0.067064234
275	-0.527357196	2.918102994	1.708245589	1.553074734	2.412041129	-0.021295332
276	0.461063409	1.929682389	1.389130084	1.523116531	2.319883967	0.07086183
277	-0.397306012	2.78805181	1.669746032	1.554199082	2.415534786	-0.024788988
278	0.343174099	2.047571698	1.430933855	1.522145683	2.31692748	0.073818318
279	-0.340250738	2.730996536	1.652572702	1.555030297	2.418119225	-0.027373427
280	0.176242685	2.214503113	1.488120665	1.521489528	2.314930384	0.075815413
281	0.297196738	2.093549059	1.446910177	1.55572698	2.420286438	-0.02954064
282	-0.380980743	2.77172654	1.664850306	1.521251196	2.3142052	0.076540598
283	0.29119898	2.099546818	1.448981303	1.554955283	2.417885931	-0.027140134
284	-0.169971765	2.560717562	1.600224223	1.522269559	2.317304611	0.073441186
285	-0.350824784	2.741570581	1.655768879	1.554209038	2.415565733	-0.024819935
286	0.380195627	2.01055017	1.417938705	1.522818499	2.31897618	0.071769618
287	0.093811216	2.296934582	1.515564113	1.554919199	2.417773714	-0.027027917
288	0.027840557	2.362905241	1.537174434	1.522085123	2.316743121	0.074002676
289	0.183310357	2.207435441	1.48574407	1.554645918	2.416923929	-0.026178132
290	-0.062487044	2.453232842	1.566279937	1.522189903	2.3170621	0.073683698
291	-0.393944655	2.784690452	1.66873918	1.554170764	2.415446764	-0.024700966
292	-0.007853924	2.398599722	1.548741335	1.522493952	2.317987833	0.072757964
293	0.397511082	1.993234716	1.411819647	1.554955428	2.417886382	-0.027140584
294	-0.214287909	2.605033706	1.614011681	1.522673717	2.318535247	0.07221055
295	-0.077056134	2.467801932	1.57092391	1.553981778	2.414859367	-0.02411357

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
296	-0.29227396	2.683019757	1.6379926	1.523295023	2.320427727	0.070318071
297	0.541189497	1.849556301	1.359983934	1.554096245	2.415215138	-0.02446934
298	-0.642864057	3.033609855	1.741726114	1.524069956	2.322789232	0.067956566
299	0.656189438	1.734556359	1.317025573	1.552793561	2.411167843	-0.020422046
300	0.148509946	2.242235852	1.497409714	1.525530642	2.327243741	0.063502057
301	-0.131074308	2.521820106	1.588023963	1.551221874	2.406289304	-0.015543506
302	-0.444588367	2.835334165	1.683845054	1.525343181	2.326671821	0.064073977
303	0.236704905	2.154040893	1.467665116	1.551465582	2.407045451	-0.016299653
304	0.035657763	2.355088035	1.534629608	1.526392796	2.329874969	0.060870829
305	0.193161511	2.197584286	1.482425137	1.550914297	2.405335157	-0.01458936
306	-0.355517453	2.74626325	1.65718534	1.526446982	2.33004039	0.060705407
307	0.414238726	1.976507071	1.405883022	1.550466683	2.403946936	-0.013201139
308	-0.480824182	2.87156998	1.694570736	1.527301428	2.332649653	0.058096144
309	0.552712312	1.838033486	1.355740936	1.549527886	2.401036671	-0.010290873
310	-0.350142546	2.740888343	1.655562848	1.528387526	2.335968429	0.054777369
311	-0.53871374	2.929459537	1.711566399	1.548277725	2.397163912	-0.006418115
312	-0.09358824	2.484334037	1.576177032	1.529207962	2.33847699	0.052268808
313	0.587264781	1.803481016	1.342937458	1.549324383	2.400406044	-0.009660247
314	-0.460092726	2.850838524	1.688442633	1.529509027	2.339397864	0.051347934
315	-0.073546229	2.464292026	1.569806366	1.548009896	2.396334638	-0.005588841
316	0.452847125	1.937898672	1.392084291	1.530521282	2.342495394	0.048250403
317	-0.521679392	2.912425189	1.706582898	1.54814784	2.396761735	-0.006015937
318	0.49795836	1.892787438	1.375786116	1.529645151	2.339814288	0.05093151
319	-0.333114538	2.723860335	1.650412171	1.549144228	2.399847839	-0.009102041
320	0.283233468	2.107512329	1.451727361	1.528677541	2.336855026	0.053890772
321	-0.07363964	2.464385438	1.569836118	1.549777115	2.401809107	-0.011063309
322	-0.473683524	2.864429322	1.692462502	1.528196631	2.335384943	0.055360854

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
323	0.499418312	1.891327485	1.375255425	1.549901698	2.402195273	-0.011449476
324	-0.439979039	2.830724837	1.682475806	1.529216856	2.338504194	0.052241604
325	0.383714889	2.007030908	1.416697183	1.548823697	2.398854845	-0.008109047
326	-0.368414572	2.759160369	1.661072054	1.530162844	2.34139833	0.049347467
327	0.292160984	2.098584814	1.448649307	1.548013152	2.396344718	-0.005598921
328	-0.23466196	2.625407758	1.620311007	1.530965922	2.343856654	0.046889143
329	0.141133419	2.249612379	1.499870787	1.547407309	2.394469381	-0.003723583
330	-0.045821705	2.436567502	1.560950833	1.531510678	2.345524957	0.045220841
331	0.280388105	2.110357693	1.452707022	1.547119226	2.393577898	-0.002832101
332	-0.422347857	2.813093655	1.677227967	1.531689093	2.346071478	0.04467432
333	0.085341968	2.30540383	1.518355634	1.546550509	2.391818478	-0.001072681
334	0.540995619	1.849750179	1.360055212	1.532565784	2.348757882	0.041987916
335	-0.606876603	2.997622401	1.731364318	1.546381687	2.391296323	-0.000550525
336	-0.07776455	2.468510347	1.571149371	1.531532844	2.345592853	0.045152945
337	0.69299477	1.697751028	1.302977754	1.547482713	2.394702748	-0.00395695
338	-0.374681255	2.765427053	1.662957321	1.531768644	2.346315178	0.04443062
339	-0.58440412	2.975149917	1.724862289	1.546036018	2.390227369	0.000518429
340	-0.287424286	2.678170084	1.636511559	1.532544865	2.348693764	0.042052033
341	0.535541846	1.855203951	1.362058718	1.54708788	2.393480907	-0.00273511
342	0.046238951	2.344506847	1.531178254	1.533156401	2.350568549	0.040177249
343	-0.320989085	2.711734883	1.646734612	1.546005897	2.390134232	0.000611565
344	-0.041589016	2.432334814	1.559594439	1.533144833	2.350533079	0.040212718
345	0.169986965	2.220758833	1.490221069	1.546591497	2.391945259	-0.001199461
346	-0.098905365	2.489651162	1.577862846	1.533298602	2.351004602	0.039741196
347	0.295153146	2.095592651	1.447616196	1.546265674	2.390937534	-0.000191737
348	-0.445035106	2.835780903	1.683977703	1.533556185	2.351794571	0.038951226
349	0.486780227	1.903965571	1.379842589	1.545698753	2.389184635	0.001561163

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
350	-0.470513237	2.861259034	1.691525653	1.53442063	2.35444667	0.036299127
351	0.27991135	2.110834447	1.452871105	1.544751053	2.386255817	0.00448998
352	0.144666677	2.246079121	1.49869247	1.535318326	2.357202362	0.033543436
353	-0.027181842	2.41792764	1.554968694	1.544229036	2.384643314	0.006102483
354	-0.196989522	2.587735319	1.608643938	1.535110235	2.356563434	0.034182363
355	0.204815447	2.185930351	1.478489212	1.544289708	2.384830704	0.005915094
356	-0.058741303	2.449487101	1.565083736	1.535525658	2.357839047	0.03290675
357	-0.129004614	2.519750411	1.587372172	1.543920062	2.383689157	0.00705664
358	-0.115597658	2.506343456	1.583143536	1.535691706	2.358349017	0.032396781
359	0.479733676	1.911012121	1.38239362	1.544162799	2.384438749	0.006307049
360	-0.594114774	2.984860571	1.727674903	1.535956787	2.359163251	0.031582547
361	0.533704392	1.857041406	1.362733065	1.543264127	2.381664165	0.009081633
362	0.453654764	1.937091034	1.391794178	1.537021833	2.362436116	0.028309682
363	-0.286428627	2.677174424	1.636207329	1.542266768	2.378586783	0.012159014
364	-0.214278624	2.605024422	1.614008805	1.536219511	2.359970386	0.030775411
365	0.050063549	2.340682249	1.529928838	1.542782899	2.380179073	0.010566724
366	-0.221434603	2.6121804	1.616224118	1.536646903	2.361283705	0.029462092
367	0.180649249	2.210096548	1.486639347	1.542712662	2.379962356	0.010783441
368	-0.057087708	2.447833505	1.56455537	1.53708173	2.362620244	0.028125553
369	0.120981103	2.269764694	1.506573826	1.54240793	2.379022224	0.011723574
370	-0.292115472	2.68286127	1.637944221	1.537231036	2.363079257	0.02766654
371	0.188150865	2.202594933	1.484114191	1.542214242	2.378424768	0.012321029
372	0.313652921	2.077092877	1.441212294	1.537775405	2.364753195	0.025992603
373	-0.212079982	2.602825779	1.613327549	1.541901891	2.377461443	0.013284355
374	-0.413763463	2.80450926	1.67466691	1.537256273	2.36315685	0.027588948
375	0.276674161	2.114071636	1.453984744	1.542283828	2.378639407	0.01210639
376	0.407905142	1.982840655	1.408133749	1.537991054	2.365416482	0.025329315

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
377	-0.551534141	2.942279939	1.715307535	1.541814175	2.37719095	0.013554848
378	0.454200493	1.936545305	1.391598112	1.537300357	2.363292387	0.02745341
379	0.384700856	2.006044942	1.41634916	1.542732085	2.380022287	0.01072351
380	0.185218656	2.205527142	1.485101728	1.536529482	2.36092285	0.029822948
381	-0.430671266	2.821417063	1.679707434	1.542066944	2.377970459	0.012775339
382	-0.569375616	2.960121413	1.720500338	1.536258823	2.36009117	0.030654627
383	-0.265156557	2.655902355	1.629693945	1.542787541	2.380193395	0.010552402
384	0.075798402	2.314947396	1.521495118	1.537223393	2.363055759	0.027690039
385	0.697588553	1.693157245	1.301213758	1.543240157	2.381590182	0.009155615
386	-0.613820603	3.0045664	1.733368513	1.537141478	2.362803924	0.027941873
387	0.441661485	1.949084313	1.396096097	1.541986192	2.377721417	0.01302438
388	-0.172894796	2.563640593	1.601137281	1.538158152	2.365930499	0.024815298
389	0.248106152	2.142639645	1.463775818	1.541234216	2.375402909	0.015342889
390	-0.340977494	2.731723292	1.652792574	1.538482771	2.366929238	0.02381656
391	-0.078437024	2.469182821	1.571363364	1.540837012	2.374178696	0.016567101
392	0.549602397	1.841143401	1.356887394	1.539068949	2.368733229	0.022012569
393	-0.601683415	2.992429213	1.729863929	1.540992751	2.374658659	0.016087138
394	0.252518581	2.138227217	1.462267833	1.538139493	2.3658731	0.024872697
395	0.470250904	1.920494893	1.385819214	1.541951445	2.377614259	0.013131539
396	-0.280655823	2.671401621	1.634442296	1.537754375	2.364688518	0.026057279
397	-0.248558196	2.639303993	1.624593485	1.541162934	2.375183188	0.015562609
398	0.051642141	2.339103656	1.529412847	1.538242676	2.366190531	0.024555267
399	0.213435869	2.177309928	1.475571052	1.541582164	2.376475569	0.014270229
400	0.257166722	2.133579076	1.460677608	1.538198307	2.366054032	0.024691766
401	-0.357879175	2.748624973	1.657897757	1.541252123	2.375458107	0.015287691
402	-0.412903239	2.803649036	1.674410056	1.537810721	2.364861813	0.025883985
403	0.578275436	1.812470362	1.346280194	1.541832424	2.377247224	0.013498573

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
404	-0.075692318	2.466438116	1.570489769	1.53849029	2.366952371	0.023793426
405	-0.080270969	2.471016766	1.571946808	1.540864386	2.374263056	0.016482742
406	-0.566303392	2.957049189	1.719607278	1.538648696	2.36743981	0.023305988
407	0.07699506	2.313750737	1.521101817	1.541017495	2.374734919	0.016010879
408	0.297087743	2.093658054	1.446947841	1.539540079	2.370183655	0.020562142
409	0.528429059	1.862316739	1.364667263	1.540919873	2.374434055	0.016311743
410	-0.653049895	3.043795692	1.744647727	1.539086215	2.368786377	0.02195942
411	0.638058057	1.752687741	1.323891136	1.540060141	2.371785237	0.018960561
412	-0.531254896	2.922000693	1.709386057	1.540088911	2.371873855	0.018871942
413	-0.110058949	2.500804747	1.581393293	1.539010821	2.368554307	0.022191491
414	-0.290721535	2.681467332	1.637518651	1.540910708	2.374405809	0.016339989
415	0.568976514	1.821769283	1.349729337	1.539215559	2.369184536	0.021561262
416	-0.612352966	3.003098763	1.732945113	1.541377393	2.375844268	0.01490153
417	0.661346846	1.729398952	1.31506614	1.538304605	2.366381058	0.02436474
418	-0.500595933	2.891341731	1.700394581	1.542298353	2.378684211	0.012061587
419	-0.596106119	2.986851916	1.728251115	1.537236523	2.363096126	0.027649671
420	0.746933669	1.643812129	1.28211237	1.543054763	2.381018003	0.009727795
421	0.394541762	1.996204036	1.412870849	1.538146078	2.365893359	0.024852439
422	-0.745075985	3.135821782	1.77082517	1.541812232	2.377184957	0.01356084
423	0.593869441	1.796876357	1.340476168	1.537552381	2.364067325	0.026678473
424	0.32103366	2.069712138	1.438649414	1.542897557	2.38053287	0.010212927
425	-0.390834622	2.781580419	1.667807069	1.536622814	2.361209673	0.029536125
426	-0.261647882	2.65239368	1.628617107	1.54240584	2.379015775	0.011730022
427	-0.118728864	2.509474661	1.584132148	1.537238678	2.363102753	0.027643045
428	0.441033972	1.949711826	1.396320818	1.542810572	2.38026446	0.010481338
429	0.028511084	2.362234714	1.536956315	1.537457797	2.363776479	0.026969319
430	-0.426047682	2.816793479	1.678330563	1.542126067	2.378152807	0.01259299

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
431	0.073886967	2.316858831	1.522123133	1.537455465	2.363769307	0.02697649
432	0.369762103	2.020983695	1.421613061	1.542759551	2.380107034	0.010638764
433	-0.297985109	2.688730906	1.639735011	1.537384485	2.363551054	0.027194743
434	-0.059249405	2.449995203	1.565246052	1.54219871	2.378376861	0.012368936
435	0.063703614	2.327042184	1.52546458	1.537856128	2.36500147	0.025744328
436	0.380356036	2.010389762	1.41788214	1.542304915	2.378704451	0.012041347
437	-0.50089816	2.891643958	1.700483448	1.537799288	2.36482665	0.025919147
438	0.188021266	2.202724531	1.484157853	1.54173419	2.376944314	0.013801484
439	0.59081683	1.799928968	1.341614314	1.53854211	2.367111823	0.023633975
440	-0.4967437	2.887489498	1.699261457	1.541471295	2.376133753	0.014612045
441	-0.527468961	2.918214758	1.708278302	1.537647017	2.36435835	0.026387448
442	0.606915701	1.783830097	1.335601025	1.542188495	2.378345355	0.012400442
443	0.184701327	2.206044471	1.48527589	1.538419075	2.366733251	0.024012546
444	-0.51839772	2.909143517	1.705621153	1.541253746	2.375463109	0.015282688
445	0.297188253	2.093557545	1.446913109	1.538179701	2.365996791	0.024749006
446	0.262156726	2.128589072	1.458968496	1.541994112	2.377745841	0.012999957
447	0.036429365	2.354316432	1.534378191	1.537770449	2.364737953	0.026007845
448	-0.380492001	2.771237799	1.664703517	1.541621813	2.376597816	0.014147982
449	0.160829255	2.229916543	1.493290508	1.537755305	2.364691379	0.026054419
450	0.253880765	2.136865032	1.461801981	1.542171265	2.378292211	0.012453587
451	-0.030953708	2.421699506	1.556181065	1.537557691	2.364083654	0.026662144
452	0.186986738	2.20375906	1.484506335	1.541814081	2.377190661	0.013555136
453	-0.275549063	2.666294861	1.632879316	1.537640092	2.364337054	0.026408743
454	-0.028852747	2.419598545	1.555505881	1.541560517	2.376408826	0.014336971
455	-0.522636776	2.913382574	1.706863373	1.538059633	2.365627436	0.025118362
456	0.615682255	1.775063543	1.332315106	1.541621948	2.376598229	0.014147568
457	-0.597497677	2.988243474	1.728653659	1.538799974	2.36790536	0.022840438

Periode Perhari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
458	0.331919401	2.058826396	1.434861107	1.540703968	2.373768718	0.01697708
459	-0.262843905	2.653589702	1.628984255	1.539629	2.370457457	0.020288341
460	0.649506145	1.741239652	1.319560401	1.540241789	2.372344768	0.01840103
461	-0.369990247	2.760736044	1.661546281	1.540017487	2.37165386	0.019091937
462	-0.848254581	3.239000379	1.799722306	1.539282339	2.369390118	0.02135568
463	0.168823985	2.221921813	1.490611221	1.540543567	2.373274482	0.017471315
464	0.905983475	1.484762323	1.218508237	1.540409745	2.372862181	0.017883616
465	-0.785086217	3.175832015	1.782086422	1.540328349	2.372611423	0.018134375
466	-0.184302833	2.57504863	1.604695806	1.539022287	2.368589599	0.022156199
467	0.098900543	2.291845255	1.513884162	1.541365901	2.375808842	0.014936956
468	0.27221032	2.118535477	1.455518972	1.539304137	2.369457227	0.02128857
469	-0.280941781	2.671687579	1.634529773	1.541248462	2.375446822	0.015298976
470	0.453037525	1.937708272	1.392015902	1.538946093	2.368355078	0.022390719
471	-0.611690696	3.002436493	1.73275402	1.54164539	2.376670509	0.014075288
472	0.738028649	1.652717149	1.285580472	1.53832088	2.36643113	0.024314668
473	-0.455728568	2.846474365	1.687149776	1.542455145	2.379167875	0.011577923
474	-0.804309612	3.195055409	1.787471793	1.537249982	2.363137508	0.027608289
475	0.633019173	1.757726625	1.325792829	1.54306565	2.381051602	0.009694196
476	0.623543828	1.76720197	1.32936149	1.538305735	2.366384534	0.024361263
477	-0.73921683	3.129962628	1.769170039	1.54215277	2.378235166	0.012510632
478	-0.163771938	2.554517735	1.598285874	1.537427847	2.363684386	0.027061412
479	0.254040933	2.136704865	1.461747196	1.543102601	2.381165639	0.009580159
480	0.686707464	1.704038334	1.305388193	1.537682475	2.364467394	0.026278404
481	0.136562872	2.254182926	1.501393661	1.542763632	2.380119623	0.010626174
482	-0.661947484	3.052693281	1.747195834	1.536714614	2.361491805	0.029253993
483	-0.282088795	2.672834593	1.634880605	1.542591978	2.37959001	0.011155788
484	0.599369333	1.791376464	1.338423126	1.537587952	2.364176709	0.026569089

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
485	-0.075566639	2.466312436	1.570449756	1.542973323	2.380766677	0.009979121
486	0.161455835	2.229289962	1.493080695	1.536764983	2.361646613	0.029099184
487	-0.508590233	2.89933603	1.702743677	1.543086391	2.381115611	0.009630186
488	0.208582319	2.182163479	1.477214771	1.536585218	2.361094132	0.029651665
489	0.493203078	1.89754272	1.377513238	1.543740704	2.38313536	0.007610437
490	-0.572112274	2.962858071	1.721295463	1.536341904	2.360346447	0.03039935
491	0.591388416	1.799357382	1.341401276	1.543062246	2.381041094	0.009704703
492	-0.230338901	2.621084699	1.618976435	1.537096793	2.362666551	0.028079247
493	-0.55125751	2.942003308	1.715226897	1.542242511	2.378511964	0.012233833
494	0.534769322	1.855976475	1.362342275	1.537429627	2.363689857	0.027055941
495	-0.244035308	2.634781106	1.623200883	1.542942831	2.38067258	0.010073217
496	0.219900283	2.170845514	1.473378945	1.536720793	2.361510795	0.029235002
497	-0.049397878	2.440143676	1.562095924	1.543266442	2.381671312	0.009074485
498	-0.538588305	2.929334103	1.711529755	1.53646539	2.360725895	0.030019902
499	0.588610478	1.80213532	1.342436337	1.54334206	2.381904716	0.008841082
500	0.261116353	2.129629444	1.459324996	1.537168438	2.362886808	0.02785899
501	-0.787643534	3.178389331	1.782803784	1.542538462	2.379424907	0.011320891
502	0.679194588	1.71155121	1.308262669	1.536857074	2.361929666	0.028816131
503	0.790539285	1.600206513	1.264992693	1.543495665	2.382378869	0.008366928
504	-0.329390712	2.720136509	1.649283635	1.535946367	2.359131242	0.031614556
505	-0.82222782	3.212973617	1.79247695	1.542390528	2.378968541	0.011777256
506	0.781659656	1.609086142	1.268497592	1.536396104	2.36051299	0.030232808
507	-0.528869099	2.919614897	1.708688063	1.543378983	2.382018684	0.008727114
508	-0.539387947	2.930133744	1.711763344	1.535337249	2.357260467	0.033485331
509	-0.259200955	2.649946753	1.627865705	1.544029787	2.384027982	0.006717816
510	0.513171272	1.877574525	1.370246155	1.536031819	2.359393749	0.031352049
511	0.879655393	1.511090404	1.229264172	1.544358545	2.385043316	0.005702481

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
512	-0.527687102	2.9184329	1.70834215	1.535381698	2.357396959	0.033348839
513	-1.166364083	3.55710988	1.886030191	1.543127744	2.381243233	0.009502565
514	0.298662329	2.092083468	1.446403633	1.536057305	2.359472045	0.031273752
515	1.390745798	1	1	1.544461956	2.385362733	0.005383064
516	0.077039821	2.313705976	1.521087104	1.535708468	2.3584005	0.032345298
517	-1.404167103	3.794912901	1.948053619	1.542351698	2.378848762	0.011897036
518	-0.832307031	3.223052828	1.79528628	1.535651798	2.358226445	0.032519353
519	0.34859909	2.042146707	1.429036986	1.543918071	2.383683009	0.007062788
520	1.064497462	1.326248335	1.151628558	1.536654219	2.36130619	0.029439608
521	-0.464632097	2.855377894	1.689786346	1.543476233	2.382318881	0.008426916
522	-0.568585064	2.959330862	1.720270578	1.535173393	2.356757347	0.033988451
523	-0.284701373	2.675447171	1.635679422	1.544036792	2.384049616	0.006696181
524	0.060797571	2.329948226	1.526416793	1.535882558	2.358935232	0.031810566
525	0.052760422	2.337985375	1.529047212	1.544386564	2.385129858	0.005615939
526	0.134892458	2.25585334	1.501949846	1.53584643	2.358824256	0.031921541
527	0.017059756	2.373686042	1.540677137	1.544328241	2.384949715	0.005796082
528	-0.254728091	2.645473888	1.626491281	1.535717549	2.358428391	0.032317407
529	0.389253611	2.001492187	1.414741032	1.544314411	2.384907001	0.005838797
530	-0.49084154	2.881587338	1.697523884	1.53606138	2.359484562	0.031261235
531	-0.102491354	2.493237151	1.578998781	1.543825468	2.383397076	0.007348721
532	-0.026037532	2.416783329	1.554600698	1.536670656	2.361356704	0.029389093
533	0.861675354	1.529070443	1.23655588	1.543957695	2.383805365	0.006940433
534	0.751438736	1.639307062	1.280354272	1.53673806	2.361563865	0.029181932
535	-0.999515586	3.390261384	1.841266245	1.542806408	2.380251613	0.010494185
536	0.880002959	1.510742838	1.229122792	1.535777847	2.358613594	0.032132203
537	-0.610183634	3.000929431	1.732319091	1.543920035	2.383689074	0.007056723
538	-0.141255463	2.532001261	1.591226339	1.534633641	2.355100413	0.035645384

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
539	0.187892572	2.202853226	1.484201208	1.544620385	2.385852133	0.004893664
540	-0.205133227	2.595879025	1.611173183	1.534844018	2.355746159	0.034999639
541	0.537154091	1.853591706	1.361466748	1.544396616	2.385160907	0.00558489
542	-0.781326238	3.172072035	1.781031172	1.535126711	2.356614019	0.034131779
543	-0.319882925	2.710628722	1.646398713	1.543721615	2.383076425	0.007669372
544	1.133161175	1.257584623	1.121420805	1.536034084	2.359400708	0.031345089
545	-0.057019015	2.447764813	1.564533417	1.544099095	2.384242015	0.006503782
546	-1.203868026	3.594613824	1.895946683	1.534509809	2.354720355	0.036025442
547	-0.490812464	2.881558261	1.69751532	1.544173944	2.38447317	0.006272628
548	0.924460581	1.466285216	1.210902645	1.535833721	2.358785218	0.03196058
549	0.581406285	1.809339512	1.345116914	1.54473357	2.386201803	0.004543995
550	0.170227898	2.2205179	1.490140228	1.53464787	2.355144086	0.035601711
551	-0.496196264	2.886942062	1.699100368	1.544007709	2.383959807	0.006785991
552	-0.294166743	2.68491254	1.638570273	1.534486029	2.354647372	0.036098426
553	-0.158006768	2.548752565	1.596481308	1.544569626	2.385695328	0.005050469
554	0.415163899	1.975581898	1.405553947	1.534863136	2.355804847	0.034940951
555	0.408812282	1.981933516	1.407811605	1.544757028	2.386274275	0.004471523
556	-0.612382825	3.003128623	1.732953728	1.534396327	2.354372089	0.036373708
557	0.470573958	1.92017184	1.385702652	1.54426443	2.38475263	0.005993167
558	0.288044956	2.102700841	1.450069254	1.535110545	2.356564386	0.034181411
559	0.550820239	1.839925559	1.356438557	1.543696122	2.382997717	0.00774808
560	-0.025436902	2.4161827	1.554407508	1.534805745	2.355628675	0.035117122
561	0.06511008	2.325635718	1.525003514	1.543027361	2.380933436	0.009812361
562	-0.725869302	3.116615099	1.765393752	1.53487575	2.355843567	0.03490223
563	0.155213075	2.235532722	1.495169797	1.54296322	2.3807355	0.010010298
564	0.402660443	1.988085354	1.409994806	1.535696079	2.358362448	0.03238335
565	0.617941412	1.772804385	1.331467005	1.542793744	2.380212537	0.01053326

Periode Perhari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
566	-0.396581848	2.787327646	1.669529169	1.53525034	2.356993608	0.03375219
567	-0.414765622	2.80551142	1.674966095	1.542047024	2.377909023	0.012836774
568	-0.053189863	2.44393566	1.563309202	1.535724813	2.358450701	0.032295096
569	-0.336791594	2.727537392	1.651525777	1.542515038	2.379352642	0.011393155
570	0.58488775	1.805858047	1.343822178	1.535821939	2.358749028	0.031996769
571	0.106911097	2.283834701	1.51123615	1.542897523	2.380532767	0.010213031
572	-0.412729612	2.803475409	1.674358208	1.535148271	2.356680213	0.034065584
573	-0.422451313	2.81319711	1.677258808	1.542786822	2.380191177	0.010554621
574	-0.186595978	2.577341776	1.605410158	1.535635008	2.358174877	0.03257092
575	0.545130906	1.845614892	1.358534097	1.543255355	2.38163709	0.009108708
576	-0.4365568	2.827302597	1.681458473	1.535878122	2.358921604	0.031824193
577	0.217356727	2.173389071	1.474241863	1.542613975	2.379657877	0.01108792
578	0.306873592	2.083872206	1.443562332	1.536383598	2.360474559	0.030271238
579	-0.314887542	2.70563334	1.64488095	1.542377399	2.378928041	0.011817757
580	-0.2246076	2.615353398	1.617205428	1.536062424	2.35948777	0.031258027
581	0.243224042	2.147521756	1.465442512	1.542730852	2.380018481	0.010727316
582	-0.011604502	2.4023503	1.549951709	1.536342221	2.360347421	0.030398376
583	0.275872973	2.114872825	1.454260233	1.542465262	2.379199084	0.011546714
584	-0.18590095	2.576646748	1.605193679	1.536388988	2.360491123	0.030254674
585	-0.293476152	2.684221949	1.63835953	1.542163196	2.378267323	0.012478474
586	0.461983329	1.928762468	1.38879893	1.536624616	2.36121521	0.029530587
587	-0.305444756	2.696190553	1.642008086	1.542491504	2.379280041	0.011465756
588	-0.22504878	2.615794578	1.617341825	1.536120102	2.359664967	0.03108083
589	-0.255591704	2.646337501	1.626756743	1.542829989	2.380324376	0.010421422
590	-0.691696129	3.082441927	1.755688448	1.536396361	2.360513777	0.030232021
591	0.949221224	1.441524573	1.200635071	1.543114481	2.381202301	0.009543497
592	0.801647966	1.589097831	1.260594237	1.537139708	2.362798483	0.027947315

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
593	0.437842619	1.952903179	1.397463123	1.541957479	2.377632868	0.01311293
594	-0.945060223	3.33580602	1.826418906	1.536205452	2.359927191	0.030818607
595	-0.58794777	2.978693567	1.725889211	1.541470976	2.37613277	0.014613028
596	-0.905032732	3.295778529	1.815427919	1.537182582	2.362930291	0.027815507
597	-0.445338687	2.836084485	1.684067839	1.542089817	2.378041003	0.012704794
598	0.486859203	1.903886595	1.379813971	1.538116273	2.365801669	0.024944129
599	0.778554163	1.612191635	1.269721085	1.54256465	2.379505701	0.011240097
600	-0.683025082	3.073770879	1.753217294	1.537586844	2.364173303	0.026572495
601	0.551090122	1.839655676	1.356339071	1.541655189	2.376700723	0.014045074
602	-0.443845821	2.834591618	1.683624548	1.538305598	2.366384114	0.024361684
603	-0.193950471	2.584696269	1.60769906	1.541039533	2.374802843	0.015942955
604	0.546564974	1.844180824	1.358006194	1.538788376	2.367869667	0.022876131
605	-0.55043937	2.941185168	1.714988387	1.541260256	2.375483176	0.015262621
606	0.222053229	2.168692568	1.472648148	1.538189771	2.366027772	0.024718026
607	0.169542873	2.221202924	1.490370063	1.541833605	2.377250866	0.013494931
608	0.3587268	2.032018998	1.425489038	1.537973466	2.365362382	0.025383415
609	-0.080060159	2.470805957	1.571879753	1.54166432	2.376728877	0.014016921
610	0.057830113	2.332915684	1.527388518	1.537603458	2.364224395	0.026521402
611	-0.55792221	2.948668008	1.717168602	1.541763386	2.377034337	0.01371146
612	0.684367711	1.706378087	1.306284076	1.537569967	2.364121405	0.026624393
613	-0.798343944	3.189089742	1.785802268	1.542336595	2.378802172	0.011943626
614	0.280586419	2.110159379	1.452638764	1.536814145	2.361797716	0.028948082
615	0.903126597	1.4876192	1.219679958	1.543129628	2.38124905	0.009496748
616	-0.873220179	3.263965976	1.80664495	1.536539963	2.360955058	0.02979074
617	0.779986068	1.610759729	1.269157094	1.542079486	2.37800914	0.012736657
618	-0.662227147	3.052972944	1.747275864	1.537416912	2.36365076	0.027095037
619	0.38371792	2.007027878	1.416696113	1.541196257	2.375285903	0.015459894

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
620	-0.110418649	2.501164447	1.581507018	1.538096055	2.365739474	0.025006324
621	0.210822091	2.179923707	1.47645647	1.540794651	2.374048156	0.016697641
622	0.429102158	1.96164364	1.400586891	1.538236088	2.366170262	0.024575536
623	-0.491111675	2.881857472	1.69760345	1.540587779	2.373410705	0.017335092
624	-0.159423316	2.550169114	1.596924893	1.537793493	2.364808828	0.025936969
625	-0.007951342	2.398697139	1.548772785	1.541091026	2.374961551	0.015784247
626	-0.119232989	2.509978787	1.584291257	1.537983014	2.365391751	0.025354046
627	-0.027155155	2.417900952	1.554960113	1.541115568	2.375037194	0.015708604
628	0.135106399	2.255639399	1.501878623	1.538130961	2.365846854	0.024898944
629	0.523976126	1.866769671	1.366297797	1.541159658	2.375173092	0.015572706
630	-0.38210676	2.772852557	1.665188445	1.53801551	2.365491708	0.025254089
631	0.170402223	2.220343574	1.490081734	1.54060455	2.37346238	0.017283417
632	-0.472252671	2.862998469	1.692039736	1.538419227	2.366733717	0.02401208
633	0.070083316	2.320662482	1.523372076	1.54044467	2.372969783	0.017776015
634	0.473833688	1.91691211	1.384525951	1.53890536	2.368229706	0.022516091
635	-0.503023581	2.893769378	1.701108279	1.540390815	2.372803862	0.017941936
636	0.521751174	1.868994624	1.367111782	1.538418366	2.366731069	0.024014728
637	-0.376968618	2.767714415	1.663644919	1.540896207	2.374361122	0.016384675
638	-0.460880398	2.851626196	1.688675871	1.537879675	2.365073894	0.025671904
639	0.811996035	1.578749763	1.256483093	1.541280994	2.375547101	0.015198696
640	-0.872760756	3.263506553	1.806517798	1.538352383	2.366528053	0.024217744
641	-0.152851818	2.543597616	1.594866018	1.540391014	2.372804476	0.017941322
642	0.727739796	1.663006001	1.2895759	1.539190387	2.369107047	0.021638751
643	0.626954925	1.763790872	1.328077886	1.540560715	2.373327318	0.01741848
644	-0.327429545	2.718175342	1.648688977	1.538412783	2.366713892	0.024031906
645	-0.203683512	2.594429309	1.610723225	1.539900841	2.371294599	0.019451199
646	-0.01822791	2.408973708	1.552086888	1.538755251	2.367767722	0.022978075

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
647	-0.324988768	2.715734566	1.647948593	1.540120102	2.371969928	0.01877587
648	-0.051422939	2.442168736	1.562743977	1.538796525	2.367894744	0.022851053
649	0.196114646	2.194631152	1.481428753	1.540452901	2.37299514	0.017750658
650	0.300361834	2.090383963	1.44581602	1.538870435	2.368122217	0.02262358
651	-0.414190333	2.80493613	1.674794355	1.540271291	2.372435649	0.018310148
652	0.042548163	2.348197635	1.532382992	1.538584118	2.367241089	0.023504708
653	0.41247326	1.978272537	1.406510767	1.540683932	2.373706979	0.017038818
654	-0.196394731	2.587140529	1.608459054	1.538565097	2.367182557	0.023563241
655	-0.413210461	2.803956259	1.674501794	1.540273623	2.372442832	0.018302965
656	-0.070507582	2.46125338	1.568838226	1.538778837	2.367840308	0.022905489
657	-0.041692388	2.432438185	1.559627579	1.540682849	2.373703642	0.017042156
658	0.825444532	1.565301266	1.251120005	1.53887048	2.368122354	0.022623444
659	-0.478888673	2.86963447	1.693999549	1.540740431	2.373881076	0.016864721
660	-1.021433958	3.412179756	1.847208639	1.53799587	2.365431297	0.025314501
661	0.597723578	1.79302222	1.339037796	1.541204846	2.375312379	0.015433419
662	1.027175922	1.363569875	1.167719947	1.538932866	2.368314367	0.022431431
663	0.575112388	1.81563341	1.347454418	1.540594078	2.373430113	0.017315685
664	0.11541401	2.275331788	1.508420296	1.537811392	2.364863876	0.025881921
665	-0.803516971	3.194262769	1.787250058	1.54001234	2.371638006	0.019107792
666	-0.454718332	2.845464129	1.686850358	1.537722865	2.364591611	0.026154187
667	0.220310773	2.170435024	1.473239636	1.540754786	2.373925309	0.016820488
668	-0.52134327	2.912089068	1.706484418	1.53817069	2.365969072	0.024776726
669	0.595490542	1.795255256	1.339871358	1.540552647	2.373302458	0.017443339
670	-0.082747485	2.473493282	1.572734333	1.538674617	2.367519577	0.02322622
671	-0.014544009	2.405289806	1.550899676	1.539953606	2.371457108	0.019288689
672	0.337417166	2.053328632	1.432944044	1.538776287	2.36783246	0.022913337
673	0.606469434	1.784276363	1.33576808	1.539986183	2.371557444	0.019188354

Periode Perhari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
674	0.144305419	2.246440379	1.49881299	1.538461313	2.366863213	0.023882584
675	-0.76813478	3.158880577	1.777323993	1.539380202	2.369691406	0.021054392
676	0.350984517	2.03976128	1.428202115	1.538343664	2.366501229	0.024244569
677	0.780394293	1.610351505	1.268996259	1.540084169	2.371859248	0.018886549
678	-0.821918083	3.21266388	1.792390549	1.538017805	2.36549877	0.025247028
679	-0.215317844	2.606063642	1.61433071	1.539284509	2.3693968	0.021348997
680	0.81679346	1.573952338	1.254572572	1.538768159	2.367807446	0.022938351
681	0.492518721	1.898227077	1.377761618	1.539505231	2.370076355	0.020669442
682	-0.931308773	3.32205457	1.822650425	1.537932299	2.365235756	0.025510042
683	0.82262291	1.568122887	1.252247135	1.539030915	2.368616156	0.022129641
684	0.802370623	1.588375175	1.260307571	1.53876724	2.367804619	0.022941179
685	0.022014154	2.368731644		- 0.465642013		-0.465642013
686	-0.954652383	3.34539818		- 0.454178296		-0.454178296
687	-0.627731566	3.018477363		- 0.059800002		-0.059800002
688	0.327377076	2.063368721		0.525524871		0.525524871
689	-0.278439609	2.669185406		0.369661755		0.369661755
690	0.947300636	1.443445162		- 0.143121485		-0.143121485
691	0.202895009	2.187850789		0.203775849		0.203775849
692	-0.407871345	2.798617143		- 0.581300872		-0.581300872
693	-0.838091753	3.228837551		- 0.100950463		-0.100950463
694	0.191735973	2.199009825		0.185689407		0.185689407
695	0.615298323	1.775447475		0.491421163		0.491421163
696	-0.233454387	2.624200185		- 0.096089432		-0.096089432
697	-0.386657983	2.777403781		0.318856539		-0.318856539
698	0.168296856	2.222448942		0.130058596		0.130058596
699	0.272413655	2.118332143		0.199362651		0.199362651
700	-0.031590359	2.422336156		- 0.087651467		-0.087651467

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
701	-0.375737774	2.766483572		- 0.142997964		-0.142997964
702	0.481865539	1.908880258		0.01009894		0.01009894
703	-0.619726603	3.010472401		0.210496396		0.210496396
704	0.781568544	1.609177254		- 0.287362334		-0.287362334
705	-0.369600941	2.760346738		0.392030482		0.392030482
706	-0.994045388	3.384791186		- 0.496609283		-0.496609283
707	-0.527023642	2.91776944		0.260579689		0.260579689
708	0.590188371	1.800557426		0.545000048		0.545000048
709	1.106546555	1.284199243		0.341583537		0.341583537
710	-0.947824028	3.338569825		- 0.298446016		-0.298446016
711	-0.862900744	3.253646542		- 0.627903349		-0.627903349
712	0.908011655	1.482734142		0.537248504		0.537248504
713	-0.778641229	3.169387026		0.453323777		0.453323777
714	-0.006348412	2.39709421		- 0.489429198		-0.489429198
715	0.51463061	1.876115187		0.511532056		0.511532056
716	-0.236544808	2.627290606		- 0.045375176		-0.045375176
717	-0.084713324	2.475459121		- 0.256590388		-0.256590388
718	-0.11731469	2.508060487		0.137003503		0.137003503
719	0.145542603	2.245203195		0.024917074		0.024917074
720	0.17478175	2.215964047		0.083973249		0.083973249
721	-0.589474094	2.980219891		- 0.084597857		-0.084597857
722	0.57241171	1.818334088		- 0.096162749		-0.096162749
723	0.664132919	1.726612878		0.344276562		0.344276562
724	0.777416006	1.613329791		- 0.352226985		-0.352226985
725	-0.96733106	3.358076857		- 0.362866133		-0.362866133
726	-1.045507095	3.436252893		- 0.500641307		-0.500641307
727	1.057931472	1.332814326		0.542450187		0.542450187

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
728	0.85611019	1.534635607		0.575392686		0.575392686
729	0.077755146	2.312990652		- 0.578627506		-0.578627506
730	-0.670387201	3.061132998		- 0.454535811		-0.454535811
731	-0.735213578	3.125959376		- 0.104669775		-0.104669775
732	0.652518599	1.738227199		0.355530984		0.355530984
733	0.307593892	2.083151905		0.429479053		0.429479053
734	-0.523878176	2.914623974		- 0.354784667		-0.354784667
735	0.198549068	2.192196729		- 0.140931415		-0.140931415
736	-0.228606355	2.619352152		0.27787357		0.27787357
737	0.437883321	1.952862477		- 0.132983383		-0.132983383
738	0.325077407	2.06566839		0.164730447		0.164730447
739	0.149991727	2.240754071		- 0.275416675		-0.275416675
740	-0.692354889	3.083100687		- 0.177994689		-0.177994689
741	0.283975606	2.106770192		- 0.117435925		-0.117435925
742	0.605045297	1.785700501		0.396462686		0.396462686
743	-0.113974796	2.504720594		- 0.181747042		-0.181747042
744	-0.289098706	2.679844504		- 0.322261286		-0.322261286
745	-0.104639188	2.495384986		0.049948619		0.049948619
746	-0.229719579	2.620465376		0.140635291		0.140635291
747	0.265252469	2.125493329		0.067640805		0.067640805
748	-0.098148948	2.488894745		0.151607919		0.151607919
749	-0.614738026	3.005483823		-0.15194678		-0.15194678
750	-0.040911921	2.431657719		0.073970679		0.073970679
751	1.061086418	1.329659379		0.35262925		0.35262925
752	-0.218420564	2.609166362		0.031916187		0.031916187
753	-1.209470642	3.60021644		- 0.599587502		-0.599587502
754	-0.866968695	3.257714493		0.133922576		0.133922576

Periode Per-hari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
755	1.173064871	1.217680927		0.663576801		0.663576801
756	0.162369274	2.228376524		0.532301254		0.532301254
757	-0.545809968	2.936555766		- 0.635360222		-0.635360222
758	-0.712234397	3.102980194		- 0.043689503		-0.043689503
759	0.566594652	1.824151146		0.262808577		0.262808577
760	0.462889554	1.927856244		0.421853817		0.421853817
761	0.421853817					0.008339413
762	0.008339413					-0.050164664
763	-0.050164664					-0.080523075
764	-0.080523075					-0.00159182
765	-0.00159182					-0.027359622
766	-0.027359622					-0.043916987
767	-0.043916987					-0.000868173
768	-0.000868173					-0.014921837
769	-0.014921837					-0.023952162
770	-0.023952162					-0.000473498
771	-0.000473498					-0.008138315
772	-0.008138315					-0.01306342
773	-0.01306342					-0.000258244
774	-0.000258244					-0.004438607
775	-0.004438607					-0.007124741
776	-0.007124741					-0.000140845
777	-0.000140845					-0.0024208
778	-0.0024208					-0.003885807
779	-0.003885807					-0.000076816
780	-0.000076816					-0.001320295
781	-0.001320295					-0.002119305

Periode Perhari	IMF1	IMF 1 Reverse	IMF 1 Transformasi Box Cox	IMF 1 Peramalan	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
782	-0.002119305					-0.00004190
783	-0.00004190					-0.00072008
784	-0.00072008					-0.001155861
785	-0.001155861					-0.0000228521
786	-0.0000228521					-0.0003927290
787	-0.0003927290					-0.000630402
788	-0.000630402					-0.000012463
789	-0.000012463					-0.000214193
790	-0.000214193					-0.000343819
791	-0.000343819					-0.000008398

LAMPIRAN E SELURUH PROSES IMF 2

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
1	-0.664137187	2.989973499	*	
2	-0.414952867	2.740789179	2.970249889	-0.644413576
3	-0.043680231	2.369516543	2.589749084	-0.263912771
4	0.35566149	1.970174823	2.191718456	0.134117857
5	0.641510099	1.684326213	1.778618306	0.547218006
6	0.495170001	1.830666311	1.587051132	0.738785181
7	-0.135242536	2.461078849	2.008326644	0.317509669
8	-0.407127153	2.732963465	2.813922632	-0.488086319
9	-0.141928042	2.467764355	2.626688269	-0.300851956
10	-0.09469469	2.420531003	2.295301482	0.030534831
11	-0.206558368	2.53239468	2.500144774	-0.174308462
12	-0.096869395	2.422705707	2.527991418	-0.202155106
13	0.290398241	2.035438072	2.295478415	0.030357898
14	0.402462744	1.923373569	1.771852779	0.553983534
15	0.071438331	2.254397982	2.036651206	0.289185107
16	-0.283779933	2.609616246	2.424724018	-0.098887706
17	-0.388876487	2.714712799	2.745665979	-0.419829667
18	-0.320760071	2.646596384	2.650308662	-0.32447235
19	-0.174714643	2.500550956	2.608268469	-0.282432157
20	0.010216243	2.31562007	2.367526577	-0.041690264
21	0.127777224	2.198059089	2.236788252	0.089048061
22	0.084111072	2.241725241	2.132982433	0.192853879
23	-0.038099807	2.363936119	2.313684741	0.012151571
24	-0.205544457	2.53138077	2.379741339	-0.053905026
25	-0.255838558	2.58167487	2.63988988	-0.314053567

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
26	0.101479027	2.224357286	2.493125561	-0.167289248
27	0.634587062	1.69124925	1.943129099	0.382707214
28	0.820924974	1.504911339	1.432707279	0.893129034
29	0.526128231	1.799708081	1.552839916	0.772996397
30	0.068059984	2.257776328	2.007808316	0.318027997
31	-0.347051204	2.672887516	2.462864846	-0.137028533
32	-0.729263096	3.055099408	2.83506036	-0.509224047
33	-0.875558032	3.201394344	3.221728049	-0.895891737
34	-0.506233738	2.83207005	3.140068171	-0.814231859
35	0.263316732	2.062519581	2.504945795	-0.179109482
36	0.592066854	1.733769459	1.618946678	0.706889635
37	0.410171646	1.915664666	1.819005055	0.506831258
38	0.213406171	2.112430142	1.981423415	0.344412897
39	0.228418349	2.097417964	2.207957779	0.117878534
40	0.234380916	2.091455397	1.965654258	0.360182055
41	0.075864102	2.249972211	2.182393904	0.143442408
42	-0.128316192	2.454152504	2.283982114	0.041854198
43	-0.206988685	2.532824998	2.582145949	-0.256309637
44	-0.156792237	2.48262855	2.452960272	-0.127123959
45	-0.089228611	2.415064923	2.477863445	-0.152027133
46	-0.054717762	2.380554075	2.324041819	0.001794494
47	0.011313861	2.314522452	2.402441242	-0.076604929
48	0.155373356	2.170462957	2.201137431	0.124698882
49	0.264862138	2.060974175	2.112935853	0.212900459
50	0.214274565	2.111561748	1.984820657	0.341015655
51	0.049624139	2.276212174	2.203216352	0.12261996
52	-0.130981312	2.456817624	2.315029222	0.01080709

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
53	-0.339784517	2.665620829	2.55811739	-0.232281078
54	-0.589672123	2.915508436	2.731845819	-0.406009507
55	-0.574711293	2.900547605	3.050253096	-0.724416783
56	-0.013441782	2.339278095	2.72115173	-0.395315418
57	0.75714039	1.568695923	1.948355091	0.377481221
58	0.993730143	1.33210617	1.190011724	1.135824588
59	0.230294185	2.095542128	1.44853928	0.877297033
60	-0.680667353	3.006503666	2.678041275	-0.352204962
61	-0.966298353	3.292134666	3.276616054	-0.950779741
62	-0.625396537	2.95123285	3.263372815	-0.937536502
63	-0.002836247	2.328672559	2.617972241	-0.292135928
64	0.637473415	1.688362898	2.025154907	0.300681406
65	0.801931897	1.523904416	1.348495722	0.97734059
66	0.310092242	2.015744071	1.669236955	0.656599358
67	0.049556544	2.276279769	2.315951001	0.009885311
68	0.351228083	1.97460823	2.208861617	0.116974696
69	0.42923332	1.896602992	1.727661119	0.598175194
70	0.017087733	2.30874858	2.030927774	0.294908539
71	-0.50693782	2.832774133	2.540323013	-0.2144867
72	-0.812090588	3.1379269	3.071239599	-0.745403286
73	-0.76713384	3.092970152	3.159455453	-0.83361914
74	-0.422599468	2.74843578	2.98949751	-0.663661198
75	0.073183247	2.252653065	2.484862511	-0.159026198
76	0.527951405	1.797884908	2.003963124	0.321873188
77	0.78337631	1.542460003	1.579833492	0.746002821
78	0.830834339	1.495001974	1.486880662	0.83895565
79	0.675628811	1.650207502	1.482954388	0.842881924

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
80	0.26845104	2.057385273	1.786191763	0.53964455
81	-0.238753707	2.56459002	2.286029064	0.039807249
82	-0.607276834	2.933113147	2.79349652	-0.467660208
83	-0.627291369	2.953127682	3.026122811	-0.700286498
84	-0.350444631	2.676280943	2.845357907	-0.519521595
85	0.136761661	2.189074652	2.481544879	-0.155708566
86	0.509259445	1.816576868	1.884387436	0.441448877
87	0.35422975	1.971606563	1.72867833	0.597157982
88	-0.194793639	2.520629952	2.174725317	0.151110996
89	-0.509688184	2.835524497	2.813629844	-0.487793531
90	-0.254072378	2.579908691	2.818796282	-0.492959969
91	0.234837516	2.090998796	2.320603255	0.005233058
92	0.533963269	1.791873044	1.84689302	0.478943293
93	0.357036234	1.968800079	1.716362939	0.609473373
94	-0.114207559	2.440043872	2.180924333	0.14491198
95	-0.470231774	2.796068086	2.652258602	-0.32642229
96	-0.462870986	2.788707298	2.894839449	-0.569003137
97	-0.143329105	2.469165417	2.651852524	-0.326016212
98	0.249714065	2.076122248	2.264322778	0.061513535
99	0.410223858	1.915612455	1.871260812	0.4545755
100	0.308090622	2.017745691	1.932189872	0.39364644
101	0.125283998	2.200552314	2.07183703	0.253999282
102	0.030914871	2.294921442	2.292938224	0.032898089
103	0.048026573	2.27780974	2.266540657	0.059295655
104	0.048361053	2.27747526	2.258412147	0.067424166
105	-0.097894286	2.423730598	2.265432735	0.060403578
106	-0.371684709	2.697521021	2.541074402	-0.215238089

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
107	-0.489423417	2.81525973	2.80950985	-0.483673538
108	-0.128082373	2.453918686	2.783572345	-0.457736033
109	0.465449069	1.860387244	2.110670616	0.215165697
110	0.605451925	1.720384388	1.599818211	0.726018101
111	0.164215093	2.16162122	1.811414304	0.514422008
112	-0.448685406	2.774521718	2.463412294	-0.137575981
113	-0.681113286	3.006949599	3.031360273	-0.70552396
114	-0.31274462	2.638580933	2.94429055	-0.618454237
115	0.335265654	1.990570658	2.31548059	0.010355723
116	0.717523372	1.608312941	1.657904156	0.667932157
117	0.515142029	1.810694284	1.540342303	0.78549401
118	-0.098203046	2.424039358	2.041798917	0.284037396
119	-0.654647793	2.980484106	2.75258262	-0.426746308
120	-0.548827238	2.874663551	3.156133143	-0.830296831
121	0.215311749	2.110524564	2.571312302	-0.24547599
122	0.697642099	1.628194214	1.648128509	0.677707803
123	0.319191278	2.006645035	1.58793137	0.737904943
124	-0.434641799	2.760478111	2.375088747	-0.049252434
125	-0.850519743	3.176356056	3.087556324	-0.761720012
126	-0.551170915	2.877007228	3.21823429	-0.892397977
127	0.124180402	2.201655911	2.51726694	-0.191430627
128	0.719707693	1.60612862	1.874976815	0.450859498
129	0.782852067	1.542984245	1.331402345	0.994433968
130	0.146859574	2.178976739	1.722190891	0.603645422
131	-0.601091289	2.926927602	2.58105525	-0.255218938
132	-0.623618166	2.949454479	3.214542658	-0.888706345
133	-0.115350583	2.441186895	2.66056688	-0.334730568

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
134	0.376043775	1.949792538	2.202107233	0.123729079
135	0.405167564	1.920668749	1.686129133	0.63970718
136	0.141563744	2.184272568	2.116548592	0.209287721
137	-0.108889371	2.434725683	2.219351397	0.106484915
138	-0.147033678	2.47286999	2.605754234	-0.279917922
139	-0.104725536	2.430561849	2.314948071	0.010888241
140	-0.190274243	2.516110556	2.507559707	-0.181723395
141	-0.249705875	2.575542187	2.491008131	-0.165171818
142	0.102489952	2.223346361	2.621317211	-0.295480898
143	0.486275706	1.839560607	1.818706596	0.507129717
144	0.22716015	2.098676162	1.834979616	0.490856696
145	-0.268327664	2.594163976	2.319707874	0.006128439
146	-0.511399251	2.837235563	2.818811763	-0.49297545
147	-0.276959298	2.602795611	2.817211458	-0.491375146
148	0.141858282	2.183978031	2.366267402	-0.04043109
149	0.248049862	2.07778645	1.983269535	0.342566778
150	0.044284271	2.281552042	2.139537767	0.186298546
151	-0.198768069	2.524604381	2.38541281	-0.059576498
152	-0.120495212	2.446331525	2.62259915	-0.296762838
153	0.312825256	2.013011057	2.247843934	0.077992378
154	0.561716929	1.764119384	1.76500167	0.560834642
155	0.309964764	2.015871548	1.740033027	0.585803286
156	-0.209154312	2.534990625	2.249446047	0.076390266
157	-0.588454558	2.91429087	2.770876125	-0.445039812
158	-0.404070164	2.729906476	3.011131809	-0.685295496
159	0.157098412	2.1687379	2.428693725	-0.102857412
160	0.552073003	1.773763309	1.894981939	0.430854373

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
161	0.421570883	1.904265429	1.63605888	0.689777433
162	0.004424568	2.321411745	2.132113274	0.193723038
163	-0.288591375	2.614427688	2.4693415	-0.143505188
164	-0.275947366	2.601783679	2.716797723	-0.39096141
165	-0.119961669	2.445797982	2.459016089	-0.133179776
166	0.037922635	2.287913678	2.401091787	-0.075255474
167	0.12454076	2.201295552	2.151014955	0.174821358
168	0.067180575	2.258655738	2.219698886	0.106137427
169	-0.132980388	2.458816701	2.265623372	0.060212941
170	-0.125680366	2.451516679	2.60860851	-0.282772197
171	0.159604844	2.166231468	2.271045707	0.054790605
172	0.177450977	2.148385335	2.038824822	0.28701149
173	-0.085756993	2.411593306	2.223393867	0.102442446
174	-0.120700589	2.446536902	2.557297793	-0.231461481
175	-0.032396342	2.358232655	2.309826953	0.01600936
176	-0.0472987	2.373135013	2.372799034	-0.046962721
177	-0.065143875	2.390980187	2.3421697	-0.016333387
178	0.111290642	2.21454567	2.405496654	-0.079660341
179	0.241244596	2.084591717	2.005265345	0.320570968
180	0.08442765	2.241408663	2.131926906	0.193909406
181	-0.24094707	2.566783383	2.315116704	0.010719609
182	-0.30285183	2.628688142	2.770299061	-0.444462748
183	-0.103517001	2.429353314	2.460482006	-0.134645693
184	0.173341994	2.152494319	2.367972156	-0.042135844
185	0.323703896	2.002132417	1.920900311	0.404936002
186	0.278655577	2.047180736	2.052351893	0.27348442
187	0.044065933	2.28177038	2.015318226	0.310518087

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
188	-0.243446558	2.569282871	2.502987436	-0.177151123
189	-0.375979728	2.701816041	2.597939296	-0.272102983
190	-0.274042233	2.599878545	2.764168919	-0.438332606
191	-0.152257077	2.47809339	2.410662849	-0.084826537
192	-0.048194518	2.37403083	2.509022391	-0.183186078
193	0.171406033	2.15443028	2.215424347	0.110411966
194	0.424136775	1.901699537	2.068506633	0.257329679
195	0.471161169	1.854675144	1.719313536	0.606522777
196	0.13282734	2.193008973	1.95788869	0.367947623
197	-0.388764566	2.714600879	2.385846523	-0.06001021
198	-0.603498	2.929334313	2.988870561	-0.663034248
199	-0.327188212	2.653024525	2.834570931	-0.508734618
200	0.123670312	2.202166001	2.446833855	-0.120997542
201	0.459206272	1.866630041	1.942387703	0.383448609
202	0.597312879	1.728523434	1.770576357	0.555259956
203	0.547146476	1.778689837	1.666077672	0.659758641
204	0.311595733	2.01424058	1.861449676	0.464386637
205	-0.033970475	2.359806787	2.131788587	0.194047725
206	-0.311910586	2.637746899	2.543747565	-0.217911252
207	-0.541630849	2.867467162	2.691628793	-0.36579248
208	-0.5985438	2.924380113	2.995504511	-0.669668198
209	-0.250253895	2.576090207	2.818753084	-0.492916771
210	0.307795186	2.018041127	2.313273841	0.012562472
211	0.7203206	1.605515712	1.713001474	0.612834839
212	0.682284179	1.643552134	1.482980755	0.842855558
213	0.157177791	2.168658522	1.77332436	0.552511953
214	-0.526435348	2.852271661	2.512917084	-0.187080771

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
215	-0.852766836	3.178603149	3.134723817	-0.808887504
216	-0.47251391	2.798350223	3.178086688	-0.852250375
217	0.308997203	2.01683911	2.403327983	-0.077491671
218	0.889485261	1.436351052	1.625750296	0.700086016
219	0.739945477	1.585890836	1.238792196	1.087044117
220	0.118953809	2.206882504	1.892339702	0.43349661
221	-0.503040732	2.828877044	2.474441703	-0.14860539
222	-0.886112102	3.211948415	3.125860471	-0.800024159
223	-0.928810084	3.254646396	3.250799955	-0.924963643
224	-0.580580887	2.906417199	3.215371949	-0.889535636
225	0.116390947	2.209445366	2.576725705	-0.250889392
226	0.875140936	1.450695376	1.833933503	0.49190281
227	1.103112839	1.222723474	1.07013518	1.255701133
228	0.779423249	1.546413064	1.350514014	0.975322298
229	0.20369641	2.122139903	1.710783795	0.615052518
230	-0.362427814	2.688264127	2.482122193	-0.15628588
231	-0.779013801	3.104850114	2.847243424	-0.521407111
232	-0.967512884	3.293349197	3.306875217	-0.981038904
233	-0.768890519	3.094726832	3.237180358	-0.911344045
234	-0.125993023	2.451829335	2.919582793	-0.59374648
235	0.554102116	1.771734197	1.978364763	0.347471549
236	0.774216798	1.551619514	1.553503281	0.772333032
237	0.523652876	1.802183437	1.529389777	0.796446536
238	0.102708447	2.223127865	2.035703075	0.290133237
239	-0.224807368	2.550643681	2.370586084	-0.044749771
240	-0.366104417	2.691940729	2.686836547	-0.361000234
241	-0.375671315	2.701507628	2.661269947	-0.335433635

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
242	-0.228734406	2.554570719	2.703845647	-0.378009334
243	0.024026807	2.301809505	2.380113545	-0.054277232
244	0.113115594	2.212720718	2.19761785	0.128218462
245	0.001859935	2.323976378	2.197796821	0.128039492
246	-0.051508291	2.377344603	2.412343965	-0.086507653
247	0.108062542	2.217773771	2.312998529	0.012837784
248	0.180024055	2.145812258	2.098731683	0.227104629
249	0.076444017	2.249392296	2.161928972	0.16390734
250	-0.091757688	2.417594001	2.302229195	0.023607118
251	-0.16854267	2.494378983	2.494527992	-0.168691679
252	-0.225667872	2.551504185	2.461358058	-0.135521745
253	-0.045775817	2.371612129	2.602888898	-0.277052586
254	0.324849724	2.000986589	2.122229554	0.203606758
255	0.497900663	1.827935649	1.860263997	0.465572316
256	0.119149807	2.206686505	1.773350843	0.552485469
257	-0.509490339	2.835326652	2.586283555	-0.260447242
258	-0.582573243	2.908409555	3.032828109	-0.706991796
259	-0.214973965	2.540810278	2.752730557	-0.426894244
260	-0.058660972	2.384497284	2.307452753	0.018383559
261	0.001607981	2.324228332	2.425727143	-0.099890831
262	0.348395942	1.977440371	2.197865832	0.127970481
263	0.756635882	1.56920043	1.743487713	0.5823486
264	0.538717475	1.787118838	1.384142692	0.941693621
265	-0.134315256	2.460151568	2.143614044	0.182222269
266	-0.636685549	2.962521862	2.726253479	-0.400417166
267	-0.689025421	3.014861734	3.14629864	-0.820462328
268	-0.358664719	2.684501031	2.851160395	-0.525324082

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
269	0.060652616	2.265183697	2.491935629	-0.166099317
270	0.285432649	2.040403663	2.021471479	0.304364834
271	0.370590657	1.955245656	2.031362698	0.294473614
272	0.472493182	1.853343131	1.857684924	0.468151389
273	0.552072387	1.773763926	1.824817933	0.501018379
274	0.405992589	1.919843724	1.702232759	0.623603553
275	-0.022592323	2.348428636	2.09976879	0.226067522
276	-0.451735999	2.777572311	2.551986833	-0.22615052
277	-0.596236868	2.92207318	2.953711854	-0.627875542
278	-0.35390694	2.679743252	2.853716119	-0.527879806
279	0.187932694	2.137903618	2.480343096	-0.154506784
280	0.590544519	1.735291793	1.78676258	0.539073733
281	0.519314836	1.806521477	1.663874689	0.661961624
282	0.010507731	2.315328582	1.917240533	0.40859578
283	-0.489502913	2.815339226	2.660251	-0.334414688
284	-0.546621631	2.872457944	2.924493953	-0.59865764
285	-0.185415629	2.511251941	2.785517878	-0.459681565
286	0.309311729	2.016524584	2.219484956	0.106351357
287	0.535700882	1.790135431	1.798528304	0.527308009
288	0.343078536	1.982757777	1.758622793	0.56721352
289	-0.099589859	2.425426172	2.16800642	0.157829893
290	-0.466717103	2.792553416	2.636230998	-0.310394685
291	-0.482640987	2.8084773	2.903172486	-0.577336173
292	-0.083462327	2.40929864	2.682148126	-0.356311814
293	0.349366366	1.976469947	2.120211457	0.205624856
294	0.433200825	1.892635488	1.814851826	0.510984487
295	0.256636522	2.069199791	1.941046054	0.384790259

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
296	0.006132801	2.319703512	2.162787669	0.163048644
297	-0.3918834	2.717719713	2.43711526	-0.111278948
298	-0.418775268	2.74461158	2.946537412	-0.620701099
299	0.101711375	2.224124937	2.517993497	-0.192157185
300	0.375585135	1.950251178	1.917655284	0.408181029
301	0.226144486	2.099691826	1.955285026	0.370551287
302	0.028386215	2.297450098	2.208206264	0.117630049
303	-0.068177718	2.394014031	2.351332734	-0.025496421
304	-0.14045948	2.466295792	2.402709977	-0.076873665
305	-0.276766659	2.602602972	2.49375429	-0.167917978
306	-0.208525634	2.534361946	2.670952761	-0.345116448
307	0.175136536	2.150699777	2.372133731	-0.046297418
308	0.415422717	1.910413595	1.913512124	0.412324189
309	0.135919056	2.189917257	1.882308648	0.443527665
310	-0.335794322	2.661630635	2.451160352	-0.125324039
311	-0.486427055	2.812263367	2.825043138	-0.499206825
312	-0.097267205	2.423103517	2.763139901	-0.437303589
313	0.382100691	1.943735622	2.070469425	0.255366888
314	0.444254518	1.881581795	1.798589212	0.5272471
315	0.043240466	2.282595846	1.935050676	0.390785636
316	-0.374168758	2.70000507	2.580282019	-0.254445706
317	-0.276040103	2.601876416	2.7773267	-0.451490388
318	0.222238324	2.103597989	2.40210931	-0.076272997
319	0.288002587	2.037833726	1.794338441	0.531497871
320	-0.120511799	2.446348111	2.240615349	0.085220963
321	-0.286033937	2.611870249	2.6081304	-0.282294087
322	-0.033630179	2.359466492	2.580968217	-0.255131904

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
323	0.329275058	1.996561255	2.119463003	0.20637331
324	0.204794795	2.121041518	1.854332575	0.471503738
325	-0.226967255	2.552803568	2.34461945	-0.018783138
326	-0.347579546	2.673415859	2.715494491	-0.389658178
327	-0.10128978	2.427126092	2.598490472	-0.272654159
328	0.173785861	2.152050452	2.233515985	0.092320327
329	0.298650545	2.027185767	2.04685124	0.278985073
330	0.22200459	2.103831722	1.981917028	0.343919284
331	-0.077650706	2.403487019	2.191078958	0.134757355
332	-0.307449921	2.633286233	2.572129864	-0.246293551
333	-0.206794135	2.532630447	2.656252252	-0.330415939
334	0.075384418	2.250451895	2.382656317	-0.056820005
335	0.286058611	2.039777702	2.096102993	0.229733319
336	0.245463726	2.080372587	1.959768572	0.366067741
337	0.017376955	2.308459357	2.166692935	0.159143378
338	-0.240273879	2.566110192	2.411731686	-0.085895373
339	-0.317848126	2.643684439	2.677880858	-0.352044546
340	-0.103570815	2.429407127	2.576584794	-0.250748481
341	0.171254426	2.154581887	2.258577792	0.067258521
342	0.246385124	2.079451189	2.028100586	0.297735727
343	0.163046919	2.162789393	2.100469787	0.225366526
344	0.062351705	2.263484607	2.19305447	0.132781842
345	0.01661129	2.309225022	2.3000715	0.025764813
346	-0.041758615	2.367594928	2.287418111	0.038418201
347	-0.185112315	2.510948627	2.412001694	-0.086165381
348	-0.143175368	2.469011681	2.571168103	-0.245331791
349	0.097938372	2.22789794	2.340120473	-0.01428416

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
350	0.140986519	2.184849794	2.092691551	0.233144762
351	0.074662484	2.251173829	2.242965326	0.082870987
352	0.036333393	2.28950292	2.229240876	0.096595437
353	-0.004015921	2.329852234	2.316157168	0.009679145
354	0.008106137	2.317730176	2.312056614	0.013779698
355	0.040059597	2.285776716	2.29252915	0.033307163
356	-0.052726779	2.378563092	2.249277757	0.076558555
357	-0.232538752	2.558375064	2.469140233	-0.14330392
358	-0.389542571	2.715378883	2.608809751	-0.282973438
359	-0.424250271	2.750086584	2.780092208	-0.454255895
360	-0.082812125	2.408648437	2.685536768	-0.359700455
361	0.505360151	1.820476162	2.115760733	0.21007558
362	0.750153128	1.575683185	1.517991862	0.807844451
363	0.424040258	1.901796054	1.609322374	0.716513939
364	-0.204441749	2.530278062	2.152563133	0.17327318
365	-0.711449021	3.037285334	2.853152875	-0.527316563
366	-0.819553428	3.14538974	3.17090645	-0.845070137
367	-0.633301894	2.959138207	3.079862679	-0.754026367
368	-0.371248464	2.697084777	2.806274455	-0.480438142
369	-0.072405564	2.398241877	2.558553991	-0.232717679
370	0.33975595	1.986080363	2.215436067	0.110400245
371	0.740631904	1.585204408	1.743591572	0.582244741
372	0.86577292	1.460063393	1.414931341	0.910904972
373	0.605493446	1.720342867	1.483381828	0.842454484
374	0.129731692	2.19610462	1.921147048	0.404689265
375	-0.361256903	2.687093215	2.426472488	-0.100636176
376	-0.670506403	2.996342715	2.897467686	-0.571631373

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
377	-0.647303466	2.973139779	3.050096012	-0.724259699
378	-0.304203199	2.630039512	2.861369922	-0.535533609
379	0.03743264	2.288403673	2.37719981	-0.051363497
380	0.131932273	2.193904039	2.174493481	0.151342831
381	0.088913669	2.236922644	2.183290825	0.142545488
382	0.109590676	2.216245637	2.258016934	0.067819378
383	0.262792372	2.06304394	2.147636425	0.178199887
384	0.376828028	1.949008285	1.95606892	0.369767392
385	0.17657494	2.149261372	1.91665787	0.409178443
386	-0.253071404	2.578907717	2.340301981	-0.014465669
387	-0.256841529	2.582677842	2.769945609	-0.444109297
388	0.003739746	2.322096566	2.372018569	-0.046182256
389	0.032843835	2.292992477	2.244405002	0.08143131
390	0.073801909	2.252034404	2.308590272	0.017246041
391	0.136953642	2.18888267	2.169009889	0.156826424
392	0.072495083	2.25334123	2.178771575	0.147064737
393	-0.122865956	2.448702269	2.293965869	0.031870443
394	-0.104893705	2.430730018	2.562358117	-0.236521804
395	0.049343571	2.276492741	2.274548266	0.051288046
396	0.142356464	2.183479849	2.248318344	0.077517969
397	0.111319389	2.214516924	2.093547541	0.232288771
398	0.008737571	2.317098742	2.299413592	0.026422721
399	-0.162794933	2.488631246	2.303234343	0.02260197
400	-0.355063021	2.680899334	2.630677123	-0.304840811
401	-0.329201582	2.655037895	2.692925563	-0.36708925
402	0.024626699	2.301209613	2.584307321	-0.258471008
403	0.433113711	1.892722601	2.003881992	0.321954321

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
404	0.444177478	1.881658835	1.762937089	0.562899224
405	0.110585322	2.215250991	1.968823392	0.35701292
406	-0.170408929	2.496245242	2.418459444	-0.092623131
407	-0.209488807	2.53532512	2.536701161	-0.210864849
408	-0.153973498	2.479809811	2.50060722	-0.174770907
409	-0.18506479	2.510901102	2.427507129	-0.101670817
410	-0.049536461	2.375372773	2.556452983	-0.23061667
411	0.213832217	2.112004095	2.173281728	0.152554585
412	0.132415002	2.193421311	2.026372268	0.299464045
413	-0.01984602	2.345682333	2.322054453	0.00378186
414	0.103758283	2.22207803	2.337045825	-0.011209512
415	0.02335985	2.302476463	2.08435926	0.241477052
416	-0.341789487	2.6676258	2.477835183	-0.151998871
417	-0.345204895	2.671041208	2.811455983	-0.48561967
418	0.125571353	2.200264959	2.503404882	-0.17756857
419	0.513465565	1.812370748	1.885365866	0.440470447
420	0.491162097	1.834674215	1.719637696	0.606198617
421	0.022280501	2.303555812	1.918982524	0.406853789
422	-0.457730244	2.783566557	2.63588745	-0.310051137
423	-0.513584543	2.839420856	2.886152458	-0.560316145
424	-0.264791824	2.590628136	2.757918941	-0.432082629
425	0.01853295	2.307303362	2.398704626	-0.072868314
426	0.204166418	2.121669895	2.190687107	0.135149206
427	0.349170773	1.97666554	2.028611345	0.297224968
428	0.318037797	2.007798516	1.9016187	0.424217613
429	0.058225851	2.267610462	2.08147185	0.244364463
430	-0.169484068	2.495320381	2.413269307	-0.087432994

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
431	-0.146569	2.472405312	2.539811135	-0.213974823
432	-0.006817731	2.332654043	2.376243164	-0.050406852
433	0.070661257	2.255175056	2.260795944	0.065040368
434	0.103399117	2.222437195	2.22014666	0.105689653
435	0.130711984	2.195124329	2.195301721	0.130534592
436	0.02800663	2.297829683	2.166021349	0.159814964
437	-0.114887333	2.440723645	2.391850512	-0.0660142
438	-0.161788397	2.487624709	2.454643486	-0.128807173
439	-0.162713099	2.488549411	2.48593842	-0.160102107
440	-0.160186959	2.486023271	2.458208327	-0.132372014
441	-0.077964312	2.403800624	2.479485699	-0.153649386
442	0.087251976	2.238584336	2.300734527	0.025101785
443	0.23307673	2.092759582	2.150461032	0.175375281
444	0.273592357	2.052243956	2.010754182	0.315082131
445	0.176687669	2.149148643	2.064321304	0.261515009
446	-0.021024976	2.346861288	2.200820899	0.125015413
447	-0.262850412	2.588686724	2.45365825	-0.127821938
448	-0.322029313	2.647865626	2.681910496	-0.356074183
449	-0.08078406	2.406620372	2.580853794	-0.255017481
450	0.193445064	2.132391248	2.210574732	0.11526158
451	0.229633088	2.096203224	2.030546528	0.295289784
452	-0.005302471	2.331138784	2.130493285	0.195343028
453	-0.269593396	2.595429709	2.489641867	-0.163805554
454	-0.248017683	2.573853996	2.660987332	-0.33515102
455	0.212292785	2.113543528	2.457749269	-0.131912956
456	0.409771863	1.916064449	1.761057811	0.564778501
457	-0.114454574	2.440290887	2.036996286	0.288840027

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
458	-0.31971511	2.645551423	2.788476452	-0.462640139
459	0.051362522	2.274473791	2.475883641	-0.150047328
460	0.096252939	2.229583374	2.054539597	0.271296715
461	-0.092205674	2.418041986	2.365279783	-0.039443471
462	-0.120197101	2.446033413	2.435928651	-0.110092338
463	0.149090333	2.17674598	2.42332025	-0.097483938
464	0.294704899	2.031131414	1.915504795	0.410331517
465	-0.000468679	2.326304991	2.113406595	0.212429718
466	-0.256006731	2.581843043	2.496427677	-0.170591365
467	-0.231261619	2.557097932	2.628366187	-0.302529874
468	-0.108533286	2.434369599	2.456176667	-0.130340355
469	-0.046820774	2.372657086	2.381713675	-0.055877363
470	-0.100422754	2.426259067	2.332839807	-0.007003494
471	0.183195736	2.142640577	2.482381674	-0.156545362
472	0.589433205	1.736403108	1.793981979	0.531854333
473	0.446330188	1.879506125	1.65921073	0.666625582
474	-0.05150694	2.377343253	2.062494638	0.263341675
475	-0.512045519	2.837881832	2.642943891	-0.317107578
476	-0.691550016	3.017386329	2.984322251	-0.658485938
477	-0.6130095	2.938845812	3.008794971	-0.682958659
478	-0.399671068	2.725507381	2.834136485	-0.508300172
479	-0.141604368	2.46744068	2.587130621	-0.261294308
480	0.003074682	2.322761631	2.322034067	0.003802246
481	0.040365904	2.285470409	2.292829639	0.033006673
482	0.166064269	2.159772044	2.248403209	0.077433103
483	0.507596873	1.818239439	2.047713036	0.278123277
484	0.817183843	1.50865247	1.577851908	0.747984405

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
485	0.749951351	1.575884962	1.423502731	0.902333582
486	0.310857016	2.014979296	1.698825858	0.627010454
487	-0.041132273	2.366968586	2.286587138	0.039249174
488	-0.158691945	2.484528258	2.411576598	-0.085740285
489	-0.290874301	2.616710614	2.520579483	-0.19474317
490	-0.590180466	2.916016779	2.672880333	-0.347044021
491	-0.81727926	3.143115573	3.106883947	-0.781047634
492	-0.547040623	2.872876936	3.135854239	-0.810017926
493	0.149092065	2.176744247	2.586989557	-0.261153245
494	0.873376173	1.45246014	1.761142557	0.564693756
495	0.840515848	1.485320465	1.14219125	1.183645062
496	0.067381765	2.258454548	1.789351406	0.536484906
497	-0.695009843	3.020846156	2.67110203	-0.345265718
498	-0.988105272	3.313941585	3.310874732	-0.985038419
499	-0.684927391	3.010763704	3.27315028	-0.947313968
500	-0.039623393	2.365459706	2.723615853	-0.397779541
501	0.647327759	1.678508553	1.996496451	0.329339862
502	0.955487879	1.370348433	1.356483806	0.969352507
503	0.728870594	1.596965719	1.365360712	0.9604756
504	0.152544405	2.173291908	1.79434488	0.531491433
505	-0.395259435	2.721095748	2.502034449	-0.176198137
506	-0.625005951	2.950842263	2.891826705	-0.565990393
507	-0.647012151	2.972848463	2.967603293	-0.64176698
508	-0.584979877	2.91081619	2.93860778	-0.612771468
509	-0.423699042	2.749535354	2.846235757	-0.520399444
510	-0.258849176	2.584685488	2.622091993	-0.29625568
511	-0.133739152	2.459575465	2.515336078	-0.189499765

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
512	-0.026188873	2.352025186	2.374565203	-0.048728891
513	0.085734261	2.240102052	2.299763455	0.026072858
514	0.199416156	2.126420156	2.154305952	0.17153036
515	0.269059297	2.056777015	2.072090624	0.253745689
516	0.267833806	2.058002507	2.015222516	0.310613796
517	0.283366028	2.042470285	2.071220768	0.254615544
518	0.3873743	1.938462013	1.988431863	0.33740445
519	0.489287585	1.836548728	1.865782315	0.460053998
520	0.436575533	1.889260779	1.784769099	0.541067213
521	0.135407699	2.190428614	1.962904548	0.362931765
522	-0.223314857	2.54915117	2.376136074	-0.050299762
523	-0.383844583	2.709680896	2.678721824	-0.352885511
524	-0.321787085	2.647623397	2.703160387	-0.377324074
525	-0.184992813	2.510829126	2.56034523	-0.234508917
526	-0.128416236	2.454252549	2.431032536	-0.105196224
527	-0.148652249	2.474488562	2.443800224	-0.117963912
528	-0.122946335	2.448782647	2.470812976	-0.144976664
529	-0.012505998	2.33834231	2.395726174	-0.069889861
530	0.090947726	2.234888586	2.253399209	0.072437104
531	0.189870767	2.135965546	2.187971107	0.137865205
532	0.291470354	2.034365959	2.058762488	0.267073825
533	0.16313043	2.162705882	1.984540644	0.341295669
534	-0.110027894	2.435864206	2.302227754	0.023608559
535	-0.176653333	2.502489646	2.529789617	-0.203953305
536	0.161375759	2.164460554	2.443755342	-0.11791903
537	0.24781703	2.078019282	1.872522118	0.453314195
538	0.042923611	2.282912702	2.24443461	0.081401703

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
539	-0.04160231	2.367438622	2.28910906	0.036727252
540	0.040482556	2.285353757	2.410105276	-0.084268964
541	-0.132364172	2.458200485	2.137573727	0.188262586
542	-0.277398118	2.603234431	2.728184729	-0.402348417
543	-0.104411705	2.430248018	2.451076692	-0.12524038
544	0.099813	2.226023313	2.378569162	-0.052732849
545	0.034886075	2.290950238	2.052812131	0.273024182
546	-0.075345141	2.401181454	2.4853429	-0.159506587
547	0.038032975	2.287803337	2.290155693	0.035680619
548	0.281332618	2.044503695	2.255427441	0.070408871
549	0.43075492	1.895081393	1.818628226	0.507208087
550	0.314920531	2.010915782	1.942204907	0.383631405
551	0.040587682	2.28524863	2.049210523	0.27662579
552	-0.229203915	2.555040227	2.477735909	-0.151899597
553	-0.386784775	2.712621087	2.594267033	-0.26843072
554	-0.507839002	2.833675315	2.788485295	-0.462648982
555	-0.548826567	2.87466288	2.83894175	-0.513105437
556	-0.309219569	2.635055881	2.870458778	-0.544622466
557	0.30546156	2.020374752	2.378309233	-0.052472921
558	0.831875469	1.493960844	1.656169393	0.669666919
559	0.789129183	1.53670713	1.321286526	1.004549786
560	0.261458798	2.064377515	1.719616862	0.60621945
561	-0.396944473	2.722780786	2.362314079	-0.036477766
562	-0.715195825	3.041032137	3.02685102	-0.701014708
563	-0.442722188	2.7685585	3.014320292	-0.68848398
564	0.05475511	2.271081202	2.500282424	-0.174446112
565	0.265506348	2.060329965	2.024981283	0.300855029

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
566	0.115729079	2.210107233	2.066508971	0.259327342
567	-0.08785011	2.413686422	2.316403654	0.009432658
568	-0.04483729	2.370673602	2.47361849	-0.147782177
569	0.27896357	2.046872742	2.242335054	0.083501258
570	0.408840609	1.916995704	1.835547948	0.490288364
571	0.079785548	2.246050764	1.968540817	0.357295496
572	-0.378214978	2.704051291	2.478167434	-0.152331122
573	-0.511615124	2.837451436	2.881441378	-0.555605065
574	-0.171433825	2.497270138	2.758561182	-0.43272487
575	0.292000642	2.033835671	2.217924266	0.107912047
576	0.464751884	1.861084428	1.833409446	0.492426867
577	0.215013418	2.110822895	1.862652672	0.463183641
578	-0.182174479	2.508010792	2.317051391	0.008784921
579	-0.422475333	2.748311646	2.655047284	-0.329210972
580	-0.302224897	2.62806121	2.800042935	-0.474206622
581	0.052405951	2.273430362	2.43122019	-0.105383877
582	0.301941156	2.023895157	2.094648597	0.231187715
583	0.233644333	2.09219198	1.930487992	0.395348321
584	0.015142601	2.310693712	2.217118507	0.108717806
585	-0.121638524	2.447474837	2.368486752	-0.04265044
586	-0.141087166	2.466923479	2.489707532	-0.163871219
587	-0.259191928	2.58502824	2.412917029	-0.087080717
588	-0.408795402	2.734631715	2.713273504	-0.387437191
589	-0.180978896	2.506815209	2.718727599	-0.392891286
590	0.481749036	1.844087276	2.27391324	0.051923072
591	1.114720437	1.211115876	1.414403804	0.911432508
592	1.04399954	1.281836773	1.003427405	1.322408908

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
593	0.169173053	2.15666326	1.52751177	0.798324543
594	-0.883365794	3.209202107	2.721596449	-0.395760137
595	-1.339287448	3.665123761	3.62676702	-1.300930708
596	-0.85969383	3.185530143	3.652985648	-1.327149336
597	0.085067837	2.240768476	2.702675079	-0.376838767
598	0.873219085	1.452617228	1.775600318	0.550235995
599	0.966772939	1.359063373	1.128859095	1.196977217
600	0.30901654	2.016819773	1.558257468	0.767578845
601	-0.237438429	2.563274742	2.42271122	-0.096874908
602	-0.051560469	2.377396782	2.662053673	-0.33621736
603	0.16581317	2.160023142	2.077594388	0.248241924
604	0.003334403	2.32250191	2.209289912	0.116546401
605	-0.36281082	2.688647133	2.398659041	-0.072822729
606	-0.253111607	2.57894792	2.926697907	-0.600861595
607	0.138137189	2.187699124	2.216984708	0.108851605
608	0.264728817	2.061107496	2.131241664	0.194594648
609	-0.010920677	2.33675699	1.967793849	0.358042464
610	-0.403105035	2.728941348	2.65392882	-0.328092508
611	-0.507963073	2.833799385	2.763714404	-0.437878091
612	-0.31036875	2.636205062	2.862542984	-0.536706672
613	0.157687963	2.16814835	2.387992575	-0.062156263
614	0.672509874	1.653326439	1.93222999	0.393606323
615	0.755571541	1.570264772	1.36849465	0.957341662
616	0.104218793	2.22161752	1.739858187	0.585978125
617	-0.686590135	3.012426447	2.646686818	-0.320850505
618	-0.880823188	3.2066595	3.317651601	-0.991815289
619	-0.300658933	2.626495246	3.059711714	-0.733875402

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
620	0.582552783	1.743283529	2.183300598	0.142535715
621	0.90839684	1.417439473	1.305317453	1.02051886
622	0.452615504	1.873220808	1.504498977	0.821337336
623	-0.379502623	2.705338935	2.196275295	0.129561018
624	-0.896260255	3.222096567	3.149783004	-0.823946692
625	-0.827957026	3.153793339	3.247823519	-0.921987207
626	-0.331404197	2.65724051	3.023539456	-0.697703144
627	0.305324831	2.020511482	2.276751469	0.049084844
628	0.7701101	1.555726213	1.75221387	0.573622442
629	0.723848857	1.601987456	1.349908594	0.975927719
630	0.135815175	2.190021138	1.818609611	0.507226702
631	-0.356607688	2.682444001	2.511436318	-0.185600006
632	-0.310142882	2.635979194	2.808364396	-0.482528083
633	-0.083664241	2.409500554	2.438653276	-0.112816964
634	-0.058969165	2.384805478	2.350244656	-0.024408344
635	-0.267376565	2.593212878	2.385964272	-0.060127959
636	-0.153876706	2.479713018	2.754488839	-0.428652527
637	0.304493295	2.021343018	2.187880893	0.137955419
638	0.430290442	1.89554587	1.837633806	0.488202507
639	-0.000548767	2.326385079	1.92517688	0.400659433
640	-0.482984866	2.808821179	2.674104411	-0.348268099
641	-0.382935044	2.708771357	2.898849208	-0.573012896
642	0.058702144	2.267134169	2.493799713	-0.167963401
643	0.39506114	1.930775172	2.023477713	0.302358599
644	0.406825357	1.919010955	1.817894981	0.507941332
645	0.148390709	2.177445603	1.989078886	0.336757426
646	-0.140056226	2.465892538	2.32639434	-0.000558028

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
647	-0.235389519	2.561225832	2.564950419	-0.239114107
648	-0.160927158	2.486763471	2.523951565	-0.198115253
649	-0.062885259	2.388721571	2.418910834	-0.093074521
650	-0.044200356	2.370036669	2.328762002	-0.002925689
651	-0.024545491	2.350381804	2.377722068	-0.051885755
652	0.096012234	2.229824079	2.293614553	0.032221759
653	0.183544364	2.142291948	2.140269274	0.185567038
654	0.102629672	2.22320664	2.115960308	0.209876004
655	-0.030256966	2.356093279	2.295046355	0.030789957
656	-0.053850299	2.379686612	2.382609977	-0.056773665
657	-0.008757791	2.334594104	2.345561002	-0.01972469
658	-0.144106836	2.469943148	2.293476922	0.03235939
659	-0.313972502	2.639808815	2.603812718	-0.277976405
660	-0.224401476	2.550237789	2.638959837	-0.313123524
661	0.225196784	2.100639528	2.432946029	-0.107109716
662	0.622423134	1.703413179	1.759546255	0.566290057
663	0.553260277	1.772576035	1.628019218	0.697817094
664	0.058674281	2.267162032	1.885543929	0.440292383
665	-0.542648313	2.868484626	2.597186327	-0.271350014
666	-0.930743059	3.256579371	3.086538204	-0.760701892
667	-0.804910534	3.130746847	3.374020097	-1.048183785
668	-0.014511682	2.340347994	2.860043458	-0.534207146
669	0.92837998	1.397456332	1.819365688	0.506470624
670	1.325836313	1	0.981126526	1.344709787
671	1.108235143	1.21760117	1.004618052	1.321218261
672	0.488298908	1.837537405	1.402418463	0.923417849
673	-0.34893693	2.674773243	2.223682339	0.102153974

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
674	-1.118351735	3.444188047	3.064945295	-0.739108982
675	-1.447962964	3.773799277	3.756456799	-1.430620486
676	-1.124977572	3.450813885	3.74040977	-1.414573458
677	-0.466373748	2.792210061	3.132203889	-0.806367577
678	0.144327872	2.181508441	2.434750616	-0.108914304
679	0.522534478	1.803301834	1.91391588	0.411920433
680	0.759076931	1.566759381	1.675209371	0.650626942
681	0.975528783	1.35030753	1.443825924	0.882010388
682	1.091832598	1.234003714	1.244309501	1.081526812
683	0.93364688	1.392189432	1.208017794	1.117818519
684	0.435678189	1.890158124	1.547532816	0.778303496
685	-0.276596631	2.602432943	0.103640028	0.103640028
686	-0.827986715	3.153823027	-0.445735269	-0.445735269
687	-0.861009078	3.186845391	-0.842985878	-0.842985878
688	-0.347757717	2.67359403	-0.588304302	-0.588304302
689	0.451160019	1.874676294	-0.029983726	-0.029983726
690	0.838305715	1.487530598	0.714957819	0.714957819
691	0.49533747	1.830498843	0.666924082	0.666924082
692	-0.203498934	2.529335247	0.177139591	0.177139591
693	-0.726532878	3.052369191	-0.478926534	-0.478926534
694	-0.758877517	3.084713829	-0.709635686	-0.709635686
695	-0.372066619	2.697902932	-0.55089567	-0.55089567
696	0.228475105	2.097361207	-0.082650833	-0.082650833
697	0.693942759	1.631893554	0.441463979	0.441463979
698	0.788900021	1.536936292	0.698288256	0.698288256
699	0.412093583	1.91374273	0.610714473	0.610714473
700	-0.259788351	2.585624664	0.087531739	0.087531739

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
701	-0.778876809	3.104713122	-0.501350854	-0.501350854
702	-0.70751945	3.033355763	-0.782088468	-0.782088468
703	-0.022422502	2.348258814	-0.400589204	-0.400589204
704	0.607743581	1.718092732	0.345387246	0.345387246
705	0.745136151	1.580700162	0.655518103	0.655518103
706	0.566412126	1.759424187	0.582288445	0.582288445
707	0.324960764	2.000875549	0.362217361	0.362217361
708	0.068517394	2.257318919	0.180764549	0.180764549
709	-0.210184306	2.536020619	-0.062305304	-0.062305304
710	-0.48165624	2.807492552	-0.282501939	-0.282501939
711	-0.632376055	2.958212368	-0.513051365	-0.513051365
712	-0.549899373	2.875735685	-0.536632001	-0.536632001
713	-0.17823141	2.504067723	-0.379262164	-0.379262164
714	0.321634091	2.004202222	0.075820199	0.075820199
715	0.625674669	1.700161643	0.452505912	0.452505912
716	0.475026898	1.850809415	0.584881033	0.584881033
717	0.049285823	2.276550489	0.209899607	0.209899607
718	-0.33837996	2.664216273	-0.123208536	-0.123208536
719	-0.568447552	2.894283865	-0.434712312	-0.434712312
720	-0.51865555	2.844491862	-0.508934205	-0.508934205
721	-0.10277344	2.428609753	-0.355081153	-0.355081153
722	0.509279078	1.816557235	0.177386628	0.177386628
723	0.782581556	1.543254757	0.663002597	0.663002597
724	0.347534126	1.978302187	0.638162116	0.638162116
725	-0.356027386	2.681863699	-0.052156269	-0.052156269
726	-0.757013592	3.082849904	-0.534081554	-0.534081554
727	-0.627722653	2.953558966	-0.722336278	-0.722336278

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
728	-0.256315426	2.582151738	-0.325772461	-0.325772461
729	0.108102931	2.217733382	-0.102846176	-0.102846176
730	0.410415844	1.915420469	0.278515957	0.278515957
731	0.603984597	1.721851716	0.402650448	0.402650448
732	0.524306363	1.80152995	0.599716656	0.599716656
733	0.072370233	2.25346608	0.275471698	0.275471698
734	-0.390924915	2.716761228	-0.150909612	-0.150909612
735	-0.422154792	2.747991104	-0.4959163	-0.4959163
736	-0.024276497	2.350112809	-0.208934473	-0.208934473
737	0.242679935	2.083156377	0.16507399	0.16507399
738	0.126336717	2.199499595	0.237913642	0.237913642
739	-0.227314644	2.553150956	-0.025405117	-0.025405117
740	-0.359115173	2.684951486	-0.349854345	-0.349854345
741	-0.02160104	2.347437353	-0.248403758	-0.248403758
742	0.356014441	1.969821872	0.208577411	0.208577411
743	0.356887065	1.968949248	0.382223748	0.382223748
744	0.060308761	2.265527551	0.212894629	0.212894629
745	-0.269446249	2.595282562	-0.109945034	-0.109945034
746	-0.383008205	2.708844518	-0.336527221	-0.336527221
747	-0.259945264	2.585781577	-0.300980532	-0.300980532
748	0.062741889	2.263094424	-0.132812725	-0.132812725
749	0.404322282	1.92151403	0.234409672	0.234409672
750	0.541907837	1.783928476	0.436810676	0.436810676
751	0.378172287	1.947664025	0.464664971	0.464664971
752	-0.076676362	2.402512675	0.166758265	0.166758265
753	-0.509558941	2.835395253	-0.291061409	-0.291061409
754	-0.623767447	2.94960376	-0.55498138	-0.55498138

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
755	-0.522548712	2.848385025	-0.483490616	-0.483490616
756	-0.442128006	2.767964319	-0.38673308	-0.38673308
757	-0.392588512	2.718424824	-0.349267325	-0.349267325
758	-0.273932366	2.599768678	-0.304352645	-0.304352645
759	-0.063677397	2.389513709	-0.152518081	-0.152518081
760	0.236502519	2.089333794	0.045257465	0.045257465
761	0.045257465			0.079979671
762	0.079979671			0.046860114
763	0.046860114			0.029942458
764	0.029942458			0.021300824
765	0.021300824			0.016886629
766	0.016886629			0.014631834
767	0.014631834			0.013480072
768	0.013480072			0.012891745
769	0.012891745			0.012591224
770	0.012591224			0.012437717
771	0.012437717			0.012359304
772	0.012359304			0.012319251
773	0.012319251			0.012298791
774	0.012298791			0.01228834
775	0.01228834			0.012283002
776	0.012283002			0.012280275
777	0.012280275			0.012278882
778	0.012278882			0.012278171
779	0.012278171			0.012277807
780	0.012277807			0.012277622
781	0.012277622			0.012277527

Periode per-hari	IMF2	IMF2Reverse	Peramalan IMF 2	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
782	0.012277527			0.012277478
783	0.012277478			0.012277453
784	0.012277453			0.012277441
785	0.012277441			0.012277434
786	0.012277434			0.012277431
787	0.012277431			0.012277429
788	0.012277429			0.012277429
789	0.012277429			0.012277428
790	0.012277428			0.012277428
791	0.012277428			0.012277428

LAMPIRAN F SELURUH PROSES IMF 3

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
1	-0.347067361	2.70102993		
2	0.024318355	2.329644214	2.698661396	-0.344698827
3	0.232782017	2.121180552	2.32809142	0.025871149
4	0.311748629	2.04221394	1.933045537	0.420917032
5	0.294643197	2.059319372	1.935240875	0.418721694
6	0.214890726	2.139071843	2.128374027	0.225588542
7	0.107302865	2.246659704	2.21789643	0.136066139
8	0.012459547	2.341503022	2.250729096	0.103233473
9	-0.02588813	2.379850699	2.358914372	-0.004951803
10	0.02955164	2.324410929	2.448054488	-0.094091919
11	0.162058375	2.191904194	2.337035618	0.016926951
12	0.294147373	2.059815196	2.085458238	0.268504331
13	0.356826587	1.997135982	1.935773084	0.418189485
14	0.303390599	2.05057197	1.971768858	0.382193711
15	0.12662541	2.227337159	2.09931555	0.254647019
16	-0.109955557	2.463918126	2.291996623	0.061965946
17	-0.328413846	2.682376415	2.570979547	-0.217016978
18	-0.469732858	2.823695427	2.829510686	-0.475548117
19	-0.513246771	2.86720934	2.917129451	-0.563166882
20	-0.468828666	2.822791235	2.856991746	-0.503029177
21	-0.353606715	2.707569284	2.773243935	-0.419281366
22	-0.185900804	2.539863373	2.671982885	-0.318020316
23	0.010920383	2.343042186	2.47618638	-0.122223811
24	0.208804916	2.145157653	2.218878966	0.135083603
25	0.370047075	1.983915494	2.020410923	0.333551646

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
26	0.461791766	1.892170803	1.913029623	0.440932946
27	0.46448759	1.889474979	1.855485508	0.498477061
28	0.364171946	1.989790623	1.866992914	0.486969655
29	0.165700564	2.188262005	2.017548414	0.336414155
30	-0.082942057	2.436904626	2.297803534	0.056159035
31	-0.32109163	2.675054199	2.590248144	-0.236285575
32	-0.486438791	2.84040136	2.799278184	-0.445315615
33	-0.52376541	2.877727979	2.914018879	-0.56005631
34	-0.411939591	2.76590216	2.910921209	-0.55695864
35	-0.193911159	2.547873728	2.727318427	-0.373355858
36	0.071707938	2.282254631	2.408208477	-0.054245908
37	0.323146632	2.030815937	2.110959747	0.243002822
38	0.491016264	1.862946305	1.909546444	0.444416125
39	0.534218419	1.81974415	1.784783779	0.56917879
40	0.470217652	1.883744917	1.772914031	0.581048538
41	0.335230015	2.018732554	1.913187973	0.440774596
42	0.170718804	2.183243765	2.119188716	0.234773853
43	0.015815135	2.338147434	2.278451513	0.075511056
44	-0.101933937	2.455896506	2.394253123	-0.040290554
45	-0.175712214	2.529674783	2.507699038	-0.153736469
46	-0.21481507	2.568777639	2.58326206	-0.229299491
47	-0.233750354	2.587712923	2.584962155	-0.230999586
48	-0.245987582	2.599950151	2.569531372	-0.215568803
49	-0.256041945	2.610004514	2.597989232	-0.244026663
50	-0.259403544	2.613366113	2.634132328	-0.280169759
51	-0.248399507	2.602362076	2.620125284	-0.266162715
52	-0.210367353	2.564329922	2.57819303	-0.224230461

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
53	-0.124768962	2.478731531	2.543063549	-0.18910098
54	0.007415608	2.346546961	2.461286478	-0.107323909
55	0.158338436	2.195624133	2.281627665	0.072334904
56	0.29335856	2.060604009	2.083233946	0.270728623
57	0.374299157	1.979663412	1.975634952	0.378327617
58	0.363063296	1.990899274	1.954772908	0.399189661
59	0.243465557	2.110497012	1.991226414	0.362736155
60	0.072419818	2.281542751	2.141023745	0.212938824
61	-0.07528261	2.429245179	2.390532739	-0.03657017
62	-0.139886336	2.493848905	2.558182374	-0.204219805
63	-0.122359632	2.476322201	2.526175295	-0.172212726
64	-0.055654568	2.409617137	2.410975124	-0.057012555
65	0.01937532	2.334587249	2.358119307	-0.004156738
66	0.05403351	2.299929059	2.329210355	0.024752214
67	-7.61273E-05	2.354038696	2.273574346	0.080388223
68	-0.160622194	2.514584763	2.322122724	0.031839845
69	-0.353467697	2.707430266	2.586556943	-0.232594373
70	-0.502283548	2.856246117	2.885441131	-0.531478562
71	-0.568154755	2.922117324	2.966019321	-0.612056751
72	-0.52276043	2.876722999	2.88926837	-0.535305801
73	-0.353056797	2.707019366	2.829983774	-0.476021205
74	-0.093135033	2.447097602	2.690358472	-0.336395903
75	0.203527399	2.15043517	2.325975427	0.027987142
76	0.48111851	1.87284406	1.915466277	0.438496292
77	0.683887026	1.670075543	1.702725181	0.651237388
78	0.762230886	1.591731683	1.626631108	0.727331461
79	0.698559469	1.6554031	1.557905103	0.796057466

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
80	0.520159107	1.833803462	1.619318674	0.734643895
81	0.273368913	2.080593656	1.923301593	0.430660976
82	0.006577881	2.347384688	2.280942857	0.073019712
83	-0.233251956	2.587214525	2.492871614	-0.138909045
84	-0.40902205	2.762984619	2.645887127	-0.291924558
85	-0.507038811	2.86100138	2.847890549	-0.49392798
86	-0.517707618	2.871670187	2.967399942	-0.613437373
87	-0.434135977	2.788098546	2.879115097	-0.525152528
88	-0.280956417	2.634918986	2.692122814	-0.338160245
89	-0.098615579	2.452578148	2.543696445	-0.189733876
90	0.070704771	2.283257798	2.393842405	-0.039879836
91	0.196287984	2.157674585	2.19254233	0.161420239
92	0.251519761	2.102442809	2.048639869	0.3053227
93	0.223544081	2.130418488	2.065573261	0.288389308
94	0.142282423	2.211680146	2.177903845	0.176058724
95	0.053109765	2.300852804	2.269534589	0.08442798
96	-0.00248646	2.356449029	2.328979169	0.0249834
97	-0.009020987	2.362983556	2.38213788	-0.028175311
98	0.020265138	2.333697431	2.384999682	-0.031037113
99	0.064017949	2.28994462	2.311373549	0.04258902
100	0.100245561	2.253717008	2.237084912	0.116877657
101	0.110411557	2.243551012	2.229365796	0.124596773
102	0.080934648	2.273027921	2.255460109	0.09850246
103	0.015881783	2.338080786	2.282555325	0.071407244
104	-0.055694201	2.40965677	2.350716547	0.003246022
105	-0.101293194	2.455255763	2.458315303	-0.104352734
106	-0.105567184	2.459529753	2.507089944	-0.153127375

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
107	-0.065396492	2.419359061	2.45230864	-0.098346071
108	0.012247429	2.34171514	2.36982384	-0.015861271
109	0.097781924	2.256180645	2.306231655	0.047730914
110	0.158251338	2.195711231	2.225456221	0.128506348
111	0.173455206	2.180507363	2.144192851	0.209769718
112	0.143773071	2.210189498	2.148355586	0.205606983
113	0.075727822	2.278234747	2.240909781	0.113052788
114	-0.0207322	2.374694769	2.333146521	0.020816049
115	-0.133643766	2.487606335	2.40609097	-0.052128401
116	-0.25034308	2.604305649	2.522829331	-0.168866762
117	-0.357099812	2.711062381	2.677397473	-0.323434904
118	-0.437844598	2.791807168	2.783932775	-0.429970205
119	-0.478576917	2.832539486	2.818988779	-0.46502621
120	-0.468174772	2.822137341	2.835080759	-0.48111819
121	-0.39898695	2.752949519	2.830104524	-0.476141955
122	-0.260576386	2.614538955	2.735797168	-0.381834599
123	-0.049552404	2.403514973	2.536454341	-0.182491772
124	0.203874818	2.150087751	2.283779563	0.070183006
125	0.455103577	1.898858992	2.019667182	0.334295387
126	0.660644267	1.693318302	1.768158477	0.585804092
127	0.781251355	1.572711214	1.57525264	0.778709929
128	0.776623953	1.577338616	1.498651342	0.855311227
129	0.612641397	1.741321172	1.572154902	0.781807667
130	0.313095127	2.040867442	1.813244233	0.540718336
131	-0.04986278	2.403825349	2.19847351	0.155489059
132	-0.396394623	2.750357192	2.616496909	-0.26253434
133	-0.659890496	3.013853066	2.941201541	-0.587238972

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
134	-0.80361586	3.157578429	3.136120292	-0.782157723
135	-0.809743451	3.16370602	3.221272809	-0.86731024
136	-0.697986416	3.051948985	3.178611704	-0.824649135
137	-0.507058807	2.861021376	2.991752469	-0.6377899
138	-0.273239657	2.627202226	2.735320419	-0.38135785
139	-0.013618801	2.36758137	2.498034195	-0.144071626
140	0.257347576	2.096614993	2.260413459	0.09354911
141	0.495074206	1.858888363	1.968639798	0.385322771
142	0.639362476	1.714600093	1.699553987	0.654408582
143	0.636119678	1.717842891	1.607018314	0.746944255
144	0.460915361	1.893047208	1.729171681	0.624790888
145	0.185985372	2.167977197	1.99533472	0.358627849
146	-0.092078296	2.446040865	2.320335931	0.033626638
147	-0.290474817	2.644437386	2.606266579	-0.25230401
148	-0.378182646	2.732145215	2.759590315	-0.405627746
149	-0.348597549	2.702560118	2.763733441	-0.409770872
150	-0.225107454	2.579070023	2.671674684	-0.317712115
151	-0.071858578	2.425821147	2.516261053	-0.162298484
152	0.045261148	2.308701421	2.333328869	0.0206337
153	0.102251162	2.251711407	2.218477071	0.135485498
154	0.103814496	2.250148073	2.224300175	0.129662394
155	0.063987769	2.2899748	2.277877088	0.076085481
156	0.012395065	2.341567504	2.310595539	0.04336703
157	-0.017552715	2.371515284	2.348995025	0.004967544
158	-0.002347758	2.356310327	2.396876216	-0.042913647
159	0.040776068	2.313186501	2.373644021	-0.019681452
160	0.079530132	2.274432437	2.270479	0.083483569

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
161	0.086696248	2.267266321	2.212837432	0.141125137
162	0.06250758	2.291454989	2.267063148	0.086899421
163	0.017456503	2.336506066	2.339309334	0.014653235
164	-0.036256968	2.390219537	2.355658217	-0.001695648
165	-0.082747809	2.436710378	2.383362324	-0.029399755
166	-0.102891954	2.456854523	2.465378061	-0.111415491
167	-0.083313989	2.437276558	2.503389614	-0.149427045
168	-0.022738418	2.376700987	2.424885812	-0.070923243
169	0.065016952	2.288945617	2.309536625	0.044425944
170	0.147720273	2.206242296	2.239019441	0.114943128
171	0.183625849	2.17033672	2.182756445	0.171206124
172	0.140463904	2.213498665	2.135300905	0.218661664
173	0.025705816	2.328256753	2.197786889	0.15617568
174	-0.11871506	2.472677629	2.398698216	-0.044735647
175	-0.246275038	2.600237607	2.592679052	-0.238716483
176	-0.323234511	2.67719708	2.666183025	-0.312220456
177	-0.344776494	2.698739064	2.679711609	-0.32574904
178	-0.318846887	2.672809456	2.704508825	-0.350546256
179	-0.25074487	2.604707439	2.686261053	-0.332298484
180	-0.145377785	2.499340354	2.569937754	-0.215975184
181	-0.01041235	2.364374919	2.417246146	-0.063283577
182	0.138479999	2.21548257	2.292957784	0.061004785
183	0.282508855	2.071453714	2.161218524	0.192744045
184	0.394485109	1.95947746	1.993995165	0.359967404
185	0.445365649	1.90859692	1.870503494	0.483459075
186	0.414754107	1.939208463	1.872360395	0.481602174
187	0.311888945	2.042073624	1.972114055	0.381848514

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
188	0.169110512	2.184852057	2.102201261	0.251761308
189	0.022854629	2.33110794	2.247694803	0.106267766
190	-0.093158254	2.447120823	2.405788926	-0.051826357
191	-0.160740656	2.514703225	2.522325126	-0.168362556
192	-0.186923755	2.540886324	2.549687255	-0.195724686
193	-0.19593183	2.549894399	2.529173189	-0.17521062
194	-0.200131427	2.554093996	2.537041905	-0.183079336
195	-0.204674275	2.558636844	2.569367774	-0.215405205
196	-0.209570921	2.56353349	2.57040613	-0.216443561
197	-0.202531957	2.556494526	2.548817877	-0.194855308
198	-0.167919746	2.521882315	2.54546806	-0.191505491
199	-0.097634716	2.451597285	2.524781479	-0.17081891
200	-0.005661056	2.359623625	2.424827443	-0.070864874
201	0.087517455	2.266445114	2.285749062	0.068213507
202	0.159932122	2.194030447	2.200338743	0.153623826
203	0.193557557	2.160405012	2.171792078	0.182170491
204	0.187584726	2.166377843	2.150609989	0.20335258
205	0.150973114	2.202989455	2.151732443	0.202230126
206	0.09702512	2.256937449	2.214157777	0.139804792
207	0.040919604	2.313042965	2.301831423	0.052131146
208	-0.00687555	2.360838119	2.349760047	0.004202522
209	-0.039070297	2.393032866	2.367387982	-0.013425413
210	-0.056108792	2.410071361	2.39939916	-0.045436591
211	-0.061114656	2.415077225	2.430289573	-0.076327004
212	-0.05936731	2.413329879	2.421018134	-0.067055565
213	-0.055820387	2.409782956	2.3946066	-0.040644031
214	-0.051935094	2.405897663	2.398236135	-0.044273566

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
215	-0.047681947	2.401644516	2.416146985	-0.062184416
216	-0.042168497	2.396131066	2.404739866	-0.050777297
217	-0.034838741	2.38880131	2.378114392	-0.024151823
218	-0.025350314	2.379312883	2.376413975	-0.022451406
219	-0.012557767	2.366520336	2.385330458	-0.031367889
220	0.006915795	2.347046774	2.365138553	-0.011175984
221	0.034619923	2.319342646	2.325010974	0.028951595
222	0.07182576	2.282136809	2.298039921	0.055922648
223	0.120728519	2.23323405	2.272738457	0.081224112
224	0.179306036	2.174656533	2.21416786	0.13979471
225	0.23148937	2.122473199	2.133201519	0.22076105
226	0.258983831	2.094978738	2.08110297	0.272859599
227	0.243905417	2.110057152	2.081086104	0.272876465
228	0.1765554	2.177407169	2.119585162	0.234377407
229	0.075318468	2.278644101	2.201202638	0.152759931
230	-0.033884447	2.387847016	2.329756496	0.024206073
231	-0.121602256	2.475564825	2.457465	-0.103502431
232	-0.159945861	2.51390843	2.526588257	-0.172625687
233	-0.148273138	2.502235707	2.526754617	-0.172792048
234	-0.112423033	2.466385602	2.485770124	-0.131807555
235	-0.086582378	2.440544947	2.438700461	-0.084737892
236	-0.103567566	2.457530135	2.417797996	-0.063835427
237	-0.180544179	2.534506748	2.454984138	-0.101021569
238	-0.300866383	2.654828952	2.56793191	-0.213969341
239	-0.433185676	2.787148245	2.725962701	-0.372000132
240	-0.535630933	2.889593503	2.865077925	-0.511115356
241	-0.567208022	2.921170591	2.942841372	-0.588878803

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
242	-0.515252967	2.869215536	2.93941762	-0.585455051
243	-0.393336628	2.747299197	2.843539124	-0.489576555
244	-0.229859704	2.583822273	2.675587186	-0.321624617
245	-0.055125349	2.409087918	2.487583146	-0.133620577
246	0.109407866	2.244554703	2.317419362	0.036543207
247	0.248576329	2.10538624	2.16581996	0.188142609
248	0.358304242	1.995658327	2.032261001	0.321701568
249	0.440546703	1.913415866	1.93457162	0.419390949
250	0.501064597	1.852897972	1.875183571	0.478778998
251	0.54229979	1.811662779	1.829492185	0.524470384
252	0.556072071	1.797890498	1.787252491	0.566710078
253	0.511962177	1.842000392	1.777750969	0.5762116
254	0.386403587	1.967558982	1.848912348	0.505050221
255	0.173576772	2.180385797	2.02534139	0.328621179
256	-0.104310348	2.458272917	2.289634679	0.064327891
257	-0.369736229	2.723698798	2.601721318	-0.247758749
258	-0.536110479	2.890073048	2.879636962	-0.525674393
259	-0.545873451	2.89983602	3.00125331	-0.647290741
260	-0.407974145	2.761936714	2.904703018	-0.550740449
261	-0.19642884	2.550391409	2.660451726	-0.306489157
262	-0.005755959	2.359718528	2.409872304	-0.055909735
263	0.112824844	2.241137725	2.250701331	0.103261238
264	0.137410459	2.21655211	2.189417634	0.164544935
265	0.097332769	2.2566298	2.203556499	0.15040607
266	0.040243371	2.313719198	2.278536364	0.075426205
267	0.007945614	2.346016955	2.360244841	-0.006282272
268	0.01035051	2.343612059	2.375436866	-0.021474297

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
269	0.037447964	2.316514605	2.325948991	0.028013578
270	0.074850058	2.279112511	2.282129561	0.071833008
271	0.099085792	2.254876777	2.266130484	0.087832085
272	0.084659027	2.269303542	2.248052755	0.105909814
273	0.028812686	2.325149884	2.254604924	0.099357645
274	-0.050495995	2.404458564	2.341329444	0.012633125
275	-0.129953414	2.483915983	2.467475362	-0.113512793
276	-0.188469387	2.542431956	2.53972652	-0.185763951
277	-0.20812332	2.562085889	2.553647032	-0.199684463
278	-0.182665522	2.536628091	2.560177255	-0.206214686
279	-0.125728238	2.479690807	2.540227849	-0.18626528
280	-0.054008484	2.407971053	2.452906482	-0.098943913
281	0.018668934	2.335293636	2.346063792	0.007898777
282	0.086953078	2.267009491	2.288381602	0.065580967
283	0.146027745	2.207934824	2.252775701	0.101186868
284	0.191182981	2.162779588	2.183701088	0.170261481
285	0.219950828	2.134011741	2.116259774	0.237702795
286	0.23255003	2.121412539	2.110336884	0.243625685
287	0.228913778	2.125048792	2.134614606	0.219347963
288	0.208257199	2.14570537	2.13188213	0.222080439
289	0.172251964	2.181710605	2.132831721	0.221130848
290	0.122880294	2.231082275	2.191063095	0.162899474
291	0.06199853	2.291964039	2.273755468	0.080207101
292	-0.008354348	2.362316917	2.326087534	0.027875035
293	-0.085965483	2.439928053	2.375532233	-0.021569664
294	-0.167059483	2.521022052	2.470180844	-0.116218275
295	-0.243190993	2.597153562	2.577974747	-0.224012178

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
296	-0.297095335	2.651057904	2.641055722	-0.287093153
297	-0.288930305	2.642892874	2.664692183	-0.310729614
298	-0.19917854	2.553141109	2.647796347	-0.293833778
299	-0.04610932	2.400071889	2.527895721	-0.173933152
300	0.106901994	2.247060575	2.305664656	0.048297913
301	0.19865065	2.155311919	2.121312448	0.232650121
302	0.212901866	2.141060703	2.095689186	0.258273383
303	0.164349639	2.18961293	2.169711834	0.184250735
304	0.095944772	2.258017797	2.229016314	0.124946255
305	0.046395969	2.3075666	2.273028703	0.080933866
306	0.012362787	2.341599782	2.331163178	0.022799391
307	-0.018295926	2.372258495	2.370412826	-0.016450257
308	-0.052281818	2.406244387	2.378049909	-0.02408734
309	-0.08941417	2.443376739	2.403789333	-0.049826763
310	-0.113243103	2.467205672	2.465966425	-0.112003856
311	-0.106113	2.460075569	2.500610808	-0.146648239
312	-0.062209151	2.41617172	2.456948338	-0.102985769
313	-0.004130253	2.358092822	2.373311317	-0.019348748
314	0.040859567	2.313103002	2.315104101	0.038858468
315	0.059027083	2.294935486	2.294549332	0.059413237
316	0.05885829	2.295104279	2.289009487	0.064953082
317	0.053945345	2.300017224	2.291452977	0.062509592
318	0.058633126	2.295329443	2.301797509	0.05216506
319	0.083309886	2.270652683	2.299471268	0.054491301
320	0.11950811	2.234454459	2.260512298	0.093450271
321	0.132983734	2.220978835	2.203077971	0.150884598
322	0.094021651	2.259940918	2.19225687	0.161705699

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
323	0.004557011	2.349405558	2.273042284	0.080920285
324	-0.113463082	2.467425651	2.409792401	-0.055829832
325	-0.219593127	2.573555696	2.535876901	-0.181914332
326	-0.268463756	2.622426325	2.623971833	-0.270009264
327	-0.233517361	2.58747993	2.653740772	-0.299778203
328	-0.134949688	2.488912257	2.58147578	-0.227513211
329	-0.009182532	2.363145101	2.4214086	-0.067446031
330	0.110017091	2.243945478	2.270795885	0.083166684
331	0.198849418	2.155113151	2.184492089	0.16947048
332	0.240424735	2.113537834	2.125751235	0.228211334
333	0.226144652	2.127817917	2.081839098	0.272123471
334	0.167078557	2.186884012	2.112452509	0.241510061
335	0.082574509	2.27138806	2.22687092	0.127091649
336	-0.008292463	2.362255032	2.33834169	0.015620879
337	-0.08754336	2.441505929	2.400541878	-0.046579309
338	-0.138391077	2.492353646	2.460019074	-0.106056505
339	-0.146299905	2.500262474	2.527026651	-0.173064082
340	-0.110227253	2.464189822	2.526697948	-0.172735379
341	-0.051920915	2.405883484	2.434368812	-0.080406243
342	0.002312727	2.351649842	2.342101477	0.011861092
343	0.030318536	2.323644033	2.320385703	0.033576866
344	0.022077173	2.331885396	2.328674114	0.025288455
345	-0.012917561	2.36688013	2.330906796	0.023055773
346	-0.044649827	2.398612396	2.365795409	-0.01183284
347	-0.042330029	2.396292598	2.428693534	-0.074730965
348	0.003526331	2.350436238	2.423369878	-0.069407309
349	0.074311473	2.279651096	2.315442744	0.038519825

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
350	0.130466512	2.223496057	2.206154893	0.147807676
351	0.137948796	2.216013773	2.185493602	0.168468967
352	0.086992846	2.266969723	2.228658686	0.125303883
353	-0.00964277	2.363605339	2.29208467	0.061877899
354	-0.122457055	2.476419624	2.395975557	-0.042012988
355	-0.21591314	2.569875709	2.540240241	-0.186277672
356	-0.25882937	2.612791939	2.642036439	-0.28807387
357	-0.234783344	2.588745913	2.636458166	-0.282495597
358	-0.143559527	2.497522096	2.556343086	-0.202380517
359	-0.002735126	2.356697695	2.447679709	-0.09371714
360	0.151192076	2.202770493	2.296515574	0.057446995
361	0.279634899	2.07432767	2.11220927	0.241753299
362	0.346030628	2.007931941	1.981358248	0.372604321
363	0.326528179	2.02743439	1.96831532	0.385647249
364	0.244072309	2.10989026	2.049207926	0.304754643
365	0.133080755	2.220881814	2.162534341	0.191428228
366	0.02637815	2.327584419	2.274821273	0.079141296
367	-0.051480763	2.405443332	2.379111195	-0.025149381
368	-0.092752049	2.446714618	2.451512786	-0.097550217
369	-0.107476996	2.461439565	2.467522974	-0.113560405
370	-0.112332526	2.466295095	2.452556437	-0.098593868
371	-0.118855558	2.472818127	2.456178661	-0.102216092
372	-0.133942871	2.48790544	2.481580213	-0.127617644
373	-0.158736243	2.512698812	2.499405503	-0.145442934
374	-0.184710402	2.538672971	2.514326238	-0.160363669
375	-0.199648712	2.553611281	2.546895322	-0.192932753
376	-0.191003693	2.544966262	2.572341112	-0.218378543

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
377	-0.151898525	2.505861094	2.546909539	-0.19294697
378	-0.085127981	2.43909055	2.47538515	-0.121422581
379	0.000217306	2.353745263	2.395700937	-0.041738368
380	0.0920767	2.261885869	2.315035409	0.03892716
381	0.170046932	2.183915637	2.217942019	0.13602055
382	0.209884264	2.144078305	2.129440853	0.224521716
383	0.198448405	2.155514164	2.107897186	0.246065383
384	0.141347652	2.212614917	2.165688457	0.188274112
385	0.056970886	2.296991684	2.25411789	0.099844679
386	-0.0195982	2.373560769	2.337688846	0.016273723
387	-0.051662142	2.405624711	2.410261748	-0.056299179
388	-0.022801011	2.37676358	2.435596927	-0.081634358
389	0.054230906	2.299731663	2.368182295	-0.014219726
390	0.137236688	2.216725881	2.239637527	0.114325042
391	0.18497015	2.16899242	2.147612072	0.206350497
392	0.178443717	2.175518852	2.143359739	0.21060283
393	0.121257877	2.232704692	2.192083925	0.161878644
394	0.026011687	2.327950882	2.259441517	0.094521052
395	-0.090152208	2.444114777	2.362584656	-0.008622087
396	-0.202202002	2.556164571	2.505122268	-0.151159699
397	-0.283069211	2.63703178	2.629384296	-0.275421727
398	-0.31108853	2.665051099	2.681055745	-0.327093176
399	-0.270460333	2.624422902	2.667671798	-0.313709229
400	-0.157360489	2.511323058	2.604574852	-0.250612283
401	0.00432365	2.349638919	2.465709972	-0.111747403
402	0.172829236	2.181133333	2.256657449	0.09730512
403	0.297538675	2.056423894	2.066700764	0.287261805

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
404	0.333255891	2.020706678	1.980849958	0.373112611
405	0.272413873	2.081548696	2.007374315	0.346588254
406	0.152594475	2.201368094	2.115885864	0.238076705
407	0.021727065	2.332235504	2.268199316	0.085763253
408	-0.081169485	2.435132054	2.409613647	-0.055651078
409	-0.134228539	2.488191108	2.491892448	-0.137929879
410	-0.154620173	2.508582742	2.508152083	-0.154189514
411	-0.168087641	2.52205021	2.500662305	-0.146699736
412	-0.183964499	2.537927068	2.518043882	-0.164081313
413	-0.189550777	2.543513346	2.553864676	-0.199902107
414	-0.166220693	2.520183262	2.558007212	-0.204044643
415	-0.092013948	2.445976517	2.505905233	-0.151942664
416	0.030978122	2.322984447	2.405647711	-0.051685142
417	0.162137049	2.19182552	2.26180573	0.092156839
418	0.258725586	2.095236983	2.109211029	0.24475154
419	0.281235437	2.072727132	2.024878281	0.329084288
420	0.202057966	2.151904603	2.055780351	0.298182218
421	0.0467375	2.307225069	2.193734865	0.160227705
422	-0.12556595	2.479528519	2.394788598	-0.040826029
423	-0.253186555	2.607149124	2.583339628	-0.229377059
424	-0.293106299	2.647068868	2.683338423	-0.329375854
425	-0.239798262	2.593760831	2.665123059	-0.31116049
426	-0.121588744	2.475551313	2.554654517	-0.200691948
427	0.019020003	2.334942567	2.403209557	-0.049246988
428	0.147377988	2.206584581	2.255470092	0.098492477
429	0.234146429	2.11981614	2.137663538	0.216299031
430	0.268899932	2.085062637	2.069517124	0.284445445

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
431	0.250425615	2.103536954	2.064403043	0.289559526
432	0.188254395	2.165708174	2.114667631	0.239294938
433	0.099515688	2.254446881	2.199209138	0.154753431
434	-0.008021128	2.361983697	2.299139169	0.0548234
435	-0.126616164	2.480578733	2.41048749	-0.056524921
436	-0.241228537	2.595191106	2.536123916	-0.182161347
437	-0.329918615	2.683881184	2.657441516	-0.303478947
438	-0.369603414	2.723565983	2.735470624	-0.381508055
439	-0.346982806	2.700945375	2.743992698	-0.390030129
440	-0.264569497	2.618532066	2.684870519	-0.33090795
441	-0.141202528	2.495165097	2.572923324	-0.218960755
442	-0.003636972	2.357599542	2.427576527	-0.073613958
443	0.121356363	2.232606206	2.279369118	0.074593451
444	0.208980431	2.144982138	2.16201001	0.191952559
445	0.244015999	2.10994657	2.096661834	0.257300735
446	0.232455671	2.121506899	2.090024386	0.263938183
447	0.189944532	2.164018037	2.13045164	0.223510929
448	0.135053644	2.218908925	2.190230366	0.163732203
449	0.087928491	2.266034078	2.247011017	0.106951552
450	0.061705	2.292257569	2.289395653	0.064566916
451	0.063953694	2.290008875	2.306371767	0.047590802
452	0.088481159	2.26548141	2.288725837	0.065236732
453	0.111970048	2.241992521	2.245920556	0.108042013
454	0.109423784	2.244538785	2.215914867	0.138047702
455	0.066754575	2.287207994	2.23686472	0.117097849
456	-0.022277353	2.376239922	2.310480416	0.043482153
457	-0.14393192	2.497894489	2.420054441	-0.066091872

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
458	-0.238595864	2.592558433	2.55618725	-0.202224681
459	-0.245248041	2.59921061	2.662197875	-0.308235306
460	-0.154046556	2.508009125	2.629319592	-0.275357023
461	-0.006017508	2.359980077	2.443591662	-0.089629093
462	0.124195453	2.229767116	2.24024127	0.113721299
463	0.180775154	2.173187415	2.146182453	0.207780116
464	0.149634924	2.204327645	2.159400013	0.194562556
465	0.047140987	2.306821582	2.226202385	0.127760184
466	-0.063232499	2.417195068	2.345596695	0.008365874
467	-0.1155745	2.469537069	2.489790074	-0.135827505
468	-0.080255373	2.434217942	2.533443789	-0.179481219
469	0.034430773	2.319531796	2.410654406	-0.056691837
470	0.177428049	2.17653452	2.220909926	0.133052644
471	0.267749188	2.086213381	2.085885258	0.268077311
472	0.264251849	2.08971072	2.040271232	0.313691337
473	0.155632213	2.198330356	2.08636381	0.267598759
474	-0.024977843	2.378940412	2.241595152	0.112367417
475	-0.226323614	2.580286183	2.481475666	-0.127513097
476	-0.394766991	2.74872956	2.706654123	-0.352691554
477	-0.484563708	2.838526277	2.838079849	-0.48411728
478	-0.479631907	2.833594476	2.873652172	-0.519689603
479	-0.386091973	2.740054542	2.829057585	-0.475095016
480	-0.221259912	2.575222481	2.697082027	-0.343119458
481	-0.01422357	2.368186139	2.485894913	-0.131932344
482	0.193247094	2.160715475	2.247909703	0.106052866
483	0.361057468	1.992905101	2.044757955	0.309204614
484	0.455845748	1.898116821	1.906321072	0.447641497

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
485	0.452410289	1.90155228	1.845378251	0.508584318
486	0.355727669	1.9982349	1.89040374	0.463558829
487	0.20217332	2.151789249	2.048267966	0.305694603
488	0.036150392	2.317812177	2.250781379	0.10318119
489	-0.096091306	2.450053875	2.412406353	-0.058443784
490	-0.160799902	2.514762471	2.509641927	-0.155679358
491	-0.165691141	2.51965371	2.546235663	-0.192273094
492	-0.134372496	2.488335065	2.520120924	-0.166158355
493	-0.087527038	2.441489607	2.458645424	-0.104682855
494	-0.040831946	2.394794515	2.406922809	-0.05296024
495	-0.005835015	2.359797584	2.374251562	-0.020288993
496	0.0190145	2.334948069	2.344107025	0.009855544
497	0.039331009	2.31463156	2.317084709	0.03687786
498	0.060734012	2.293228557	2.301849806	0.052112763
499	0.085128116	2.268834453	2.286874755	0.067087814
500	0.103909188	2.250053381	2.256645323	0.097317246
501	0.105455581	2.248506988	2.228921015	0.125041554
502	0.078163123	2.275799447	2.238287335	0.115675234
503	0.014773224	2.339189345	2.290478908	0.063483661
504	-0.074949282	2.428911851	2.370840965	-0.016878396
505	-0.175358535	2.529321104	2.471078074	-0.117115504
506	-0.268009971	2.62197254	2.580231764	-0.226269195
507	-0.328782804	2.682745373	2.672884994	-0.318922425
508	-0.339632719	2.693595288	2.717825156	-0.363862587
509	-0.291760812	2.645723381	2.698274833	-0.344312264
510	-0.195017781	2.54898035	2.617999594	-0.264037025
511	-0.068069008	2.422031577	2.494436209	-0.14047364

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
512	0.069707601	2.284254968	2.352016354	0.001946215
513	0.200882105	2.153080464	2.211254834	0.142707735
514	0.30858527	2.045377299	2.084734949	0.26922762
515	0.378503371	1.975459198	1.986356589	0.36760598
516	0.397165165	1.956797404	1.934492805	0.419469764
517	0.352339582	2.001622987	1.942985621	0.410976949
518	0.239773895	2.114188674	2.019373385	0.334589184
519	0.068215773	2.285746796	2.166366176	0.187596393
520	-0.144770045	2.498732614	2.372100529	-0.01813796
521	-0.369484422	2.723446991	2.608123514	-0.254160945
522	-0.563826997	2.917789566	2.839354827	-0.485392258
523	-0.684178467	3.038141036	3.022580235	-0.668617666
524	-0.696955059	3.050917628	3.107566877	-0.753604308
525	-0.592018959	2.945981528	3.060403776	-0.706441207
526	-0.378031058	2.731993627	2.886837041	-0.532874472
527	-0.081064116	2.435026685	2.618167635	-0.264205066
528	0.258956487	2.095006082	2.283200378	0.070762191
529	0.604204342	1.749758227	1.916808378	0.437154191
530	0.921211144	1.432751425	1.567349423	0.786613147
531	1.171476889	1.18248568	1.27104763	1.082914939
532	1.32239588	1.031566689	1.052146268	1.301816301
533	1.353962569	1	0.945362797	1.408599772
534	1.265124141	1.088838428	0.978636919	1.375325651
535	1.071187745	1.282774824	1.138999515	1.214963054
536	0.788138644	1.565823925	1.3855477	0.968414869
537	0.431281904	1.922680665	1.700096119	0.65386645
538	0.013877717	2.340084852	2.09111239	0.262850179

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
539	-0.441831593	2.795794162	2.548104389	-0.19414182
540	-0.893946287	3.247908856	3.028162676	-0.674200107
541	-1.277325584	3.631288153	3.478263233	-1.124300664
542	-1.533145657	3.887108226	3.83434158	-1.480379011
543	-1.624136323	3.978098892	4.026129926	-1.672167357
544	-1.560807259	3.914769828	4.021417572	-1.667455003
545	-1.372454859	3.726417428	3.862141699	-1.50817913
546	-1.106761634	3.460724203	3.618258865	-1.264296296
547	-0.813291244	3.167253813	3.325321719	-0.97135915
548	-0.528936822	2.882899391	3.0115805	-0.657617931
549	-0.277433587	2.631396156	2.727215886	-0.373253317
550	-0.066010579	2.419973148	2.504157991	-0.150195422
551	0.124631945	2.229330624	2.324421325	0.029541244
552	0.31624185	2.037720719	2.145200424	0.208762145
553	0.526236107	1.827726462	1.943533061	0.410429508
554	0.760820442	1.593142127	1.722100139	0.63186243
555	1.004021015	1.349941555	1.479991295	0.873971274
556	1.209240534	1.144722035	1.224683653	1.129278917
557	1.32463915	1.029323419	1.018783134	1.335179435
558	1.303346887	1.050615682	0.95131936	1.402643209
559	1.113260622	1.240701947	1.058820426	1.295142143
560	0.787923802	1.566038768	1.333156126	1.020806443
561	0.393623381	1.960339189	1.736624869	0.6173377
562	0.000616073	2.353346496	2.178837587	0.175124982
563	-0.327572213	2.681534782	2.562419456	-0.208456887
564	-0.54962484	2.903587409	2.843141454	-0.489178885
565	-0.637378311	2.99134088	3.012016487	-0.658053918

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
566	-0.593680788	2.947643357	3.043705811	-0.689743242
567	-0.459782991	2.81374556	2.922777956	-0.568815387
568	-0.28603543	2.639997999	2.717272834	-0.363310265
569	-0.113930286	2.467892855	2.531469512	-0.177506943
570	0.027825971	2.326136598	2.389929942	-0.035967373
571	0.116682411	2.237280158	2.261475962	0.092486607
572	0.14566483	2.208297739	2.172568635	0.181393934
573	0.115341803	2.238620766	2.181372455	0.172590114
574	0.03258693	2.321375639	2.268749345	0.085213224
575	-0.093841316	2.447803885	2.371866569	-0.017904
576	-0.251428563	2.605391132	2.493668739	-0.13970617
577	-0.420172431	2.774135	2.673194843	-0.319232274
578	-0.563752443	2.917715012	2.875745498	-0.521782929
579	-0.640897473	2.994860042	3.008798859	-0.65483629
580	-0.620733492	2.974696061	3.029611215	-0.675648646
581	-0.51577179	2.869734359	2.956203279	-0.60224071
582	-0.356801643	2.710764212	2.812375949	-0.45841338
583	-0.175457336	2.529419905	2.623614234	-0.269651665
584	0.002726644	2.351235925	2.428156773	-0.074194204
585	0.161715126	2.192247443	2.257353446	0.096609123
586	0.310673754	2.043288815	2.115104595	0.238857974
587	0.463355756	1.890606813	1.977666087	0.376296482
588	0.584772504	1.769190065	1.818857216	0.535105353
589	0.624945299	1.72901727	1.683126423	0.670836146
590	0.558605524	1.795357045	1.678657756	0.675304813
591	0.379204796	1.974757773	1.83594578	0.518016789
592	0.094864573	2.259097996	2.082511039	0.27145153

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
593	-0.238202658	2.592165227	2.387426175	-0.033463606
594	-0.524509555	2.878472124	2.755908736	-0.401946167
595	-0.661598754	3.015561323	3.068542493	-0.714579924
596	-0.580226058	2.934188627	3.127080226	-0.773117657
597	-0.339451015	2.693413584	2.87856038	-0.524597811
598	-0.030575604	2.384538173	2.504875791	-0.150913222
599	0.256039981	2.097922588	2.203921905	0.150040664
600	0.440378415	1.913584154	1.97956981	0.374392759
601	0.469200106	1.884762463	1.809218247	0.544744322
602	0.321778775	2.032183794	1.818579066	0.535383503
603	0.081918391	2.272044178	2.100616719	0.25334585
604	-0.145253757	2.499216326	2.471625326	-0.117662757
605	-0.306808739	2.660771308	2.658205738	-0.304243169
606	-0.38056562	2.734528189	2.682405183	-0.328442614
607	-0.369546378	2.723508947	2.732184277	-0.378221708
608	-0.291922661	2.64588523	2.768411352	-0.414448783
609	-0.16332963	2.517292199	2.632984251	-0.279021682
610	0.001145908	2.352816661	2.39611941	-0.042156841
611	0.180794648	2.173167921	2.23844461	0.115517959
612	0.348973772	2.004988797	2.128095709	0.22586686
613	0.475021801	1.878940768	1.939270482	0.414692087
614	0.529828536	1.824134033	1.758332411	0.595630158
615	0.490126765	1.863835804	1.763446786	0.590515783
616	0.356660516	1.997302053	1.923279095	0.430683474
617	0.156184272	2.197778297	2.08947255	0.264490019
618	-0.078849521	2.43281209	2.264471503	0.089491066
619	-0.312994398	2.666956967	2.53176435	-0.177801781

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
620	-0.503474513	2.857437082	2.822710909	-0.46874834
621	-0.607077504	2.961040073	2.981268244	-0.627305675
622	-0.593938066	2.947900635	2.988947746	-0.634985177
623	-0.476550196	2.830512765	2.923461179	-0.56949861
624	-0.277382512	2.631345082	2.786438946	-0.432476377
625	-0.022860228	2.376822797	2.538159388	-0.184196819
626	0.240583473	2.113379096	2.224859746	0.129102823
627	0.455041328	1.898921241	1.955928236	0.398034333
628	0.560855677	1.793106892	1.789357437	0.564605132
629	0.513498438	1.840464131	1.735640451	0.618322118
630	0.336389767	2.017572802	1.84081416	0.51314841
631	0.096908053	2.257054516	2.113933925	0.240028644
632	-0.129832205	2.483794774	2.421548499	-0.06758593
633	-0.2682868	2.622249369	2.615835442	-0.261872873
634	-0.259307229	2.613269798	2.676976331	-0.323013762
635	-0.113190601	2.46715317	2.61480563	-0.260843061
636	0.074083972	2.279878597	2.402121812	-0.048159243
637	0.217977179	2.13598539	2.135176795	0.218785774
638	0.268107165	2.085855404	2.015749967	0.338212602
639	0.211832277	2.142130292	2.082973124	0.270989445
640	0.096614034	2.257348535	2.205187651	0.148774918
641	-0.02385666	2.377819229	2.309770685	0.044191884
642	-0.12883555	2.482798119	2.423363119	-0.06940055
643	-0.211665513	2.565628082	2.543298715	-0.189336146
644	-0.267954118	2.621916687	2.617775126	-0.263812556
645	-0.293546547	2.647509116	2.638604399	-0.28464183
646	-0.283734711	2.63769728	2.646819477	-0.292856908

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
647	-0.23544918	2.589411749	2.641563994	-0.287601425
648	-0.150954881	2.50491745	2.576183816	-0.222221247
649	-0.038567784	2.392530353	2.450830909	-0.09686834
650	0.087071607	2.266890962	2.320425342	0.033537227
651	0.199849123	2.154113446	2.207362076	0.146600493
652	0.273657369	2.0803052	2.099324109	0.25463846
653	0.291842122	2.062120447	2.025917433	0.328045136
654	0.250505047	2.103457523	2.04038461	0.31357796
655	0.169585163	2.184377406	2.134274431	0.219688138
656	0.075083565	2.278879005	2.240658956	0.113303613
657	-0.013237035	2.367199604	2.322635027	0.031327542
658	-0.083854801	2.43781737	2.399476817	-0.045514248
659	-0.139617224	2.493579793	2.476017094	-0.122054525
660	-0.188936626	2.542899195	2.525750521	-0.171787952
661	-0.232505969	2.586468538	2.555182768	-0.201220199
662	-0.254753101	2.60871567	2.598281255	-0.244318686
663	-0.240044749	2.594007318	2.633961732	-0.279999163
664	-0.187009247	2.540971816	2.599408309	-0.24544574
665	-0.103174506	2.457137075	2.498446369	-0.1444838
666	0.002736764	2.351225805	2.397145476	-0.043182907
667	0.120824164	2.233138405	2.307741483	0.046221086
668	0.233210136	2.120752433	2.185467307	0.168495262
669	0.317376286	2.036586283	2.045943568	0.308019001
670	0.350241226	2.003721343	1.971348029	0.382614541
671	0.315262103	2.038700466	1.991295067	0.362667502
672	0.222656516	2.131306053	2.065981169	0.2879814
673	0.09556317	2.258399399	2.172749788	0.181212781

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
674	-0.041309174	2.395271743	2.316697391	0.037265178
675	-0.163319551	2.51728212	2.472699004	-0.118736435
676	-0.25061322	2.604575789	2.587753162	-0.233790593
677	-0.302168181	2.65613075	2.642501145	-0.288538576
678	-0.321682175	2.675644744	2.667510756	-0.313548187
679	-0.312941708	2.666904277	2.683947706	-0.329985137
680	-0.281266049	2.635228618	2.669985357	-0.316022788
681	-0.232789887	2.586752456	2.614371709	-0.26040914
682	-0.16909293	2.523055499	2.549100092	-0.195137523
683	-0.088606668	2.442569237	2.492316533	-0.138353964
684	0.003354261	2.350608308	2.413471835	-0.059509266
685	0.095215969	2.2587466	-0.000498441	-0.000498441
686	0.174270237	2.179692332	0.135995413	0.135995413
687	0.229435423	2.124527146	0.213165251	0.213165251
688	0.256129755	2.097832814	0.242637048	0.242637048
689	0.254105497	2.099857072	0.253072765	0.253072765
690	0.223730983	2.130231586	0.250433475	0.250433475
691	0.167018581	2.186943988	0.212380366	0.212380366
692	0.093132921	2.260829648	0.136498295	0.136498295
693	0.013124361	2.340838208	0.051767031	0.051767031
694	-0.062496065	2.416458635	-0.023788076	-0.023788076
695	-0.126032368	2.479994937	-0.091306388	-0.091306388
696	-0.171891165	2.525853734	-0.152398768	-0.152398768
697	-0.195137833	2.549100402	-0.192322014	-0.192322014
698	-0.192067598	2.546030167	-0.20159362	-0.20159362
699	-0.163203644	2.517166213	-0.184094067	-0.184094067
700	-0.113919411	2.46788198	-0.145852793	-0.145852793

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
701	-0.05073197	2.404694539	-0.089158856	-0.089158856
702	0.01917429	2.334788279	-0.01921471	-0.01921471
703	0.085591278	2.268371291	0.052717609	0.052717609
704	0.136213753	2.217748816	0.115852801	0.115852801
705	0.159017689	2.19494488	0.158696932	0.158696932
706	0.146604122	2.207358447	0.169040198	0.169040198
707	0.102656059	2.25130651	0.138931639	0.138931639
708	0.038512549	2.31545002	0.076355191	0.076355191
709	-0.031339531	2.3853021	0.002933021	0.002933021
710	-0.092087171	2.44604974	-0.064785185	-0.064785185
711	-0.130187398	2.484149967	-0.118906615	-0.118906615
712	-0.136654269	2.490616838	-0.148595807	-0.148595807
713	-0.11330859	2.467271159	-0.13975624	-0.13975624
714	-0.06993588	2.423898449	-0.095948945	-0.095948945
715	-0.018012628	2.371975197	-0.041338558	-0.041338558
716	0.031813347	2.322149222	0.007454174	0.007454174
717	0.072503778	2.281458791	0.052037696	0.052037696
718	0.098210057	2.255752512	0.091571512	0.091571512
719	0.107122041	2.246840528	0.112200971	0.112200971
720	0.097942058	2.256020511	0.107587274	0.107587274
721	0.066836385	2.287126184	0.087805822	0.087805822
722	0.016875715	2.337086854	0.05403758	0.05403758
723	-0.045559227	2.399521796	-0.00396183	-0.00396183
724	-0.110590147	2.464552716	-0.078479354	-0.078479354
725	-0.154612191	2.50857476	-0.144194995	-0.144194995
726	-0.151211605	2.505174175	-0.176859795	-0.176859795
727	-0.082566836	2.436529405	-0.152936267	-0.152936267

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
728	0.038544804	2.315417765	-0.05353982	-0.05353982
729	0.179209838	2.174752731	0.103758364	0.103758364
730	0.293466204	2.060496365	0.257722175	0.257722175
731	0.33638308	2.017579489	0.349820901	0.349820901
732	0.289923023	2.064039546	0.35240979	0.35240979
733	0.16722206	2.186740509	0.261262231	0.261262231
734	-0.002731232	2.356693801	0.098040805	0.098040805
735	-0.188731242	2.542693811	-0.093006081	-0.093006081
736	-0.359264145	2.713226714	-0.275517337	-0.275517337
737	-0.482080516	2.836043085	-0.43191225	-0.43191225
738	-0.535570647	2.889533216	-0.536631219	-0.536631219
739	-0.523174526	2.877137095	-0.554831222	-0.554831222
740	-0.458522285	2.812484855	-0.49370551	-0.49370551
741	-0.356509774	2.710472343	-0.403028294	-0.403028294
742	-0.229862372	2.583824941	-0.303114145	-0.303114145
743	-0.089170895	2.443133464	-0.17239799	-0.17239799
744	0.059686393	2.294276176	-0.013429626	-0.013429626
745	0.212568128	2.141394441	0.136984213	0.136984213
746	0.365421613	1.988540956	0.271846307	0.271846307
747	0.512993712	1.840968858	0.418776006	0.418776006
748	0.644600852	1.709361718	0.575847647	0.575847647
749	0.746470079	1.60749249	0.700918678	0.700918678
750	0.804642344	1.549320225	0.772619733	0.772619733
751	0.80974154	1.544221029	0.805107641	0.805107641
752	0.766316382	1.587646187	0.796826013	0.796826013
753	0.684497094	1.669465475	0.729155607	0.729155607
754	0.57499819	1.778964379	0.61761866	0.61761866

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
755	0.44863088	1.905331689	0.500318586	0.500318586
756	0.316494851	2.037467718	0.382769296	0.382769296
757	0.189760177	2.164202392	0.24899713	0.24899713
758	0.079596933	2.274365636	0.114910572	0.114910572
759	-0.002824806	2.356787376	0.017590781	0.017590781
760	-0.046334968	2.400297537	-0.037080373	-0.037080373
761	-0.037080373			-0.037562185
762	-0.037562185			-0.018704241
763	-0.018704241			0.00915865
764	0.00915865			0.036507261
765	0.036507261			0.063351085
766	0.063351085			0.089699439
767	0.089699439			0.115561467
768	0.115561467			0.140946147
769	0.140946147			0.165862289
770	0.165862289			0.19031854
771	0.19031854			0.21432339
772	0.21432339			0.23788517
773	0.23788517			0.261012058
774	0.261012058			0.283712082
775	0.283712082			0.305993119
776	0.305993119			0.327862904
777	0.327862904			0.349329026
778	0.349329026			0.370398938
779	0.370398938			0.391079951
780	0.391079951			0.411379245
781	0.411379245			0.431303863

Periode per-hari	IMF3	IMF3Reverse	Peramalan IMF 3	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
782	0.431303863			0.450860723
783	0.450860723			0.470056612
784	0.470056612			0.488898192
785	0.488898192			0.507392004
786	0.507392004			0.525544466
787	0.525544466			0.543361879
788	0.543361879			0.560850426
789	0.560850426			0.578016178
790	0.578016178			0.594865093
791	0.594865093			0.611403019

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Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
1	-0.1862287	2.643339509		
2	-0.0864789	2.543589731	2.64229616	-0.18518530615487
3	-0.0245317	2.481642566	2.54258576	-0.08547490106690
4	0.00382723	2.453283624	2.48066304	-0.02355218608499
5	0.00281234	2.454298518	2.45231529	0.00479556243768
6	-0.023362	2.480472863	2.45332979	0.00378106814797
7	-0.0704814	2.52759227	2.47949380	-0.02238294530730
8	-0.1343315	2.591442353	2.52659461	-0.06948375428128
9	-0.2106955	2.667806329	2.59041949	-0.13330863512715
10	-0.2953323	2.752443118	2.66675333	-0.20964246892860
11	-0.3839395	2.841050369	2.75135671	-0.29424585189188
12	-0.4722	2.929310854	2.83992899	-0.38281812880388
13	-0.5558027	3.0129136	2.92815463	-0.47104377684541
14	-0.6305506	3.087661439	3.01172438	-0.55461352359431
15	-0.6928259	3.149936777	3.08644272	-0.62933185994259
16	-0.7399851	3.197095919	3.14869347	-0.69158261676565
17	-0.769646	3.226756817	3.19583400	-0.73872314541124
18	-0.7794775	3.236588327	3.22548319	-0.76837233569057
19	-0.7676034	3.224714252	3.23531082	-0.77819996534562
20	-0.7338048	3.190915702	3.22344143	-0.76633057632514
21	-0.6796189	3.13672978	3.18965622	-0.73254536757729
22	-0.6071561	3.064266973	3.13549169	-0.67838083329090
23	-0.5189808	2.976091619	3.06305748	-0.60594662793649
24	-0.4179373	2.875048204	2.97491693	-0.51780607667097
25	-0.3066878	2.763798612	2.87391340	-0.41680254489271

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
26	-0.1875357	2.644646566	2.76270772	-0.30559686320389
27	-0.0628387	2.519949597	2.64360270	-0.18649184775599
28	0.06461957	2.392491286	2.51895495	-0.06184409743265
29	0.19144443	2.265666432	2.39154695	0.06556390471766
30	0.31392351	2.143187348	2.26477216	0.19233870017736
31	0.42831902	2.028791835	2.14234142	0.31476944069872
32	0.53095444	1.926156422	2.02799106	0.42911980046763
33	0.61861081	1.838500049	1.92539615	0.53171470347200
34	0.68916434	1.76794652	1.83777438	0.61933647746322
35	0.74037881	1.716732052	1.76724870	0.68986215870461
36	0.76993634	1.687174514	1.71605445	0.74105641196651
37	0.77546594	1.681644913	1.68650857	0.77060228332999
38	0.75454109	1.70256977	1.68098116	0.77612970114922
39	0.70536667	1.751744183	1.70189775	0.75521310365684
40	0.62919777	1.827913089	1.75105276	0.70605810009046
41	0.53027299	1.926837871	1.82719160	0.62991925856017
42	0.41361513	2.043495726	1.92607733	0.53103352253407
43	0.28437068	2.17274018	2.04268914	0.41442171333329
44	0.14788036	2.30923305	2.17188258	0.28522827319148
45	0.01011479	2.446996073	2.30831903	0.14879182743590
46	-0.1221136	2.579224446	2.44603023	0.01108063156714
47	-0.2416268	2.698737681	2.57820641	-0.12109555077909
48	-0.3415224	2.798633238	2.69767247	-0.24056161274434
49	-0.4164939	2.873604793	2.79752860	-0.34041774012213
50	-0.4638009	2.920911742	2.87247056	-0.41535970310099
51	-0.4835675	2.940678363	2.91975884	-0.46264797951126
52	-0.4775732	2.934684097	2.93951766	-0.48240679895334

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
53	-0.4486418	2.90575265	2.93352576	-0.47641489912464
54	-0.4011854	2.858296302	2.90460573	-0.44749487134963
55	-0.3407319	2.797842727	2.85716811	-0.40005725443266
56	-0.2731125	2.730223331	2.79673840	-0.33962754148449
57	-0.2043401	2.661450918	2.72914569	-0.27203483476536
58	-0.1405307	2.597641581	2.66040042	-0.20328956716540
59	-0.0869489	2.544059799	2.59661627	-0.13950541589568
60	-0.0473177	2.50442858	2.54305564	-0.08594478259299
61	-0.0249292	2.482040106	2.50344006	-0.04632920689683
62	-0.0215593	2.478670157	2.48106043	-0.02394957003158
63	-0.034167	2.491277838	2.47769181	-0.02058095117843
64	-0.0561903	2.513301151	2.49029451	-0.03318365584262
65	-0.0803058	2.537416695	2.51230913	-0.05519827537350
66	-0.0992209	2.55633172	2.53641516	-0.07930430088036
67	-0.106694	2.563804829	2.55532272	-0.09821186053412
68	-0.1002632	2.557374041	2.56279288	-0.10568201914504
69	-0.0798545	2.536965374	2.55636463	-0.09925376998440
70	-0.0459402	2.50305103	2.53596402	-0.07885315861113
71	0.0008751	2.456235757	2.50206306	-0.04495220085616
72	0.0593408	2.397770054	2.45526626	0.00184459372426
73	0.12574457	2.331366286	2.39682364	0.06028722055029
74	0.19416487	2.262945989	2.33044608	0.12666477855572
75	0.25822482	2.198886041	2.26205279	0.19505806959811
76	0.3115355	2.145575357	2.19801812	0.25909273270547
77	0.34769585	2.109415006	2.14472848	0.31238237434550
78	0.36041839	2.096692472	2.10858241	0.34852845199769
79	0.3456965	2.111414359	2.09586489	0.36124596457288

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
80	0.3067752	2.150335656	2.11058097	0.34652988849858
81	0.24950495	2.207605906	2.14948690	0.30762395397517
82	0.17993064	2.277180217	2.20673455	0.25037630872480
83	0.10410633	2.353004525	2.27628140	0.18082945977279
84	0.02802532	2.429085536	2.35207578	0.10503507990670
85	-0.0425874	2.499698237	2.42812676	0.02898409875747
86	-0.1021858	2.55929662	2.49871159	-0.04160073084503
87	-0.1462218	2.603332667	2.55828645	-0.10117558947814
88	-0.1730345	2.630145327	2.60230511	-0.14519425534858
89	-0.1832744	2.640385281	2.62910719	-0.17199633219236
90	-0.1780462	2.635157041	2.63934310	-0.18223224418880
91	-0.1582346	2.615345419	2.63411692	-0.17700606783152
92	-0.124945	2.582055859	2.61431312	-0.15720226642278
93	-0.0812447	2.538355556	2.58103670	-0.12392584571189
94	-0.032468	2.4895789	2.53735365	-0.08024279156297
95	0.01518491	2.441925944	2.48859625	-0.03148538850233
96	0.05559928	2.401511574	2.44096210	0.01614875862289
97	0.08381193	2.373298932	2.40056368	0.05654717691421
98	0.09706272	2.360048136	2.37236217	0.08474868321768
99	0.09403341	2.363077447	2.35911661	0.09799424931438
100	0.07406299	2.383047864	2.36214472	0.09496613381860
101	0.0374477	2.419663161	2.38210726	0.07500359955843
102	-0.0134857	2.470596569	2.41870810	0.03840275497922
103	-0.0744312	2.531542018	2.46962141	-0.01251054997381
104	-0.1402941	2.597404959	2.53054280	-0.07343194292568
105	-0.2058125	2.662923403	2.59637974	-0.13926888713620
106	-0.2658607	2.722971578	2.66187233	-0.20476147046897

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
107	-0.3161427	2.773253528	2.72189680	-0.26478594409888
108	-0.3540124	2.811123246	2.77215890	-0.31504804749704
109	-0.3778275	2.834938318	2.81001367	-0.35290281781176
110	-0.38615	2.843260878	2.83381935	-0.37670849014976
111	-0.3776549	2.834765728	2.84213862	-0.38502776567345
112	-0.3515162	2.808627016	2.83364682	-0.37653596788326
113	-0.3080035	2.765114327	2.80751843	-0.35040757312894
114	-0.2485545	2.70566538	2.76402292	-0.30691205943774
115	-0.1754362	2.63254702	2.70459743	-0.24748657734284
116	-0.0915044	2.548615212	2.63150793	-0.17439707732110
117	-0.0001264	2.457237213	2.54760926	-0.09049839836609
118	0.0950211	2.362089757	2.45626732	0.00084353382090
119	0.19009934	2.267011515	2.36115742	0.09595343404283
120	0.28137479	2.175736068	2.26611671	0.19099414834629
121	0.36535802	2.091752834	2.17487729	0.28223356820953
122	0.43864304	2.018467817	2.09092720	0.36618365320253
123	0.49788202	1.959228839	2.01767111	0.43943974382704
124	0.53975803	1.917352826	1.95845552	0.49865534015672
125	0.56097235	1.896138511	1.91659603	0.54051482435530
126	0.55821187	1.898898987	1.89539009	0.56172076594484
127	0.52802857	1.929082285	1.89814948	0.55896137919460
128	0.46810358	1.989007275	1.92832086	0.52878999444334
129	0.38102553	2.076085329	1.98822220	0.4688865787681
130	0.27313278	2.183978074	2.07526588	0.38184497416568
131	0.15143711	2.305673751	2.18311604	0.27399481478492
132	0.02294988	2.434160975	2.30476368	0.15234717245376
133	-0.1053617	2.562472585	2.43320019	0.02391066338948

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
134	-0.2267712	2.683882016	2.56146116	-0.10435030144792
135	-0.3351676	2.792278411	2.68282267	-0.22571181159585
136	-0.4261704	2.883281275	2.79117628	-0.33406542086355
137	-0.4975416	2.954652415	2.88214322	-0.42503236630478
138	-0.5486726	3.005783466	2.95348619	-0.49637533556653
139	-0.5804791	3.037589922	3.00459706	-0.54748620438038
140	-0.5940033	3.051114127	3.03639096	-0.57928010629173
141	-0.5895546	3.046665458	3.04990983	-0.59279897259077
142	-0.5669509	3.024061735	3.04546292	-0.58835205975815
143	-0.5264392	2.983550067	3.02286812	-0.56575725871938
144	-0.4696681	2.926778998	2.98237244	-0.52526158104858
145	-0.3984044	2.855515211	2.92562378	-0.46851291983976
146	-0.3144524	2.771563248	2.85438812	-0.39727726136776
147	-0.2196672	2.676778073	2.77046929	-0.31335843438411
148	-0.1160319	2.573142789	2.67572153	-0.21861067247256
149	-0.0061695	2.463280396	2.57212715	-0.11501629401383
150	0.10631933	2.350791524	2.46230812	-0.00519726442845
151	0.21764787	2.239462987	2.34986365	0.10724720754961
152	0.32414428	2.132966576	2.23857905	0.21853180256891
153	0.42219987	2.03491099	2.13212468	0.32498617845137
154	0.50801806	1.949092797	2.03410780	0.42300306076369
155	0.57758576	1.879525099	1.94832348	0.50878738084953
156	0.62712823	1.829982627	1.87878324	0.57832761996351
157	0.65324026	1.803870594	1.82926032	0.62785053742576
158	0.65333068	1.803780183	1.80315859	0.65395226389154
159	0.62715567	1.829955187	1.80306822	0.65404263940211
160	0.5766835	1.880427356	1.82923289	0.62787796630926

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
161	0.50502144	1.952089423	1.87968514	0.57742571915020
162	0.41602043	2.041090423	1.95131892	0.50579193837239
163	0.31379438	2.143316474	2.04028479	0.41682606681922
164	0.20232249	2.254788364	2.14247049	0.31464036537305
165	0.08525955	2.37185131	2.25389838	0.20321247398564
166	-0.0341386	2.49124948	2.37091512	0.08619573422374
167	-0.1527082	2.609819018	2.49026617	-0.03315530878086
168	-0.267173	2.724283902	2.60878890	-0.15167804663506
169	-0.3740068	2.831117653	2.72320861	-0.26609774996904
170	-0.469308	2.92641889	2.83000019	-0.37288933321434
171	-0.5490085	3.006119341	2.92526381	-0.46815295412993
172	-0.6097101	3.066820984	3.00493280	-0.54782194629358
173	-0.6490296	3.106140477	3.06561049	-0.60849963012256
174	-0.6650766	3.122187423	3.10491446	-0.64780360397872
175	-0.6561009	3.113211807	3.12095507	-0.66384421553057
176	-0.6207415	3.077852391	3.11198300	-0.65487214214218
177	-0.5589887	3.016099576	3.07663754	-0.61952668354982
178	-0.4731405	2.930251389	3.01490910	-0.55779824225853
179	-0.3672775	2.824388361	2.92909480	-0.47198394080765
180	-0.2467009	2.703811792	2.82327355	-0.36616269686551
181	-0.1174276	2.574538481	2.70274458	-0.24563372095824
182	0.01443816	2.442672703	2.57352229	-0.11641143448997
183	0.14296485	2.314146008	2.44170856	0.01540229490980
184	0.26228439	2.19482647	2.31323260	0.14387825936558
185	0.36666763	2.090443226	2.19396016	0.26315070079240
186	0.45145251	2.005658347	2.08961811	0.36749274451801
187	0.51505658	1.942054276	2.00486670	0.45224415839570

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
188	0.55812641	1.898984453	1.94128773	0.51582312383201
189	0.58221629	1.874894571	1.89823491	0.55887594743159
190	0.58931215	1.867798706	1.87415454	0.58295632078897
191	0.58183913	1.875271731	1.86706147	0.59004938450891
192	0.56270549	1.894405367	1.87453155	0.58257930948546
193	0.53507687	1.922033989	1.89365763	0.56345322523001
194	0.50201546	1.955095395	1.92127535	0.53583550929690
195	0.46596349	1.991147365	1.95432370	0.50278715242620
196	0.42795522	2.029155642	1.99036144	0.46674941246712
197	0.38809769	2.069013163	2.02835472	0.42875613712287
198	0.3462575	2.110853359	2.06819651	0.38891434859244
199	0.30228037	2.15483049	2.11002019	0.34709066720805
200	0.25596423	2.201146625	2.15397996	0.30313089409355
201	0.2072259	2.249884956	2.20027782	0.25683304030344
202	0.15599064	2.301120219	2.24899691	0.20811394655957
203	0.10222733	2.354883533	2.30021195	0.15689890694800
204	0.04631474	2.410796113	2.35395404	0.10315681383610
205	-0.0107324	2.467843248	2.40984455	0.04726630253784
206	-0.0676517	2.524762507	2.46686917	-0.00975831542626
207	-0.1230894	2.580200292	2.52376596	-0.06665510796184
208	-0.1756414	2.632752214	2.57918187	-0.12207101102266
209	-0.223976	2.681086895	2.63171305	-0.17460219094193
210	-0.2670073	2.724118156	2.68002865	-0.22291779364282
211	-0.3037089	2.760819736	2.72304293	-0.26593206933925
212	-0.3331144	2.790225291	2.75973002	-0.30261916368126
213	-0.3545471	2.811657927	2.78912397	-0.33201311133505
214	-0.3678086	2.824919475	2.81054815	-0.35343728836686

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
215	-0.3731519	2.830262773	2.82380446	-0.36669360181593
216	-0.3712796	2.828390411	2.82914565	-0.37203479090055
217	-0.3633965	2.820507314	2.82727402	-0.37016316737203
218	-0.3509397	2.808050557	2.81939404	-0.36228318179950
219	-0.3355091	2.792619949	2.80694220	-0.34983134148554
220	-0.3188328	2.775943628	2.79151768	-0.33440682440281
221	-0.3025206	2.759631423	2.77484794	-0.31773708621364
222	-0.2879547	2.745065534	2.75854218	-0.30143131942270
223	-0.2763119	2.733422723	2.74398204	-0.28687117921263
224	-0.268586	2.725696876	2.73234382	-0.27523296362672
225	-0.2656246	2.722735438	2.72462102	-0.26751016636844
226	-0.2681064	2.725217246	2.72166075	-0.26454989769225
227	-0.2764381	2.733548965	2.72414158	-0.26703072575873
228	-0.2903775	2.747488378	2.73247001	-0.27535915607047
229	-0.3086845	2.765795338	2.74640392	-0.28929306693401
230	-0.329658	2.786768814	2.76470366	-0.30759280135568
231	-0.3513205	2.808431376	2.78566886	-0.32855799926552
232	-0.3713089	2.828419783	2.80732287	-0.35021201106107
233	-0.3869674	2.844078301	2.82730338	-0.37019252784905
234	-0.3955721	2.852682953	2.84295572	-0.38584486507502
235	-0.394468	2.851578878	2.85155698	-0.39444612147932
236	-0.3812102	2.838321101	2.85045334	-0.39334248229505
237	-0.3539216	2.811032467	2.83720079	-0.38008993750245
238	-0.3116605	2.768771376	2.80992293	-0.35281207491735
239	-0.2542333	2.711344147	2.76767852	-0.31056766473482
240	-0.1818475	2.638958321	2.71027396	-0.25316310236197
241	-0.0952527	2.552363595	2.63791670	-0.18080584788782

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
242	0.00358125	2.453529605	2.55135616	-0.09424530196312
243	0.1108199	2.346290958	2.45256118	0.00454967840193
244	0.22160698	2.235503882	2.34536486	0.11174599696015
245	0.33062301	2.126487849	2.23462151	0.22248934457477
246	0.43221682	2.024894034	2.12564851	0.33146234780761
247	0.52050742	1.936603442	2.02409479	0.43301606329754
248	0.58944941	1.867661445	1.93583905	0.52127180698651
249	0.63296307	1.82414779	1.86692427	0.59018659184279
250	0.64553464	1.811576219	1.82342779	0.63368307171050
251	0.62370823	1.833402623	1.81086118	0.64624968027061
252	0.56783931	1.889271545	1.83267897	0.62443189115684
253	0.48221035	1.974900506	1.88852584	0.56858502092955
254	0.37345486	2.083655995	1.97412100	0.48298985909985
255	0.24936185	2.207749006	2.08283356	0.37427729600305
256	0.11801628	2.339094579	2.20687759	0.25023326515484
257	-0.0125086	2.469619491	2.33817132	0.11893953606213
258	-0.1341648	2.591275615	2.46864471	-0.01153385724121
259	-0.2395962	2.696707031	2.59025282	-0.13314196283093
260	-0.3245564	2.781667234	2.69564262	-0.23853176412472
261	-0.3875128	2.844623677	2.78056929	-0.32345843236629
262	-0.4278552	2.884966041	2.84350088	-0.38639002622003
263	-0.4454022	2.90251304	2.88382732	-0.42671646690910
264	-0.4410697	2.898180604	2.90136740	-0.44425653949123
265	-0.4175438	2.874654626	2.89703667	-0.43992581413513
266	-0.3782547	2.835365592	2.87351998	-0.41640912209281
267	-0.3269689	2.784079768	2.83424645	-0.37713559585082
268	-0.267536	2.724646817	2.78298087	-0.32587001440491

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
269	-0.2029805	2.660091356	2.72357138	-0.26646052198420
270	-0.1360426	2.593153469	2.65904140	-0.20193054156039
271	-0.0692635	2.526374314	2.59212993	-0.13501907516517
272	-0.004912	2.462022854	2.52537714	-0.06826627849965
273	0.05530885	2.401802007	2.46105108	-0.00394021881044
274	0.11059856	2.3465123	2.40085400	0.05625685871397
275	0.16044573	2.296665129	2.34558611	0.11152474283911
276	0.20447701	2.252633843	2.29575862	0.16135223874929
277	0.24244993	2.214660931	2.25174471	0.20536614453704
278	0.27392717	2.18318369	2.21378679	0.24332406867446
279	0.29781927	2.159291585	2.18232197	0.27478888556847
280	0.31301366	2.144097193	2.15843930	0.29867156036907
281	0.31850363	2.138607231	2.14325090	0.31385995483298
282	0.31333183	2.143779025	2.13776311	0.31934775014309
283	0.2967441	2.160366756	2.14293286	0.31417799725390
284	0.26832705	2.18878381	2.15951404	0.29759681349202
285	0.22824604	2.228864821	2.18791988	0.26919097601046
286	0.17723058	2.279880275	2.22798507	0.22912578555397
287	0.11656933	2.340541533	2.27898039	0.17813046769460
288	0.04824622	2.408864639	2.33961770	0.11749315321700
289	-0.0250876	2.482198503	2.40791384	0.04919701459446
290	-0.1003206	2.55743143	2.48121876	-0.02410790381648
291	-0.1737793	2.630890182	2.55642199	-0.09931113624573
292	-0.2411367	2.698247603	2.62985175	-0.17274089326639
293	-0.2976773	2.754788156	2.69718258	-0.24007172784458
294	-0.3387889	2.795899771	2.75370082	-0.29658996356535
295	-0.3605726	2.817683503	2.79479621	-0.33768535191087

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
296	-0.3603756	2.817486421	2.81657134	-0.35946048566260
297	-0.3373375	2.794448361	2.81637434	-0.35926348199513
298	-0.2934945	2.750605332	2.79334537	-0.33623451482348
299	-0.2338618	2.690972675	2.74951965	-0.29240879074394
300	-0.1644146	2.621525447	2.68991053	-0.23279967116255
301	-0.091175	2.548285865	2.62049071	-0.16337985461512
302	-0.0196353	2.476746198	2.54728004	-0.09016918092963
303	0.04622337	2.410887485	2.47576861	-0.01865775083641
304	0.10353976	2.353571094	2.40993589	0.04717496720215
305	0.15049272	2.306618141	2.35264212	0.10446873472723
306	0.18720833	2.269902527	2.30570770	0.15140315522783
307	0.21554028	2.241570583	2.26900658	0.18810427747629
308	0.23774772	2.219363139	2.24068582	0.21642503836927
309	0.25567352	2.201437341	2.21848714	0.23862371693178
310	0.27007884	2.18703202	2.20056842	0.25654243959904
311	0.28114727	2.175963586	2.18616878	0.27094207399108
312	0.28839664	2.168714216	2.17510472	0.28200613922565
313	0.29056713	2.166543731	2.16785821	0.28925264858538
314	0.28602174	2.171089116	2.16568858	0.29142227709341
315	0.27286677	2.184244086	2.17023217	0.28687868549214
316	0.24896757	2.208143287	2.18338195	0.27372890817349
317	0.21269115	2.244419706	2.20727172	0.24983914012491
318	0.1636389	2.293471962	2.24353382	0.21357703986691
319	0.10294976	2.354161098	2.29256671	0.16454414519608
320	0.0338128	2.423298058	2.35323189	0.10387896397053
321	-0.0390633	2.496174134	2.42234156	0.03476929238727
322	-0.1104804	2.567591299	2.49518888	-0.03807801840768

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
323	-0.1753844	2.632495245	2.56657785	-0.10946699523731
324	-0.229061	2.68617182	2.63145618	-0.17434532312722
325	-0.2672073	2.72431812	2.68511157	-0.22800071103625
326	-0.2858949	2.743005711	2.72324281	-0.26613195480841
327	-0.2829127	2.74002354	2.74192303	-0.28481216934680
328	-0.2605117	2.717622563	2.73894203	-0.28183117586235
329	-0.2233665	2.680477336	2.71654990	-0.25943904085239
330	-0.1765401	2.633650974	2.67941933	-0.22230847466194
331	-0.1250365	2.582147404	2.63261145	-0.17550059603691
332	-0.0736726	2.530783448	2.58112821	-0.12401735459205
333	-0.0265	2.483610877	2.52978453	-0.07267367183636
334	0.01404957	2.443061289	2.48263058	-0.02551972106427
335	0.04720301	2.409907848	2.44209699	0.01501386234585
336	0.07280921	2.384301649	2.40895664	0.04815421697040
337	0.09098486	2.366125994	2.38336055	0.07375030933737
338	0.10203878	2.355072074	2.36519207	0.09191879068516
339	0.10670013	2.350410728	2.35414251	0.10296834736717
340	0.10616957	2.350941286	2.34948300	0.10762785303692
341	0.10183709	2.355273773	2.35001335	0.10709750471885
342	0.095161	2.361949861	2.35434413	0.10276672788696
343	0.0874389	2.369671959	2.36101758	0.09609327455199
344	0.0791795	2.377931361	2.36873663	0.08837422500696
345	0.06987371	2.387237152	2.37699277	0.08011808306908
346	0.05861872	2.398492137	2.38629489	0.07081596528325
347	0.04463584	2.412475016	2.39754543	0.05956542237579
348	0.02794806	2.429162801	2.41152279	0.04558806264407
349	0.00952474	2.447586121	2.42820399	0.02890686403309

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
350	-0.0091885	2.466299315	2.44662004	0.01049081578483
351	-0.0267817	2.483892536	2.46532585	-0.00821499129522
352	-0.0419758	2.499086699	2.48291213	-0.02580126873917
353	-0.0537374	2.510848246	2.49810029	-0.04098943396648
354	-0.061215	2.518325879	2.50985720	-0.05274633889950
355	-0.0635856	2.520696495	2.51733188	-0.06022102055368
356	-0.0602129	2.517323747	2.51970156	-0.06259070049795
357	-0.0512968	2.508407625	2.51633014	-0.05921928370862
358	-0.0383306	2.495441441	2.50741754	-0.05030668134679
359	-0.0234023	2.480513136	2.49445647	-0.03734561501800
360	-0.0086964	2.465807298	2.47953406	-0.02242320253815
361	0.00364267	2.453468191	2.46483403	-0.00772316899997
362	0.01157625	2.445534606	2.45249979	0.00461106791661
363	0.01364392	2.443466941	2.44456934	0.01254152152125
364	0.01000061	2.447110246	2.44250249	0.01460836987719
365	0.00169609	2.455414766	2.44614435	0.01096650298695
366	-0.0099183	2.467029185	2.45444560	0.00266526109843
367	-0.0233986	2.480509471	2.46605543	-0.00894457403854
368	-0.0372432	2.494354015	2.47953040	-0.02241953852854
369	-0.0499171	2.507027978	2.49336948	-0.03625861801351
370	-0.0598541	2.516964979	2.50603844	-0.04892757890961
371	-0.0655265	2.522637381	2.51597152	-0.05886065802475
372	-0.0656209	2.522731736	2.52164168	-0.06453082097840
373	-0.0592619	2.516372753	2.52173600	-0.06462513818934
374	-0.0462369	2.503347781	2.51537952	-0.05826866528252
375	-0.0267474	2.4838583	2.50235969	-0.04524883413372
376	-0.0013074	2.458418289	2.48287790	-0.02576704624906

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
377	0.0291421	2.427968759	2.45744793	-0.00033707648292
378	0.06304326	2.394067596	2.42701042	0.03010043481852
379	0.0983186	2.35879226	2.39312264	0.06398821681261
380	0.13263108	2.324479778	2.35786123	0.09924962953300
381	0.16357574	2.293535119	2.32356229	0.13354856807573
382	0.18867689	2.26843397	2.29262984	0.16448101335270
383	0.20537801	2.251732847	2.26753860	0.18957225480348
384	0.21149306	2.245617802	2.25084407	0.20626678535416
385	0.20546548	2.251645381	2.24473144	0.21237941652741
386	0.18615777	2.270953092	2.25075664	0.20635421722796
387	0.15276463	2.304346224	2.27005673	0.18705412662539
388	0.10565588	2.351454976	2.30343668	0.15367417504506
389	0.04719568	2.409915177	2.35052684	0.10658401777517
390	-0.0185593	2.475670162	2.40896397	0.04814689139179
391	-0.0868302	2.54394105	2.47469300	-0.01758214005668
392	-0.1529739	2.610084723	2.54293694	-0.08582608077629
393	-0.2130207	2.670131524	2.60905450	-0.15194364617913
394	-0.263699	2.720809875	2.66907760	-0.21196674681532
395	-0.3019997	2.75911053	2.71973595	-0.26262509473610
396	-0.325148	2.782258858	2.75802149	-0.30091063208392
397	-0.3307494	2.787860291	2.78116068	-0.32404982336714
398	-0.3172693	2.774380134	2.78675990	-0.32964904472720
399	-0.2854132	2.742524104	2.77328507	-0.31617420889792
400	-0.2388125	2.695923386	2.74144161	-0.28433075265692
401	-0.1829172	2.640028031	2.69485929	-0.23774842826438
402	-0.1235895	2.580700319	2.63898599	-0.18187513537281
403	-0.0666994	2.523810262	2.57968170	-0.12257084026306

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
404	-0.0177314	2.474842249	2.52281410	-0.06570323885637
405	0.02005262	2.43705824	2.47386541	-0.01675455362242
406	0.04692593	2.410184931	2.43609632	0.02101454164914
407	0.06453234	2.392578516	2.40923361	0.04787724405932
408	0.07503979	2.382071063	2.39163415	0.06547670912677
409	0.08181838	2.375292477	2.38113084	0.07598001432972
410	0.08979597	2.367314887	2.37435493	0.08275592548197
411	0.10427874	2.352832119	2.36638049	0.09073036630341
412	0.12890917	2.328201687	2.35190344	0.10520741758710
413	0.1644871	2.292623759	2.32728273	0.12982812855820
414	0.20911836	2.247992503	2.29171884	0.16539201351967
415	0.2589695	2.198141357	2.24710520	0.21000565334088
416	0.30943778	2.147673075	2.19727373	0.25983712273713
417	0.3557793	2.101331557	2.14682537	0.31028548451083
418	0.39339326	2.063717597	2.10050215	0.35660871093110
419	0.4178034	2.039307458	2.06290303	0.39420782409752
420	0.42570696	2.031403897	2.03850253	0.41860832891010
421	0.416872	2.04023886	2.03060209	0.42650877010346
422	0.39249554	2.064615321	2.03943356	0.41767729442242
423	0.35396127	2.103149587	2.06380040	0.39331045488206
424	0.3027173	2.154393557	2.10231946	0.35479139883043
425	0.24044253	2.216668323	2.15354320	0.30356765488755
426	0.16922335	2.28788751	2.21579339	0.24131746893934
427	0.09170823	2.365402623	2.28698446	0.17012639301877
428	0.01090703	2.446203833	2.36446898	0.09264187563405
429	-0.0701969	2.527307777	2.44523830	0.01187255870977
430	-0.1490721	2.606182957	2.52631023	-0.06919937324843

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
431	-0.2236028	2.68071364	2.60515428	-0.14804342044947
432	-0.2920208	2.749131638	2.67965554	-0.22254468541587
433	-0.3520554	2.809166284	2.74804654	-0.29093567903193
434	-0.4006711	2.857781915	2.80805749	-0.35094662826237
435	-0.4348168	2.891927636	2.85665393	-0.39954307081207
436	-0.4516357	2.908746598	2.89078617	-0.43367531447372
437	-0.4485144	2.905625214	2.90759849	-0.45048763730814
438	-0.4234657	2.880576515	2.90447834	-0.44736748542748
439	-0.376463	2.833573895	2.87943953	-0.42232867360549
440	-0.3105077	2.767618548	2.83245546	-0.37534460569702
441	-0.2302877	2.687398558	2.76652615	-0.30941529157426
442	-0.1407747	2.597885604	2.68633782	-0.22922696531533
443	-0.0469439	2.504054771	2.59686020	-0.13974934253392
444	0.04625539	2.410855469	2.50306640	-0.04595554495676
445	0.13401623	2.323094625	2.40990389	0.04720697031412
446	0.21190401	2.245206845	2.32217768	0.13493317436883
447	0.27592781	2.181183046	2.24432065	0.21279021187872
448	0.32259972	2.134511138	2.18032212	0.27678874010757
449	0.3493592	2.107751663	2.13366863	0.32344222569731
450	0.35507706	2.102033803	2.10691972	0.35019113900980
451	0.34025578	2.116855079	2.10120411	0.35590674214511
452	0.30721653	2.149894326	2.11601954	0.34109131631589
453	0.25996853	2.197142329	2.14904575	0.30806511009546
454	0.20345741	2.253653453	2.19627510	0.26083575593164
455	0.14300304	2.314107815	2.25276392	0.20434693759376
456	0.08359902	2.373511838	2.31319442	0.14391643687521
457	0.02946698	2.427643878	2.37257500	0.08453586172055

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
458	-0.0155693	2.472680155	2.42668567	0.03042518725203
459	-0.0483862	2.505497103	2.47170417	-0.01459331290701
460	-0.0680788	2.525189681	2.50450816	-0.04739730764088
461	-0.0762886	2.53339948	2.52419297	-0.06708211317160
462	-0.0756264	2.532737258	2.53239953	-0.07528867130932
463	-0.0689804	2.526091219	2.53173757	-0.07462671156898
464	-0.0594854	2.516596221	2.52509415	-0.06798329489097
465	-0.0506022	2.50771308	2.51560290	-0.05849204526723
466	-0.0457689	2.502879709	2.50672327	-0.04961241078952
467	-0.048041	2.505151879	2.50189180	-0.04478094669110
468	-0.0593589	2.516469742	2.50416308	-0.04705222036294
469	-0.0785885	2.535699407	2.51547647	-0.05836561633660
470	-0.1028089	2.559919794	2.53469855	-0.07758769062130
471	-0.1288064	2.585917303	2.55890938	-0.10179851845367
472	-0.153509	2.610619842	2.58489662	-0.12778576594851
473	-0.174187	2.631297832	2.60958941	-0.15247855475226
474	-0.1886063	2.645717175	2.63025924	-0.17314838224365
475	-0.1946997	2.651810583	2.64467289	-0.18756203399993
476	-0.190421	2.64753189	2.65076389	-0.19365303681163
477	-0.173739	2.630849879	2.64648689	-0.18937603244641
478	-0.1431979	2.600308728	2.62981146	-0.17270060633187
479	-0.0999221	2.557032968	2.59928237	-0.14217150972347
480	-0.0474541	2.50456498	2.55602369	-0.09891283121632
481	0.01006092	2.447049936	2.50357641	-0.04646555245371
482	0.06844405	2.388666812	2.44608407	0.01102678924071
483	0.1235142	2.333596657	2.38772399	0.06938686959175
484	0.17110017	2.286010683	2.33267557	0.12443528794989

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
485	0.2076912	2.249419662	2.28510838	0.17200247864287
486	0.23240961	2.224701249	2.24853180	0.20857905739491
487	0.24558501	2.211525848	2.22382314	0.23328771414967
488	0.24778722	2.209323634	2.21065294	0.24645791469753
489	0.23972826	2.217382595	2.20845160	0.24865925871328
490	0.22229711	2.23481375	2.21650738	0.24060347895248
491	0.19652221	2.260588646	2.23393165	0.22317920437909
492	0.16377704	2.293333819	2.25969638	0.19741448169243
493	0.12560623	2.331504623	2.29242862	0.16468223387896
494	0.0837305	2.373380362	2.33058436	0.12652649560918
495	0.03996411	2.417146748	2.37244357	0.08466728560680
496	-0.0041763	2.461287144	2.41619268	0.04091817405937
497	-0.0478571	2.504967916	2.46031566	-0.00320479932993
498	-0.0905138	2.547624662	2.50397919	-0.04686832975661
499	-0.1314046	2.588515477	2.54661910	-0.08950823943034
500	-0.1690165	2.626127344	2.58749377	-0.13038291387451
501	-0.2016628	2.658773687	2.62509079	-0.16797993555122
502	-0.2278191	2.684930006	2.65772425	-0.20061339280170
503	-0.2462992	2.703410043	2.68387024	-0.22675938724108
504	-0.2560976	2.713208499	2.70234299	-0.24523213018610
505	-0.2562668	2.713377688	2.71213758	-0.25502671893094
506	-0.245865	2.702975852	2.71230670	-0.25519584101278
507	-0.2239737	2.681084532	2.70190897	-0.24479811076630
508	-0.1898924	2.647003237	2.68002629	-0.22291543126682
509	-0.1439267	2.601037583	2.64595845	-0.18884758867953
510	-0.0880312	2.545142039	2.60001093	-0.14290007749419
511	-0.0247819	2.481892795	2.54413745	-0.08702659586951

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
512	0.04317061	2.413940251	2.48091317	-0.02380231724636
513	0.11317506	2.343935795	2.41298745	0.04412340575390
514	0.18255647	2.27455439	2.34301063	0.11410023062398
515	0.24860486	2.208506002	2.27365661	0.18345425021391
516	0.30853702	2.148573842	2.20763429	0.24947656869135
517	0.35966832	2.097442539	2.14772578	0.30938507240878
518	0.39967435	2.057436503	2.09661466	0.36049619435823
519	0.42683455	2.030276305	2.05662442	0.40048643912850
520	0.43967201	2.017438847	2.02947494	0.42763591640929
521	0.43681937	2.02029149	2.01664255	0.44046830808327
522	0.41705481	2.040056049	2.01949407	0.43761679096792
523	0.37933166	2.077779193	2.03925082	0.41786003269742
524	0.32297557	2.134135284	2.07695908	0.38015177863990
525	0.24854546	2.208565395	2.13329293	0.32381793134059
526	0.15866415	2.298446704	2.20769366	0.24941719927868
527	0.05669982	2.400411037	2.29753949	0.15957136682618
528	-0.0539394	2.511050218	2.39946358	0.05764727991945
529	-0.1698359	2.62694676	2.51005909	-0.05294823113543
530	-0.2875532	2.744664075	2.62590989	-0.16879902843241
531	-0.4036731	2.860783923	2.74358074	-0.28646987871849
532	-0.514862	2.971972867	2.85965475	-0.40254389400628
533	-0.6181235	3.075234352	2.97079981	-0.51368895035353
534	-0.7111649	3.168275805	3.07402053	-0.61690967766029
535	-0.7919718	3.249082702	3.16702526	-0.70991440680572
536	-0.858481	3.31559188	3.24780027	-0.79068940818128
537	-0.908486	3.365596819	3.31428319	-0.85717233507804
538	-0.9397087	3.396819549	3.36426839	-0.90715753637336

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
539	-0.9499056	3.407016463	3.39547880	-0.93836794291430
540	-0.9368818	3.393992668	3.40567169	-0.94856083174201
541	-0.8984779	3.355588806	3.39265303	-0.93554217766744
542	-0.832558	3.289668859	3.35426433	-0.89715347385079
543	-0.7372371	3.194347989	3.28837040	-0.83125954608104
544	-0.6122095	3.069320326	3.19308716	-0.73597629960226
545	-0.4604175	2.91752836	3.06810884	-0.61099798577564
546	-0.2863675	2.743478333	2.91637679	-0.45926593317385
547	-0.0948947	2.552005533	2.74239546	-0.28528460459409
548	0.1091032	2.348007659	2.55099824	-0.09388738097348
549	0.3206571	2.136453763	2.34708088	0.11002997371583
550	0.53423496	1.922875902	2.13561049	0.32150036807022
551	0.74281121	1.714299648	1.92211693	0.53499392789524
552	0.93823589	1.518874971	1.71362300	0.74348785545010
553	1.1120525	1.345058358	1.51827546	0.93883539743299
554	1.25675149	1.200359371	1.34452745	1.11258340350356
555	1.36619984	1.090911019	1.19988558	1.25722527623020
556	1.43478365	1.022327204	1.09048043	1.36663042895961
557	1.45711086	1	1.02192368	1.43518717302625
558	1.42932364	1.027787222	0.99960529	1.45750556429389
559	1.35219354	1.104917323	1.02738155	1.42972931052306
560	1.23150851	1.225602347	1.10448120	1.35262965312335
561	1.07414571	1.382965148	1.22511859	1.23199226461980
562	0.88699499	1.570115864	1.38241928	1.07469157541216
563	0.67694616	1.780164703	1.56949613	0.88761472910259
564	0.45082032	2.006290539	1.77946206	0.67764879835772
565	0.21502778	2.242083073	2.00549864	0.45161221576257

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
566	-0.0245833	2.481694186	2.24119811	0.21591275026825
567	-0.2619341	2.719044951	2.48071464	-0.02360378644063
568	-0.4901962	2.9473071	2.71797172	-0.26086086689276
569	-0.7021571	3.159267984	2.94614378	-0.48903291938224
570	-0.8912368	3.348347687	3.15802100	-0.70091014071580
571	-1.0519107	3.509021601	3.34702607	-0.88991521296605
572	-1.1801468	3.637257608	3.50763656	-1.05052570714692
573	-1.2733783	3.73048911	3.63582196	-1.17871109887835
574	-1.3302296	3.787340482	3.72901666	-1.27190580197539
575	-1.3503325	3.807443354	3.78584559	-1.32873473434694
576	-1.3335056	3.790616458	3.80594053	-1.34882967094976
577	-1.2796703	3.736781133	3.78912027	-1.33200941739234
578	-1.1889911	3.646101974	3.73530620	-1.27819534109203
579	-1.0624412	3.519552017	3.64466283	-1.18755197376868
580	-0.9035906	3.360701439	3.51816282	-1.06105196746640
581	-0.7188866	3.175997415	3.35937495	-0.90226408857815
582	-0.5155364	2.97264729	3.17474383	-0.71763296850935
583	-0.3008809	2.757991773	2.97147396	-0.51436310739378
584	-0.0829732	2.540084076	2.75690317	-0.29979231677027
585	0.12901499	2.328095869	2.53908149	-0.08197062892740
586	0.32537233	2.131738531	2.32717695	0.12993390465800
587	0.49765622	1.95945464	2.13089712	0.32621373840633
588	0.64052661	1.816584249	1.95868123	0.49842962761737
589	0.75090268	1.706208179	1.81586723	0.64124362696953
590	0.82761934	1.629491518	1.70553473	0.75157613057654
591	0.87171304	1.585397817	1.62884835	0.82826251161967
592	0.88684713	1.570263729	1.58477205	0.87233880810167

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
593	0.87775496	1.5793559	1.56964393	0.88746692282634
594	0.8493572	1.607753656	1.57873252	0.87837834047356
595	0.80669269	1.650418172	1.60711906	0.84999179322503
596	0.75453288	1.702577979	1.64976674	0.80734411685564
597	0.69555657	1.761554289	1.70190596	0.75520489802311
598	0.63150325	1.825607605	1.76085899	0.69625186639932
599	0.56393041	1.893180446	1.82488702	0.63222383239608
600	0.49437747	1.962733393	1.89243319	0.56467766271100
601	0.42444736	2.032663497	1.96195869	0.49515216954460
602	0.35538514	2.101725718	2.03186119	0.42524966742796
603	0.28730241	2.169808453	2.10089615	0.35621470536399
604	0.21975204	2.237358823	2.16895201	0.28815884334669
605	0.15181184	2.305299014	2.23647572	0.22063513596024
606	0.08235247	2.374758389	2.30438910	0.15272176150101
607	0.01133084	2.445780017	2.37382105	0.08328980284132
608	-0.0601033	2.517214148	2.44481465	0.01229620754123
609	-0.1304859	2.587596791	2.51622058	-0.05910972780108
610	-0.1982383	2.655349157	2.58657545	-0.12946459074541
611	-0.2613962	2.718507051	2.65430107	-0.19719021406818
612	-0.3177745	2.774885341	2.71743404	-0.26032317922648
613	-0.3651208	2.822231649	2.77379007	-0.31667921669066
614	-0.4014496	2.85856042	2.82111769	-0.36400683653503
615	-0.4253493	2.88246014	2.85743212	-0.40032126797740
616	-0.4360213	2.893132177	2.88132241	-0.42421155543333
617	-0.4329214	2.890032279	2.89199024	-0.43487937952288
618	-0.4156228	2.872733693	2.88889156	-0.43178070486148
619	-0.3837496	2.840860446	2.87159980	-0.41448894741975

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
620	-0.3369637	2.794074548	2.83973914	-0.38262828065462
621	-0.2750289	2.732139806	2.79297171	-0.33586084974471
622	-0.1985857	2.655696545	2.73106141	-0.27395055385370
623	-0.1109934	2.568104211	2.65464832	-0.19753746563252
624	-0.0174546	2.474565473	2.56709056	-0.10997970405813
625	0.07645327	2.380657586	2.47358874	-0.01647788706954
626	0.16514372	2.291967135	2.37971792	0.07739293375260
627	0.24303966	2.214071194	2.29106248	0.16604837843637
628	0.30460011	2.15251075	2.21319728	0.24391357354155
629	0.34528175	2.111829107	2.15166114	0.30544971919052
630	0.36446644	2.092644422	2.11099555	0.34611530426409
631	0.36321204	2.093898822	2.09181844	0.36529241750198
632	0.34283496	2.114275902	2.09307234	0.36403851202594
633	0.30470275	2.152408104	2.11344138	0.34366947480279
634	0.25048837	2.206622484	2.15155853	0.30555232421181
635	0.18327324	2.27383762	2.20575151	0.25135934254456
636	0.10787492	2.349235934	2.27294012	0.18417073688159
637	0.02973147	2.427379384	2.34830867	0.10880218354258
638	-0.0457746	2.502885414	2.42642128	0.03068957727786
639	-0.1146236	2.571734449	2.50189751	-0.04478664965941
640	-0.1748668	2.631977627	2.57071937	-0.11360850925891
641	-0.2252392	2.682350035	2.63093877	-0.17382790940681
642	-0.2646921	2.721802967	2.68129129	-0.22418043535855
643	-0.2923286	2.749439492	2.72072865	-0.26361779404577
644	-0.3074281	2.764538978	2.74835427	-0.29124341135416
645	-0.3096184	2.766729268	2.76344779	-0.30633693707060
646	-0.2992097	2.756320525	2.76563722	-0.30852636242350

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
647	-0.2772628	2.734373613	2.75523259	-0.29812172851872
648	-0.2456564	2.702767267	2.73329434	-0.27618347883349
649	-0.2068954	2.664006242	2.70170047	-0.24458960803767
650	-0.1637868	2.62089765	2.66295474	-0.20584388240394
651	-0.1191916	2.576302466	2.61986316	-0.16275230522152
652	-0.0759243	2.533035142	2.57528558	-0.11817472373733
653	-0.0364518	2.493562675	2.53203533	-0.07492447711310
654	-0.0022118	2.45932264	2.49257845	-0.03546759094800
655	0.02644964	2.430661217	2.45835193	-0.00124107049626
656	0.04968426	2.407426596	2.42970182	0.02740904020525
657	0.06792279	2.389188065	2.40647637	0.05063448969990
658	0.08204838	2.375062481	2.38824504	0.06886582160521
659	0.09345772	2.363653138	2.37412503	0.08298583024774
660	0.10369716	2.353413695	2.36272019	0.09439067057107
661	0.11383276	2.3432781	2.35248479	0.10462607150655
662	0.12397983	2.333131032	2.34235319	0.11475766579889
663	0.13375286	2.323358001	2.33221013	0.12490072852306
664	0.14267358	2.31443728	2.32244095	0.13466990215139
665	0.15023177	2.306879083	2.31352375	0.14358710200826
666	0.15599366	2.3011172	2.30596854	0.15114231551883
667	0.15963715	2.297473704	2.30020893	0.15690192478348
668	0.16091343	2.296197423	2.29656687	0.16054398231257
669	0.1595788	2.297532057	2.29529110	0.16181975976728
670	0.15538939	2.301721471	2.29662520	0.16048565217359
671	0.14835631	2.308754545	2.30081297	0.15629789176801
672	0.13913842	2.317972433	2.30784326	0.14926759381606
673	0.12877594	2.328334921	2.31705751	0.14005334438148

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
674	0.11835356	2.338757298	2.32741591	0.12969494669642
675	0.1089041	2.34820676	2.33783417	0.11927668330435
676	0.10131855	2.355792304	2.34727991	0.10983095167084
677	0.09610373	2.361007125	2.35486246	0.10224840163333
678	0.09339659	2.363714264	2.36007522	0.09703563861560
679	0.09310533	2.364005525	2.36278129	0.09432956824376
680	0.09494058	2.362170282	2.36307244	0.09403842178953
681	0.09837356	2.358737299	2.36123792	0.09587294109366
682	0.10253895	2.354571908	2.35780629	0.09930456925670
683	0.10636455	2.350746309	2.35364254	0.10346831580707
684	0.10878059	2.348330266	2.34981845	0.10729240482017
685	0.10877008	2.348340779	0.10707025	0.107070254
686	0.10537779	2.351733071	0.10705991	0.107059907
687	0.09778917	2.359321691	0.10372095	0.103720951
688	0.08546945	2.371641413	0.09625165	0.096251646
689	0.06820352	2.388907341	0.08412562	0.084125625
690	0.04606556	2.4110453	0.06713117	0.067131166
691	0.01950655	2.437604309	0.04534128	0.045341278
692	-0.0106885	2.467799407	0.01919985	0.01919985
693	-0.0436071	2.500717989	-0.01052050	-0.010520495
694	-0.0783353	2.53544615	-0.04292150	-0.042921504
695	-0.1139672	2.571078038	-0.07710364	-0.077103641
696	-0.1496468	2.606757657	-0.11217530	-0.112175296
697	-0.1845562	2.641667017	-0.14729393	-0.147293931
698	-0.2177898	2.674900639	-0.18165442	-0.181654417
699	-0.2483319	2.705442748	-0.21436551	-0.214365514
700	-0.2751684	2.732279295	-0.24442741	-0.244427414

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
701	-0.2973128	2.754423688	-0.27084202	-0.270842015
702	-0.3138199	2.770930711	-0.29263824	-0.292638236
703	-0.323794	2.78090488	-0.30888572	-0.308885722
704	-0.3264385	2.783549352	-0.31870307	-0.31870307
705	-0.3211451	2.778255962	-0.32130596	-0.321305963
706	-0.3075385	2.764649338	-0.31609580	-0.3160958
707	-0.2854698	2.742580697	-0.30270311	-0.302703111
708	-0.2549429	2.712053798	-0.28098145	-0.280981451
709	-0.2161126	2.673223412	-0.25093452	-0.25093452
710	-0.1692953	2.626406145	-0.21271466	-0.212714657
711	-0.1150188	2.572129648	-0.16663349	-0.166633489
712	-0.0541556	2.5112665	-0.11321037	-0.113210371
713	0.01197164	2.445139216	-0.05330416	-0.053304164
714	0.0817963	2.375314557	0.01178341	0.011783414
715	0.15359164	2.303519222	0.08051023	0.080510232
716	0.22549402	2.231616839	0.15117674	0.151176743
717	0.29558762	2.161523234	0.22194862	0.221948618
718	0.36186158	2.095249281	0.29094015	0.290940154
719	0.42222965	2.034881207	0.35617209	0.356172095
720	0.47458525	1.982525607	0.41559101	0.415591012
721	0.51677111	1.940339743	0.46712344	0.467123435
722	0.54674211	1.910368745	0.50864602	0.508646018
723	0.56274561	1.894365248	0.53814579	0.538145788
724	0.56345156	1.893659296	0.55389767	0.553897665
725	0.54810814	1.909002722	0.55459252	0.554592517
726	0.51662916	1.940481697	0.53949033	0.539490333
727	0.46960086	1.987509998	0.50850630	0.508506296

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
728	0.4084926	2.04861826	0.46221741	0.462217413
729	0.33532285	2.121788006	0.40206994	0.402069945
730	0.25232972	2.204781135	0.33005063	0.330050633
731	0.16181785	2.295293007	0.24836239	0.248362389
732	0.06616899	2.390941867	0.15927362	0.159273618
733	-0.032247	2.489357842	0.06512863	0.065128628
734	-0.1310928	2.588203618	-0.03173997	-0.031739971
735	-0.2280585	2.685169352	-0.12903161	-0.129031613
736	-0.3208658	2.777976685	-0.22447277	-0.224472773
737	-0.40728	2.864390827	-0.31582091	-0.315820914
738	-0.4851696	2.942280492	-0.40087638	-0.400876383
739	-0.552737	3.009847895	-0.47754140	-0.477541402
740	-0.6088864	3.065997222	-0.54404646	-0.544046457
741	-0.6532191	3.110329946	-0.59931296	-0.599312958
742	-0.6857747	3.142885558	-0.64294865	-0.642948647
743	-0.7068632	3.163974081	-0.67499239	-0.674992393
744	-0.7170131	3.174123978	-0.69574934	-0.695749345
745	-0.7167999	3.173910717	-0.70573966	-0.705739657
746	-0.7067141	3.163824983	-0.70552975	-0.705529749
747	-0.6870911	3.144201948	-0.69560259	-0.695602592
748	-0.6581812	3.115292032	-0.67628809	-0.676288086
749	-0.6202216	3.077332468	-0.64783271	-0.647832714
750	-0.5734496	3.030560491	-0.61046998	-0.610469982
751	-0.5181025	2.975213334	-0.56443339	-0.564433392
752	-0.4544174	2.911528233	-0.50995645	-0.509956448
753	-0.3826316	2.839742421	-0.44727266	-0.447272656
754	-0.3029823	2.760093131	-0.37661552	-0.376615518

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
755	-0.2157067	2.672817599	-0.29821854	-0.29821854
756	-0.1210422	2.578153058	-0.21231522	-0.212315225
757	-0.0192259	2.476336742	-0.11913908	-0.119139077
758	0.08950497	2.367605885	-0.01892360	-0.0189236
759	0.20491314	2.252197722	0.08809770	0.088097702
760	0.32676137	2.130349486	0.20169132	0.201691324
761	0.20169132			0.198331673
762	0.19833167			0.195026633
763	0.19502663			0.191775319
764	0.19177532			0.188576857
765	0.18857686			0.185430387
766	0.18543039			0.182335064
767	0.18233506			0.179290057
768	0.17929006			0.176294548
769	0.17629455			0.173347733
770	0.17334773			0.170448819
771	0.17044882			0.167597028
772	0.16759703			0.164791595
773	0.1647916			0.162031765
774	0.16203177			0.159316798
775	0.1593168			0.156645964
776	0.15664596			0.154018545
777	0.15401854			0.151433836
778	0.15143384			0.148891143
779	0.14889114			0.146389782
780	0.14638978			0.143929083
781	0.14392908			0.141508383

Periode per-hari	IMF4	IMF4Reverse	IMF4 Peramalan	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
782	0.14150838			0.139127032
783	0.13912703			0.136784392
784	0.13678439			0.134479832
785	0.13447983			0.132212734
786	0.13221273			0.129982489
787	0.12998249			0.127788497
788	0.1277885			0.12563017
789	0.12563017			0.123506927
790	0.12350693			0.121418199
791	0.1214182			0.119363424

LAMPIRAN H SELURUH PROSES IMF 5

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
1	-0.414595872	2.168705779		
2	-0.38574667	2.139856577	2.168514043	-0.414404136
3	-0.35590034	2.110010247	2.139667391	-0.385557484
4	-0.325195863	2.079305771	2.1098237	-0.355713793
5	-0.293772221	2.047882128	2.079121938	-0.325012031
6	-0.261768394	2.015878302	2.047701074	-0.293591167
7	-0.229323365	1.983433272	2.015700077	-0.261590169
8	-0.196576113	1.95068602	1.983257916	-0.229148008
9	-0.16366562	1.917775527	1.950513559	-0.196403651
10	-0.130730867	1.884840775	1.917605976	-0.163496068
11	-0.097910836	1.852020744	1.884674135	-0.130564228
12	-0.065344508	1.819454415	1.851857006	-0.097747098
13	-0.033170863	1.787280771	1.819293556	-0.065183649
14	-0.001528884	1.755638791	1.787122756	-0.033012849
15	0.02944245	1.724667458	1.755483574	-0.001373667
16	0.059604156	1.694505751	1.724514979	0.029594929
17	0.088817254	1.665292654	1.694355939	0.059753968
18	0.116942762	1.637167145	1.665145424	0.088964483
19	0.14384167	1.610268237	1.637022403	0.117087505
20	0.169374661	1.584735247	1.610125872	0.143984035
21	0.193401207	1.5607087	1.58459514	0.169514768
22	0.21577895	1.538330957	1.560570717	0.19353919
23	0.236365118	1.51774479	1.538194953	0.215914955
24	0.255016938	1.499092969	1.517610605	0.236499302
25	0.271591641	1.482518266	1.498960434	0.255149474

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
26	0.285946796	1.468163111	1.482387196	0.271722711
27	0.297941497	1.45616841	1.46803331	0.286076597
28	0.307434928	1.446674979	1.45603967	0.298070238
29	0.314281851	1.439828057	1.446547078	0.307562829
30	0.318331116	1.435778792	1.439700761	0.314409147
31	0.319429525	1.434680383	1.435651854	0.318458053
32	0.317427967	1.436681941	1.434553542	0.319556365
33	0.312183821	1.441926087	1.436554923	0.317554984
34	0.303564805	1.450545102	1.441798605	0.312311302
35	0.291462377	1.46264753	1.450416859	0.303693048
36	0.275845689	1.478264218	1.462518217	0.291591691
37	0.256778471	1.497331436	1.478133524	0.275976383
38	0.234443341	1.519666567	1.497199056	0.256910851
39	0.209159166	1.544950741	1.519532212	0.234577695
40	0.181370909	1.572738998	1.544814151	0.209295756
41	0.151565245	1.602544663	1.572599952	0.181509956
42	0.120232347	1.63387756	1.602402981	0.151706927
43	0.08786191	1.666247998	1.633733108	0.120376799
44	0.054943752	1.699166155	1.666100684	0.088009224
45	0.021968076	1.732141832	1.699015931	0.055093976
46	-0.010574827	1.764684735	1.731988692	0.022121215
47	-0.042194681	1.796304588	1.764528718	-0.01041881
48	-0.072401312	1.82651122	1.796145776	-0.042035868
49	-0.100704817	1.854814724	1.826349737	-0.072239829
50	-0.12661838	1.880728287	1.854650739	-0.100540832
51	-0.149678474	1.903788381	1.880562011	-0.126452104
52	-0.169494406	1.923604314	1.903620066	-0.149510159

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
53	-0.185782914	1.939892821	1.923434247	-0.169324339
54	-0.198321586	1.952431494	1.939721314	-0.185611407
55	-0.206906338	1.961016245	1.952258878	-0.198148971
56	-0.211341804	1.965451711	1.960842871	-0.206732963
57	-0.211445522	1.96555543	1.965277945	-0.211168037
58	-0.207043326	1.961153234	1.965381654	-0.211271747
59	-0.19797215	1.952082057	1.960979847	-0.20686994
60	-0.184107462	1.938217369	1.951909473	-0.197799565
61	-0.165438215	1.919548122	1.938046011	-0.183936103
62	-0.14220741	1.896317318	1.919378414	-0.165268506
63	-0.114992978	1.869102885	1.896149663	-0.142039756
64	-0.084606667	1.838716574	1.868937637	-0.114827729
65	-0.051963134	1.806073041	1.838554012	-0.084444105
66	-0.018000559	1.772110466	1.805913365	-0.051803458
67	0.01635886	1.737751048	1.771953793	-0.017843885
68	0.050239363	1.703870545	1.737597412	0.016512495
69	0.082841808	1.6712681	1.703719905	0.050390003
70	0.113462789	1.640647118	1.671120342	0.082989565
71	0.141495119	1.612614788	1.640502068	0.113607839
72	0.166389436	1.587720471	1.612472216	0.141637691
73	0.187620233	1.566489675	1.5875801	0.166529808
74	0.204666767	1.549443141	1.56635118	0.187758727
75	0.217012448	1.537097459	1.549306154	0.204803754
76	0.224147234	1.529962673	1.536961563	0.217148344
77	0.225574943	1.528534964	1.529827408	0.224282499
78	0.220850922	1.533258985	1.528399825	0.225710082
79	0.20973118	1.544378728	1.533123429	0.220986478

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
80	0.192475588	1.561634319	1.544242188	0.209867719
81	0.169680716	1.584429191	1.561496255	0.192613653
82	0.142032766	1.612077142	1.584289111	0.169820797
83	0.110229097	1.64388081	1.611934617	0.14217529
84	0.074968824	1.679141083	1.643735474	0.110374434
85	0.036951487	1.71715842	1.678992629	0.075117278
86	-0.003123395	1.757233302	1.717006606	0.037103302
87	-0.044558374	1.798668282	1.757077945	-0.002968037
88	-0.086665158	1.840775065	1.79850926	-0.044399353
89	-0.128759621	1.882869528	1.840612321	-0.086502414
90	-0.170152685	1.924262592	1.882703063	-0.128593155
91	-0.210158414	1.964268321	1.924092467	-0.169982559
92	-0.248092635	2.002202542	1.964094659	-0.209984752
93	-0.2832735	2.037383407	2.002025526	-0.247915619
94	-0.315038287	2.069148194	2.037203281	-0.283093373
95	-0.342751854	2.096861761	2.06896526	-0.314855352
96	-0.365809056	2.119918963	2.096676376	-0.342566469
97	-0.383634896	2.137744803	2.11973154	-0.365621632
98	-0.395718004	2.149827911	2.137555804	-0.383445897
99	-0.401689913	2.15579982	2.149637844	-0.395527936
100	-0.401413863	2.15552377	2.155609225	-0.401499318
101	-0.394983885	2.149093792	2.155333199	-0.401223292
102	-0.382615917	2.136725824	2.14890379	-0.394793882
103	-0.364606438	2.118716345	2.136536915	-0.382427008
104	-0.341302551	2.095412459	2.118529028	-0.364419121
105	-0.313074386	2.067184293	2.095227202	-0.341117295
106	-0.280316996	2.034426904	2.067001532	-0.312891625

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
107	-0.243446446	1.997556353	2.034247039	-0.280137131
108	-0.202894192	1.9570041	1.997379748	-0.243269841
109	-0.159111724	1.913221631	1.95683108	-0.202721172
110	-0.112591674	1.866701581	1.913052482	-0.158942575
111	-0.063858556	1.817968464	1.866536545	-0.112426638
112	-0.013452572	1.767562479	1.817807736	-0.063697829
113	0.038065016	1.716044891	1.767406208	-0.013296301
114	0.090118019	1.663991888	1.715893175	0.038216733
115	0.142132553	1.611977355	1.663844774	0.090265134
116	0.193533963	1.560575944	1.611834839	0.142275069
117	0.243730009	1.510379898	1.560437973	0.193671934
118	0.292133603	1.461976305	1.510246365	0.243863543
119	0.338165633	1.415944275	1.461847051	0.292262857
120	0.381251856	1.372858051	1.415819091	0.338290817
121	0.420824686	1.333285221	1.372736676	0.381373231
122	0.45631819	1.297791717	1.333167345	0.420942563
123	0.487167042	1.266942865	1.297676979	0.456432929
124	0.512809649	1.241300258	1.266830854	0.487279053
125	0.532711413	1.221398494	1.241190514	0.512919393
126	0.546444072	1.207665835	1.22129051	0.532819397
127	0.553828643	1.200281265	1.207559065	0.546550842
128	0.555027751	1.199082156	1.200175147	0.55393476
129	0.550402201	1.203707706	1.198976145	0.555133763
130	0.540343432	1.213766476	1.203601286	0.550508622
131	0.525240699	1.228869209	1.213659166	0.540450741
132	0.505481465	1.248628442	1.228760564	0.525349343
133	0.481452415	1.272657492	1.24851805	0.505591857

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
134	0.453540079	1.300569829	1.272544976	0.481564931
135	0.422130891	1.331979016	1.300454845	0.453655063
136	0.387607113	1.366502794	1.331861255	0.422248652
137	0.350325205	1.403784702	1.366381981	0.387727926
138	0.310598954	1.443510954	1.403660593	0.350449315
139	0.268726219	1.485383689	1.443383332	0.310726575
140	0.225000633	1.529109274	1.485252365	0.268857542
141	0.179712706	1.574397202	1.528974085	0.225135822
142	0.133159202	1.620950705	1.574258009	0.179851899
143	0.085660006	1.668449902	1.620807396	0.133302511
144	0.037528778	1.716581129	1.668302393	0.085807514
145	-0.010964618	1.765074526	1.716429365	0.037680542
146	-0.059545517	1.813655425	1.764918474	-0.010808567
147	-0.107923473	1.86203338	1.813495078	-0.059385171
148	-0.155802759	1.909912667	1.861868757	-0.107758849
149	-0.202882557	1.956992464	1.90974381	-0.155633903
150	-0.248837841	2.002947748	1.956819445	-0.202709538
151	-0.293291642	2.04740155	2.002770667	-0.248660759
152	-0.335844729	2.089954637	2.047220538	-0.29311063
153	-0.376091073	2.130200981	2.089769863	-0.335659955
154	-0.413624454	2.167734361	2.130012648	-0.375902741
155	-0.448051372	2.202161279	2.167542711	-0.413432803
156	-0.479010357	2.233120265	2.201966585	-0.447856678
157	-0.506208732	2.260318639	2.232922833	-0.478812926
158	-0.529465283	2.283575191	2.260118803	-0.506008896
159	-0.548712748	2.302822655	2.283373299	-0.529263391
160	-0.563964086	2.318073994	2.302619062	-0.548509154

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
161	-0.575262676	2.329372583	2.317869052	-0.563759144
162	-0.582653579	2.336763486	2.329166642	-0.575056735
163	-0.58617883	2.340288737	2.336556892	-0.582446984
164	-0.585874981	2.339984888	2.340081831	-0.585971923
165	-0.581768484	2.335878391	2.339778009	-0.585668102
166	-0.573872294	2.327982201	2.335671875	-0.581561967
167	-0.562180759	2.316290666	2.327776383	-0.573666476
168	-0.546677001	2.300786908	2.316085882	-0.561975975
169	-0.527341812	2.281451719	2.300583494	-0.546473587
170	-0.504173761	2.258283668	2.281250015	-0.527140107
171	-0.477185581	2.231295488	2.258084012	-0.503974105
172	-0.446402923	2.20051283	2.231098218	-0.476988311
173	-0.411890681	2.166000588	2.200318282	-0.446208375
174	-0.373799871	2.127909778	2.165809091	-0.411699184
175	-0.332386426	2.086496333	2.127721648	-0.373611741
176	-0.288014024	2.042123931	2.086311865	-0.332201958
177	-0.241137424	1.995247331	2.041943386	-0.287833478
178	-0.192252551	1.946362458	1.995070931	-0.240961023
179	-0.141884153	1.895994061	1.946190379	-0.192080472
180	-0.090566041	1.844675948	1.895826435	-0.141716528
181	-0.038832798	1.792942705	1.844512859	-0.090402952
182	0.012780991	1.741328917	1.79278419	-0.038674283
183	0.063740761	1.690369146	1.741174965	0.012934943
184	0.113511973	1.640597935	1.6902197	0.063890208
185	0.161560102	1.592549805	1.640452889	0.113657019
186	0.207350865	1.546759042	1.592409007	0.1617009
187	0.2503578	1.503752108	1.546622293	0.207487615

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
188	0.290085902	1.464024005	1.50361916	0.250490747
189	0.32606725	1.428042658	1.46389457	0.290215337
190	0.357868603	1.396241305	1.427916404	0.326193504
191	0.3851085	1.369001408	1.396117862	0.357992045
192	0.407467169	1.346642739	1.368880374	0.385229534
193	0.424692757	1.32941715	1.346523681	0.407586226
194	0.436620455	1.317489453	1.329299616	0.424810292
195	0.443177397	1.310932511	1.317372973	0.436736934
196	0.44441267	1.309697237	1.31081661	0.443293297
197	0.440518955	1.313590953	1.309581446	0.444528461
198	0.431797031	1.322312876	1.313474817	0.44063509
199	0.418609803	1.335500105	1.32219597	0.431913938
200	0.40134986	1.352760048	1.335382033	0.418727875
201	0.38042484	1.373685067	1.35264045	0.401469458
202	0.356245959	1.397863948	1.373563619	0.380546288
203	0.329217368	1.424892539	1.397740362	0.356369545
204	0.29972919	1.454380718	1.424766564	0.329343344
205	0.268155402	1.485954506	1.454252135	0.299857772
206	0.234855096	1.519254811	1.485823132	0.268286776
207	0.200174686	1.553935222	1.519120493	0.234989414
208	0.164455161	1.589654746	1.553797838	0.20031207
209	0.128042627	1.62606728	1.589514204	0.164595703
210	0.091292299	1.662817609	1.625923519	0.128186389
211	0.054570442	1.699539466	1.662670598	0.091439309
212	0.018258059	1.735851849	1.699389208	0.054720699
213	-0.017252928	1.771362835	1.735698381	0.018411526
214	-0.051565068	1.805674976	1.771206228	-0.01709632

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
215	-0.084288385	1.838398292	1.805515335	-0.051405428
216	-0.115029797	1.869139704	1.838235758	-0.084125851
217	-0.143398507	1.897508415	1.868974453	-0.114864545
218	-0.169014193	1.9231241	1.897340655	-0.143230747
219	-0.191513251	1.945623158	1.922954076	-0.168844168
220	-0.210553725	1.964663632	1.945451145	-0.191341237
221	-0.225832835	1.979942742	1.964489935	-0.210380028
222	-0.237087647	1.991197555	1.979767695	-0.225657787
223	-0.244095406	1.998205313	1.991021512	-0.236911604
224	-0.246692819	2.000802727	1.998028651	-0.243918743
225	-0.244786555	1.998896462	2.000625835	-0.246515927
226	-0.238376315	1.992486222	1.998719739	-0.244609832
227	-0.227553685	1.981663592	1.992310065	-0.238200158
228	-0.212488815	1.966598723	1.981488392	-0.227378485
229	-0.193410265	1.947520173	1.966424855	-0.212314947
230	-0.170608197	1.924718105	1.947347991	-0.193238084
231	-0.14442744	1.898537347	1.924547939	-0.170438032
232	-0.11524917	1.869359077	1.898369497	-0.144259589
233	-0.083471969	1.837581876	1.869193806	-0.115083899
234	-0.049501715	1.803611622	1.837419415	-0.083309507
235	-0.013756331	1.767866239	1.803452164	-0.049342256
236	0.023332284	1.730777623	1.767709941	-0.013600033
237	0.061312601	1.692797307	1.730624604	0.023485303
238	0.099717269	1.654392638	1.692647645	0.061462262
239	0.138067721	1.616042186	1.654246372	0.099863535
240	0.175873872	1.578236035	1.615899311	0.138210597
241	0.212636127	1.541473781	1.578096502	0.176013405

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
242	0.247848684	1.506261224	1.541337498	0.212772409
243	0.281002614	1.473107294	1.506128055	0.247981853
244	0.31158575	1.442524157	1.472977056	0.281132852
245	0.339085241	1.415024667	1.442396623	0.311713284
246	0.362989138	1.39112077	1.414899563	0.339210344
247	0.382787286	1.371322622	1.39099778	0.363112128
248	0.397973169	1.356136739	1.371201383	0.382908525
249	0.408051694	1.346058214	1.356016842	0.398093065
250	0.412588274	1.341521634	1.345939208	0.408170699
251	0.411397127	1.342712781	1.341403029	0.412706878
252	0.404724009	1.349385898	1.342594071	0.411515836
253	0.393024142	1.361085766	1.349266598	0.404843309
254	0.376782478	1.37732743	1.360965431	0.393144476
255	0.356482815	1.397627093	1.377205659	0.376904248
256	0.332608311	1.421501596	1.397503528	0.356606379
257	0.305642014	1.448467893	1.421375921	0.332733987
258	0.276067132	1.478042776	1.448339834	0.305770074
259	0.244366968	1.50974294	1.477912101	0.276197806
260	0.211023044	1.543086863	1.509609462	0.244500445
261	0.176503559	1.577606349	1.542950438	0.211159469
262	0.141244456	1.612865451	1.577466872	0.176643035
263	0.105643466	1.648466442	1.612722857	0.14138705
264	0.070053993	1.684055914	1.6483207	0.105789207
265	0.034805079	1.719304829	1.683907026	0.070202881
266	0.000220722	1.753889186	1.719152824	0.034957083
267	-0.033373639	1.787483547	1.753734124	0.000375784
268	-0.065647382	1.819757289	1.787325514	-0.033215607

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
269	-0.096281738	1.850391645	1.819596403	-0.065486496
270	-0.125003772	1.879113679	1.850228051	-0.096118144
271	-0.151597232	1.905707139	1.878947546	-0.124837638
272	-0.175913186	1.930023093	1.905538655	-0.151428747
273	-0.197867372	1.951977279	1.929852459	-0.175742552
274	-0.217420929	1.971530836	1.951804704	-0.197694796
275	-0.234576901	1.988686809	1.971356532	-0.217246625
276	-0.249365309	2.003475216	1.988510988	-0.234401081
277	-0.261813069	2.015922976	2.003298088	-0.24918818
278	-0.271924546	2.026034454	2.015744747	-0.26163484
279	-0.2796426	2.033752507	2.025855331	-0.271745423
280	-0.284888124	2.038998032	2.033572702	-0.279462795
281	-0.28758964	2.041699547	2.038817763	-0.284707855
282	-0.287721969	2.041831876	2.04151904	-0.287409132
283	-0.285317219	2.039427126	2.041651357	-0.287541449
284	-0.280447274	2.034557181	2.039246819	-0.285136912
285	-0.273200801	2.027310709	2.034377305	-0.280267398
286	-0.263653406	2.017763313	2.027131473	-0.273021566
287	-0.251865594	2.005975501	2.017584922	-0.263475014
288	-0.237888054	1.991997962	2.005798152	-0.251688245
289	-0.221768743	1.975878651	1.991821848	-0.237711941
290	-0.203556844	1.957666751	1.975703962	-0.221594055
291	-0.183301449	1.937411356	1.957493673	-0.203383765
292	-0.161052634	1.915162541	1.937240069	-0.183130161
293	-0.136863571	1.890973479	1.914993221	-0.160883314
294	-0.110795493	1.8649054	1.890806297	-0.136696389
295	-0.082938207	1.837048114	1.864740523	-0.110630616

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
296	-0.053472704	1.807582612	1.8368857	-0.082775792
297	-0.022732227	1.776842134	1.807422802	-0.053312895
298	0.008845532	1.745264375	1.776685043	-0.022575135
299	0.040802812	1.713307095	1.745110076	0.008999832
300	0.072682373	1.681427534	1.713155621	0.040954286
301	0.104026567	1.650083341	1.681278878	0.072831029
302	0.134377675	1.619732233	1.649937456	0.104172451
303	0.163278025	1.590831882	1.619589031	0.134520876
304	0.190268619	1.563841288	1.590691236	0.163418671
305	0.214882312	1.539227596	1.563703028	0.190406879
306	0.236632116	1.517477792	1.539091512	0.215018396
307	0.255022155	1.499087752	1.517343631	0.236766276
308	0.269564253	1.484545654	1.498955217	0.25515469
309	0.279798622	1.474311286	1.484414405	0.269695503
310	0.285350834	1.468759074	1.474180941	0.279928966
311	0.286013727	1.468096181	1.46862922	0.285480687
312	0.281776365	1.472333542	1.467966386	0.286143522
313	0.272801397	1.48130851	1.472203372	0.281906535
314	0.25939253	1.494717378	1.481177547	0.272932361
315	0.241944425	1.512165482	1.494585229	0.259524678
316	0.220921716	1.533188191	1.512031791	0.242078116
317	0.19683224	1.557277668	1.533052641	0.221057266
318	0.170213688	1.58389622	1.557139988	0.196969919
319	0.141614485	1.612495423	1.583756186	0.170353721
320	0.111589472	1.642520435	1.612352861	0.141757046
321	0.080694737	1.67341517	1.642375219	0.111734688
322	0.049485117	1.70462479	1.673267223	0.080842685

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
323	0.018514805	1.735595103	1.704474083	0.049635824
324	-0.011663437	1.765773345	1.735441658	0.018668249
325	-0.040505485	1.794615392	1.765617232	-0.011507324
326	-0.067496509	1.821606417	1.794456729	-0.040346822
327	-0.092209787	1.846319694	1.821445368	-0.06733546
328	-0.114367841	1.868477748	1.84615646	-0.092046553
329	-0.13383543	1.887945337	1.868312555	-0.114202647
330	-0.15058415	1.904694058	1.887778423	-0.133668515
331	-0.164635719	1.918745626	1.904525663	-0.150415755
332	-0.176025658	1.930135565	1.918575989	-0.164466081
333	-0.184800999	1.938910907	1.929964921	-0.175855014
334	-0.191042135	1.945152042	1.938739486	-0.184629579
335	-0.194876849	1.948986757	1.94498007	-0.190870163
336	-0.196472704	1.950582612	1.948814446	-0.194704538
337	-0.196019888	1.950129795	1.95041016	-0.196300252
338	-0.193732534	1.947842441	1.949957383	-0.195847476
339	-0.189854093	1.943964	1.947670232	-0.193560324
340	-0.184648677	1.938758585	1.943792133	-0.189682226
341	-0.178372835	1.932482742	1.938587178	-0.184477271
342	-0.171270051	1.925379959	1.93231189	-0.178201983
343	-0.163557608	1.917667516	1.925209735	-0.171099827
344	-0.155377963	1.90948787	1.917497974	-0.163388066
345	-0.146830812	1.900940719	1.909319051	-0.155209144
346	-0.137991438	1.892101345	1.900772656	-0.146662748
347	-0.128913999	1.883023906	1.891934064	-0.137824156
348	-0.119626946	1.873736853	1.882857427	-0.12874752
349	-0.110131448	1.864241355	1.873571195	-0.119461288

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
350	-0.100406808	1.854516715	1.864076536	-0.109966629
351	-0.090424897	1.844534804	1.854352756	-0.100242849
352	-0.080150116	1.834260024	1.844371728	-0.09026182
353	-0.06954228	1.823652187	1.834097856	-0.079987948
354	-0.05855405	1.812663958	1.823490957	-0.06938105
355	-0.047137569	1.801247476	1.812503699	-0.058393792
356	-0.035255358	1.789365266	1.801088227	-0.04697832
357	-0.02290502	1.777014927	1.789207067	-0.03509716
358	-0.010123478	1.764233385	1.77685782	-0.022747913
359	0.003035823	1.751074084	1.764077408	-0.009967501
360	0.016511766	1.737598142	1.750919271	0.003190637
361	0.030237297	1.723872611	1.73744452	0.016665388
362	0.044132977	1.709976931	1.723720202	0.030389705
363	0.058101825	1.696008082	1.709825751	0.044284157
364	0.072023479	1.682086428	1.695858137	0.05825177
365	0.085751538	1.66835837	1.681937714	0.072172193
366	0.099122082	1.654987826	1.668210869	0.085899038
367	0.111968518	1.642141389	1.654841507	0.0992684
368	0.12412083	1.629989078	1.641996207	0.112113701
369	0.135406037	1.618703871	1.629844969	0.124264938
370	0.145657995	1.608451913	1.61856076	0.135549147
371	0.154726536	1.599383372	1.608309709	0.145800199
372	0.162484628	1.591625279	1.599241969	0.154867938
373	0.16883129	1.585278617	1.591484563	0.162625345
374	0.173692345	1.580417563	1.585138462	0.168971445
375	0.177016592	1.577093315	1.580277837	0.17383207
376	0.178772361	1.575337546	1.576953883	0.177156024

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
377	0.178938137	1.57517177	1.57519827	0.178911638
378	0.177498389	1.576611518	1.575032509	0.179077399
379	0.174442014	1.579667893	1.576472129	0.177637778
380	0.169757679	1.584352229	1.579528234	0.174581673
381	0.163434403	1.590675505	1.584212155	0.169897752
382	0.155467912	1.598641995	1.590534872	0.163575035
383	0.14586597	1.608243938	1.598500658	0.155609249
384	0.134654198	1.619455709	1.608101752	0.146008155
385	0.121903054	1.632206853	1.619312532	0.134797375
386	0.107768553	1.646341354	1.632062549	0.122047359
387	0.09248241	1.661627498	1.6461958	0.107914107
388	0.076334405	1.677775502	1.661480592	0.092629315
389	0.059635392	1.694474516	1.677627169	0.076482738
390	0.042705022	1.711404885	1.694324706	0.059785201
391	0.025866722	1.728243186	1.711253579	0.042856328
392	0.009442629	1.744667278	1.728090391	0.026019517
393	-0.006250518	1.760360425	1.744513031	0.009596876
394	-0.020903254	1.775013161	1.760204791	-0.006094883
395	-0.034212491	1.788322398	1.774856231	-0.020746324
396	-0.045886954	1.799996862	1.788164292	-0.034054384
397	-0.055688344	1.809798252	1.799837723	-0.045727816
398	-0.063498474	1.817608382	1.809638247	-0.055528339
399	-0.069299427	1.823409335	1.817447686	-0.063337778
400	-0.073142063	1.827251971	1.823248126	-0.069138219
401	-0.075096666	1.829206574	1.827090423	-0.072980515
402	-0.07523821	1.829348117	1.829044853	-0.074934945
403	-0.073643547	1.827753454	1.829186384	-0.075076476

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
404	-0.07039595	1.824505857	1.827591861	-0.073481954
405	-0.065611659	1.819721566	1.824344552	-0.070234645
406	-0.05949379	1.813603698	1.819560684	-0.065450776
407	-0.052358052	1.806467959	1.813443356	-0.059333449
408	-0.044605595	1.798715502	1.806308248	-0.052198341
409	-0.036671272	1.790781179	1.798556477	-0.04444657
410	-0.029009573	1.78311948	1.790622855	-0.036512948
411	-0.022073552	1.776183459	1.782961834	-0.028851926
412	-0.016247769	1.770357677	1.776026426	-0.021916518
413	-0.011774939	1.765884846	1.770201158	-0.016091251
414	-0.008750913	1.76286082	1.765728723	-0.011618816
415	-0.007194724	1.761304631	1.762704964	-0.008595057
416	-0.00710037	1.761210278	1.761148914	-0.007039006
417	-0.008450869	1.762560777	1.761054568	-0.006944661
418	-0.011222496	1.765332404	1.762404948	-0.00829504
419	-0.015384418	1.769494325	1.76517633	-0.011066422
420	-0.020884342	1.774994249	1.769337883	-0.015227976
421	-0.02761841	1.781728317	1.774837321	-0.020727413
422	-0.035401282	1.789511189	1.781570794	-0.027460887
423	-0.043985807	1.798095715	1.789352978	-0.03524307
424	-0.053104734	1.807214641	1.797936744	-0.043826837
425	-0.062472957	1.816582865	1.807054864	-0.052944957
426	-0.071772107	1.825882014	1.81642226	-0.062312352
427	-0.080660187	1.834770094	1.825720587	-0.07161068
428	-0.088791195	1.842901102	1.834607881	-0.080497974
429	-0.095820548	1.849930455	1.842738171	-0.088628263
430	-0.101402944	1.855512851	1.849766902	-0.095656994

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
431	-0.105206164	1.859316072	1.855348804	-0.101238897
432	-0.1069228	1.861032707	1.859151689	-0.105041781
433	-0.106263801	1.860373708	1.860868172	-0.106758265
434	-0.10296604	1.857075947	1.860209231	-0.106099324
435	-0.096822606	1.850932514	1.856911762	-0.102801855
436	-0.087718176	1.841828084	1.850768872	-0.096658964
437	-0.075666731	1.829776639	1.841665247	-0.087555339
438	-0.060819403	1.814929311	1.829614867	-0.07550496
439	-0.043483124	1.797593031	1.814768852	-0.060658944
440	-0.024054427	1.778164334	1.797434105	-0.043324198
441	-0.002947918	1.757057826	1.778007126	-0.023897218
442	0.019420981	1.734688927	1.756902483	-0.002792576
443	0.042636487	1.71147342	1.734535562	0.019574346
444	0.066282551	1.687827357	1.711322108	0.042787799
445	0.089942991	1.664166917	1.687678135	0.066431772
446	0.113201517	1.64090839	1.664019787	0.090090121
447	0.135641729	1.618468179	1.640763317	0.113346591
448	0.15684877	1.597261137	1.618325089	0.135784818
449	0.176419268	1.577690639	1.597119923	0.156989985
450	0.193987139	1.560122768	1.577551155	0.176558752
451	0.209284754	1.544825154	1.559984837	0.194125071
452	0.222185067	1.53192484	1.544688575	0.209421333
453	0.232655728	1.52145418	1.531789402	0.222320505
454	0.240692659	1.513417249	1.521319667	0.23279024
455	0.246293914	1.507815993	1.513283447	0.240826461
456	0.249454361	1.504655546	1.507682687	0.246427221
457	0.250162573	1.503947334	1.504522519	0.249587388

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
458	0.248409634	1.505700273	1.50381437	0.250295538
459	0.244222856	1.509887052	1.505567153	0.248542754
460	0.237718625	1.516391283	1.509753562	0.244356346
461	0.229161398	1.524948509	1.516257218	0.23785269
462	0.218926563	1.535183344	1.524813688	0.22929622
463	0.207463799	1.546646109	1.535047618	0.21906229
464	0.195267415	1.558842492	1.546509369	0.207600538
465	0.182846499	1.571263409	1.558704674	0.195405233
466	0.1706955	1.583414407	1.571124492	0.182985415
467	0.1592495	1.594860408	1.583274417	0.170835491
468	0.14881533	1.605294578	1.594719405	0.159390502
469	0.139555444	1.614554464	1.605152653	0.148957255
470	0.131510471	1.622599436	1.61441172	0.139698187
471	0.124655489	1.629454419	1.622455981	0.131653926
472	0.118925199	1.635184708	1.629310358	0.12479955
473	0.1142243	1.639885607	1.635040141	0.119069767
474	0.110444134	1.643665773	1.639740624	0.114369283
475	0.107462352	1.646647555	1.643520456	0.110589451
476	0.105123172	1.648986736	1.646501974	0.107607933
477	0.103212139	1.650897768	1.648840948	0.10526896
478	0.101441302	1.652668605	1.650751812	0.103358096
479	0.099487226	1.654622682	1.652522492	0.101587415
480	0.097014462	1.657095445	1.654476396	0.099633512
481	0.093681579	1.660428329	1.656948941	0.097160967
482	0.089143738	1.66496617	1.660281529	0.093828378
483	0.0830565	1.671053407	1.664818969	0.089290938
484	0.075078478	1.67903143	1.670905668	0.083204239

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
485	0.064884457	1.689225451	1.678882986	0.075226922
486	0.052207537	1.70190237	1.689076105	0.065033802
487	0.036875642	1.717234265	1.701751904	0.052358003
488	0.018812379	1.735297529	1.717082443	0.037027464
489	-0.001961842	1.756071749	1.73514411	0.018965797
490	-0.025349246	1.779459154	1.755916494	-0.001806586
491	-0.051188506	1.805298413	1.779301831	-0.025191923
492	-0.079256424	1.833366331	1.805138806	-0.051028898
493	-0.109277203	1.86338711	1.833204242	-0.079094335
494	-0.140931919	1.895041827	1.863222367	-0.10911246
495	-0.173856331	1.927966239	1.894874285	-0.140764378
496	-0.207648094	1.961758001	1.927795786	-0.173685879
497	-0.241878545	1.995988452	1.961584561	-0.207474654
498	-0.2761187	2.030228608	1.995811986	-0.241702078
499	-0.30995342	2.064063328	2.030049114	-0.275939207
500	-0.3429951	2.097105007	2.063880843	-0.309770935
501	-0.374892787	2.129002695	2.096919601	-0.342809694
502	-0.405319999	2.159429906	2.128814468	-0.374704561
503	-0.433967185	2.188077093	2.15923899	-0.405129082
504	-0.460543672	2.21465358	2.187883644	-0.433773736
505	-0.484777806	2.238887713	2.214457781	-0.460347873
506	-0.506420747	2.260530654	2.238689772	-0.484579865
507	-0.525258615	2.279368523	2.260330799	-0.506220892
508	-0.541118268	2.295228175	2.279167003	-0.525057095
509	-0.553867486	2.307977393	2.295025253	-0.540915346
510	-0.563413694	2.317523601	2.307773344	-0.553663437
511	-0.569674212	2.323784119	2.317318708	-0.563208801

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
512	-0.57256667	2.326676578	2.323578672	-0.569468765
513	-0.572007197	2.326117105	2.326470875	-0.572360968
514	-0.567909858	2.322019765	2.325911452	-0.571801544
515	-0.560187324	2.314297232	2.321814474	-0.567704567
516	-0.548750263	2.302860171	2.314092623	-0.559982716
517	-0.53351047	2.287620378	2.302656574	-0.548546666
518	-0.514382743	2.26849265	2.287418128	-0.533308221
519	-0.491293808	2.245403715	2.268292092	-0.514182184
520	-0.464196005	2.218305912	2.245205198	-0.49109529
521	-0.433092013	2.18720192	2.218109791	-0.463999883
522	-0.398047745	2.152157653	2.187008549	-0.432898641
523	-0.359197084	2.113306992	2.151967379	-0.397857472
524	-0.316747952	2.07085786	2.113120153	-0.359010246
525	-0.270984898	2.025094806	2.070674774	-0.316564867
526	-0.222266655	1.976376562	2.024915766	-0.270805859
527	-0.171011177	1.925121085	1.97620183	-0.222091922
528	-0.117670399	1.871780306	1.924950884	-0.170840976
529	-0.062715746	1.816825653	1.871614821	-0.117504914
530	-0.006638204	1.760748112	1.816665026	-0.062555119
531	0.050060725	1.704049182	1.760592443	-0.006482536
532	0.106881023	1.647228884	1.703898526	0.050211381
533	0.163332261	1.590777646	1.647083252	0.107026656
534	0.218939037	1.53517087	1.590637005	0.163472903
535	0.273252271	1.480857637	1.535035145	0.219074762
536	0.32586296	1.428246948	1.480726713	0.273383194
537	0.376419837	1.377690071	1.428120676	0.325989232
538	0.424626644	1.329483263	1.377568269	0.376541639

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
539	0.470236826	1.283873081	1.329365723	0.424744184
540	0.513044803	1.241065105	1.283759573	0.470350334
541	0.552868434	1.201241474	1.240955382	0.513154526
542	0.589541432	1.164568475	1.201135271	0.552974636
543	0.622915923	1.131193984	1.164465515	0.589644392
544	0.652852174	1.101257733	1.131093975	0.623015933
545	0.679210161	1.074899746	1.10116037	0.652949537
546	0.701848357	1.05226155	1.074804714	0.679305194
547	0.720623442	1.033486466	1.052168519	0.701941388
548	0.735389786	1.018720121	1.033395094	0.720714813
549	0.745998038	1.008111869	1.018630056	0.735479852
550	0.752292738	1.00181717	1.008022742	0.746087166
551	0.754109907	1	1.001728599	0.752381309
552	0.751273938	1.00283597	0.999911589	0.754198318
553	0.743595073	1.010514835	1.002747309	0.751362599
554	0.730870454	1.023239454	1.010425494	0.743684413
555	0.712889233	1.041220674	1.023148988	0.730960919
556	0.689447166	1.064662742	1.041128619	0.712981288
557	0.660420488	1.09368942	1.064568614	0.689541293
558	0.625938492	1.128171415	1.093592726	0.660517181
559	0.586439144	1.167670763	1.128071673	0.626038235
560	0.542463802	1.211646105	1.167567529	0.586542378
561	0.494571589	1.259538318	1.211538983	0.542570924
562	0.443323907	1.310786001	1.259426962	0.494682946
563	0.389282191	1.364827717	1.310670113	0.443439794
564	0.333008112	1.421101796	1.364707052	0.389402856
565	0.275063405	1.479046502	1.420976155	0.333133752

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
566	0.216009807	1.538100101	1.478915739	0.275194169
567	0.156409049	1.597700859	1.537964117	0.216145791
568	0.096822858	1.657287049	1.597559605	0.156550302
569	0.037812952	1.716296956	1.657140528	0.09696938
570	-0.020058957	1.774168865	1.716145217	0.03796469
571	-0.076231156	1.830341063	1.77401201	-0.019902102
572	-0.130143435	1.884253342	1.830179242	-0.076069335
573	-0.181244498	1.935354406	1.884086754	-0.129976847
574	-0.229005694	1.983115601	1.9351833	-0.181073392
575	-0.272953683	2.02706359	1.982940273	-0.228830365
576	-0.312706247	2.066816155	2.026884377	-0.272774469
577	-0.348018721	2.102128628	2.066633426	-0.312523519
578	-0.378799063	2.13290897	2.101942778	-0.34783287
579	-0.405111098	2.159221006	2.132720398	-0.378610491
580	-0.427089192	2.181199099	2.159030108	-0.404920201
581	-0.444879636	2.198989543	2.181006258	-0.426896351
582	-0.458629395	2.212739302	2.198795129	-0.444685222
583	-0.468486119	2.222596027	2.212543673	-0.458433765
584	-0.474598304	2.228708212	2.222399526	-0.468289618
585	-0.477116372	2.231226279	2.228511171	-0.474401263
586	-0.476191779	2.230301686	2.231029015	-0.476919108
587	-0.471976623	2.22608653	2.230104504	-0.475994597
588	-0.464623479	2.218733386	2.225889721	-0.471779813
589	-0.454288997	2.208398905	2.218537227	-0.464427319
590	-0.441140814	2.195250721	2.208203659	-0.454093752
591	-0.425374878	2.179484786	2.195056638	-0.44094673
592	-0.407230622	2.16134053	2.179292096	-0.425182189

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
593	-0.386989213	2.14109912	2.161149445	-0.407039537
594	-0.364978879	2.119088787	2.140909825	-0.386799917
595	-0.341575588	2.095685496	2.118901437	-0.364791529
596	-0.317190524	2.071300431	2.095500215	-0.341390308
597	-0.292243277	2.046353185	2.071117307	-0.317007399
598	-0.267130561	2.021240468	2.046172266	-0.292062358
599	-0.242181555	1.996291463	2.021061769	-0.266951862
600	-0.217624144	1.971734052	1.996114969	-0.242005062
601	-0.193604617	1.947714524	1.971559729	-0.217449822
602	-0.170233195	1.924343103	1.947542326	-0.193432419
603	-0.147587972	1.901697879	1.924172971	-0.170063063
604	-0.125715326	1.879825233	1.901529749	-0.147419842
605	-0.104640492	1.858750399	1.879659037	-0.12554913
606	-0.08437366	1.838483568	1.858586066	-0.104476159
607	-0.06494457	1.819054477	1.838321026	-0.084211119
608	-0.046407016	1.800516923	1.818893654	-0.064783747
609	-0.028823525	1.782933432	1.800357738	-0.046247831
610	-0.012263619	1.766373527	1.782775802	-0.028665895
611	0.003190801	1.750919107	1.766217361	-0.012107453
612	0.017435423	1.736674485	1.750764307	0.0033456
613	0.030355775	1.723754133	1.736520945	0.017588963
614	0.041831466	1.712278441	1.723601735	0.030508173
615	0.051734322	1.702375585	1.712127058	0.04198285
616	0.059933812	1.694176095	1.702225077	0.05188483
617	0.066324408	1.6877855	1.694026312	0.060083595
618	0.070835875	1.683274033	1.687636282	0.066473626
619	0.073440075	1.680669833	1.683125214	0.070984694

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
620	0.074142274	1.679967634	1.680521244	0.073588664
621	0.072959897	1.68115001	1.679819107	0.0742908
622	0.069906303	1.684203604	1.681001379	0.073108528
623	0.065000055	1.689109852	1.684054703	0.070055205
624	0.058265972	1.695843935	1.688960517	0.06514939
625	0.049731523	1.704378384	1.695694005	0.058415902
626	0.039426317	1.71468359	1.704227699	0.049882208
627	0.027381313	1.726728595	1.714531994	0.039577913
628	0.013628484	1.740481423	1.726575934	0.027533974
629	-0.001793237	1.755903144	1.740327546	0.013782361
630	-0.018805017	1.772914925	1.755747904	-0.001637996
631	-0.03723833	1.791348238	1.77275818	-0.018648273
632	-0.056844758	1.810954665	1.791189864	-0.03707956
633	-0.077346808	1.831456716	1.810794558	-0.05668465
634	-0.098460384	1.852570292	1.831294796	-0.077184888
635	-0.119898604	1.874008512	1.852406505	-0.098296598
636	-0.141373728	1.895483635	1.873842829	-0.119732922
637	-0.162597703	1.91670761	1.895316055	-0.141206147
638	-0.183282731	1.937392639	1.916538153	-0.162428246
639	-0.20314097	1.957250878	1.937221353	-0.183111445
640	-0.221883852	1.975993759	1.957077836	-0.202967929
641	-0.239221246	1.993331153	1.97581906	-0.221709153
642	-0.254862964	2.008972871	1.993154922	-0.239045014
643	-0.268523462	2.022633369	2.008795257	-0.254685349
644	-0.279935752	2.034045659	2.022454547	-0.268344639
645	-0.288881615	2.042991523	2.033865828	-0.279755921
646	-0.295230737	2.049340645	2.042810901	-0.288700993

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
647	-0.298966354	2.053076262	2.049159461	-0.295049554
648	-0.300134817	2.054244724	2.052894748	-0.298784841
649	-0.298813916	2.052923823	2.054063108	-0.2999532
650	-0.295096878	2.049206786	2.052742323	-0.298632415
651	-0.289084972	2.043194879	2.049025614	-0.294915707
652	-0.280888531	2.034998438	2.043014239	-0.288904332
653	-0.270629232	2.024739139	2.034818523	-0.280708616
654	-0.258448339	2.012558246	2.024560131	-0.270450224
655	-0.244515588	1.998625496	2.012380315	-0.258270408
656	-0.229032009	1.983141916	1.998448796	-0.244338889
657	-0.212220139	1.966330047	1.982966586	-0.228856678
658	-0.19431458	1.948424487	1.966156202	-0.212046295
659	-0.175553724	1.929663631	1.948252226	-0.194142319
660	-0.156172526	1.910282433	1.929493029	-0.175383121
661	-0.136400848	1.890510755	1.910113544	-0.156003637
662	-0.116457177	1.870567084	1.890343614	-0.136233707
663	-0.096546589	1.850656496	1.870401707	-0.116291799
664	-0.076861277	1.830971184	1.850492879	-0.096382971
665	-0.057587604	1.811697512	1.830809307	-0.0766994
666	-0.038907479	1.793017386	1.811537338	-0.057427431
667	-0.020999031	1.775108939	1.792858865	-0.038748957
668	-0.00403503	1.758144938	1.774952	-0.020842093
669	0.011824266	1.742285641	1.757989499	-0.003879592
670	0.026431204	1.727678703	1.742131605	0.011978302
671	0.039659267	1.71445064	1.727525958	0.026583949
672	0.051408856	1.702701052	1.714299065	0.039810843
673	0.061608649	1.692501258	1.702550515	0.051559392

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
674	0.07021993	1.683889978	1.692351623	0.061758284
675	0.077232729	1.676877179	1.683741104	0.070368803
676	0.082655704	1.671454204	1.676728925	0.077380982
677	0.086512841	1.667597066	1.67130643	0.082803478
678	0.088842604	1.665267303	1.667449633	0.086660274
679	0.089702245	1.664407663	1.665120076	0.088989832
680	0.089172033	1.664937874	1.664260511	0.089849396
681	0.087350361	1.666759546	1.664790676	0.089319231
682	0.084351226	1.669758682	1.666612187	0.08749772
683	0.080299357	1.67381055	1.669611057	0.08449885
684	0.075324737	1.67878517	1.673662568	0.080447339
685	0.069562039	1.684547868	0.075061096	0.075061096
686	0.063148401	1.690961506	0.069318567	0.069318567
687	0.056222872	1.697887036	0.062927378	0.062927378
688	0.048926641	1.705183267	0.056026088	0.056026088
689	0.041398677	1.712711231	0.048755394	0.048755394
690	0.033771977	1.72033793	0.041253779	0.041253779
691	0.026166014	1.727943893	0.033653773	0.033653773
692	0.018684771	1.735425136	0.026074431	0.026074431
693	0.011419133	1.742690774	0.018619373	0.018619373
694	0.004451183	1.749658724	0.011379166	0.011379166
695	-0.002144988	1.756254896	0.004435604	0.004435604
696	-0.00830341	1.762413317	-0.002137481	-0.002137481
697	-0.013963499	1.768073407	-0.008274348	-0.008274348
698	-0.019069639	1.773179546	-0.013914626	-0.013914626
699	-0.023575355	1.777685262	-0.019002894	-0.019002894
700	-0.027441366	1.781551273	-0.02349284	-0.02349284

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
701	-0.030634528	1.784744435	-0.027345319	-0.027345319
702	-0.033129192	1.787239099	-0.030527305	-0.030527305
703	-0.034906828	1.789016735	-0.033013237	-0.033013237
704	-0.035958023	1.79006793	-0.034784652	-0.034784652
705	-0.036287905	1.790397812	-0.035832167	-0.035832167
706	-0.03591734	1.790027248	-0.036160894	-0.036160894
707	-0.034881813	1.78899172	-0.035791627	-0.035791627
708	-0.033225194	1.787335101	-0.034759724	-0.034759724
709	-0.03099703	1.785106938	-0.033108903	-0.033108903
710	-0.028250159	1.782360067	-0.030888539	-0.030888539
711	-0.025036646	1.779146554	-0.028151282	-0.028151282
712	-0.021409152	1.775519059	-0.024949016	-0.024949016
713	-0.017416568	1.771526475	-0.021334218	-0.021334218
714	-0.013106324	1.767216231	-0.017355608	-0.017355608
715	-0.008525746	1.762635654	-0.013060451	-0.013060451
716	-0.003722163	1.757832071	-0.008495906	-0.008495906
717	0.001257067	1.75285284	-0.003709135	-0.003709135
718	0.006364477	1.74774543	0.001252667	0.001252667
719	0.011552558	1.742557349	0.006342201	0.006342201
720	0.016773642	1.737336265	0.011512124	0.011512124
721	0.021979714	1.732130193	0.016714933	0.016714933
722	0.027123318	1.726986589	0.021902784	0.021902784
723	0.03215892	1.721950987	0.027028385	0.027028385
724	0.037046808	1.7170631	0.032046362	0.032046362
725	0.041755231	1.712354676	0.036917141	0.036917141
726	0.046262589	1.707847318	0.041609085	0.041609085
727	0.050554336	1.703555571	0.046100667	0.046100667

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
728	0.054619185	1.699490723	0.050377393	0.050377393
729	0.058446447	1.695663461	0.054428014	0.054428014
730	0.062025742	1.692084166	0.05824188	0.05824188
731	0.065346767	1.68876314	0.061808648	0.061808648
732	0.06839922	1.685710688	0.065118049	0.065118049
733	0.071172795	1.682937112	0.068159818	0.068159818
734	0.073657191	1.680452716	0.070923686	0.070923686
735	0.075842105	1.678267803	0.073399386	0.073399386
736	0.077717231	1.676392676	0.075576652	0.075576652
737	0.079272269	1.674837639	0.077445216	0.077445216
738	0.080496913	1.673612994	0.07899481	0.07899481
739	0.081380862	1.672729045	0.080215169	0.080215169
740	0.081913811	1.672196096	0.081096023	0.081096023
741	0.082085458	1.67202445	0.081627107	0.081627107
742	0.081885499	1.672224409	0.081798153	0.081798153
743	0.08130363	1.672806277	0.081598894	0.081598894
744	0.08032955	1.673780358	0.081019062	0.081019062
745	0.078952953	1.675156954	0.080048391	0.080048391
746	0.077163538	1.67694637	0.078676612	0.078676612
747	0.074951	1.679158907	0.07689346	0.07689346
748	0.072305037	1.68180487	0.074688667	0.074688667
749	0.069215346	1.684894562	0.072051965	0.072051965
750	0.065671622	1.688438286	0.068973087	0.068973087
751	0.061663563	1.692446345	0.065441767	0.065441767
752	0.057180865	1.696929042	0.061447736	0.061447736
753	0.052213226	1.701896681	0.056980728	0.056980728
754	0.046750342	1.707359566	0.052030476	0.052030476

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
755	0.040781909	1.713327999	0.046586712	0.046586712
756	0.034297624	1.719812283	0.040639169	0.040639169
757	0.027287185	1.726822722	0.03417758	0.03417758
758	0.019740288	1.73436962	0.027191678	0.027191678
759	0.011646629	1.742463279	0.019671195	0.019671195
760	0.002995905	1.751114002	0.011605865	0.011605865
761	0.011605865			0.011432063
762	0.011432063			0.01125899
763	0.01125899			0.01108664
764	0.01108664			0.010915012
765	0.010915012			0.010744103
766	0.010744103			0.010573908
767	0.010573908			0.010404426
768	0.010404426			0.010235653
769	0.010235653			0.010067587
770	0.010067587			0.009900224
771	0.009900224			0.009733561
772	0.009733561			0.009567596
773	0.009567596			0.009402326
774	0.009402326			0.009237747
775	0.009237747			0.009073857
776	0.009073857			0.008910653
777	0.008910653			0.008748132
778	0.008748132			0.008586291
779	0.008586291			0.008425128
780	0.008425128			0.008264639
781	0.008264639			0.008104821

Periode per-hari	IMF5	IMF5Reverse	Hasil Peramalan IMF 5	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
782	0.008104821			0.007945673
783	0.007945673			0.007787191
784	0.007787191			0.007629372
785	0.007629372			0.007472213
786	0.007472213			0.007315713
787	0.007315713			0.007159867
788	0.007159867			0.007004673
789	0.007004673			0.006850129
790	0.006850129			0.006696232
791	0.006696232			0.006542979

LAMPIRAN I SELURUH PROSES IMF 6

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
1	-0.110993879	1.990608467	2.533555708			
2	-0.088924558	1.968539146	2.495700276	2.533506915	1.990918137	-0.111303549
3	-0.06774036	1.947354947	2.459502663	2.495652213	1.968839968	-0.08922538
4	-0.047427061	1.927041649	2.424922467	2.4594552965	1.947647335	-0.068032747
5	-0.027970438	1.907585026	2.391920134	2.4248757665	1.927326	-0.047711412
6	-0.009356268	1.888970856	2.360456941	2.3918740692	1.907861731	-0.028247143
7	0.008429672	1.871184916	2.330494983	2.3604114826	1.889240291	-0.009625703
8	0.025401606	1.854212982	2.301997155	2.3304501016	1.871447447	0.008167141
9	0.041573757	1.838040831	2.274927136	2.3019528219	1.854468963	0.025145624
10	0.056960348	1.82265424	2.249249373	2.2748833241	1.838290608	0.04132398
11	0.071575603	1.808038985	2.224929064	2.2492060561	1.822898146	0.056716442
12	0.085433744	1.794180844	2.201932138	2.2248862158	1.808277344	0.071337244
13	0.098548996	1.781065592	2.180225234	2.2018897320	1.79441397	0.085200618
14	0.110935581	1.768679007	2.159775685	2.1801832458	1.781293791	0.098320797
15	0.122607722	1.757006866	2.140551497	2.1597340910	1.768902573	0.110712014
16	0.133579643	1.746034944	2.122521327	2.1405102733	1.757226087	0.122388501
17	0.143865568	1.73574902	2.105654461	2.1224804502	1.746250098	0.13336449
18	0.153479719	1.726134869	2.089920795	2.1056139091	1.735960376	0.143654212
19	0.16243632	1.717178268	2.075290811	2.0898805464	1.726342689	0.153271899
20	0.170749593	1.708864994	2.061735556	2.0752508444	1.717382806	0.162231782
21	0.178433764	1.701180824	2.049226616	2.0616958499	1.709066496	0.170548092
22	0.185503053	1.694111535	2.037736097	2.0491871507	1.701379529	0.178235059
23	0.191971686	1.687642902	2.0272366	2.0376968531	1.694307673	0.185306915
24	0.197853884	1.681760704	2.017701198	2.0271975584	1.687836699	0.191777889

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
25	0.203163872	1.676450716	2.009103411	2.0176623398	1.681952376	0.197662212
26	0.207915873	1.671698715	2.001417187	2.0090647190	1.676640475	0.202974113
27	0.21212411	1.667490478	1.994616872	2.0013786425	1.671886766	0.207727822
28	0.215802806	1.663811782	1.988677193	1.9945784588	1.667677019	0.211937569
29	0.218966184	1.660648404	1.983573231	1.9886388942	1.663997004	0.215617583
30	0.221628469	1.657986119	1.9792804	1.9835350306	1.660832494	0.218782094
31	0.223803882	1.655810706	1.975774421	1.9792422817	1.658169258	0.22144533
32	0.225506648	1.65410794	1.973031305	1.9757363705	1.655993068	0.22362152
33	0.22675099	1.652863598	1.971027325	1.9729933070	1.654289695	0.225324893
34	0.22755113	1.652063458	1.969738998	1.9709893657	1.65304491	0.226569678
35	0.227921293	1.651693295	1.969143064	1.9697010642	1.652244484	0.227370103
36	0.227875701	1.651738887	1.969216461	1.9691051413	1.65187419	0.227740398
37	0.227428578	1.65218601	1.969936309	1.9691785369	1.651919798	0.22769479
38	0.226594147	1.653020441	1.971279887	1.9698983707	1.65236708	0.227247508
39	0.225386631	1.654227957	1.973224617	1.9712419231	1.653201809	0.226412779
40	0.223820254	1.655794334	1.975748042	1.9731866156	1.654409755	0.225204833
41	0.221909239	1.657705349	1.978827809	1.9757099919	1.655976691	0.223637897
42	0.219667809	1.659946779	1.982441655	1.9787897002	1.657888388	0.2217262
43	0.217110187	1.662504401	1.986567382	1.9824034758	1.660130619	0.219483969
44	0.214250597	1.665363991	1.991182852	1.9865291242	1.662689155	0.216925433
45	0.211103263	1.668511325	1.996265962	1.9911445050	1.665549769	0.214064819
46	0.207682406	1.671932182	2.001794634	1.9962275169	1.668698232	0.210916356
47	0.204002266	1.675612322	2.007746779	2.0017560828	1.672120316	0.207494272
48	0.200077183	1.679537405	2.014100134	2.0077081128	1.67580178	0.203812808
49	0.1959217	1.683692888	2.0208321	2.0140613457	1.679728276	0.199886312
50	0.191550449	1.688064138	2.027919897	2.0207931820	1.683885258	0.19572933

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
51	0.186978284	1.692636304	2.035340352	2.0278808421	1.688258087	0.191356501
52	0.182220212	1.697394376	2.043069987	2.0353011541	1.692831907	0.186782681
53	0.177291266	1.702323322	2.051085219	2.0430306408	1.697591705	0.182022883
54	0.172206491	1.707408097	2.059362378	2.0510457182	1.702522441	0.177092146
55	0.166981	1.712633588	2.067877601	2.0593227174	1.707609067	0.172005521
56	0.161630062	1.717984526	2.076606684	2.0678377767	1.712836464	0.166778123
57	0.156169096	1.723445492	2.085525084	2.0765666922	1.718189359	0.161425229
58	0.150613955	1.729000633	2.094607446	2.0854849199	1.723652325	0.155962263
59	0.144981068	1.73463352	2.103827363	2.0945671067	1.729209505	0.150405083
60	0.139287463	1.740327125	2.113157329	2.1037868469	1.734844465	0.144770123
61	0.133550754	1.746063834	2.122568748	2.1131166328	1.74054017	0.139074418
62	0.127788729	1.751825859	2.132032612	2.1225278708	1.746278998	0.13333559
63	0.122019186	1.757595402	2.141519757	2.1319915527	1.752043157	0.127571431
64	0.116259922	1.763354666	2.151000886	2.1414785143	1.757814842	0.121799746
65	0.110528715	1.769085873	2.160446602	2.1509594610	1.763576248	0.11603834
66	0.104843311	1.774771277	2.169827428	2.1604049952	1.769309591	0.110304997
67	0.099221437	1.780393151	2.179113789	2.1697856405	1.774997119	0.104617469
68	0.093680776	1.785933812	2.188276057	2.1790718222	1.780621097	0.098993491
69	0.088238978	1.79137561	2.197284539	2.1882339142	1.786163837	0.093450751
70	0.082913614	1.796700974	2.20610956	2.1972422225	1.79160768	0.088006908
71	0.077722231	1.801892357	2.214721379	2.2060670740	1.79693505	0.082679538
72	0.072682318	1.80693227	2.223090248	2.2146787268	1.802128392	0.077486196
73	0.067811072	1.811803516	2.231186818	2.2230474347	1.80717021	0.072444378
74	0.063125111	1.816489477	2.238982622	2.2311438491	1.812043301	0.067571287
75	0.058640228	1.82097436	2.246450507	2.2389395032	1.816731039	0.062883549
76	0.054370999	1.825243589	2.253565288	2.2464072434	1.821217627	0.058396961

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
77	0.050330293	1.829284295	2.260304603	2.2535218881	1.825488481	0.054126107
78	0.046527586	1.833087002	2.266651735	2.2602610728	1.829530727	0.050083861
79	0.042964854	1.836649734	2.272602511	2.2666080828	1.833334885	0.046279703
80	0.039636604	1.839977984	2.278165289	2.2725587438	1.836898979	0.042715609
81	0.036532964	1.843081624	2.283355835	2.2781214152	1.840228503	0.039386085
82	0.033642465	1.845972123	2.288192678	2.2833118608	1.843333331	0.036281257
83	0.030953163	1.848661425	2.29269523	2.2881486105	1.846224938	0.03338965
84	0.02845283	1.851161757	2.296883459	2.2926510763	1.848915273	0.030699315
85	0.02612904	1.853485548	2.300777745	2.2968392243	1.851416566	0.028198022
86	0.023969386	1.855645202	2.304398501	2.3007334355	1.85374125	0.025873338
87	0.021961493	1.857653095	2.307766145	2.3043541214	1.855901735	0.023712853
88	0.020092994	1.859521594	2.310901146	2.3077217011	1.857910401	0.021704187
89	0.018351517	1.861263071	2.313824018	2.3108566412	1.859779621	0.019834967
90	0.016724694	1.862889894	2.316555323	2.3137794576	1.861521769	0.018092819
91	0.015200155	1.864414433	2.31911566	2.3165107102	1.863149219	0.016465369
92	0.013765532	1.865849056	2.32152566	2.3190709978	1.864674347	0.014940241
93	0.012408464	1.867206124	2.323805975	2.3214809514	1.866109523	0.013505064
94	0.011116591	1.868497997	2.325977282	2.3237612223	1.867467116	0.012147472
95	0.009877559	1.869737029	2.328060269	2.3259324869	1.868759489	0.010855099
96	0.008679029	1.870935559	2.330075627	2.3280154344	1.869999	0.009615588
97	0.007508611	1.872105977	2.33204415	2.3300307531	1.871197993	0.008416595
98	0.006353907	1.873260681	2.333986668	2.3319992389	1.872368864	0.007245724
99	0.005202536	1.874412052	2.335923995	2.3339417189	1.873524016	0.006090572
100	0.004042005	1.875572583	2.337877157	2.3358790088	1.874675833	0.004938755
101	0.002859875	1.876754713	2.339867106	2.3378321335	1.875836813	0.003777775
102	0.001644088	1.8779705	2.34191417	2.3398220441	1.877019402	0.002595186

Periode per-hari	IMF6	IMF6Reversed	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
103	0.000382971	1.879231617	2.344038047	2.3418690687	1.87823566	0.001378928
104	-0.000935027	1.880549615	2.346258254	2.3439929050	1.879497266	0.000117322
105	-0.002321149	1.881935737	2.348593805	2.3462130685	1.880815776	-0.001201188
106	-0.003786555	1.883401143	2.351063602	2.3485485747	1.882202436	-0.002587848
107	-0.005342336	1.884956924	2.353686454	2.3510183246	1.883668412	-0.004053824
108	-0.006999482	1.88661407	2.356481027	2.3536411256	1.885224798	-0.00561021
109	-0.008768955	1.888383543	2.359465977	2.3564356453	1.886882587	-0.007268
110	-0.010661642	1.890272623	2.362659864	2.3594205377	1.888652749	-0.009038161
111	-0.012688366	1.892302954	2.366081178	2.3626143633	1.890546174	-0.010931586
112	-0.014859845	1.894474433	2.369748278	2.3660356113	1.892573687	-0.012959099
113	-0.017186739	1.896801327	2.373679471	2.3697026401	1.894746013	-0.015131425
114	-0.019679661	1.899294249	2.377893037	2.3736337578	1.897073815	-0.017459227
115	-0.02234915	1.901963738	2.382407187	2.3778472420	1.899567771	-0.019953122
116	-0.025205664	1.904820251	2.387240056	2.3823613052	1.902238243	-0.022623655
117	-0.028259547	1.907874135	2.392409661	2.3871940819	1.905095874	-0.025481286
118	-0.031521019	1.911135607	2.397933873	2.3923635874	1.908150953	-0.028536365
119	-0.035000156	1.914614744	2.403830403	2.3978876925	1.911413703	-0.031799116
120	-0.038706882	1.918321469	2.410116788	2.4037841091	1.914894206	-0.035279618
121	-0.042651002	1.92226559	2.416810455	2.4100703729	1.918602388	-0.0389878
122	-0.046842175	1.926456763	2.423928674	2.4167639110	1.922548061	-0.042933473
123	-0.051289712	1.9309043	2.431488235	2.4238819929	1.926740884	-0.047126296
124	-0.056002669	1.935617257	2.439505594	2.4314414084	1.931190176	-0.051575588
125	-0.060988974	1.940603562	2.447995402	2.4394586133	1.935904995	-0.056290407
126	-0.066252555	1.945867142	2.456965601	2.4479482576	1.940893273	-0.061278685
127	-0.071792728	1.951407316	2.466416357	2.4569182841	1.946158939	-0.066544351
128	-0.077604417	1.957219005	2.476340387	2.4663688572	1.951701312	-0.072086724

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
129	-0.08367727	1.963291858	2.486721417	2.4762926967	1.957515313	-0.077900725
130	-0.089995462	1.969610049	2.497533776	2.4866735262	1.963590586	-0.083975998
131	-0.096538911	1.976153499	2.508744437	2.4974856779	1.9699113	-0.090296712
132	-0.103285283	1.982899871	2.520316382	2.5086961226	1.976457367	-0.096842779
133	-0.110211394	1.989825982	2.532210988	2.5202678450	1.983206444	-0.103591856
134	-0.117293864	1.996908452	2.544389127	2.5321622219	1.990135337	-0.110520749
135	-0.12450918	2.004123768	2.55681126	2.5443401260	1.997220659	-0.117606071
136	-0.131833744	2.011448332	2.569437513	2.5567620197	2.004438886	-0.124824298
137	-0.139243915	2.018858503	2.582227741	2.5693880301	2.011766412	-0.132151824
138	-0.146716015	2.026330603	2.595141522	2.5821780110	2.019179587	-0.139564999
139	-0.154226344	2.033840931	2.608138196	2.5950915435	2.026654721	-0.147040133
140	-0.161751192	2.04136578	2.621176869	2.6080879671	2.034168108	-0.15455352
141	-0.169266852	2.048881439	2.634216438	2.6211263890	2.041696027	-0.162081439
142	-0.176749549	2.056364137	2.647215477	2.6341657074	2.04921476	-0.169600172
143	-0.184175077	2.063789664	2.66013159	2.6471644958	2.056700524	-0.177085936
144	-0.191518664	2.071133252	2.672921198	2.6600803605	2.064129102	-0.184514514
145	-0.19875514	2.078369728	2.685539813	2.6728697219	2.071475711	-0.191861124
146	-0.205859036	2.085473624	2.69794222	2.6854880933	2.078715173	-0.199100585
147	-0.212804741	2.092419329	2.710082768	2.6978902617	2.085822005	-0.206207417
148	-0.219566517	2.099181105	2.721915393	2.7100305763	2.092770587	-0.213155999
149	-0.226118214	2.105732802	2.733393138	2.7218629732	2.099535169	-0.219920581
150	-0.232433582	2.11204817	2.744468715	2.7333404972	2.10608959	-0.226475002
151	-0.238486459	2.118101047	2.755094842	2.7444158609	2.112407589	-0.232793001
152	-0.244251016	2.123865604	2.765224706	2.7550417834	2.118462991	-0.238848403
153	-0.249701606	2.129316194	2.774811709	2.7651714519	2.124229957	-0.244615369
154	-0.254813063	2.134427651	2.783810029	2.7747582703	2.129682829	-0.250068241

Periode per-hari	IMF6	IMF6Revers e	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
155	-0.259560967	2.139175555	2.792175108	2.7837564174	2.134796429	-0.255181841
156	-0.263922336	2.143536924	2.799864907	2.7921213353	2.139546325	-0.259931737
157	-0.267876216	2.147490804	2.806840975	2.7998109856	2.143909527	-0.264294939
158	-0.271404603	2.151019191	2.81307012	2.8067869193	2.147865071	-0.268250483
159	-0.27449122	2.154105808	2.818522287	2.8130159450	2.151394944	-0.271780356
160	-0.277120752	2.156735334	2.823169221	2.8184680065	2.154482863	-0.274868275
161	-0.279279394	2.158893982	2.826985479	2.8231148510	2.157113503	-0.277498916
162	-0.280955784	2.160570372	2.829950087	2.8269310361	2.159273057	-0.27965847
163	-0.282141557	2.161756145	2.83204755	2.8298955861	2.160950155	-0.281335567
164	-0.282832614	2.162447202	2.833270119	2.8319930096	2.162136429	-0.282521841
165	-0.283028543	2.162643131	2.833616767	2.8332155542	2.162827778	-0.28321319
166	-0.282731913	2.1623465	2.833091956	2.8335621962	2.16302379	-0.283409202
167	-0.281948484	2.161563072	2.831706005	2.8330373955	2.162727034	-0.283112446
168	-0.280686082	2.16030067	2.829473079	2.8316514710	2.161943275	-0.282328687
169	-0.278953315	2.158567903	2.826408918	2.8294185875	2.160680339	-0.281065751
170	-0.276759312	2.1563739	2.822530363	2.8263544861	2.15894684	-0.279332252
171	-0.274113798	2.153728386	2.817855465	2.8224760051	2.156751911	-0.277137323
172	-0.271027033	2.150641621	2.812403373	2.8178011978	2.154105281	-0.274490693
173	-0.267509225	2.147123813	2.806193281	2.8123492106	2.151017215	-0.271402627
174	-0.263570648	2.143185236	2.799244621	2.8061392382	2.147497926	-0.267883338
175	-0.259221258	2.138835845	2.791576376	2.7991907119	2.143557692	-0.263943104
176	-0.254470641	2.134085229	2.783206985	2.7915226144	2.139206473	-0.259591885
177	-0.249328326	2.128942914	2.774154875	2.7831533849	2.134453862	-0.254839275
178	-0.243803841	2.123418428	2.764438554	2.7741014493	2.129309393	-0.249694805
179	-0.237906604	2.117521192	2.754076417	2.7643853150	2.123782595	-0.244168007
180	-0.231645948	2.111260536	2.743086768	2.7540233773	2.117882894	-0.238268306

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
181	-0.225031197	2.104645785	2.731487955	2.7430339403	2.111619626	-0.232005038
182	-0.218071671	2.097686259	2.719298367	2.7314353506	2.10500212	-0.225387532
183	-0.210776707	2.090391295	2.706536462	2.7192459979	2.098039702	-0.218425114
184	-0.203155659	2.082770247	2.693220755	2.7064843385	2.090741712	-0.211127125
185	-0.195217886	2.074832474	2.679369795	2.6931688875	2.08311751	-0.203502922
186	-0.186972742	2.06658733	2.665002133	2.6793181942	2.075176459	-0.195561871
187	-0.178429577	2.058044165	2.650136324	2.6649508097	2.066927917	-0.18731333
188	-0.169597732	2.04921232	2.634790898	2.6500852864	2.058381242	-0.178766654
189	-0.160486533	2.040101121	2.618984354	2.6347401559	2.049545776	-0.169931188
190	-0.151105295	2.030719883	2.602735155	2.6189339165	2.040430852	-0.160816264
191	-0.141463323	2.021077911	2.586061724	2.6026850307	2.031045788	-0.1514312
192	-0.131569904	2.011184492	2.568982421	2.5860119200	2.021399895	-0.141785307
193	-0.121434373	2.001048961	2.551515649	2.5689329461	2.011502466	-0.131887878
194	-0.111066088	1.990680676	2.53367981	2.5514665107	2.001362838	-0.12174825
195	-0.100474177	1.980088764	2.515492857	2.5336310152	1.990990375	-0.111375787
196	-0.089668245	1.969282832	2.496973509	2.5154444127	1.980394209	-0.100779622
197	-0.078657887	1.958272475	2.478140397	2.4969254212	1.969583952	-0.089969364
198	-0.067455135	1.947069723	2.459016235	2.4780926720	1.958569202	-0.078954614
199	-0.056074166	1.935688754	2.439627273	2.4589688782	1.947361997	-0.067747409
200	-0.04453056	1.924145148	2.420001994	2.4395802893	1.93597652	-0.056361932
201	-0.032840396	1.912454984	2.400169545	2.4199553887	1.924428359	-0.044813771
202	-0.021019837	1.900634425	2.380159018	2.4001233211	1.912733598	-0.03311901
203	-0.009085159	1.888699747	2.359999491	2.3801131800	1.90090841	-0.021293822
204	0.002947139	1.876667449	2.339720195	2.3599540409	1.888969077	-0.009354489
205	0.015060393	1.864554195	2.319350416	2.3396751355	1.876932104	0.002682484
206	0.027237825	1.852376762	2.298919392	2.3193057493	1.864814163	0.014800425

Periode per-hari	IMF6	IMF6Revers e	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
207	0.039462569	1.840152019	2.278456265	2.2988751180	1.852632038	0.02698255
208	0.051717494	1.827897094	2.257990363	2.2784123852	1.840402604	0.039211984
209	0.063985142	1.815629446	2.237551303	2.2579468778	1.828142997	0.051471591
210	0.076247939	1.803366649	2.21716862	2.2375082112	1.815870682	0.063743906
211	0.088488287	1.791126301	2.196871616	2.2171259207	1.803603241	0.076011347
212	0.100688482	1.778926106	2.176689494	2.1968293081	1.791358277	0.088256311
213	0.11283105	1.766783538	2.156650788	2.1766475740	1.779153503	0.100461085
214	0.124899228	1.75471536	2.136782595	2.1566092544	1.767006397	0.11260819
215	0.136876847	1.742737741	2.117110769	2.1367414441	1.75493373	0.124680858
216	0.148748282	1.730866306	2.097660019	2.1170699971	1.742951676	0.136662912
217	0.160498272	1.719116316	2.078454215	2.0976196210	1.731075865	0.148538723
218	0.172111174	1.707502848	2.0595167	2.0784141877	1.719321563	0.160293025
219	0.183573812	1.696040776	2.040870247	2.0594770365	1.707703854	0.171910734
220	0.194869983	1.684744605	2.022536826	2.0408309434	1.696237613	0.183376975
221	0.205986632	1.673627956	2.004536756	2.0224978748	1.684937354	0.194677234
222	0.216910782	1.662703806	1.986889138	2.0044981521	1.6738167	0.205797888
223	0.22763022	1.651984368	1.969611665	1.9868508739	1.662888632	0.216725956
224	0.238132946	1.641481642	1.952721535	1.9695737331	1.652165366	0.227449222
225	0.248405227	1.631209361	1.936238579	1.9526839286	1.641658907	0.237955681
226	0.258431935	1.621182653	1.920184702	1.9362012900	1.63138299	0.248231598
227	0.268198376	1.611416212	1.904580947	1.9201477224	1.621352749	0.258261839
228	0.27769006	1.601924528	1.88944788	1.9045442677	1.611582881	0.268031707
229	0.286892964	1.592721624	1.87480519	1.8894114924	1.602087881	0.277526707
230	0.295793492	1.583821096	1.860671777	1.8747690846	1.592881775	0.286732813
231	0.304378435	1.575236153	1.847065825	1.8606359430	1.583978162	0.295636426
232	0.31263482	1.566979768	1.834005075	1.8470302533	1.575390255	0.304224332

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
233	0.320549713	1.559064875	1.82150714	1.8339697545	1.567131032	0.312483556
234	0.328110165	1.551504423	1.80958962	1.8214720610	1.559213427	0.320401161
235	0.335303109	1.544311479	1.798270271	1.8095547701	1.551650394	0.327964194
236	0.342115519	1.537499069	1.787566774	1.7982356387	1.544455002	0.335159585
237	0.34853417	1.531080418	1.777497131	1.7875323485	1.537640283	0.341974305
238	0.354545568	1.52506902	1.768079792	1.7774628989	1.531219462	0.348395126
239	0.360136165	1.519478423	1.759333332	1.7680457415	1.525206038	0.35440855
240	0.365292493	1.514322095	1.751276273	1.7592994505	1.519613562	0.360001026
241	0.370001356	1.509613232	1.743926793	1.7512425459	1.514455505	0.365159082
242	0.374249637	1.505364951	1.737303067	1.7438932080	1.509745068	0.36986952
243	0.378024445	1.501590143	1.731423049	1.7372696096	1.50549537	0.374119218
244	0.381313081	1.498301507	1.72630456	1.7313897045	1.501719304	0.377895284
245	0.384103145	1.495511442	1.721965142	1.7262713145	1.498429575	0.381185013
246	0.386382511	1.493232077	1.718422122	1.7219319793	1.495638584	0.383976003
247	0.388139514	1.491475074	1.715692351	1.7183890279	1.493358463	0.386256125
248	0.389363305	1.490251283	1.71379167	1.7156593094	1.491600878	0.388013709
249	0.390044751	1.489569837	1.712733548	1.7137586648	1.490376682	0.389237906
250	0.390177766	1.489436822	1.712527027	1.7127005634	1.489695011	0.389919577
251	0.389761618	1.48985297	1.713173164	1.7124940461	1.489561952	0.390052636
252	0.388804319	1.490810269	1.714659769	1.7131401713	1.489978237	0.389636351
253	0.387318187	1.492296401	1.716968267	1.7146267474	1.490935854	0.388678734
254	0.385318279	1.494296309	1.720076117	1.7169352012	1.492422477	0.387192111
255	0.382820955	1.496793633	1.723958995	1.7200429913	1.494423048	0.38519154
256	0.379842793	1.499771795	1.728592456	1.7239257945	1.4969212	0.382693388
257	0.376400325	1.503214263	1.733952306	1.7285591659	1.499900352	0.379714236
258	0.372509875	1.507104713	1.740014834	1.7339189130	1.503343964	0.376270623

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
259	0.368187588	1.511427	1.746756729	1.7399813241	1.507235711	0.372378876
260	0.363449478	1.51616511	1.754154988	1.7467230893	1.511559442	0.368055146
261	0.358311437	1.52130315	1.762186872	1.7541212057	1.516299138	0.36331545
262	0.352789386	1.526825202	1.77082965	1.7621529349	1.521438902	0.358175686
263	0.346899222	1.532715366	1.780060653	1.7707955463	1.526962811	0.352651777
264	0.340656805	1.538957783	1.789857276	1.7800263714	1.532854962	0.346759626
265	0.33407798	1.545536607	1.800196921	1.7898228060	1.539099491	0.340515097
266	0.327178702	1.552435886	1.811056786	1.8001622525	1.545680547	0.333934041
267	0.319975498	1.55963909	1.822413102	1.8110219077	1.552582174	0.327032414
268	0.312485539	1.567129049	1.834241007	1.8223780056	1.559787838	0.31982675
269	0.304726274	1.574888314	1.846515095	1.8342056826	1.567280363	0.312334225
270	0.296716649	1.582897939	1.859207457	1.8464795340	1.575042297	0.304572291
271	0.288476918	1.59113767	1.872287954	1.8591716516	1.583054686	0.296559902
272	0.280028063	1.599586525	1.885725096	1.8722518963	1.591297271	0.288317317
273	0.271391679	1.608222909	1.899486209	1.8856887799	1.599749063	0.279865525
274	0.262589787	1.617024801	1.913537702	1.8994496276	1.608388461	0.271226127
275	0.253644987	1.625969601	1.927844814	1.9135008499	1.617193436	0.262421152
276	0.24457985	1.635034738	1.942372562	1.9278076871	1.626141382	0.253473205
277	0.235416801	1.644197787	1.957085928	1.9423351548	1.635209719	0.244404869
278	0.226176951	1.653437637	1.971951733	1.9570482375	1.644376015	0.235238573
279	0.216878596	1.662735992	1.986941074	1.9719137565	1.653619153	0.225995435
280	0.207536625	1.672077963	2.002030329	1.9869028090	1.662920829	0.216693759
281	0.198161439	1.681453149	2.017202954	2.0019917735	1.67226615	0.207348438
282	0.188758644	1.690855944	2.032450058	2.0171641062	1.681644711	0.197969877
283	0.179329922	1.700284666	2.04776906	2.0324109165	1.691050903	0.188563685
284	0.169873296	1.709741292	2.063163321	2.0477296232	1.700483044	0.179131544

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
285	0.160385235	1.719229353	2.078638761	2.0631235879	1.709943114	0.169671474
286	0.150861302	1.728753286	2.094202829	2.0785987299	1.719434642	0.160179946
287	0.141297167	1.738317421	2.109862855	2.0941624977	1.728962067	0.150652521
288	0.131688619	1.747925969	2.125626026	2.1098222221	1.738529724	0.141084864
289	0.122031744	1.757582844	2.141499095	2.1255850899	1.748141822	0.131472765
290	0.112322864	1.767291724	2.157488475	2.1414578531	1.757802279	0.121812309
291	0.102558558	1.77705603	2.173600203	2.1574469255	1.767514773	0.112099815
292	0.092735523	1.786879065	2.189840161	2.1735583424	1.777282726	0.102331861
293	0.082850705	1.796763883	2.206213866	2.1897979881	1.787109444	0.092505144
294	0.072901217	1.806713371	2.222726591	2.2061713778	1.796997983	0.082616605
295	0.062884427	1.816730161	2.239383228	2.2226837848	1.806951228	0.07266336
296	0.052797266	1.826817322	2.256189427	2.2393401005	1.816971815	0.062642773
297	0.042636272	1.836978316	2.273151539	2.2561459758	1.827062813	0.052551775
298	0.032398963	1.847215625	2.29027432	2.2731077615	1.837227686	0.042386902
299	0.022083391	1.857531197	2.307561661	2.2902302126	1.847468918	0.03214567
300	0.011687953	1.867926635	2.325016904	2.3075172213	1.857788456	0.021826132
301	0.001211335	1.878403253	2.342642923	2.3249721276	1.868187905	0.011426682
302	-0.009347579	1.888962167	2.360442279	2.3425978072	1.878668581	0.000946007
303	-0.019989931	1.899604519	2.378417594	2.3603968209	1.889231598	-0.00961701
304	-0.030716992	1.91033158	2.396571722	2.3783717899	1.899878102	-0.020263514
305	-0.041530579	1.921145166	2.414908466	2.3965255681	1.910609361	-0.030994773
306	-0.052433106	1.932047694	2.433432668	2.4148619583	1.921427196	-0.041812608
307	-0.063427006	1.943041593	2.452149239	2.4333858043	1.932334021	-0.052719433
308	-0.074514945	1.954129533	2.471063523	2.4521020148	1.94333227	-0.063717682
309	-0.085699262	1.96531385	2.490180339	2.4710159343	1.954424611	-0.074810024
310	-0.096981542	1.97659613	2.509503252	2.4901323818	1.965613384	-0.085998796

Periode per-hari	IMF6	IMF6Reversed	IMF6 Transformasi Box Cox	Hasil Peramalan IMF6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
311	-0.108360603	1.987975191	2.529031097	2.5094549228	1.976900175	-0.097285587
312	-0.119827484	1.999442071	2.548749304	2.5289823923	1.988283802	-0.108669215
313	-0.131366345	2.010980933	2.568631318	2.5487002188	1.9997553	-0.120140712
314	-0.142958028	2.022572616	2.58864463	2.5685818500	2.011298824	-0.131684236
315	-0.154582103	2.034196691	2.608754257	2.5885947762	2.022895208	-0.14328062
316	-0.166217439	2.045832027	2.628923725	2.6087040165	2.034524012	-0.154909424
317	-0.177842443	2.057457031	2.649115454	2.6288730956	2.0461641	-0.166549512
318	-0.189435109	2.069049697	2.669290858	2.6490644366	2.057793866	-0.178179278
319	-0.200973224	2.080587811	2.689410684	2.6692394520	2.069391299	-0.189776711
320	-0.212434514	2.092049101	2.709435283	2.6893588897	2.080934172	-0.201319585
321	-0.223796649	2.103411236	2.729324616	2.7093831032	2.092400206	-0.212785618
322	-0.235037221	2.114651809	2.749038228	2.7292720532	2.103767059	-0.224152471
323	-0.246133681	2.125748269	2.768535137	2.7489852856	2.115012314	-0.235397726
324	-0.257063392	2.13667798	2.787773952	2.7684818195	2.126113409	-0.246498821
325	-0.267803706	2.147418294	2.806713	2.7877202642	2.137047702	-0.257433114
326	-0.278331958	2.157946546	2.825310345	2.8066589469	2.14779253	-0.268177942
327	-0.288625486	2.168240073	2.843523825	2.8252559342	2.158325221	-0.278710634
328	-0.298661782	2.17827637	2.861311349	2.8434690632	2.168623101	-0.289008513
329	-0.308418371	2.188032959	2.878630689	2.8612562446	2.178663652	-0.299049064
330	-0.317872724	2.197487312	2.895439347	2.8785752506	2.188424388	-0.3088098
331	-0.327002539	2.206617127	2.911695082	2.8953835851	2.19788277	-0.318268182
332	-0.335786554	2.215401142	2.927357375	2.9116390071	2.207016485	-0.327401897
333	-0.344204704	2.223819292	2.942387743	2.9273009990	2.215804262	-0.336189674
334	-0.352237935	2.231852523	2.95674945	2.9423310777	2.224226024	-0.344611436
335	-0.359869031	2.239483619	2.97040901	2.9566925078	2.232262709	-0.352648122
336	-0.367081937	2.246696525	2.983335014	2.9703518041	2.239879094	-0.360282506

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
337	-0.373861749	2.253476337	2.995498148	2.9832775592	2.247113114	-0.367498526
338	-0.380194405	2.259808992	3.00687066	2.9954404591	2.253895858	-0.374281271
339	-0.386066892	2.26568148	3.017426761	3.0068127523	2.260231258	-0.38061667
340	-0.391467712	2.2710823	3.02714348	3.0173686501	2.266106293	-0.386491705
341	-0.396387127	2.276001715	3.036001143	3.0270851822	2.27150946	-0.391894872
342	-0.400817102	2.28043169	3.043983287	3.0359426747	2.276431015	-0.396816427
343	-0.404751394	2.284365981	3.051076839	3.0439246644	2.28086292	-0.401248332
344	-0.408187322	2.287801909	3.057275341	3.0510180798	2.284798927	-0.405184339
345	-0.41112642	2.290741008	3.062580139	3.0572164628	2.288236354	-0.408621766
346	-0.413575625	2.293190213	3.067002547	3.0625211582	2.291176736	-0.411562148
347	-0.415546058	2.295160646	3.070561661	3.0669434814	2.293627012	-0.414012424
348	-0.417051698	2.296666286	3.073281962	3.0705025269	2.295598306	-0.415983718
349	-0.418109094	2.297723681	3.075192772	3.0732227749	2.297104606	-0.417490018
350	-0.418737245	2.298351833	3.076328046	3.0751335490	2.298162464	-0.418547876
351	-0.418956822	2.298571409	3.076724918	3.0762688003	2.29879089	-0.419176302
352	-0.418790089	2.298404677	3.076423558	3.0766656651	2.299010563	-0.419395975
353	-0.418260164	2.297874752	3.075465797	3.0763643104	2.298843757	-0.419229169
354	-0.417390639	2.297005227	3.073894426	3.0754065680	2.298313601	-0.418699013
355	-0.416205311	2.295819899	3.071752682	3.0738352271	2.297443695	-0.417829107
356	-0.41472736	2.294341948	3.06908275	3.0716935253	2.296257848	-0.41664326
357	-0.412978568	2.292593156	3.065924318	3.0690236438	2.29477925	-0.415164662
358	-0.410979854	2.290594442	3.062315545	3.0658652730	2.293029694	-0.413451506
359	-0.408751078	2.288365666	3.058292684	3.0622565700	2.291030107	-0.411415519
360	-0.406311375	2.285925963	3.05389068	3.0582337862	2.288800357	-0.409185769
361	-0.403678793	2.283293381	3.049142509	3.0538318672	2.286359588	-0.406745001
362	-0.40087043	2.280485018	3.044079408	3.0490837868	2.283725858	-0.40411127

Periode per-hari	IMF6	IMF6Revers e	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
363	-0.397902421	2.277517008	3.03873086	3.0440207835	2.280916271	-0.401301683
364	-0.394790506	2.274405094	3.033125608	3.0386723393	2.277946968	-0.39833238
365	-0.391549994	2.271164582	3.027291579	3.0330671952	2.274833699	-0.395219111
366	-0.388195963	2.267810551	3.021256246	3.0272332779	2.271591778	-0.39197719
367	-0.384743433	2.26435802	3.015046936	3.0211980613	2.268236289	-0.388621701
368	-0.381207376	2.260821964	3.008690844	3.0149888710	2.264782259	-0.385167671
369	-0.377602417	2.257217005	3.002214482	3.0086329013	2.261244669	-0.381630081
370	-0.373942857	2.253557445	2.995643735	3.0021566644	2.257638147	-0.378023559
371	-0.370242614	2.249857202	2.989003741	2.9955860436	2.253977002	-0.374362414
372	-0.366515037	2.246129625	2.982318565	2.9889461776	2.250275158	-0.37066057
373	-0.362772951	2.242387539	2.975611275	2.9822611300	2.246545969	-0.366931382
374	-0.359027916	2.238642504	2.968902625	2.9755539693	2.242802267	-0.363187679
375	-0.355290242	2.23490483	2.962211079	2.96888454484	2.239055617	-0.359441029
376	-0.351568851	2.231183439	2.955552579	2.9621540314	2.235316331	-0.355701743
377	-0.34787152	2.227486108	2.94894098	2.9554956594	2.231593338	-0.35197875
378	-0.344204638	2.223819226	2.942387626	2.9488841881	2.227894416	-0.348279828
379	-0.340572589	2.220187176	2.935900255	2.9423309600	2.224225958	-0.34461137
380	-0.336977282	2.21659187	2.929482174	2.9358437140	2.220592349	-0.340977761
381	-0.333418335	2.213032923	2.923132589	2.9294257563	2.2169955	-0.337380912
382	-0.329893257	2.209507845	2.916846955	2.9230762936	2.213435028	-0.33382044
383	-0.326398006	2.206012594	2.910617975	2.9167907815	2.20990844	-0.330293852
384	-0.322927727	2.202542315	2.904436918	2.9105619209	2.206411693	-0.326797105
385	-0.319476585	2.199091172	2.898293328	2.9043809834	2.202939931	-0.323325344
386	-0.316038167	2.195652755	2.892175749	2.8982375114	2.199487315	-0.319872727
387	-0.312605701	2.192220289	2.886072106	2.8921200504	2.19604743	-0.316432842
388	-0.309172202	2.188786789	2.879969973	2.8860165245	2.192613501	-0.312998913

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
389	-0.305730562	2.185345149	2.873856737	2.8799145088	2.189178539	-0.309563951
390	-0.302273638	2.181888225	2.867719747	2.8738013908	2.185735435	-0.306120847
391	-0.298794301	2.178408889	2.861546407	2.8676645194	2.182277041	-0.302662453
392	-0.295285377	2.174899965	2.855324069	2.8614912981	2.178796227	-0.299181639
393	-0.291739705	2.171354293	2.849040137	2.8552690797	2.175285814	-0.295671226
394	-0.288150037	2.167764624	2.842681892	2.8489852689	2.171738639	-0.292124051
395	-0.284508965	2.164123553	2.836236365	2.8426271463	2.16814745	-0.288532862
396	-0.280808685	2.160423273	2.829689917	2.8361817434	2.164504838	-0.28489025
397	-0.277040901	2.156655489	2.823028078	2.8296354216	2.160802994	-0.281188406
398	-0.273197909	2.152812497	2.816237464	2.8229737113	2.157033619	-0.277419031
399	-0.269272844	2.148887432	2.809306206	2.8161832272	2.153189006	-0.273574418
400	-0.265259887	2.144874475	2.802224324	2.8092521034	2.149262287	-0.2696477
401	-0.261154676	2.140769263	2.794984438	2.8021703578	2.145247641	-0.265633053
402	-0.256954332	2.13656892	2.787581811	2.7949306105	2.141140703	-0.261526115
403	-0.252656427	2.132271015	2.780012518	2.7875281263	2.136938596	-0.257324008
404	-0.248258462	2.12787305	2.772272536	2.7799589790	2.132638888	-0.2530243
405	-0.243757625	2.123372213	2.764357308	2.7722191462	2.128239081	-0.248624493
406	-0.239150687	2.118765275	2.756261577	2.7643040709	2.123736359	-0.244121772
407	-0.234434173	2.114048761	2.747979673	2.7562084956	2.119127497	-0.239512909
408	-0.229604321	2.109218909	2.739505461	2.7479267515	2.114409014	-0.234794426
409	-0.224657245	2.104271833	2.73083262	2.7394527027	2.109577148	-0.22996256
410	-0.219589063	2.099203651	2.721954869	2.7307800287	2.104628013	-0.225013425
411	-0.21439584	2.094010428	2.712865874	2.7219024485	2.099557724	-0.219943137
412	-0.209073532	2.08868812	2.703559149	2.7128136289	2.094362346	-0.214747758
413	-0.203617963	2.083232551	2.69402802	2.7035070824	2.089037831	-0.209423244
414	-0.19802495	2.077639538	2.684265843	2.6939761374	2.083580005	-0.203965417

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
415	-0.192290522	2.07190511	2.674266393	2.6842141481	2.077984681	-0.198370093
416	-0.186411617	2.066026205	2.664025068	2.6742148905	2.072247888	-0.1926333
417	-0.180386286	2.060000874	2.653539253	2.6639737631	2.066366562	-0.186751974
418	-0.174213106	2.053827693	2.642807275	2.6534881498	2.060338754	-0.180724166
419	-0.16789084	2.047505428	2.631827822	2.6427563783	2.05416304	-0.174548452
420	-0.161420048	2.041034636	2.620602724	2.6317771373	2.047838185	-0.168223598
421	-0.154803392	2.03441798	2.609137478	2.6205522556	2.041364747	-0.161750159
422	-0.148045462	2.02766005	2.597440912	2.6090872305	2.034745392	-0.155130804
423	-0.141152214	2.020766802	2.5855242	2.5973908894	2.027984709	-0.148370122
424	-0.134130472	2.013745059	2.573399987	2.5854744067	2.02108866	-0.141474072
425	-0.126988267	2.006602855	2.56108296	2.5733504274	2.01406407	-0.134449482
426	-0.119735076	1.999349663	2.548590242	2.5610336379	2.006918975	-0.127304387
427	-0.112381757	1.991996345	2.535941264	2.5485411601	1.999662855	-0.120048267
428	-0.10494045	1.984555038	2.523157574	2.5358924257	1.992306573	-0.112691985
429	-0.097424502	1.97703909	2.51026269	2.5231089823	1.984862275	-0.105247688
430	-0.089848281	1.969462869	2.497281767	2.5102143461	1.977343313	-0.097728725
431	-0.082227476	1.961842064	2.484242092	2.4972336731	1.96976406	-0.090149472
432	-0.0745788	1.954193388	2.471172559	2.4841942494	1.962140213	-0.0825252626
433	-0.066919824	1.946534412	2.45810337	2.4711249685	1.954488492	-0.074873904
434	-0.05926814	1.938882727	2.445064601	2.4580560308	1.946826473	-0.067211885
435	-0.051641725	1.931256313	2.432086819	2.4450175132	1.939171757	-0.059557169
436	-0.044060095	1.923674683	2.419203029	2.4320399806	1.931542328	-0.05192774
437	-0.036544886	1.916159474	2.406449656	2.4191564394	1.923957708	-0.04434312
438	-0.029120828	1.908735416	2.393868159	2.4064033115	1.916439543	-0.036824955
439	-0.021814003	1.901428591	2.381502067	2.3938220570	1.909012572	-0.029397984
440	-0.014650285	1.894264872	2.369394317	2.3814562026	1.901702887	-0.022088299

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
441	-0.007655416	1.887270004	2.357587418	2.3693486863	1.894536371	-0.014921783
442	-0.00085506	1.880469648	2.346123532	2.3575420150	1.887538777	-0.007924189
443	0.00572552	1.873889068	2.335043957	2.3460783491	1.880735778	-0.00112119
444	0.012061326	1.867553261	2.324389373	2.3349989882	1.874152646	0.005461941
445	0.018127502	1.861487086	2.314200072	2.3243446087	1.867814388	0.0118002
446	0.02389928	1.855715308	2.304516061	2.3141555037	1.86174587	0.017868718
447	0.029352007	1.850262581	2.295377048	2.3044716798	1.855971868	0.02364272
448	0.034461204	1.845153384	2.286822364	2.2953328422	1.850517044	0.029097544
449	0.039202502	1.840412086	2.278891099	2.2867783229	1.845405885	0.034208703
450	0.043551605	1.836062983	2.271622192	2.2788472115	1.840662771	0.038951817
451	0.047484265	1.832130323	2.265054499	2.2715784437	1.836312004	0.043302584
452	0.050976478	1.82863811	2.259226509	2.2650108779	1.832377841	0.047236747
453	0.054004922	1.825609666	2.254175637	2.2591829999	1.828884295	0.050730293
454	0.056547782	1.823066806	2.249936893	2.2541322251	1.825854697	0.053759891
455	0.0585872	1.821027387	2.246538842	2.2498935627	1.823310869	0.056303719
456	0.060111318	1.81950327	2.244000249	2.2464955774	1.821270674	0.058343913
457	0.061115748	1.81849884	2.242327662	2.2439570330	1.819745977	0.05986861
458	0.061602994	1.818011594	2.241516413	2.2422844782	1.818741165	0.060873422
459	0.06158178	1.818032808	2.241551731	2.2414732449	1.818253735	0.061360853
460	0.061066444	1.818548144	2.242409756	2.2415085624	1.818274957	0.061339631
461	0.060073757	1.819540831	2.244062802	2.2423665708	1.818790488	0.0608241
462	0.058622031	1.820992557	2.24648082	2.2440195850	1.819783553	0.059831035
463	0.056730118	1.82288447	2.249633034	2.2464375561	1.821235831	0.058378757
464	0.054416948	1.82519764	2.253488681	2.2495897092	1.823128464	0.056486124
465	0.051701268	1.82791332	2.25801743	2.2534452827	1.825442514	0.054172074
466	0.048602296	1.831012292	2.263188246	2.2579739438	1.828159229	0.051455359

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
467	0.045139482	1.834475106	2.268969782	2.2631446608	1.831259383	0.048355205
468	0.041333229	1.838281359	2.275329139	2.2689260851	1.834723519	0.044891069
469	0.037206366	1.842408222	2.282229373	2.2752853194	1.838531228	0.04108336
470	0.032787154	1.846827434	2.289624429	2.2821854207	1.842659671	0.036954917
471	0.028111579	1.851503009	2.297455232	2.2895803347	1.847080578	0.03253401
472	0.023222901	1.856391687	2.305650359	2.2974109863	1.851757948	0.02785664
473	0.018171799	1.861442789	2.31412571	2.3056059560	1.856648508	0.02296608
474	0.013015346	1.866599242	2.322786146	2.3140811431	1.861701556	0.017913032
475	0.007815077	1.871799511	2.331528664	2.3227414126	1.86686	0.012754588
476	0.002635271	1.876799317	2.340245245	2.3314837626	1.87206228	0.007552308
477	-0.002458439	1.882073027	2.348825166	2.3402001756	1.877244093	0.002370495
478	-0.00739977	1.887014358	2.357156195	2.3487799315	1.88233978	-0.002725192
479	-0.012122239	1.891736827	2.365125369	2.3571107994	1.887283032	-0.007668444
480	-0.016559388	1.896173976	2.372619421	2.3650798208	1.892007339	-0.012392751
481	-0.020644934	1.900259521	2.379525072	2.3725737283	1.896446219	-0.016831631
482	-0.024312763	1.903927351	2.385729105	2.3794792461	1.90053336	-0.020918772
483	-0.027497358	1.907111946	2.391119158	2.3856831600	1.904202624	-0.024588036
484	-0.030134405	1.909748993	2.395584852	2.3910731090	1.907388466	-0.027773878
485	-0.032162338	1.911776926	2.399020515	2.3955387166	1.910026546	-0.030411958
486	-0.033523557	1.913138145	2.401327367	2.3989743139	1.912055275	-0.032440687
487	-0.034166236	1.913780824	2.402416713	2.4012811217	1.913417028	-0.03380244
488	-0.034046393	1.913660981	2.402213567	2.4023704462	1.914059959	-0.034445371
489	-0.033130496	1.912745083	2.400661188	2.4021673045	1.913940068	-0.03432548
490	-0.031397773	1.91101236	2.397725061	2.4006149553	1.913023812	-0.033409224
491	-0.028838359	1.908452947	2.393389799	2.3976788846	1.911290409	-0.031675821
492	-0.02544873	1.905063318	2.387651412	2.3933437059	1.908729992	-0.029115404

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
493	-0.021229729	1.900844317	2.380513957	2.3876054293	1.905339035	-0.025724447
494	-0.016186062	1.89580065	2.371988661	2.3804681118	1.901118384	-0.021503796
495	-0.010324171	1.889938759	2.362090303	2.3719429799	1.896072747	-0.016458159
496	-0.003651949	1.883266537	2.350836709	2.3620448133	1.890208571	-0.010593983
497	0.003821745	1.875792843	2.338247901	2.3507914352	1.883533753	-0.003919165
498	0.012087664	1.867526924	2.324345109	2.3382028697	1.876057159	0.003557429
499	0.021136093	1.858478495	2.30915088	2.3243003458	1.86778804	0.011826548
500	0.030957031	1.848657557	2.292688751	2.3091064095	1.858736119	0.020878468
501	0.041540183	1.838074405	2.274983249	2.2926445979	1.848911403	0.030703185
502	0.052874998	1.82673959	2.256059793	2.2749394359	1.838324195	0.041290393
503	0.064950403	1.814664185	2.235945135	2.2560163447	1.826985051	0.052629537
504	0.077754689	1.801859899	2.214667508	2.2359020745	1.814905055	0.064709533
505	0.091275188	1.788339399	2.192257139	2.2146248566	1.802095921	0.077518666
506	0.105497862	1.774116726	2.168746893	2.1922149200	1.788570328	0.09104426
507	0.120407351	1.759207237	2.144172128	2.1687051260	1.774342323	0.105272265
508	0.135986365	1.743628223	2.118571656	2.1441308346	1.759427275	0.120187312
509	0.152214425	1.727400163	2.091989712	2.1185308553	1.743842487	0.135772101
510	0.169066401	1.710548187	2.064478233	2.0919494239	1.727608448	0.15200614
511	0.18651279	1.693101798	2.036096225	2.0644384742	1.710750302	0.168864286
512	0.204520674	1.675093914	2.006908044	2.0360570131	1.69329757	0.186317018
513	0.223054389	1.656560199	1.976982151	2.0068693942	1.675283185	0.204331403
514	0.242075189	1.637539399	1.946391506	1.9769440770	1.656742829	0.222871759
515	0.261541201	1.618073387	1.915213473	1.9463540215	1.637715267	0.241899321
516	0.281407865	1.598206723	1.883528943	1.9151765892	1.618242391	0.261372197
517	0.301628535	1.577986053	1.851421217	1.8834926690	1.59836878	0.281245807
518	0.322154691	1.557459897	1.818975521	1.8513855619	1.578141104	0.301473484

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
519	0.342936404	1.536678183	1.786278138	1.8189404902	1.5576079	0.322006688
520	0.363922959	1.515691629	1.753415314	1.7862437371	1.536819119	0.342795469
521	0.385062684	1.494551904	1.720473415	1.7533815455	1.515825499	0.363789089
522	0.406302925	1.473311663	1.687538887	1.7204402818	1.494678728	0.38493586
523	0.42759046	1.452024128	1.654697509	1.6875063881	1.473431482	0.406183106
524	0.448871758	1.43074283	1.622033926	1.6546656420	1.452137002	0.427477585
525	0.470093187	1.409521401	1.589631288	1.6220026883	1.430848839	0.448765749
526	0.491201056	1.388413532	1.557571137	1.5896006737	1.409620641	0.469993947
527	0.51214169	1.367472898	1.525933278	1.5575411411	1.388506118	0.49110847
528	0.532861531	1.346753057	1.494795608	1.5259038910	1.367558961	0.512055627
529	0.55330705	1.326307538	1.464234255	1.4947668208	1.346832743	0.532781845
530	0.573424716	1.306189872	1.434323626	1.4642060559	1.32638101	0.553233578
531	0.593161	1.286453588	1.405136432	1.4342960030	1.306257304	0.573357284
532	0.612462384	1.267152204	1.376743707	1.4051093717	1.28651517	0.593099418
533	0.631275403	1.248339185	1.349214791	1.3767171934	1.267208136	0.612406451
534	0.649546641	1.230067947	1.322617408	1.3491888077	1.248389681	0.631224907
535	0.667222693	1.212391895	1.297017801	1.3225919364	1.23011323	0.649501358
536	0.684250153	1.195364435	1.272480847	1.2969928224	1.212432198	0.66718239
537	0.700575615	1.179038973	1.249070169	1.2724563408	1.195400001	0.684214586
538	0.716145674	1.163468914	1.226848272	1.2490461140	1.179070054	0.700544534
539	0.730906923	1.148707665	1.205876692	1.2268246447	1.16349577	0.716118818
540	0.744805957	1.134808631	1.186216172	1.2058534687	1.148730562	0.730884026
541	0.75778937	1.121825218	1.167926852	1.1861933272	1.134827843	0.744786745
542	0.769803757	1.109810831	1.151068483	1.1679043594	1.121841026	0.757773562
543	0.780795723	1.098818865	1.135700646	1.1510463151	1.109823522	0.769791066
544	0.790712052	1.088902536	1.121882775	1.1356787745	1.098828732	0.780785856

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
545	0.799500319	1.080114269	1.109673577	1.1218611689	1.088909879	0.790704709
546	0.807109484	1.072505104	1.099130525	1.1096522068	1.080119393	0.799495195
547	0.813490309	1.066124279	1.090309599	1.0991093577	1.072508322	0.807106266
548	0.818595839	1.061018749	1.083264958	1.0902886012	1.066125909	0.813488679
549	0.822382815	1.057231773	1.078047329	1.0832440956	1.061019114	0.818595474
550	0.824814248	1.05480034	1.074700791	1.0780265672	1.057231205	0.822383383
551	0.825862215	1.053752373	1.073259239	1.0746800935	1.054799174	0.824815414
552	0.825510636	1.054103952	1.073742804	1.0732385701	1.05375095	0.825863638
553	0.823757582	1.055857006	1.076154817	1.0737221257	1.054102615	0.825511973
554	0.820614303	1.059000285	1.08048314	1.0761340915	1.0558561	0.823758488
555	0.816100571	1.063514017	1.086706464	1.0804623319	1.059000153	0.820614435
556	0.810241189	1.069373399	1.094798916	1.0866855358	1.063515	0.816099588
557	0.803065537	1.076549051	1.104730458	1.0947778323	1.069375837	0.810238751
558	0.794605986	1.085008602	1.116468808	1.1047091827	1.076553281	0.803061307
559	0.784896875	1.094717713	1.129980591	1.1164473063	1.08501496	0.794599628
560	0.773973873	1.105640714	1.145231948	1.1299588290	1.094726533	0.784888055
561	0.761873162	1.117741426	1.162189418	1.1452098924	1.105652331	0.773962257
562	0.748631114	1.130983474	1.180820137	1.1621670364	1.117756171	0.761858417
563	0.734284123	1.145330465	1.201091854	1.1807973964	1.131001679	0.748612909
564	0.718868553	1.160746035	1.222972777	1.2010687231	1.145352462	0.734262126
565	0.702420742	1.177193846	1.246431369	1.2229492249	1.160772157	0.718842431
566	0.684977024	1.194637564	1.27143612	1.2464073642	1.177224424	0.702390164
567	0.666573735	1.213040853	1.297955366	1.2714116344	1.19467293	0.684941658
568	0.647247216	1.232367372	1.325957107	1.2979303692	1.213081338	0.66653325
569	0.627033821	1.252580767	1.355408852	1.3259315712	1.232413307	0.647201281
570	0.605969904	1.273644684	1.386277484	1.3553827488	1.252632483	0.626982105

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
571	0.584091821	1.295522767	1.41852914	1.3862507867	1.273702509	0.605912079
572	0.561435928	1.31817866	1.452129091	1.4185018215	1.295587028	0.58402756
573	0.538038578	1.34157601	1.487041639	1.4521011252	1.318249683	0.561364905
574	0.513936129	1.365678459	1.523230026	1.4870130012	1.341654115	0.537960473
575	0.489164935	1.390449653	1.560656349	1.5232006911	1.365763967	0.513850621
576	0.463761334	1.415853254	1.599281518	1.5606262934	1.390542878	0.48907171
577	0.437761359	1.441853229	1.639065637	1.5992507187	1.415954505	0.463660083
578	0.411199982	1.468414606	1.679969128	1.6390340713	1.441962813	0.437651775
579	0.384111519	1.495503069	1.721952123	1.6799367749	1.468532821	0.411081767
580	0.356529969	1.523084619	1.764973919	1.7219189607	1.495630208	0.38398438
581	0.328488953	1.551125635	1.808993071	1.7649399282	1.523220969	0.356393618
582	0.300021991	1.579592596	1.85396695	1.8089582329	1.551271476	0.328343112
583	0.27116292	1.608451668	1.899851062	1.8539312455	1.579748201	0.299866386
584	0.241945913	1.637668675	1.946598998	1.8998144742	1.608617299	0.270997288
585	0.212405766	1.667208822	1.994161943	1.9465615099	1.637844588	0.241769999
586	0.182577756	1.697036832	2.042488881	1.9941235381	1.667395261	0.212219327
587	0.152497122	1.727117466	2.09152742	2.0424495457	1.697234031	0.182380557
588	0.12219888	1.757415708	2.141224112	2.0914871409	1.727325647	0.152288941
589	0.091718091	1.787896497	2.191524025	2.1411828753	1.757635081	0.121979507
590	0.061089697	1.818524891	2.242371038	2.1914818194	1.788127259	0.091487329
591	0.030348307	1.849266281	2.293708222	2.2423278538	1.818767226	0.060847361
592	-0.00047151	1.880086098	2.345477384	2.2936640492	1.849520361	0.030094227
593	-0.031334922	1.91094951	2.397618577	2.3454322141	1.880352079	-0.000737491
594	-0.06220665	1.941821237	2.450069809	2.3975724029	1.911227534	-0.031612946
595	-0.093050801	1.972665388	2.50276676	2.4500226243	1.94211143	-0.062496842
596	-0.123831195	2.003445783	2.555643349	2.5027185604	1.97296786	-0.093353273

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
597	-0.154511393	2.034125981	2.608631807	2.5555941316	2.003760627	-0.124146039
598	-0.185055222	2.06466981	2.661663615	2.6085815692	2.034453274	-0.154838686
599	-0.215427254	2.095041842	2.714670391	2.6616123553	2.065009609	-0.185395021
600	-0.245592946	2.125207534	2.767584217	2.7146181105	2.095394188	-0.2157796
601	-0.275518743	2.155133331	2.820337898	2.7675309176	2.125572448	-0.24595786
602	-0.305172007	2.184786595	2.872864919	2.8202835827	2.155510818	-0.275896231
603	-0.334521342	2.21413593	2.925100102	2.8728095917	2.185176643	-0.305562055
604	-0.363536237	2.243150824	2.976979064	2.9250437690	2.214538507	-0.334923919
605	-0.392186931	2.271801519	3.028438053	2.9769217324	2.243565882	-0.363951294
606	-0.420444578	2.300059165	3.0794143	3.0283797304	2.272228992	-0.392614404
607	-0.448281215	2.327895803	3.129846056	3.0793549951	2.30049897	-0.420884382
608	-0.475669585	2.355284173	3.179672323	3.1297857796	2.328347839	-0.448733251
609	-0.502582948	2.382197536	3.228832584	3.1796110873	2.355748324	-0.476133737
610	-0.528994992	2.40860958	3.277266689	3.2287704016	2.382673669	-0.503059081
611	-0.554880276	2.434494864	3.324915723	3.2772035739	2.409097545	-0.529482957
612	-0.58021381	2.459828398	3.371721296	3.3248516900	2.434994494	-0.555379906
613	-0.604971206	2.484585794	3.417625877	3.3716563621	2.460339509	-0.580724922
614	-0.629128774	2.508743362	3.462573023	3.4175600592	2.485108188	-0.6054936
615	-0.652663831	2.532278418	3.506508006	3.4625063391	2.509276825	-0.629662238
616	-0.67555483	2.555169418	3.549378139	3.5064404762	2.53282272	-0.653208132
617	-0.697781555	2.577396143	3.59113318	3.5493097832	2.555724313	-0.676109725
618	-0.719324876	2.598939464	3.631724964	3.5910640208	2.577961373	-0.698346785
619	-0.740167013	2.619781601	3.671107937	3.6316550224	2.599514756	-0.719900168
620	-0.760292268	2.639906856	3.709240622	3.6710372374	2.620366669	-0.740752081
621	-0.779687655	2.659302243	3.746086882	3.7091691879	2.640501403	-0.760886815
622	-0.798343218	2.677957806	3.781616614	3.7460147380	2.659905961	-0.780291373

Periode per-hari	IMF6	IMF6Revers e	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
623	-0.816251728	2.695866316	3.815805252	3.7815437864	2.678570379	-0.798955791
624	-0.833408369	2.713022957	3.848633236	3.8157317655	2.696487418	-0.81687283
625	-0.849810233	2.729424821	3.880085086	3.8485591173	2.713652259	-0.834037671
626	-0.865455882	2.74507047	3.910148612	3.8800103618	2.730061985	-0.850447397
627	-0.880345106	2.759959694	3.93881445	3.9100733083	2.745715159	-0.866100571
628	-0.8944787	2.774093288	3.966075668	3.9387385951	2.760611563	-0.880996975
629	-0.907858268	2.787472856	3.991927378	3.9659992872	2.774751991	-0.895137403
630	-0.92048588	2.800100467	4.016366085	3.9918504997	2.788138045	-0.908523457
631	-0.93236408	2.811978667	4.039389699	4.0162887361	2.800771793	-0.921157205
632	-0.94349587	2.823110458	4.060997492	4.0393119062	2.812655777	-0.933041189
633	-0.953884575	2.833499163	4.081189839	4.0609192837	2.823793	-0.944178412
634	-0.963534198	2.843148786	4.099968893	4.0811112413	2.834186785	-0.954572197
635	-0.972449199	2.852063787	4.117338164	4.0998899344	2.843841134	-0.964226546
636	-0.980634131	2.860248719	4.133301785	4.1172588704	2.85276051	-0.973145922
637	-0.988093591	2.867708178	4.147864414	4.1332221840	2.860949464	-0.981334876
638	-0.994832387	2.874446975	4.161031554	4.1477845324	2.868412593	-0.988798005
639	-1.000855603	2.880470191	4.172809656	4.1609514190	2.87515471	-0.995540122
640	-1.006168604	2.885783192	4.183206134	4.1727292945	2.881180896	-1.001566308
641	-1.010776852	2.89039144	4.192228983	4.1831255715	2.88649652	-1.006881932
642	-1.014685866	2.894300453	4.199886699	4.1921482471	2.891107045	-1.011492457
643	-1.017901277	2.897515865	4.206188372	4.1998058157	2.895017992	-1.015403404
644	-1.020428793	2.900043381	4.211143605	4.2061073678	2.898234994	-1.018620406
645	-1.022274309	2.901888897	4.214762723	4.2110625045	2.900763761	-1.021149173
646	-1.023444309	2.903058897	4.217057548	4.2146815530	2.902610192	-1.022995604
647	-1.023946345	2.903560933	4.218042336	4.2169763343	2.903780771	-1.024166183
648	-1.023789206	2.903403794	4.217734088	4.2179611032	2.904283056	-1.024668468

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
649	-1.022982041	2.902596629	4.216150822	4.2176528611	2.904125839	-1.024511251
650	-1.021534412	2.901148999	4.213311662	4.2160696252	2.903318274	-1.023703686
651	-1.019456566	2.899071154	4.20923736	4.2132305204	2.901869928	-1.02225534
652	-1.016758964	2.896373552	4.203949347	4.2091562970	2.899791053	-1.020176465
653	-1.013452339	2.893066927	4.197469842	4.2038683854	2.897092116	-1.017477528
654	-1.009547646	2.889162234	4.189821731	4.1973890056	2.893783855	-1.014169267
655	-1.005056095	2.884670682	4.18102862	4.1897410415	2.889877232	-1.010262644
656	-0.999988978	2.879603566	4.171114482	4.1809481004	2.885383462	-1.005768874
657	-0.994357705	2.873972293	4.160103704	4.1710341526	2.880313844	-1.000699256
658	-0.988173709	2.867788297	4.148020896	4.1600235872	2.874679794	-0.995065206
659	-0.981448397	2.861062985	4.134890778	4.1479410116	2.868492751	-0.988878163
660	-0.974193215	2.853807802	4.12073829	4.1348111460	2.86176413	-0.982149542
661	-0.96641969	2.846034278	4.105588669	4.1206589312	2.854505382	-0.974890794
662	-0.958139354	2.837753942	4.089467273	4.1055096016	2.846728042	-0.967113454
663	-0.949363758	2.828978346	4.072399612	4.0893885166	2.838443647	-0.958829059
664	-0.940104468	2.819719056	4.054411313	4.0723211834	2.829663756	-0.950049168
665	-0.930373083	2.809987671	4.035528152	4.0543332317	2.820399942	-0.940785355
666	-0.920181203	2.799795791	4.015775977	4.0354504340	2.81066381	-0.931049222
667	-0.909540413	2.789155001	3.995180663	4.0156986395	2.800466968	-0.92085238
668	-0.898462293	2.77807688	3.973768122	3.9951037219	2.789821006	-0.910206419
669	-0.886958411	2.766572999	3.95156428	3.9736915930	2.778737513	-0.899122925
670	-0.875040274	2.754654862	3.928594966	3.9514881787	2.767228063	-0.887613476
671	-0.862719275	2.742333863	3.904885807	3.9285193071	2.75530417	-0.875689582
672	-0.850006652	2.72962124	3.880462138	3.9048106046	2.742977234	-0.863362646
673	-0.836913366	2.716527954	3.855348758	3.8803874059	2.730258499	-0.850643911
674	-0.823449877	2.703064464	3.8295695	3.8552745103	2.717158934	-0.837544346

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
675	-0.809626003	2.689240591	3.803146963	3.8294957488	2.703689003	-0.824074415
676	-0.795451093	2.675065681	3.776102833	3.8030737205	2.689858534	-0.810243946
677	-0.78093413	2.660548718	3.748458094	3.7760301107	2.675676878	-0.796062291
678	-0.766083785	2.645698373	3.720233121	3.7483859044	2.661153027	-0.781538439
679	-0.750908444	2.630523032	3.691447734	3.7201614752	2.646295655	-0.766681067
680	-0.735416334	2.615030922	3.662121437	3.6913766429	2.631113154	-0.751498566
681	-0.719615459	2.599230047	3.632273287	3.6620509103	2.615613758	-0.73599917
682	-0.703513713	2.583128301	3.601922112	3.6322033354	2.599805475	-0.720190887
683	-0.687118897	2.566733485	3.57108654	3.6018527443	2.583696203	-0.704081615
684	-0.670438684	2.550053272	3.539784928	3.5710177668	2.567293751	-0.687679163
685	-0.653480751	2.533095339		-0.670210881		-0.670210881
686	-0.63625279	2.515867378		-0.65325871		-0.65325871
687	-0.618762507	2.498377095		-0.636036602		-0.636036602
688	-0.601017536	2.480632123		-0.618552262		-0.618552262
689	-0.583025464	2.462640052		-0.60081332		-0.60081332
690	-0.564793876	2.444408464		-0.582827362		-0.582827362
691	-0.546330361	2.425944949		-0.564601969		-0.564601969
692	-0.527642505	2.407257093		-0.546144728		-0.546144728
693	-0.508737846	2.388352434		-0.527463222		-0.527463222
694	-0.489623851	2.369238438		-0.508564985		-0.508564985
695	-0.470307968	2.349922556		-0.489457485		-0.489457485
696	-0.450797647	2.330412235		-0.470148166		-0.470148166
697	-0.431100325	2.310714913		-0.450644474		-0.450644474
698	-0.411223408	2.290837996		-0.430953845		-0.430953845
699	-0.391174281	2.270788869		-0.411083681		-0.411083681
700	-0.370960274	2.250574862		-0.391041367		-0.391041367

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
701	-0.350588623	2.230203211		-0.370834228		-0.370834228
702	-0.330066501	2.209681088		-0.350469499		-0.350469499
703	-0.309400998	2.189015586		-0.32995435		-0.32995435
704	-0.288599223	2.168213811		-0.309295869		-0.309295869
705	-0.267668192	2.14728278		-0.288501162		-0.288501162
706	-0.246614852	2.12622944		-0.267577243		-0.267577243
707	-0.225446141	2.105060729		-0.246531057		-0.246531057
708	-0.204168994	2.083783582		-0.225369538		-0.225369538
709	-0.182790348	2.062404936		-0.204099621		-0.204099621
710	-0.16131714	2.040931728		-0.182728239		-0.182728239
711	-0.139756305	2.019370893		-0.161262327		-0.161262327
712	-0.118114781	1.997729369		-0.139708819		-0.139708819
713	-0.096399504	1.976014092		-0.118074648		-0.118074648
714	-0.074617411	1.954231999		-0.09636675		-0.09636675
715	-0.052775437	1.932390025		-0.074592057		-0.074592057
716	-0.030880519	1.910495107		-0.052757505		-0.052757505
717	-0.008939595	1.888554183		-0.030870027		-0.030870027
718	0.013040401	1.866574187		-0.008936557		-0.008936557
719	0.035052531	1.844562057		0.01303597		0.01303597
720	0.057089858	1.822524729		0.035040621		0.035040621
721	0.079145448	1.80046914		0.05707046		0.05707046
722	0.101212362	1.778402226		0.079118555		0.079118555
723	0.123283664	1.756330924		0.101177971		0.101177971
724	0.145352418	1.734262169		0.123241774		0.123241774
725	0.167411688	1.7122029		0.14530303		0.14530303
726	0.189454537	1.690160051		0.167354805		0.167354805

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
727	0.211474029	1.668140559		0.189390164		0.189390164
728	0.233463227	1.646151361		0.211402174		0.211402174
729	0.255415194	1.624199394		0.2333839		0.2333839
730	0.277322995	1.602291593		0.255328409		0.255328409
731	0.299179692	1.580434896		0.277228765		0.277228765
732	0.32097835	1.558636238		0.299078036		0.299078036
733	0.342712031	1.536902557		0.320869287		0.320869287
734	0.3643738	1.515240788		0.342595584		0.342595584
735	0.38595672	1.493657868		0.364249992		0.364249992
736	0.407453854	1.472160734		0.385825578		0.385825578
737	0.428858266	1.450756322		0.407315408		0.407315408
738	0.450163019	1.429451569		0.428712547		0.428712547
739	0.471361178	1.40825341		0.450010062		0.450010062
740	0.492445805	1.387168783		0.471201017		0.471201017
741	0.513409964	1.366204624		0.49227848		0.49227848
742	0.534246719	1.345367869		0.513235516		0.513235516
743	0.554949133	1.324665455		0.534065191		0.534065191
744	0.575510269	1.304104318		0.554760571		0.554760571
745	0.595923192	1.283691396		0.575314721		0.575314721
746	0.616180965	1.263433623		0.595720708		0.595720708
747	0.636276651	1.243337937		0.615971597		0.615971597
748	0.656203314	1.223411274		0.636060455		0.636060455
749	0.675954017	1.203660571		0.655980347		0.655980347
750	0.695521824	1.184092764		0.675724339		0.675724339
751	0.714899799	1.164714789		0.695285498		0.695285498
752	0.734081004	1.145533584		0.714656888		0.714656888

Periode - hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF 6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
753	0.753058504	1.126556084		0.733831576		0.733831576
754	0.771825362	1.107789226		0.752802628		0.752802628
755	0.790374642	1.089239946		0.771563109		0.771563109
756	0.808699407	1.070915181		0.790106086		0.790106086
757	0.82679272	1.052821868		0.808424625		0.808424625
758	0.844647646	1.034966942		0.82651179		0.82651179
759	0.862257247	1.017357341		0.844360649		0.844360649
760	0.879614588	1		0.861964267		0.861964267
761	0.861964267					0.861788192
762	0.861788192					0.861612155
763	0.861612155					0.861436156
764	0.861436156					0.861260195
765	0.861260195					0.861084271
766	0.861084271					0.860908386
767	0.860908386					0.860732538
768	0.860732538					0.860556729
769	0.860556729					0.860380957
770	0.860380957					0.860205223
771	0.860205223					0.860029527
772	0.860029527					0.859853869
773	0.859853869					0.859678248
774	0.859678248					0.859502666
775	0.859502666					0.859327121
776	0.859327121					0.859151614
777	0.859151614					0.858976145
778	0.858976145					0.858800714

Periode per-hari	IMF6	IMF6Reverse	IMF6 Transformasi Box Cox	Hasil Peramalan IMF6	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
779	0.858800714					0.85862532
780	0.85862532					0.858449964
781	0.858449964					0.858274646
782	0.858274646					0.858099366
783	0.858099366					0.857924124
784	0.857924124					0.857748919
785	0.857748919					0.857573752
786	0.857573752					0.857398623
787	0.857398623					0.857223531
788	0.857223531					0.857048478
789	0.857048478					0.856873462
790	0.856873462					0.856698483
791	0.856698483					0.856523543

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LAMPIRAN J SELURUH PROSES IMF 7

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
1	-0.234236645	1.690613301	0.76909123			
2	-0.224222628	1.680599284	0.77137918	0.769090253	1.690617598068	-0.234240942
3	-0.214405962	1.670782618	0.773641977	0.7713782	1.680603555669	-0.2242269
4	-0.204784603	1.661161259	0.775879189	0.773640993	1.670786864542	-0.214410209
5	-0.195356507	1.651733163	0.778090398	0.775878202638	1.661165480936	-0.204788825
6	-0.186119631	1.642496286	0.780275197	0.778089409	1.651737361100	-0.195360705
7	-0.17707193	1.633448586	0.782433192	0.780274205	1.642500461284	-0.186123805
8	-0.168211362	1.624588017	0.784564001	0.782432197	1.633452737736	-0.177076082
9	-0.159535882	1.615912537	0.786667258	0.784563004	1.624592146705	-0.168215491
10	-0.151043446	1.607420102	0.788742609	0.786666258	1.615916644441	-0.159539988
11	-0.142732011	1.599108667	0.790789714	0.788741606	1.607424187193	-0.151047531
12	-0.134599533	1.590976189	0.792808249	0.790788709	1.599112731210	-0.142736075
13	-0.126643969	1.583020624	0.794797905	0.792807241	1.590980232741	-0.134603577
14	-0.118863274	1.575239929	0.796758388	0.794796894	1.583024648035	-0.126647992
15	-0.111255405	1.56763206	0.79868942	0.796757375	1.575243933342	-0.118867277
16	-0.103818318	1.560194973	0.800590741	0.798688405	1.567636044909	-0.111259389
17	-0.096549969	1.552926625	0.802462104	0.800589723	1.560198938988	-0.103822283
18	-0.089448315	1.545824971	0.804303282	0.802461084	1.552930571826	-0.096553916
19	-0.082511312	1.538887967	0.806114064	0.804302260	1.545828899672	-0.089452244
20	-0.075736916	1.532113571	0.807894256	0.806113039	1.538891878777	-0.082515223
21	-0.069123083	1.525499738	0.809643682	0.807893229	1.532117465388	-0.075740809
22	-0.062667769	1.519044425	0.811362184	0.809642653	1.525503615756	-0.06912696
23	-0.056368932	1.512745588	0.813049623	0.811361153	1.519048286129	-0.06267163
24	-0.050224527	1.506601182	0.814705875	0.813048589	1.512749432756	-0.056372777

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
25	-0.04423251	1.500609166	0.816330838	0.814704839	1.506605011886	-0.050228356
26	-0.038390838	1.494767493	0.817924426	0.816329800	1.500612979769	-0.044236324
27	-0.032697466	1.489074122	0.819486572	0.817923386	1.494771292654	-0.038394637
28	-0.027150352	1.483527008	0.82101723	0.819485531	1.489077906790	-0.032701251
29	-0.021747451	1.478124107	0.82251637	0.821016187	1.483530778426	-0.027154122
30	-0.01648672	1.472863376	0.823983981	0.822515324	1.478127863810	-0.021751208
31	-0.011366115	1.46774277	0.825420071	0.823982933	1.472867119193	-0.016490463
32	-0.006383591	1.462760247	0.826824669	0.825419022	1.467746500823	-0.011369845
33	-0.001537107	1.457913762	0.828197819	0.826823618	1.462763964950	-0.006387309
34	0.003175384	1.453201272	0.829539586	0.828196766	1.457917467822	-0.001540812
35	0.007755923	1.448620733	0.830850053	0.829538531	1.453204965688	0.00317169
36	0.012206555	1.444170101	0.832129321	0.830848997	1.448624414799	0.007752241
37	0.016529324	1.439847332	0.833377512	0.832128264	1.444173771402	0.012202885
38	0.020726273	1.435650383	0.834594761	0.833376452	1.439850991748	0.016525664
39	0.024799446	1.43157721	0.835781227	0.834593701	1.435654032084	0.020722624
40	0.028750887	1.427625769	0.836937083	0.835780165	1.431580848661	0.024795807
41	0.032582639	1.423794017	0.83806252	0.836936019	1.427629397727	0.028747258
42	0.036296747	1.420079909	0.839157747	0.838061454	1.423797635531	0.03257902
43	0.039895254	1.416481402	0.840222992	0.839156681	1.420083518323	0.036293138
44	0.043380203	1.412996452	0.841258498	0.840221924	1.416485002352	0.039891654
45	0.046753639	1.409623016	0.842264524	0.841257429	1.413000043867	0.043376612
46	0.050017606	1.40635905	0.843241348	0.842263454	1.409626599117	0.046750057
47	0.053174146	1.403202509	0.844189262	0.843240276	1.406362624350	0.050014032
48	0.056225305	1.400151351	0.845108575	0.844188189	1.403206075817	0.05317058
49	0.059173125	1.397203531	0.84599961	0.845107501	1.400154909766	0.056221746
50	0.06201965	1.394357006	0.846862707	0.845998535	1.397207082447	0.059169574

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
51	0.064766924	1.391609732	0.84769822	0.846861631	1.394360550108	0.062016106
52	0.067416991	1.388959665	0.848506518	0.847697143	1.391613268999	0.064763387
53	0.069971894	1.386404762	0.849287984	0.848505440	1.388963195369	0.067413461
54	0.072433678	1.383942978	0.850043013	0.849286904	1.386408285466	0.069968371
55	0.074804385	1.38157227	0.850772015	0.850041932	1.383946495541	0.07243016
56	0.077086061	1.379290595	0.851475414	0.850770934	1.381575781842	0.074800874
57	0.079280748	1.377095908	0.852153645	0.851474332	1.379294100617	0.077082555
58	0.08139049	1.374986166	0.852807156	0.852152562	1.377099408118	0.079277248
59	0.083417331	1.372959325	0.853436405	0.852806072	1.374989660592	0.081386995
60	0.085363315	1.371013341	0.854041864	0.853435320	1.372962814288	0.083413842
61	0.087230485	1.36914617	0.854624014	0.854040778	1.371016825456	0.085359831
62	0.089020886	1.36735577	0.855183349	0.854622928	1.369149650345	0.087227006
63	0.09073656	1.365640095	0.85572037	0.855182262	1.367359245204	0.089017411
64	0.092379553	1.363997103	0.856235591	0.855719283	1.365643566283	0.09073309
65	0.093951906	1.362424749	0.856729533	0.856234503	1.364000569829	0.092376086
66	0.095455665	1.36092099	0.857202727	0.856728444	1.362428212093	0.093948444
67	0.096892873	1.359483782	0.857655712	0.857201637	1.360924449323	0.095452207
68	0.098265574	1.358111082	0.858089037	0.857654622	1.359487237768	0.096889418
69	0.099575811	1.356800845	0.858503257	0.858087947	1.358114533679	0.098262122
70	0.100825628	1.355551027	0.858898936	0.858502166	1.356804293303	0.099572363
71	0.102017069	1.354359586	0.859276643	0.858897844	1.355554472890	0.100822183
72	0.103152178	1.353224477	0.859636956	0.859275551	1.354363028689	0.102013627
73	0.104232999	1.352143657	0.859980458	0.859635863	1.353227916950	0.103148739
74	0.105261574	1.351115082	0.860307738	0.859979365	1.352147093920	0.104229562
75	0.106239948	1.350136707	0.860619392	0.860306645	1.351118515850	0.10525814
76	0.107170165	1.34920649	0.86091602	0.860618298	1.350140138989	0.106236517

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
77	0.108054269	1.348322387	0.861198228	0.860914926	1.349209919585	0.107166736
78	0.108894302	1.347482353	0.861466625	0.861197133	1.348325813888	0.108050842
79	0.10969231	1.346684346	0.861721828	0.861465531	1.347485778147	0.108890878
80	0.110450335	1.345926321	0.861964455	0.861720733	1.346687768611	0.109688887
81	0.111170422	1.345206234	0.862195128	0.861963359	1.345929741528	0.110446914
82	0.111854613	1.344522042	0.862414474	0.862194032	1.345209653150	0.111167003
83	0.112504954	1.343871702	0.862623123	0.862413378	1.344525459723	0.111851196
84	0.113123487	1.343253168	0.862821708	0.862622027	1.343875117498	0.112501539
85	0.113712257	1.342664399	0.863010865	0.862820612	1.343256582724	0.113120073
86	0.114273305	1.34210335	0.863191231	0.863009768	1.342667811649	0.113708844
87	0.11480867	1.341567985	0.863363446	0.863190134	1.342106761751	0.114269894
88	0.115320388	1.341056268	0.863528151	0.863362349	1.341571395420	0.114805261
89	0.115810495	1.340566161	0.863685988	0.863527053	1.341059676274	0.11531698
90	0.116281028	1.340095628	0.863837603	0.863684890	1.340569567929	0.115807088
91	0.116734023	1.339642633	0.863983642	0.863836505	1.340099034006	0.116277622
92	0.117171514	1.339205142	0.864124753	0.863982544	1.339646038120	0.116730618
93	0.117595531	1.338781125	0.864261585	0.864123655	1.339208545457	0.117168111
94	0.1180081	1.338368555	0.864394784	0.864260486	1.338784527473	0.117592129
95	0.118411245	1.33796541	0.864525001	0.864393686	1.338371957189	0.118004699
96	0.118806974	1.337569681	0.864652879	0.864523902	1.337968811168	0.118407845
97	0.119197288	1.337179368	0.864779063	0.864651780	1.337573080942	0.118803575
98	0.119584178	1.336792478	0.864904195	0.864777964	1.337182766349	0.11919389
99	0.119969626	1.336407029	0.865028914	0.864903096	1.336795875904	0.11958078
100	0.120355616	1.33602104	0.865153863	0.865027815	1.336410426245	0.11996623
101	0.120744127	1.335632528	0.865279683	0.865152763	1.336024435655	0.12035222
102	0.121137138	1.335239518	0.865407015	0.865278583	1.335635923218	0.120740733

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
103	0.121536622	1.334840034	0.865536503	0.865405915	1.335242911742	0.121133744
104	0.121944551	1.334432105	0.865668788	0.865535403	1.334843426840	0.121533229
105	0.122362891	1.334013765	0.865804512	0.865667688	1.334435496435	0.121941116
106	0.122793596	1.33358306	0.865944314	0.865803411	1.334017155682	0.1223595
107	0.123238585	1.33313807	0.866088824	0.865943214	1.333586449451	0.122790207
108	0.12369975	1.332676905	0.866238664	0.866087724	1.333141458847	0.123235197
109	0.124178961	1.332197695	0.866394449	0.866237563	1.332680292501	0.123696363
110	0.124678028	1.331698628	0.866556779	0.866393348	1.332201080954	0.124175575
111	0.125198713	1.331177942	0.866726237	0.866555677	1.331702012535	0.124674643
112	0.125742711	1.330633945	0.866903389	0.866725136	1.331181325919	0.12519533
113	0.126311667	1.330064988	0.867088785	0.866902288	1.330637326743	0.125739329
114	0.126907179	1.329469477	0.867282962	0.867087683	1.330068369102	0.126308287
115	0.12753077	1.328845886	0.867486434	0.867281860	1.329472856169	0.1269038
116	0.128183883	1.328192773	0.867699693	0.867485332	1.328849263354	0.127527393
117	0.128867848	1.327508808	0.867923194	0.867698590	1.328196149023	0.128180507
118	0.129583869	1.326792787	0.868157355	0.867922091	1.327512181883	0.128864474
119	0.130333007	1.326043649	0.86840255	0.868156252	1.326796159435	0.129580497
120	0.13111617	1.325260486	0.868659104	0.868401446	1.326047019322	0.130329637
121	0.13193414	1.324442516	0.868927302	0.868658000	1.325263854164	0.131112802
122	0.13278759	1.323589066	0.869207399	0.868926198	1.324445882023	0.131930774
123	0.13367708	1.322699576	0.869499613	0.869206295	1.323592429906	0.132784226
124	0.134603012	1.321773644	0.869804111	0.869498508	1.322702937943	0.133673718
125	0.135565641	1.320811015	0.870121017	0.869803006	1.321777003607	0.134599652
126	0.13656508	1.319811575	0.870450409	0.870119912	1.320814372135	0.135562284
127	0.137601305	1.31877535	0.870792319	0.870449302	1.319814930070	0.136561726
128	0.138674142	1.317702514	0.871146734	0.870791212	1.318778702443	0.137597954

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
129	0.13978325	1.316593406	0.871513587	0.871145627	1.317705862934	0.138670793
130	0.140928139	1.315448516	0.871892762	0.871512479	1.316596752531	0.139779903
131	0.142108185	1.314268471	0.872284098	0.871891654	1.315451860012	0.140924796
132	0.143322676	1.31305398	0.872687408	0.872282990	1.314271811405	0.142104845
133	0.144570832	1.311805824	0.873102482	0.872686299	1.313057317310	0.143319339
134	0.145851829	1.310524826	0.873529093	0.873101372	1.311809158056	0.144567498
135	0.147164806	1.309211849	0.873967004	0.873527983	1.310528157259	0.145848499
136	0.148508854	1.307867802	0.87441596	0.873965893	1.309215177041	0.147161479
137	0.149883019	1.306493637	0.874875693	0.874414849	1.307871125884	0.14850553
138	0.151286321	1.305090334	0.875345923	0.874874581	1.306496957635	0.149879698
139	0.152717773	1.303658883	0.875826368	0.875344811	1.305093651600	0.151283004
140	0.154176374	1.302200281	0.876316739	0.875825255	1.303662196408	0.15271446
141	0.155661123	1.300715533	0.876816748	0.876315626	1.302203591236	0.154173065
142	0.15717101	1.299205646	0.877326102	0.876815634	1.300718838737	0.155657817
143	0.158705013	1.297671643	0.877844501	0.877324987	1.299208948096	0.157167708
144	0.1602621	1.296114556	0.878371642	0.877843385	1.297674940876	0.158701715
145	0.161841223	1.294535432	0.878907214	0.878370525	1.296117850014	0.160258806
146	0.163441333	1.292935323	0.879450904	0.878906097	1.294538722685	0.161837933
147	0.165061376	1.29131528	0.880002397	0.879449786	1.292938609382	0.163438047
148	0.166700291	1.289676365	0.880561371	0.880001278	1.291318562202	0.165058094
149	0.168357006	1.288019649	0.8811275	0.880560252	1.289679643028	0.166697013
150	0.170030453	1.286346203	0.881700456	0.881126380	1.288022923075	0.168353733
151	0.171719563	1.284657093	0.882279911	0.881699336	1.286349472139	0.170027184
152	0.173423274	1.282953382	0.882865533	0.882278789	1.284660357802	0.171716298
153	0.175140522	1.281236134	0.883456989	0.882864410	1.282956642641	0.173420013
154	0.17687024	1.279506416	0.884053944	0.883455866	1.281239390288	0.175137266

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
155	0.17861136	1.277765296	0.884656058	0.884052821	1.279509668153	0.176866988
156	0.18036282	1.276013836	0.88526299	0.884654934	1.277768543500	0.178608112
157	0.182123566	1.27425309	0.885874401	0.885261865	1.276017078958	0.180359577
158	0.183892547	1.272484109	0.88648995	0.885873276	1.274256328819	0.182120327
159	0.185668707	1.270707949	0.887109289	0.886488823	1.272487343268	0.183889313
160	0.187450957	1.268925699	0.887732058	0.887108161	1.270711178910	0.185665477
161	0.189238152	1.267138504	0.888357874	0.887730930	1.268928923833	0.187447732
162	0.191029116	1.265347539	0.88898634	0.888356745	1.267141724759	0.189234931
163	0.192822642	1.263554013	0.889617043	0.888985210	1.265350755626	0.1910259
164	0.194617492	1.261759163	0.890249557	0.889615912	1.263557224931	0.192819431
165	0.19641124	1.259964255	0.890883443	0.890248426	1.261762370317	0.194614286
166	0.198206085	1.258170571	0.891518252	0.890882311	1.259967457950	0.196409198
167	0.199997247	1.256379409	0.892153524	0.891517119	1.258173768609	0.198202887
168	0.201784557	1.254592098	0.892788785	0.892152390	1.256382601993	0.199994054
169	0.203566664	1.252809992	0.89342355	0.892787650	1.254595287056	0.201781369
170	0.205342178	1.251034478	0.894057315	0.893422414	1.252813176275	0.20356348
171	0.207109688	1.249266968	0.894689564	0.894056178	1.251037657712	0.205338998
172	0.208867772	1.247508884	0.895319774	0.894688427	1.249270143022	0.207106513
173	0.210615001	1.245761655	0.895947414	0.895318636	1.247512054698	0.208864601
174	0.212349935	1.24402672	0.896571946	0.895946276	1.245764821505	0.210611834
175	0.214071126	1.24230553	0.897192823	0.896570807	1.244029882228	0.212346774
176	0.215777104	1.240599551	0.897809487	0.897191683	1.242308687738	0.214067968
177	0.217466395	1.23891026	0.898421373	0.897808346	1.240602704800	0.215773951
178	0.2191375	1.237239155	0.899027905	0.898420232	1.238913409289	0.217463247
179	0.2207889	1.235587756	0.899628493	0.899026763	1.237242300071	0.219134356
180	0.222419058	1.233957597	0.900222538	0.899627350	1.235590896595	0.220785759

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
181	0.224026426	1.23235023	0.900809432	0.900221394	1.233960733754	0.222415922
182	0.225609447	1.230767208	0.901388559	0.900808287	1.232353362051	0.224023294
183	0.227166564	1.229210091	0.901959301	0.901387414	1.230770336630	0.225606319
184	0.228696211	1.227680445	0.902521031	0.901958155	1.229213215812	0.22716344
185	0.230196811	1.226179845	0.903073115	0.902519884	1.227683565146	0.228693091
186	0.231666776	1.22470988	0.903614912	0.903071968	1.226182961608	0.230193694
187	0.233104518	1.223272138	0.904145777	0.903613764	1.224712992561	0.231663663
188	0.234508439	1.221868216	0.904665057	0.904144627	1.223275247219	0.233101409
189	0.235876937	1.220499719	0.905172098	0.904663908	1.221871321869	0.234505334
190	0.237208396	1.219168259	0.905666234	0.905170947	1.220502820812	0.235873835
191	0.238501193	1.217875463	0.906146797	0.905665083	1.219171358326	0.237205298
192	0.239753679	1.216622976	0.906613106	0.906145645	1.217878558501	0.238498097
193	0.240964192	1.215412463	0.907064473	0.906611954	1.216626068711	0.239750587
194	0.242131053	1.214245603	0.907500202	0.907063320	1.215415552739	0.240961103
195	0.243252564	1.213124092	0.907919589	0.907499049	1.214248689025	0.242127967
196	0.244327004	1.212049652	0.908321919	0.907918435	1.213127175153	0.243249481
197	0.245352614	1.211024041	0.908706464	0.908320765	1.212052732293	0.244323924
198	0.246327627	1.210049029	0.909072492	0.908705310	1.211027119454	0.245349537
199	0.247250274	1.209126382	0.909419268	0.909071336	1.210052104401	0.246324552
200	0.248118787	1.208257868	0.909746061	0.909418112	1.209129454898	0.247247201
201	0.248931389	1.207445266	0.910052136	0.909744905	1.208260939421	0.248115717
202	0.249686278	1.206690378	0.91033675	0.910050980	1.207448335197	0.248928321
203	0.250381641	1.205995015	0.910599157	0.910335593	1.206693444749	0.249683211
204	0.251015664	1.205360991	0.910838614	0.910597999	1.205998080289	0.250378576
205	0.251586536	1.20479012	0.911054382	0.910837456	1.205364054975	0.251012601
206	0.25209244	1.204284215	0.911245723	0.911053224	1.204793182183	0.251583474

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
207	0.25253156	1.203845095	0.911411903	0.911244565	1.204287276386	0.25208938
208	0.252902071	1.203474585	0.911552189	0.911410745	1.203848155080	0.252528501
209	0.253202145	1.203174511	0.911665853	0.911551031	1.203477643623	0.252899012
210	0.253429954	1.202946702	0.911752173	0.911664695	1.203177569216	0.253199087
211	0.253583668	1.202792988	0.911810431	0.911751014	1.202949759505	0.253426896
212	0.253661456	1.2027152	0.911839917	0.911809272	1.202796044904	0.253580611
213	0.253661487	1.202715168	0.911839929	0.911838759	1.202718256536	0.253658399
214	0.25358193	1.202794726	0.911809772	0.911838770	1.202718225417	0.253658431
215	0.253420951	1.202955705	0.911748761	0.911808614	1.202797782821	0.253578873
216	0.253176714	1.203199942	0.911656219	0.911747603	1.202958762658	0.253417893
217	0.25284739	1.203529266	0.911531481	0.911655060	1.203202999883	0.253173656
218	0.25243117	1.203945486	0.911373903	0.911530323	1.203532325114	0.252844331
219	0.251926252	1.204450404	0.911182855	0.911372745	1.203948546228	0.25242811
220	0.251330835	1.205045821	0.910957718	0.911181697	1.204453465220	0.251923191
221	0.250643117	1.205733539	0.910697888	0.910956560	1.205048883677	0.251327772
222	0.249861293	1.206515363	0.910402773	0.910696730	1.205736603647	0.250640052
223	0.248983561	1.207393095	0.910071797	0.910401616	1.206518429465	0.249858227
224	0.248008127	1.208368529	0.909704404	0.910070641	1.207396163920	0.248980492
225	0.2469332	1.209443455	0.909300051	0.909703248	1.208371600174	0.248005056
226	0.245756959	1.210619697	0.908858205	0.909298896	1.209446529548	0.246930126
227	0.244477578	1.211899078	0.908378345	0.908857050	1.210622773623	0.245753882
228	0.243093241	1.213283415	0.907859975	0.908377191	1.211902157990	0.244474498
229	0.241602149	1.214774507	0.907302621	0.907858821	1.213286498476	0.243090158
230	0.240002522	1.216374133	0.906705838	0.907301468	1.214777594372	0.241599062
231	0.238292601	1.218084054	0.906069207	0.906704686	1.216377225049	0.239999431
232	0.236470637	1.219906019	0.905392334	0.906068055	1.218087150499	0.238289506

Per iod e per - har i	IMF7	IMF7Reverse	IMF7 Transformas i Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
23 3	0.234534893	1.221841763	0.90467485	0.905391183	1.219909119688	0.236467536
23 4	0.232483637	1.223893019	0.903916411	0.904673701	1.221844868708	0.234531787
23 5	0.230315145	1.226061511	0.903116694	0.903915262	1.223896129641	0.232480526
23 6	0.22802771	1.228348946	0.902275409	0.903115547	1.226064627236	0.230312029
23 7	0.225619688	1.230756968	0.901392309	0.902274263	1.228352068253	0.228024588
23 8	0.223089546	1.23328711	0.900467212	0.901391164	1.230760096127	0.22561656
23 9	0.220435891	1.235940764	0.899500008	0.900466068	1.233290244374	0.223086412
24 0	0.217657447	1.238719209	0.898490654	0.899498865	1.235943905593	0.22043275
24 1	0.21475302	1.241623636	0.897439156	0.898489512	1.238722357571	0.217654298
24 2	0.211721534	1.244655122	0.896345587	0.897438016	1.241626791521	0.214749864
24 3	0.208562025	1.247814631	0.895210079	0.896344448	1.244658285592	0.21171837
24 4	0.205273651	1.251103005	0.894032829	0.895208942	1.247817802213	0.208558854
24 5	0.201855692	1.254520964	0.892814096	0.894031693	1.251106184683	0.205270471
24 6	0.198307588	1.258069067	0.891554216	0.892812961	1.254524152518	0.201852503
24 7	0.194628956	1.2617477	0.890253601	0.891553083	1.258072265033	0.198304391
24 8	0.190819666	1.265556989	0.888912773	0.890252470	1.261750906629	0.194625749
24 9	0.18687983	1.269496825	0.887532347	0.888911643	1.265560206209	0.19081645
25 0	0.182809776	1.273566879	0.886113028	0.887531219	1.269500052145	0.186876604
25 1	0.178610071	1.277766585	0.884655612	0.886111902	1.273570116435	0.18280654
25 2	0.17428145	1.282095206	0.883160958	0.884654487	1.277769832814	0.178606823
25 3	0.169824842	1.286551814	0.881629999	0.883159836	1.282098464827	0.174278191
25 4	0.165241489	1.291135167	0.880063775	0.881628878	1.286555083740	0.169821572
25 5	0.160532849	1.295843807	0.878463399	0.880062656	1.291138448418	0.165238208
25 6	0.155700561	1.300676094	0.876830041	0.878462282	1.295847100472	0.160529556
25 7	0.15074641	1.305630246	0.875164916	0.876828927	1.300679400450	0.155697256
25 8	0.145672292	1.310704364	0.873469264	0.875163803	1.305633564200	0.150743092

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
259	0.1404802	1.315896456	0.87174435	0.873468154	1.310707695358	0.145668961
260	0.135172227	1.321204429	0.86999146	0.871743242	1.315899800486	0.140476856
261	0.129750521	1.326626134	0.868211883	0.869990354	1.321207786965	0.135168869
262	0.12421726	1.332159395	0.866406903	0.868210780	1.326629506101	0.12974715
263	0.118574649	1.337802006	0.864577797	0.866405802	1.332162781421	0.124213875
264	0.112824927	1.343551728	0.862725836	0.864576699	1.337805406625	0.118571249
265	0.106970375	1.349406281	0.860852285	0.862724740	1.343555143197	0.112821513
266	0.101013298	1.355363358	0.858958397	0.860851191	1.349409710696	0.106966945
267	0.09495605	1.361420606	0.857045424	0.858957306	1.355366802660	0.101009853
268	0.088801021	1.367575634	0.855114602	0.857044334	1.361424066079	0.09495259
269	0.082550641	1.373826015	0.853167163	0.855113516	1.367579110221	0.088797546
270	0.076207376	1.380169279	0.851204325	0.853166079	1.373829506637	0.082547149
271	0.069773732	1.386602923	0.849227295	0.851203244	1.380172787240	0.076203869
272	0.063252231	1.393124425	0.84723726	0.849226215	1.386606447910	0.069770208
273	0.056645416	1.399731239	0.845235389	0.847236183	1.393127965636	0.06324869
274	0.049955849	1.406420806	0.843222834	0.845234315	1.399734796946	0.056641859
275	0.043186113	1.413190543	0.841200726	0.843221763	1.406424380937	0.049952275
276	0.0363388	1.420037856	0.839170173	0.841199657	1.413194134530	0.043182521
277	0.029416513	1.426960143	0.837132261	0.839169106	1.420041464986	0.036335191
278	0.02242189	1.433954765	0.83508806	0.837131197	1.426963769543	0.029412886
279	0.015357596	1.441019059	0.833038623	0.835086999	1.433958410166	0.022418246
280	0.008226319	1.448150337	0.830984982	0.833037564	1.441022721929	0.015353934
281	0.001030781	1.455345875	0.828928154	0.830983926	1.448154017369	0.008222639
282	-0.006226258	1.462602913	0.826869139	0.828927100	1.455349574109	0.001027082
283	-0.01354199	1.469918646	0.824808923	0.826868088	1.462606630713	-0.006229975
284	-0.020913541	1.477290196	0.822748487	0.824807875	1.469922382128	-0.013545726

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
285	-0.02833797	1.484714626	0.8206888	0.822747441	1.477293951124	-0.020917295
286	-0.035812313	1.492188969	0.818630813	0.820687757	1.484718399675	-0.028341744
287	-0.043333571	1.499710227	0.816575459	0.818629773	1.492192761569	-0.035816106
288	-0.050898694	1.50727535	0.814523656	0.816574421	1.499714038903	-0.043337383
289	-0.058504578	1.514881233	0.812476311	0.814522620	1.507279180818	-0.050902525
290	-0.066148015	1.52252467	0.810434332	0.812475278	1.514885083789	-0.058508428
291	-0.073825685	1.530202341	0.80839863	0.810433302	1.522528540223	-0.066151884
292	-0.081534201	1.537910857	0.806370105	0.808397603	1.530206230206	-0.073829574
293	-0.08927016	1.545646815	0.804349634	0.806369080	1.537914765794	-0.08153811
294	-0.097030144	1.5534068	0.802338069	0.804348611	1.545650744081	-0.089274088
295	-0.104810706	1.561187362	0.800336247	0.802337050	1.553410748312	-0.097034092
296	-0.112608373	1.568985028	0.798344983	0.800335230	1.561191329865	-0.104814674
297	-0.120419658	1.576796313	0.796365069	0.798343968	1.568989016438	-0.11261236
298	-0.128241063	1.584617719	0.794397276	0.796364056	1.576800321297	-0.120423665
299	-0.136069105	1.59244576	0.792442347	0.794396266	1.584621746408	-0.12824509
300	-0.143900312	1.600276968	0.790500998	0.792441340	1.592449807720	-0.136073152
301	-0.151731238	1.608107894	0.788573917	0.790499994	1.600281035095	-0.143904379
302	-0.159558462	1.615935118	0.786661762	0.788572915	1.608111981102	-0.151735325
303	-0.167378569	1.623755224	0.784765169	0.786660762	1.615939224981	-0.159562569
304	-0.175188155	1.63156481	0.782884753	0.784764172	1.623759351641	-0.167382696
305	-0.182983864	1.63936052	0.781021095	0.782883758	1.631568957180	-0.175192301
306	-0.190762366	1.647139022	0.779174753	0.781020102	1.639364686452	-0.18298803
307	-0.198520329	1.654896985	0.777346268	0.779173763	1.647143208472	-0.190766552
308	-0.206254426	1.662631081	0.775536161	0.777345280	1.654901191019	-0.198524535
309	-0.213961378	1.670338034	0.773744927	0.775535175	1.662635307233	-0.206258651
310	-0.221637983	1.678014638	0.771973029	0.773743944	1.670342279687	-0.213965624

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
311	-0.229281072	1.685657728	0.770220905	0.771972048	1.678018903250	-0.221642247
312	-0.236887505	1.693264161	0.768488976	0.770219926	1.685662012534	-0.229285357
313	-0.244454157	1.700830812	0.766777645	0.768487999	1.693268464588	-0.236891809
314	-0.251977919	1.708354575	0.765087299	0.766776670	1.700835135214	-0.244458479
315	-0.25945572	1.715832376	0.763418308	0.765086327	1.708358917314	-0.251982261
316	-0.266884528	1.723261184	0.761771021	0.763417338	1.715836736878	-0.259460081
317	-0.274261347	1.730638003	0.760145768	0.761770052	1.723265563937	-0.266888908
318	-0.281583192	1.737959848	0.75854287	0.760144802	1.730642401379	-0.274265745
319	-0.288847096	1.745223752	0.756962635	0.758541906	1.737964265561	-0.28158761
320	-0.296050109	1.752426765	0.755405359	0.756961673	1.745228188014	-0.288851532
321	-0.3031893	1.759565955	0.753871326	0.755404398	1.752431219348	-0.296054563
322	-0.310261741	1.766638397	0.752360813	0.753870368	1.759570427851	-0.303193772
323	-0.31726451	1.773641165	0.750874092	0.752359857	1.766642887257	-0.310266231
324	-0.324194683	1.780571339	0.749411427	0.750873138	1.773645673478	-0.317269017
325	-0.331049344	1.787425999	0.747973075	0.749410474	1.780575864498	-0.324199208
326	-0.337825574	1.794202229	0.74655929	0.747972124	1.787430542436	-0.331053886
327	-0.344520456	1.800897112	0.745170321	0.746558341	1.794206789878	-0.337830134
328	-0.351131074	1.80750773	0.743806413	0.745169374	1.800901689237	-0.344525033
329	-0.357654516	1.814031171	0.742467806	0.743805468	1.807512323939	-0.351135668
330	-0.364087871	1.820464527	0.741154739	0.742466863	1.814035782156	-0.357659126
331	-0.370428231	1.826804886	0.739867444	0.741153797	1.820469153955	-0.364092498
332	-0.376672686	1.833049342	0.738606155	0.739866504	1.826809529757	-0.370432874
333	-0.38281833	1.839194985	0.737371101	0.738605216	1.833054000805	-0.376677345
334	-0.388862259	1.845238915	0.736162511	0.737370164	1.839199659964	-0.382823004
335	-0.394801579	1.851178235	0.734980611	0.736161576	1.845243604739	-0.388866949
336	-0.400633406	1.857010061	0.733825622	0.734979677	1.851182940264	-0.394806284

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
337	-0.406354863	1.862731518	0.732697768	0.733824690	1.857014781289	-0.400638125
338	-0.411963095	1.86833975	0.731597265	0.732696837	1.862736252746	-0.406359597
339	-0.417455266	1.873831921	0.730524328	0.731596335	1.868344499180	-0.411967843
340	-0.422828574	1.87920523	0.729479168	0.730523400	1.873836684023	-0.417460028
341	-0.428080256	1.884456912	0.728461987	0.729478240	1.879210006162	-0.422833335
342	-0.433207617	1.889584273	0.72747298	0.728461061	1.884461701762	-0.428085046
343	-0.438208064	1.894584719	0.726512323	0.727472055	1.889589075724	-0.43321242
344	-0.443079076	1.899455732	0.725580181	0.726511399	1.894589534807	-0.438212879
345	-0.447818246	1.904194902	0.724676705	0.725579259	1.899460560045	-0.443083904
346	-0.45242337	1.908800025	0.723802009	0.724675784	1.904199741959	-0.447823086
347	-0.456892453	1.913269108	0.722956173	0.723801089	1.908804877017	-0.452428221
348	-0.461223725	1.917600381	0.722139243	0.722955254	1.913273971549	-0.456897316
349	-0.465415548	1.921792204	0.721351246	0.722138325	1.917605254641	-0.461228599
350	-0.469466376	1.925843032	0.7205922	0.721350329	1.921797088576	-0.465420433
351	-0.473374798	1.929751453	0.719862104	0.720591284	1.925847926905	-0.469471271
352	-0.477139517	1.933516173	0.719160947	0.719861190	1.929756358322	-0.473379702
353	-0.480759323	1.937135979	0.718488707	0.719160033	1.933521087217	-0.477144431
354	-0.484233074	1.940609729	0.71784536	0.718487794	1.937140902549	-0.480764247
355	-0.487559684	1.94393634	0.717230882	0.717844448	1.940614662011	-0.484238006
356	-0.490738139	1.947114794	0.716645242	0.717229970	1.943941280685	-0.487564625
357	-0.493767475	1.950144131	0.71608841	0.716644331	1.947119743258	-0.490743087
358	-0.496646782	1.953023438	0.715560358	0.716087500	1.950149087382	-0.493772431
359	-0.499375208	1.955751864	0.715061052	0.715559448	1.953028402057	-0.496651746
360	-0.501951953	1.958328609	0.714590463	0.715060143	1.955756835129	-0.499380179
361	-0.504376267	1.960752922	0.714148559	0.714589555	1.958333586324	-0.50195693
362	-0.506647447	1.963024103	0.713735312	0.714147652	1.960757906132	-0.50438125

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
363	-0.508764841	1.965141496	0.713350692	0.713734405	1.963029092509	-0.506652437
364	-0.510727849	1.967104505	0.71299467	0.713349785	1.965146491409	-0.508769835
365	-0.512535929	1.968912584	0.712667219	0.712993764	1.967109504789	-0.510732849
366	-0.514188569	1.970565225	0.712368312	0.712666313	1.968917588839	-0.512540933
367	-0.515685297	1.972061953	0.712097929	0.712367407	1.970570233564	-0.514193578
368	-0.517025681	1.973402337	0.711856051	0.712097024	1.972066965189	-0.515690309
369	-0.518209342	1.974585998	0.711642659	0.711855146	1.973407352623	-0.517030697
370	-0.519235952	1.975612608	0.711457735	0.711641754	1.974591016902	-0.518214361
371	-0.520105208	1.976481863	0.711301269	0.711456831	1.975617629173	-0.519240973
372	-0.520816845	1.977193501	0.71117325	0.711300365	1.976486886868	-0.520110231
373	-0.521370671	1.977747327	0.711073669	0.711172346	1.977198526338	-0.52082187
374	-0.521766583	1.978143239	0.711002507	0.711072765	1.977752353998	-0.521375698
375	-0.522004587	1.978381243	0.710959738	0.711001603	1.978148267039	-0.521771611
376	-0.5220848	1.978461455	0.710945326	0.710958834	1.978386271307	-0.522009615
377	-0.522007423	1.978384079	0.710959228	0.710944422	1.978466483892	-0.522089828
378	-0.521772755	1.97814941	0.711001398	0.710958325	1.978389107273	-0.522012451
379	-0.521381208	1.977757863	0.711071775	0.711000494	1.978154438311	-0.521777782
380	-0.520833286	1.977209942	0.711170293	0.711070871	1.977762890219	-0.521386234
381	-0.520129647	1.976506303	0.711296871	0.711169390	1.977214967324	-0.520838311
382	-0.5192711	1.975647755	0.711451407	0.711295967	1.976511326711	-0.520134671
383	-0.51825858	1.974635235	0.711633786	0.711450502	1.975652776854	-0.519276121
384	-0.517093137	1.973469793	0.711843885	0.711632882	1.974640254330	-0.518263598
385	-0.515775907	1.972152562	0.712081571	0.711842980	1.973474808861	-0.517098153
386	-0.514308101	1.970684757	0.712346708	0.712080666	1.972157575136	-0.515780919
387	-0.512690993	1.969067649	0.712639157	0.712345802	1.970689765954	-0.51431311
388	-0.510925942	1.967302597	0.712958773	0.712638251	1.969072653879	-0.512695998

Periode hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
389	-0.509014381	1.965391036	0.713305404	0.712957867	1.967307597642	-0.510930942
390	-0.506957825	1.96333448	0.713678894	0.713304498	1.965396031785	-0.509019376
391	-0.504757835	1.96113449	0.714079082	0.713677987	1.963339470472	-0.506962814
392	-0.50241602	1.958792676	0.714505809	0.714078175	1.961139474882	-0.504762819
393	-0.499934044	1.956310699	0.714958914	0.714504901	1.958797654478	-0.502420998
394	-0.497313604	1.953690259	0.715438232	0.714958005	1.956315671622	-0.499939016
395	-0.494556424	1.950933079	0.715943604	0.715437323	1.953695224945	-0.497318569
396	-0.491664233	1.948040889	0.716474876	0.715942694	1.950938038104	-0.494561382
397	-0.488638765	1.94501542	0.717031897	0.716473965	1.948045840435	-0.491669184
398	-0.485481763	1.941858419	0.717614522	0.717030986	1.945020364256	-0.488643708
399	-0.482194981	1.938571636	0.71822261	0.717613610	1.941863354546	-0.485486699
400	-0.478780176	1.935156832	0.718856024	0.718221697	1.938576563767	-0.482199908
401	-0.475239124	1.93161578	0.719514628	0.718855110	1.935161750623	-0.478785095
402	-0.471573637	1.927950292	0.720198286	0.719513714	1.931620689615	-0.475244034
403	-0.46778558	1.924162235	0.720906857	0.720197371	1.927955192880	-0.471578537
404	-0.463876855	1.92025351	0.721640197	0.720905941	1.924167125975	-0.46779047
405	-0.45984939	1.916226046	0.722398159	0.721639279	1.920258391013	-0.463881735
406	-0.455705132	1.912081787	0.723180601	0.722397241	1.916230916618	-0.459854261
407	-0.451446051	1.907822706	0.723987376	0.723179681	1.912086647473	-0.455709991
408	-0.447074165	1.903450821	0.724818333	0.723986455	1.907827555717	-0.4514509
409	-0.442591521	1.898968177	0.725673321	0.724817412	1.903455658794	-0.447079003
410	-0.438000176	1.894376832	0.72652185	0.725672399	1.898973003282	-0.442596347
411	-0.433302184	1.889678839	0.727454777	0.726551262	1.894381646862	-0.438004991
412	-0.428499583	1.884876238	0.728380952	0.727453852	1.889683642295	-0.433306986
413	-0.423594394	1.879971049	0.729330573	0.728380027	1.884881029391	-0.428504373
414	-0.418588601	1.874965256	0.73030351	0.729329646	1.879975827628	-0.423599172

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
415	-0.413484151	1.869860807	0.731299642	0.730302582	1.874970021961	-0.418593366
416	-0.408282977	1.864659632	0.732318854	0.731298712	1.869865559643	-0.413488904
417	-0.402986991	1.859363647	0.733361037	0.732317923	1.864664371821	-0.408287716
418	-0.39759808	1.853974735	0.734426086	0.733360105	1.859368372599	-0.402991717
419	-0.392118108	1.848494763	0.735513905	0.734425153	1.853979447476	-0.397602791
420	-0.386548939	1.842925595	0.736624398	0.735512971	1.848499461769	-0.392122806
421	-0.380892447	1.837269103	0.737757468	0.736623462	1.842930279121	-0.386553623
422	-0.375150502	1.831527157	0.738913019	0.737756530	1.837273772543	-0.380897117
423	-0.369324977	1.825701633	0.740090958	0.738912080	1.831531812564	-0.375155157
424	-0.363417766	1.819794421	0.741291184	0.740090017	1.825706273363	-0.369329617
425	-0.357430753	1.813807409	0.742513603	0.741290242	1.819799046586	-0.363422391
426	-0.351365798	1.807742454	0.743758122	0.742512659	1.813812019005	-0.357435363
427	-0.34522472	1.801601376	0.745024659	0.743757177	1.807747048493	-0.351370392
428	-0.339009319	1.795385974	0.746313136	0.745023713	1.801605954932	-0.345229299
429	-0.332721381	1.789098037	0.747623477	0.746312188	1.795390537656	-0.339013882
430	-0.326362695	1.782739351	0.748955604	0.747622526	1.789102584007	-0.332725928
431	-0.31993504	1.776311696	0.750309443	0.748954652	1.782743881862	-0.326367226
432	-0.313440195	1.769816851	0.751684919	0.750308490	1.776316210540	-0.319939555
433	-0.306879929	1.763256584	0.753081958	0.751683964	1.769821349041	-0.313444693
434	-0.300256009	1.756632665	0.754500484	0.753081001	1.763261066140	-0.30688441
435	-0.293570203	1.749946859	0.755940424	0.754499525	1.756637129929	-0.300260474
436	-0.286824271	1.743200926	0.757401701	0.755939463	1.749951306489	-0.29357465
437	-0.280019974	1.73639663	0.758884238	0.757400738	1.743205357297	-0.286828701
438	-0.273159073	1.729535729	0.760387959	0.758883274	1.736401043028	-0.280024387
439	-0.266243316	1.722619971	0.761912785	0.760386992	1.729540124954	-0.273163469
440	-0.259274439	1.715651095	0.76345864	0.761911816	1.722624349886	-0.266247694

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
441	-0.25225417	1.708630825	0.765025447	0.763457669	1.715655455502	-0.2592788
442	-0.245184227	1.701560883	0.76661313	0.765024475	1.708635168345	-0.252258512
443	-0.238066333	1.694442989	0.76822161	0.766612156	1.701565207687	-0.245188552
444	-0.230902213	1.687278869	0.769850801	0.768220633	1.694447295882	-0.23807064
445	-0.223693596	1.680070252	0.771500619	0.769849823	1.687283157544	-0.230906502
446	-0.216442197	1.672818852	0.773170976	0.771499639	1.680074522384	-0.223697866
447	-0.20914973	1.665526386	0.774861783	0.773169994	1.672823104119	-0.216446448
448	-0.201817919	1.658194575	0.776572943	0.774860798	1.665530619328	-0.209153963
449	-0.194448485	1.650825141	0.778304359	0.776571956	1.658198789386	-0.201822133
450	-0.187043149	1.643419805	0.780055928	0.778303370	1.650829336890	-0.194452681
451	-0.179603643	1.635980298	0.781827542	0.780054937	1.643423982058	-0.187047326
452	-0.172131729	1.628508385	0.783619078	0.781826548	1.635984456713	-0.179607801
453	-0.164629205	1.621005861	0.785430402	0.783618082	1.628512523996	-0.172135868
454	-0.15709791	1.613474565	0.787261364	0.785429403	1.621009980948	-0.164633325
455	-0.149539707	1.605916363	0.789111801	0.787260363	1.613478666232	-0.15710201
456	-0.141956499	1.598333155	0.790981536	0.789110799	1.605920444492	-0.149543788
457	-0.13435022	1.590726876	0.792870374	0.790980531	1.598337217644	-0.141960562
458	-0.12672285	1.583099506	0.794778103	0.792869367	1.590730919219	-0.134354263
459	-0.119076413	1.575453069	0.79670449	0.794777093	1.583103529627	-0.126726874
460	-0.111412946	1.567789602	0.798649291	0.796703478	1.575457073070	-0.119080417
461	-0.103734502	1.560111157	0.800612246	0.798648276	1.567793586481	-0.11141693
462	-0.096043142	1.552419798	0.802593085	0.800611228	1.560115122805	-0.103738467
463	-0.088340946	1.544717601	0.804591523	0.802592065	1.552423743438	-0.096047087
464	-0.080630034	1.53700669	0.80660725	0.804590500	1.544721527531	-0.088344872
465	-0.072912609	1.529289264	0.808639925	0.806606225	1.537010596556	-0.080633941
466	-0.06519095	1.521567605	0.810689174	0.808638898	1.529293151328	-0.072916495

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
467	-0.057467405	1.51384406	0.812754587	0.810688143	1.521571472720	-0.065194817
468	-0.049744363	1.506121018	0.814835732	0.812753554	1.513847907953	-0.057471252
469	-0.042024239	1.498400894	0.816932151	0.814834697	1.506124846330	-0.04974819
470	-0.034309488	1.490686144	0.819043358	0.816931112	1.498404702890	-0.042028047
471	-0.02660258	1.482979236	0.821168847	0.819042317	1.490689932942	-0.034313277
472	-0.018905999	1.475282654	0.823308088	0.821167803	1.482983005368	-0.026606349
473	-0.011222239	1.467598894	0.82546053	0.823307042	1.475286404151	-0.018909748
474	-0.0035538	1.459930455	0.8276256	0.825459481	1.467602624577	-0.011225969
475	0.004096821	1.452279834	0.829802706	0.827624548	1.459934166001	-0.00355751
476	0.011727137	1.444649518	0.831991236	0.829801651	1.452283525549	0.00409313
477	0.019334668	1.437041987	0.834190561	0.831990178	1.444653190392	0.011723466
478	0.026916958	1.429459697	0.836400035	0.834189501	1.437045639760	0.019331016
479	0.034471561	1.421905094	0.838618995	0.836398972	1.429463330484	0.026913326
480	0.041996044	1.414380612	0.840846756	0.838617929	1.421908708373	0.034467948
481	0.049487988	1.406888668	0.843082616	0.840845687	1.414384206866	0.041992449
482	0.056944979	1.399431677	0.84532585	0.843081544	1.406892243875	0.049484412
483	0.064364603	1.392012052	0.84757571	0.845324776	1.399435234000	0.056941422
484	0.071744462	1.384632194	0.849831427	0.847574633	1.392015590306	0.064361066
485	0.079082184	1.377294472	0.852092216	0.849830347	1.384635713086	0.071740943
486	0.086375441	1.370001215	0.854357279	0.852091133	1.377297972543	0.079078683
487	0.093621982	1.362754674	0.856625819	0.854356193	1.370004696902	0.086371959
488	0.100819657	1.355556998	0.858897044	0.856624730	1.362758137439	0.093618519
489	0.107966433	1.348410223	0.861170178	0.858895953	1.355560443890	0.100816212
490	0.115060402	1.341316253	0.863444458	0.861169083	1.348413650042	0.107963006
491	0.122099831	1.334276824	0.865719159	0.863443361	1.341319662507	0.115056993
492	0.129083114	1.327293542	0.867993573	0.865718058	1.334280215588	0.12209644

Per iod e per - har i	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
49 3	0.136008721	1.320367935	0.870267	0.867992470	1.327296915615	0.12907974
49 4	0.142875183	1.313501473	0.872538739	0.870265894	1.320371290647	0.136005365
49 5	0.149681112	1.306695543	0.874808099	0.872537630	1.313504811646	0.142871844
49 6	0.156425286	1.29995137	0.877074424	0.874806987	1.306698864413	0.149677792
49 7	0.163106653	1.293270003	0.879337102	0.877073310	1.299954673948	0.156421982
49 8	0.169724342	1.286652313	0.881595566	0.879335985	1.293273289845	0.163103366
49 9	0.17627763	1.280099025	0.883849288	0.881594446	1.286655583794	0.169721072
50 0	0.182765922	1.273610733	0.886097772	0.883848165	1.280102279121	0.176274377
50 1	0.189188706	1.26718795	0.888340542	0.886096646	1.273613970492	0.182762686
50 2	0.195545487	1.260831169	0.890577117	0.888339413	1.267191170723	0.189185485
50 3	0.201835775	1.254540881	0.892807009	0.890575985	1.260834373562	0.195542282
50 4	0.208059095	1.24831756	0.895029727	0.892805874	1.254544069842	0.201832586
50 5	0.214214993	1.242161663	0.897244778	0.895028590	1.248320733307	0.208055923
50 6	0.22030302	1.236073636	0.899451661	0.897243637	1.242164820220	0.214211836
50 7	0.226322744	1.230053911	0.901649875	0.899450518	1.236076777476	0.220299879
50 8	0.232273744	1.224102911	0.903838912	0.901648729	1.230057038003	0.226319618
50 9	0.238155607	1.218221049	0.90601826	0.903837763	1.224106022633	0.232270633
51 0	0.243967919	1.212408737	0.908187398	0.906017108	1.218224145269	0.238152511
51 1	0.249710267	1.206666388	0.910345799	0.908186244	1.212411818583	0.243964837
51 2	0.25538224	1.200994415	0.912492925	0.910344642	1.206669455251	0.249707201
51 3	0.260983425	1.195393231	0.914628234	0.912491766	1.200997467945	0.255379188
51 4	0.266513408	1.189863248	0.916751174	0.914627072	1.195396269341	0.260980387
51 5	0.271971777	1.184404878	0.918861185	0.916750009	1.189866272111	0.266510384
51 6	0.27735812	1.179018536	0.920957701	0.918860017	1.184407888931	0.271968767
51 7	0.282672023	1.173704632	0.923040147	0.920956530	1.179021532474	0.277355124
51 8	0.287913075	1.16846358	0.925107943	0.923038974	1.173707615414	0.282669041

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
519	0.293080862	1.163295793	0.9271605	0.925106767	1.168466550426	0.287910106
520	0.298174972	1.158201683	0.929197225	0.927159322	1.163298750183	0.293077906
521	0.303194992	1.153181664	0.931217515	0.929196044	1.158204627359	0.298172029
522	0.308140509	1.148236146	0.933220763	0.931216332	1.153184594629	0.303192061
523	0.313011112	1.143365544	0.935206356	0.933219577	1.148239064666	0.308137591
524	0.317806386	1.13857027	0.937173674	0.935205168	1.143368450145	0.313008206
525	0.322525919	1.133850736	0.939122091	0.937172483	1.138573163739	0.317803492
526	0.3271693	1.129207356	0.941050979	0.939120898	1.133853618123	0.322523038
527	0.331736114	1.124640541	0.9429597	0.941049783	1.129210225970	0.32716643
528	0.33622595	1.120150706	0.944847616	0.942958502	1.124643399955	0.331733256
529	0.340638395	1.115738261	0.946714081	0.944846415	1.120153552752	0.336223103
530	0.344973035	1.111403621	0.948558448	0.946712878	1.115741097034	0.340635559
531	0.349229459	1.107147197	0.950380064	0.948557243	1.111406445476	0.344970211
532	0.353407254	1.102969402	0.952178274	0.950378856	1.107150010752	0.349226645
533	0.357506006	1.098870649	0.953952418	0.952177063	1.102972205536	0.35340445
534	0.361525304	1.094851351	0.955701837	0.953951206	1.098873442502	0.357503213
535	0.365464735	1.090911921	0.957425866	0.955700622	1.094854134323	0.361522522
536	0.369323885	1.08705277	0.959123841	0.957424649	1.090914693675	0.365461962
537	0.373102343	1.083274312	0.960795096	0.959122622	1.087055533231	0.369321123
538	0.376799696	1.07957696	0.962438963	0.960793875	1.083277065664	0.37309959
539	0.380415531	1.075961125	0.964054775	0.962437740	1.079579703650	0.376796952
540	0.383949434	1.072427221	0.965641864	0.964053549	1.075963859862	0.380412796
541	0.387400995	1.068975661	0.967199563	0.965640636	1.072429947001	0.383946709
542	0.390769798	1.065606857	0.968727206	0.967198333	1.068978377950	0.387398278
543	0.394055432	1.062321224	0.970224128	0.968725975	1.065609565912	0.39076709
544	0.397257482	1.059119174	0.971689668	0.970222895	1.062323924164	0.394052732

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
545	0.400375536	1.056001119	0.973123165	0.971688433	1.059121866031	0.39725479
546	0.403409193	1.052967463	0.974523967	0.973121928	1.056003803245	0.400372853
547	0.406358056	1.0500186	0.975891429	0.974522728	1.052970139393	0.403406517
548	0.409221755	1.0471549	0.977224924	0.975890189	1.050021268760	0.406355387
549	0.41199997	1.044376686	0.978523851	0.977223683	1.047157561991	0.409219094
550	0.414692421	1.041684235	0.979787635	0.978522607	1.044379340441	0.411997316
551	0.417298851	1.039077804	0.981015719	0.979786390	1.041686882217	0.414689774
552	0.419819039	1.036557616	0.982207569	0.981014472	1.039080445261	0.417296211
553	0.422252823	1.034123833	0.98336269	0.982206321	1.036560250786	0.419816405
554	0.424600111	1.031776545	0.984480628	0.983361440	1.034126461522	0.422250194
555	0.426860901	1.029515754	0.985560982	0.984479376	1.031779167176	0.424597489
556	0.429035277	1.027341379	0.986603404	0.985559729	1.029518371059	0.426858285
557	0.431123392	1.025253264	0.987607592	0.986602150	1.027343989912	0.429032666
558	0.433125476	1.023251179	0.988573292	0.987606337	1.025255869733	0.431120786
559	0.435041804	1.021334851	0.989500286	0.988572036	1.023253780359	0.433122876
560	0.436872694	1.019503961	0.990388391	0.989499029	1.021337447234	0.435039209
561	0.438618493	1.017758162	0.991237453	0.990387133	1.019506552449	0.436870104
562	0.440279567	1.016097089	0.992047339	0.991236193	1.017760749308	0.438615907
563	0.441856304	1.014520351	0.992817945	0.992046078	1.016099671181	0.440276985
564	0.443349119	1.013027536	0.993549192	0.992816683	1.014522929948	0.441853726
565	0.444758452	1.011618204	0.994241032	0.993547930	1.013030111348	0.443346545
566	0.446084749	1.010291906	0.99489343	0.994239768	1.011620774799	0.444755881
567	0.447328457	1.009048199	0.995506372	0.994892166	1.010294474205	0.446082182
568	0.448490021	1.007886635	0.996079855	0.995505107	1.009050763474	0.447325893
569	0.449569887	1.006806768	0.996613892	0.996078589	1.007889196509	0.448487459
570	0.450568503	1.005808153	0.997108513	0.996612626	1.006809327218	0.449567329

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
571	0.451486313	1.004890343	0.99756376	0.997107246	1.005810709506	0.450565946
572	0.452323763	1.004052892	0.997979693	0.997562493	1.004892897278	0.451483759
573	0.453081301	1.003295355	0.998356384	0.997978424	1.004055444440	0.452321212
574	0.453759371	1.002617284	0.998693921	0.998355115	1.003297904898	0.453078751
575	0.454358421	1.002018234	0.998992408	0.998692652	1.002619832557	0.453756823
576	0.454878896	1.00149776	0.99925196	0.998991138	1.002020781324	0.454355875
577	0.455321242	1.001055413	0.999472711	0.999250690	1.001500305103	0.454876351
578	0.455685906	1.00069075	0.999654804	0.999471440	1.001057957800	0.455318698
579	0.455973333	1.000403323	0.9997984	0.999653533	1.000693293322	0.455683363
580	0.456183969	1.000192686	0.999903671	0.999797129	1.000405865573	0.45597079
581	0.456318262	1.000058394	0.999970804	0.999902400	1.000195228460	0.456181428
582	0.456376656	1	1	0.999969533	1.000060935888	0.45631572
583	0.456359597	1.000017058	0.999991471	0.999998729	1.000002541762	0.456374114
584	0.456267533	1.000109122	0.999945443	0.999990200	1.000019599989	0.456357056
585	0.456100909	1.000275747	0.999862155	0.999944172	1.000111664474	0.456264992
586	0.455860171	1.000516485	0.999741858	0.999860884	1.000278289123	0.456098367
587	0.455545765	1.000830891	0.999584813	0.999740587	1.000519027841	0.455857628
588	0.455158137	1.001218518	0.999391297	0.999583543	1.000833434535	0.455543221
589	0.454697734	1.001678921	0.999161595	0.999390027	1.001221063109	0.455155593
590	0.454165001	1.002211654	0.998896004	0.999160325	1.001681467469	0.454695189
591	0.453560385	1.00281627	0.998594832	0.998894734	1.002214201522	0.454162454
592	0.452884332	1.003492324	0.998258399	0.998593563	1.002818819172	0.453557837
593	0.452137287	1.004239368	0.997887032	0.998257130	1.003494874325	0.452881782
594	0.451319697	1.005056958	0.997481071	0.997885764	1.004241920888	0.452134735
595	0.450432009	1.005944647	0.997040863	0.997479803	1.005059512765	0.451317143
596	0.449474667	1.006901989	0.996566768	0.997039596	1.005947203863	0.450429452

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
597	0.448448118	1.007928537	0.99605915	0.996565501	1.006904548087	0.449472108
598	0.447352809	1.009023847	0.995518385	0.996057884	1.007931099342	0.448445557
599	0.446189185	1.010187471	0.994944856	0.995517120	1.009026411535	0.447350244
600	0.444957692	1.011418964	0.994338955	0.994943592	1.010190038571	0.446186617
601	0.443658777	1.012717879	0.993701079	0.994337691	1.011421534356	0.444955122
602	0.442292885	1.01408377	0.993031635	0.993699816	1.012720452795	0.443656203
603	0.440860464	1.015516192	0.992331034	0.993030373	1.014086347794	0.442290308
604	0.439361958	1.017014698	0.991599697	0.992329773	1.015518773258	0.440857883
605	0.437797813	1.018578842	0.990838047	0.991598437	1.017017283095	0.439359373
606	0.436168477	1.020208178	0.990046516	0.990836788	1.018581431208	0.437795225
607	0.434474395	1.02190226	0.989225539	0.990045257	1.020210771504	0.436165884
608	0.432716013	1.023660642	0.988375558	0.989224282	1.021904857888	0.434471798
609	0.430893778	1.025482878	0.987497019	0.988374302	1.023663244266	0.432713412
610	0.429008134	1.027368521	0.986590371	0.987495764	1.025485484544	0.430891171
611	0.427059529	1.029317126	0.98565607	0.986589117	1.027371132627	0.429005523
612	0.425048409	1.031328246	0.984694572	0.985654817	1.029319742422	0.427056914
613	0.422975219	1.033401436	0.983706338	0.984693320	1.031330867833	0.425045788
614	0.420840407	1.035536249	0.982691834	0.983705088	1.033404062766	0.422972593
615	0.418644416	1.037732239	0.981651525	0.982690585	1.035538881128	0.420837775
616	0.416387695	1.03998896	0.98058588	0.981650277	1.037734876823	0.418641779
617	0.414070689	1.042305967	0.979495371	0.980584634	1.039991603757	0.416385052
618	0.411693844	1.044682812	0.978380471	0.979494127	1.042308615837	0.41406804
619	0.409257606	1.04711905	0.977241653	0.978379228	1.044685466967	0.411691189
620	0.406762421	1.049614234	0.976079393	0.977240411	1.047121711053	0.409254945
621	0.404208736	1.052167919	0.974894167	0.976078153	1.049616902002	0.406759754
622	0.401596996	1.054779659	0.973686451	0.974892928	1.052170593718	0.404206062

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
623	0.398927648	1.057449007	0.972456723	0.973685214	1.054782340108	0.401594316
624	0.396201138	1.060175518	0.971205458	0.972455487	1.057451695076	0.398924961
625	0.393417911	1.062958745	0.969933134	0.971204224	1.060178212529	0.396198443
626	0.390578414	1.065798242	0.968640225	0.969931901	1.062961446373	0.39341521
627	0.387683093	1.068693562	0.967327208	0.968638994	1.065800950513	0.390575705
628	0.384732394	1.071644261	0.965994555	0.967325979	1.068696278854	0.387680377
629	0.381726763	1.074649892	0.96464274	0.965993328	1.071646985303	0.384729671
630	0.378666647	1.077710009	0.963272234	0.964641514	1.074652623764	0.381724032
631	0.37555249	1.080824165	0.961883504	0.963271009	1.077712748144	0.378663908
632	0.372384741	1.083991915	0.96047702	0.961882282	1.080826912349	0.375549744
633	0.369163843	1.087212812	0.959053245	0.960475799	1.083994670284	0.372381986
634	0.365890244	1.090486411	0.957612642	0.959052026	1.087215575854	0.36916108
635	0.36256439	1.093812265	0.956155672	0.957611425	1.090489182965	0.365887473
636	0.359186727	1.097189929	0.95468279	0.956154457	1.093815045524	0.36256161
637	0.355757701	1.100618955	0.953194452	0.954681577	1.097192717435	0.359183939
638	0.352277757	1.104098899	0.951691108	0.953193241	1.100621752605	0.355754903
639	0.348747343	1.107629313	0.950173206	0.951689899	1.104101704938	0.352274951
640	0.345166903	1.111209752	0.94864119	0.950171999	1.107632128341	0.348744528
641	0.341536885	1.11483977	0.947095501	0.948639985	1.111212576720	0.345164079
642	0.337857735	1.118518921	0.945536574	0.947094297	1.114842603979	0.341534052
643	0.334129897	1.122246758	0.943964844	0.945535373	1.118521764026	0.337854892
644	0.33035382	1.126022836	0.942380738	0.943963644	1.122249610764	0.334127045
645	0.326529947	1.129846708	0.940784682	0.942379541	1.126025698100	0.330350958
646	0.322658727	1.133717929	0.939177096	0.940783487	1.129849579940	0.326527076
647	0.318740604	1.137636051	0.937558395	0.939175902	1.133720810190	0.322655846
648	0.314776026	1.14160063	0.935928991	0.937557204	1.137638942754	0.318737713

Periode - hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
649	0.310765437	1.145611219	0.934289291	0.935927802	1.141603531539	0.314773124
650	0.306709284	1.149667371	0.932639697	0.934288104	1.145614130450	0.310762526
651	0.302608014	1.153768642	0.930980607	0.932638512	1.149670293394	0.306706363
652	0.298462072	1.157914584	0.929312413	0.930979424	1.153771574275	0.302605082
653	0.294271904	1.162104752	0.927635502	0.929311232	1.157917526999	0.298459129
654	0.290037957	1.166338699	0.925950258	0.927634323	1.162107705472	0.294268951
655	0.285760676	1.17061598	0.924257058	0.925949081	1.166341663600	0.290034992
656	0.281440508	1.174936148	0.922556275	0.924255884	1.170618955288	0.285757701
657	0.277077898	1.179298757	0.920848276	0.922555103	1.174939134442	0.281437522
658	0.272673294	1.183703362	0.919133424	0.920847106	1.179301754967	0.277074901
659	0.26822714	1.188149516	0.917412076	0.919132256	1.183706370770	0.272670285
660	0.263739883	1.192636772	0.915684583	0.917410910	1.188152535756	0.26822412
661	0.25921197	1.197164686	0.913951292	0.915683419	1.192639803831	0.263736852
662	0.254643845	1.20173281	0.912212545	0.913950131	1.197167728900	0.259208927
663	0.250035956	1.206340699	0.910468678	0.912211386	1.201735864868	0.254640791
664	0.245388749	1.210987907	0.908720022	0.910467521	1.206343765643	0.25003289
665	0.240702668	1.215673987	0.906966901	0.908718867	1.210990985128	0.245385671
666	0.235978162	1.220398494	0.905209636	0.906965748	1.215677077231	0.240699579
667	0.231215675	1.225160981	0.903448542	0.905208486	1.220401595856	0.23597506
668	0.226415654	1.229961002	0.901683929	0.903447394	1.225164094910	0.231212561
669	0.221578544	1.234798111	0.8999161	0.901682783	1.229964128297	0.226412528
670	0.216704793	1.239671863	0.898145355	0.899914956	1.234801249924	0.221575406
671	0.211794846	1.24458181	0.896371986	0.898144213	1.239675013696	0.216701642
672	0.206849148	1.249527507	0.894596283	0.896370847	1.244584973520	0.211791682
673	0.201868147	1.254508508	0.892818528	0.894595146	1.249530683300	0.206845973
674	0.196852289	1.259524367	0.891039	0.892817394	1.254511696942	0.201864959

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
675	0.191802018	1.264574637	0.88925797	0.891037867	1.259527568352	0.196849088
676	0.186717783	1.269658873	0.887475707	0.889256840	1.264577851435	0.191798805
677	0.181600028	1.274776628	0.885692473	0.887474579	1.269662100098	0.186714556
678	0.176449199	1.279927457	0.883908524	0.885691347	1.274779868246	0.181596788
679	0.171265743	1.285110912	0.882124114	0.883907401	1.27993709784	0.176445946
680	0.166050107	1.290326549	0.880339489	0.882122993	1.285114178619	0.171262477
681	0.160802735	1.295573921	0.878554892	0.880338371	1.290329828656	0.166046827
682	0.155524074	1.300852581	0.876770559	0.878553775	1.295577213800	0.160799442
683	0.150214571	1.306162085	0.874986724	0.876769445	1.300855887957	0.155520768
684	0.14487467	1.311501985	0.873203613	0.874985612	1.306165405034	0.150211251
685	0.139504819	1.316871836		0.144831260		0.14483126
686	0.134105464	1.322271192		0.139463018		0.139463018
687	0.12867705	1.327699606		0.134065281		0.134065281
688	0.123220023	1.333156632		0.128638493		0.128638493
689	0.117734831	1.338641825		0.123183102		0.123183102
690	0.112221918	1.344154738		0.117699553		0.117699553
691	0.106681731	1.349694925		0.112188292		0.112188292
692	0.101114716	1.35526194		0.106649765		0.106649765
693	0.095521319	1.360855337		0.101084418		0.101084418
694	0.089901986	1.366474669		0.095492697		0.095492697
695	0.084257164	1.372119492		0.089875048		0.089875048
696	0.078587298	1.377789358		0.084231917		0.084231917
697	0.072892834	1.383483821		0.078563750		0.07856375
698	0.067174219	1.389202436		0.072870993		0.072870993
699	0.061431899	1.394944757		0.067154091		0.067154091
700	0.055666319	1.400710336		0.061413492		0.061413492

Periode hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
701	0.049877927	1.406498729		0.055649640		0.05564964
702	0.044067167	1.412309489		0.049862981		0.049862981
703	0.038234486	1.41814217		0.044053963		0.044053963
704	0.03238033	1.423996325		0.038223029		0.038223029
705	0.026505146	1.42987151		0.032370628		0.032370628
706	0.020609379	1.435767277		0.026497204		0.026497204
707	0.014693475	1.441683181		0.020603203		0.020603203
708	0.00875788	1.447618775		0.014689072		0.014689072
709	0.002803042	1.453573614		0.008755256		0.008755256
710	-0.003170595	1.459547251		0.002802202		0.002802202
711	-0.009162585	1.46553924		- 0.003169645		-0.003169645
712	-0.01517248	1.471549136		- 0.009159839		-0.009159839
713	-0.021199835	1.477576491		- 0.015167934		-0.015167934
714	-0.027244205	1.48362086		- 0.021193483		-0.021193483
715	-0.033305142	1.489681798		- 0.027236041		-0.027236041
716	-0.039382201	1.495758857		- 0.033295163		-0.033295163
717	-0.045474936	1.501851591		- 0.039370401		-0.039370401
718	-0.0515829	1.507959556		- 0.045461310		-0.04546131
719	-0.057705648	1.514082304		- 0.051567444		-0.051567444
720	-0.063842733	1.520219389		- 0.057688357		-0.057688357
721	-0.06999371	1.526370365		- 0.063823603		-0.063823603
722	-0.076158131	1.532534787		- 0.069972737		-0.069972737
723	-0.082335552	1.538712208		- 0.076135311		-0.076135311
724	-0.088525526	1.544902181		- 0.082310881		-0.082310881
725	-0.094727607	1.551104262		- 0.088499000		-0.088499
726	-0.100941348	1.557318004		- 0.094699223		-0.094699223

Periode per hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
727	-0.107166304	1.56354296		- 0.100911102		-0.100911102
728	-0.113402029	1.569778685		- 0.107134193		-0.107134193
729	-0.119648077	1.576024732		- 0.113368050		-0.113368050
730	-0.125904001	1.582280656		- 0.119612226		-0.119612226
731	-0.132169355	1.588546011		- 0.125866275		-0.125866275
732	-0.138443694	1.594820349		- 0.132129752		-0.132129752
733	-0.14472657	1.601103226		- 0.138402211		-0.138402211
734	-0.151017539	1.607394195		- 0.144683205		-0.144683205
735	-0.157316154	1.61369281		- 0.150972289		-0.150972289
736	-0.163621969	1.619998625		- 0.157269016		-0.157269016
737	-0.169934537	1.626311193		- 0.163572942		-0.163572942
738	-0.176253414	1.632630069		- 0.169883619		-0.169883619
739	-0.182578152	1.638954807		- 0.176200602		-0.176200602
740	-0.188908305	1.645284961		- 0.182523444		-0.182523444
741	-0.195243428	1.651620084		- 0.188851701		-0.188851701
742	-0.201583074	1.65795973		- 0.195184926		-0.195184926
743	-0.207926798	1.664303453		- 0.201522672		-0.201522672
744	-0.214274152	1.670650808		- 0.207864495		-0.207864495
745	-0.220624692	1.677001348		- 0.214209948		-0.214209948
746	-0.226977971	1.683354626		- 0.220558584		-0.220558584
747	-0.233333542	1.689710198		- 0.226909959		-0.226909959
748	-0.23969096	1.696067616		- 0.233263627		-0.233263627
749	-0.246049779	1.702426435		- 0.239619140		-0.239619140
750	-0.252409553	1.708786209		- 0.245976054		-0.245976054
751	-0.258769835	1.715146491		- 0.252333922		-0.252333922
752	-0.26513018	1.721506835		- 0.258692298		-0.258692298

Per iod e per - har i	IMF7	IMF7Reverse	IMF7 Transformas i Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
75 3	-0.27149014	1.727866796		- 0.265050737		-0.265050737
75 4	-0.277849271	1.734225927		- 0.271408792		-0.271408792
75 5	-0.284207127	1.740583782		- 0.277766017		-0.277766017
75 6	-0.29056326	1.746939915		- 0.284121967		-0.284121967
75 7	-0.296917225	1.75329388		- 0.290476196		-0.290476196
75 8	-0.303268576	1.759645231		- 0.296828257		-0.296828257
75 9	-0.309616867	1.765993522		- 0.303177705		-0.303177705
76 0	-0.315961651	1.772338307		- 0.309524094		-0.309524094
76 1	-0.309524094					-0.309491027
76 2	-0.309491027					-0.309457963
76 3	-0.309457963					-0.309424902
76 4	-0.309424902					-0.309391844
76 5	-0.309391844					-0.309358789
76 6	-0.309358789					-0.309325737
76 7	-0.309325737					-0.309292687
76 8	-0.309292687					-0.309259641
76 9	-0.309259641					-0.309226597
77 0	-0.309226597					-0.309193556
77 1	-0.309193556					-0.309160518
77 2	-0.309160518					-0.309127483
77 3	-0.309127483					-0.309094451
77 4	-0.309094451					-0.309061422
77 5	-0.309061422					-0.309028396
77 6	-0.309028396					-0.308995373
77 7	-0.308995373					-0.308962352
77 8	-0.308962352					-0.308929334

Periode per-hari	IMF7	IMF7Reverse	IMF7 Transformasi Box Cox	Hasil Peramalan IMF 7	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
779	-0.308929334					-0.30889632
780	-0.30889632					-0.308863308
781	-0.308863308					-0.308830299
782	-0.308830299					-0.308797293
783	-0.308797293					-0.30876429
784	-0.30876429					-0.308731289
785	-0.308731289					-0.308698292
786	-0.308698292					-0.308665298
787	-0.308665298					-0.308632306
788	-0.308632306					-0.308599317
789	-0.308599317					-0.308566332
790	-0.308566332					-0.308533349
791	-0.308533349					-0.308500369

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LAMPIRAN K SELURUH PROSES IMF 8

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
1	-0.011555113	1.085109539	1.504415872			
2	-0.009603639	1.083158066	1.490936648	1.504409098	1.085108562	-0.011554135
3	-0.00767824	1.081232667	1.477732389	1.490929935	1.08315709	-0.009602664
4	-0.0057788	1.079333226	1.464797983	1.477725735	1.081231693	-0.007677267
5	-0.003905201	1.077459627	1.452128436	1.464791387	1.079332254	-0.005777828
6	-0.002057326	1.075611753	1.439718864	1.452121897	1.077458657	-0.00390423
7	-0.00023506	1.073789487	1.427564494	1.43971238	1.075610784	-0.002056358
8	0.001561714	1.071992712	1.415660662	1.427558066	1.07378852	-0.000234093
9	0.003333114	1.070221313	1.404002809	1.415654288	1.071991747	0.00156268
10	0.005079256	1.068475171	1.392586476	1.403996486	1.070220349	0.003334078
11	0.006800255	1.066754171	1.381407308	1.392580205	1.068474209	0.005080218
12	0.00849623	1.065058197	1.370461046	1.381401087	1.066753211	0.006801216
13	0.010167296	1.063387131	1.359743528	1.370454874	1.065057238	0.008497189
14	0.01181357	1.061740856	1.349250686	1.359737405	1.063386173	0.010168254
15	0.01343517	1.060119257	1.338978543	1.34924461	1.0617399	0.011814527
16	0.01503221	1.058522216	1.328923212	1.338972513	1.060118302	0.013436124
17	0.016604809	1.056949617	1.319080893	1.328917227	1.058521263	0.015033164
18	0.018153083	1.055401344	1.309447872	1.319074953	1.056948666	0.016605761
19	0.019677148	1.053877279	1.30002052	1.309441976	1.055400393	0.018154033
20	0.02117712	1.052377306	1.290795288	1.300014666	1.05387633	0.019678097
21	0.022653118	1.050901309	1.281768707	1.290789475	1.052376358	0.021178068
22	0.024105257	1.04944917	1.272937387	1.281762935	1.050900362	0.022654064
23	0.025533653	1.048020773	1.264298014	1.272931655	1.049448225	0.024106202
24	0.026938424	1.046616002	1.25584735	1.264292321	1.04801983	0.025534597

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
25	0.028319686	1.04523474	1.247582227	1.255841694	1.04661506	0.026939367
26	0.029677556	1.04387687	1.239499552	1.247576609	1.045233799	0.028320628
27	0.031012151	1.042542276	1.231596299	1.23949397	1.04387593	0.029678496
28	0.032323586	1.041230841	1.223869512	1.231590753	1.042541337	0.03101309
29	0.033611979	1.039942448	1.2163163	1.223864	1.041229903	0.032324524
30	0.034877446	1.038676981	1.208933839	1.216310823	1.039941511	0.033612915
31	0.036120104	1.037434322	1.201719367	1.208928395	1.038676045	0.034878381
32	0.03734007	1.036214357	1.194670187	1.201713956	1.037433388	0.036121038
33	0.03853746	1.035016967	1.187783659	1.194664807	1.036213424	0.037341003
34	0.03971239	1.033842037	1.181057207	1.187778311	1.035016035	0.038538392
35	0.040864978	1.032689449	1.17448831	1.181051889	1.033841105	0.039713321
36	0.04199534	1.031559087	1.168074505	1.174483021	1.032688519	0.040865908
37	0.043103593	1.030450834	1.161813384	1.168069245	1.031558158	0.041996269
38	0.044189853	1.029364574	1.155702596	1.161808153	1.030449906	0.043104521
39	0.045254236	1.02830019	1.149739841	1.155697392	1.029363647	0.04419078
40	0.046296861	1.027257566	1.14392287	1.149734663	1.028299264	0.045255163
41	0.047317842	1.026236584	1.138249488	1.143917719	1.027256641	0.046297786
42	0.048317298	1.025237129	1.132717548	1.138244362	1.02623566	0.047318767
43	0.049295344	1.024259083	1.127324952	1.132712447	1.025236206	0.048318221
44	0.050252096	1.02330233	1.122069649	1.127319876	1.024258161	0.049296266
45	0.051187673	1.022366754	1.116949636	1.122064597	1.023301409	0.050253018
46	0.05210219	1.021452237	1.111962955	1.116944607	1.022365833	0.051188594
47	0.052995764	1.020558663	1.107107691	1.111957948	1.021451317	0.05210311
48	0.053868511	1.019685916	1.102381974	1.107102705	1.020557744	0.052996683
49	0.054720549	1.018833878	1.097783977	1.10237701	1.019684997	0.053869429
50	0.055551993	1.018002434	1.093311915	1.097779034	1.01883296	0.054721466

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
51	0.056362961	1.017191466	1.08896404	1.093306991	1.018001517	0.05555291
52	0.057153569	1.016400858	1.084738649	1.088959136	1.01719055	0.056363877
53	0.057923934	1.015630493	1.080634075	1.084733764	1.016399942	0.057154484
54	0.058674172	1.014880255	1.076648689	1.080629208	1.015629578	0.057924848
55	0.0594044	1.014150027	1.0727809	1.07664384	1.014879341	0.058675086
56	0.060114734	1.013439692	1.069029154	1.072776069	1.014149114	0.059405313
57	0.060805292	1.012749134	1.065391932	1.06902434	1.01343878	0.060115647
58	0.06147619	1.012078237	1.061867749	1.065387134	1.012748222	0.060806204
59	0.062127544	1.011426883	1.058455155	1.061862967	1.012077325	0.061477101
60	0.062759471	1.010794955	1.055152735	1.058450389	1.011425972	0.062128455
61	0.063372088	1.010182338	1.051959102	1.055147983	1.010794045	0.062760382
62	0.063965512	1.009588915	1.048872906	1.051954365	1.010181428	0.063372998
63	0.064539858	1.009014568	1.045892825	1.048868183	1.009588006	0.063966421
64	0.065095244	1.008459182	1.043017568	1.045888115	1.00901366	0.064540767
65	0.065631787	1.00792264	1.040245875	1.043012871	1.008458274	0.065096152
66	0.066149602	1.007404825	1.037576514	1.040241191	1.007921732	0.065632694
67	0.066648807	1.00690562	1.035008281	1.037571841	1.007403918	0.066150509
68	0.067129517	1.006424909	1.032540002	1.03500362	1.006904713	0.066649713
69	0.067591851	1.005962576	1.030170528	1.032535352	1.006424003	0.067130424
70	0.068035924	1.005518503	1.027898737	1.030165889	1.00596167	0.067592757
71	0.068461853	1.005092574	1.025723535	1.027894108	1.005517597	0.06803683
72	0.068869755	1.004684672	1.023643851	1.025718916	1.005091668	0.068462758
73	0.069259746	1.004294681	1.021658641	1.023639242	1.004683767	0.06887066
74	0.069631943	1.003922484	1.019766883	1.02165404	1.004293776	0.06926065
75	0.069986462	1.003567965	1.017967581	1.019762291	1.00392158	0.069632847
76	0.070323421	1.003231006	1.016259761	1.017962997	1.003567061	0.069987366

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
77	0.070642935	1.002911492	1.014642473	1.016255185	1.003230102	0.070324324
78	0.070945122	1.002609305	1.013114786	1.014637903	1.002910588	0.070643838
79	0.071230098	1.002324329	1.011675795	1.013110224	1.002608402	0.070946025
80	0.071497979	1.002056447	1.010324613	1.011671239	1.002323426	0.071231001
81	0.071748883	1.001805543	1.009060375	1.010320063	1.002055545	0.071498882
82	0.071982926	1.0015715	1.007882237	1.009055831	1.001804641	0.071749786
83	0.072200225	1.001354202	1.006789374	1.007877699	1.001570598	0.071983828
84	0.072400895	1.001153531	1.005780979	1.00678484	1.0013533	0.072201126
85	0.072585055	1.000969372	1.004856266	1.00577645	1.00115263	0.072401797
86	0.07275282	1.000801607	1.004014466	1.004851741	1.000968471	0.072585956
87	0.072904307	1.00065012	1.00325483	1.004009945	1.000800706	0.072753721
88	0.073039632	1.000514794	1.002576624	1.003250312	1.000649219	0.072905208
89	0.073158913	1.000395513	1.001979132	1.002572109	1.000513893	0.073040533
90	0.073262266	1.00029216	1.001461656	1.00197462	1.000394612	0.073159814
91	0.073349808	1.000204619	1.001023513	1.001457146	1.00029126	0.073263167
92	0.073421655	1.000132772	1.000664037	1.001019005	1.000203718	0.073350709
93	0.073477923	1.000076503	1.000382576	1.000659531	1.000131871	0.073422555
94	0.07351873	1.000035696	1.000178494	1.000378071	1.000075603	0.073478824
95	0.073544193	1.000010234	1.000051171	1.00017399	1.000034796	0.073519631
96	0.073554427	1	1	1.000046668	1.000009333	0.073545093
97	0.073549549	1.000004878	1.000024388	0.999995497	0.999999099	0.073555327
98	0.073529676	1.00002475	1.000123758	1.000019885	1.000003977	0.07355045
99	0.073494925	1.000059501	1.000297542	1.000119254	1.00002385	0.073530577
100	0.073445413	1.000109014	1.000545189	1.000293037	1.000058601	0.073495826
101	0.073381255	1.000173172	1.00086616	1.000540684	1.000108113	0.073446313
102	0.073302568	1.000251858	1.001259926	1.000861653	1.000172271	0.073382155

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
103	0.07320947	1.000344957	1.001725973	1.001255417	1.000250957	0.073303469
104	0.073102077	1.00045235	1.002263797	1.001721462	1.000344056	0.073210371
105	0.072980505	1.000573922	1.002872906	1.002259284	1.000451449	0.073102978
106	0.072844871	1.000709556	1.003552819	1.00286839	1.000573021	0.072981406
107	0.072695291	1.000859136	1.004303065	1.0035483	1.000708655	0.072845772
108	0.072531883	1.001022544	1.005123185	1.004298543	1.000858234	0.072696192
109	0.072354763	1.001199664	1.006012729	1.005118659	1.001021642	0.072532784
110	0.072164047	1.00139038	1.006971256	1.006008198	1.001198762	0.072355664
111	0.071959853	1.001594574	1.007998338	1.006966722	1.001389478	0.072164949
112	0.071742296	1.001812131	1.009093552	1.007993798	1.001593672	0.071960755
113	0.071511494	1.002042933	1.010256486	1.009089007	1.001811229	0.071743198
114	0.071267562	1.002286864	1.011486739	1.010251937	1.002042031	0.071512396
115	0.071010619	1.002543808	1.012783914	1.011482184	1.002285962	0.071268465
116	0.070747078	1.002813647	1.014147625	1.012779353	1.002542905	0.071011522
117	0.070458161	1.003096265	1.015577493	1.014143058	1.002812744	0.070741683
118	0.07016288	1.003391546	1.017073148	1.01557292	1.003095362	0.070459065
119	0.069855054	1.003699373	1.018634225	1.017068568	1.003390643	0.070163784
120	0.069534798	1.004019628	1.020260367	1.018629638	1.003698469	0.069855958
121	0.06920223	1.004352197	1.021951226	1.020255773	1.004018724	0.069535702
122	0.068857466	1.004696961	1.023706458	1.021946624	1.004351292	0.069203134
123	0.068500622	1.005053804	1.025525726	1.023701848	1.004696056	0.06885837
124	0.068131816	1.005422611	1.027408699	1.025521108	1.005052899	0.068501527
125	0.067751164	1.005803263	1.029355053	1.027404073	1.005421705	0.068132721
126	0.067358782	1.006195644	1.031364468	1.029350418	1.005802357	0.06775207
127	0.066954788	1.006599639	1.033436631	1.031359824	1.006194738	0.067359688
128	0.066539297	1.007015129	1.035571232	1.033431977	1.006598732	0.066955694

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
129	0.066112427	1.007442	1.037767968	1.035566569	1.007014222	0.066540204
130	0.065674294	1.007880132	1.04002654	1.037763295	1.007441092	0.066113334
131	0.065225015	1.008329412	1.042346652	1.040021856	1.007879225	0.065675202
132	0.064764706	1.008789721	1.044728015	1.042341959	1.008328504	0.065225923
133	0.064293484	1.009260942	1.047170342	1.044723311	1.008788812	0.064765615
134	0.063811466	1.009742961	1.04967335	1.047165627	1.009260033	0.064294393
135	0.063318768	1.010235659	1.052236759	1.049668623	1.009742051	0.063812375
136	0.062815507	1.01073892	1.054860294	1.052232021	1.010234749	0.063319678
137	0.062301799	1.011252627	1.057543682	1.054855544	1.01073801	0.062816417
138	0.061777762	1.011776665	1.060286653	1.05753892	1.011251717	0.06230271
139	0.061243511	1.012310916	1.063088938	1.060281878	1.011775754	0.061778673
140	0.060699164	1.012855263	1.065950274	1.063084151	1.012310004	0.061244423
141	0.060144836	1.01340959	1.068870398	1.065945474	1.012854351	0.060700076
142	0.059580646	1.013973781	1.071849048	1.068865585	1.013408678	0.060145749
143	0.059006708	1.014547718	1.074885966	1.071844221	1.013972868	0.059581559
144	0.058423141	1.015131286	1.077980895	1.074881126	1.014546805	0.059007622
145	0.05783006	1.015724367	1.081133578	1.077976041	1.015130372	0.058424055
146	0.057227582	1.016326845	1.084343761	1.081128709	1.015723452	0.057830974
147	0.056615824	1.016938603	1.087611189	1.084338878	1.016325929	0.057228497
148	0.055994902	1.017559524	1.09093561	1.087606291	1.016937687	0.05661674
149	0.055364934	1.018189493	1.094316772	1.090930698	1.017558608	0.055995819
150	0.054726035	1.018828392	1.097754421	1.094311844	1.018188576	0.055365851
151	0.054078322	1.019476104	1.101248307	1.097749478	1.018827474	0.054726952
152	0.053421913	1.020132514	1.104798177	1.101243348	1.019475186	0.05407924
153	0.052756923	1.020797504	1.108403778	1.104793202	1.020131595	0.053422831
154	0.052083469	1.021470958	1.112064859	1.108398787	1.020796585	0.052757842

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
155	0.051401668	1.022152759	1.115781166	1.112059851	1.021470038	0.052084389
156	0.050711636	1.022842791	1.119552444	1.115776141	1.022151839	0.051402588
157	0.05001349	1.023540936	1.123378439	1.119547403	1.02284187	0.050712557
158	0.049307347	1.024247079	1.127258895	1.123373381	1.023540014	0.050014412
159	0.048593324	1.024961103	1.131193553	1.127253818	1.024246157	0.04930827
160	0.047871536	1.02568289	1.135182154	1.131188459	1.02496018	0.048594247
161	0.047142101	1.026412325	1.139224437	1.135177042	1.025681967	0.04787246
162	0.046405136	1.027149291	1.14332014	1.139219307	1.026411401	0.047143026
163	0.045660756	1.027893671	1.147468996	1.143314991	1.027148366	0.046406061
164	0.044909078	1.028645348	1.151670739	1.147463829	1.027892745	0.045661681
165	0.04415022	1.029404207	1.155925098	1.151665553	1.028644422	0.044910005
166	0.043384297	1.030170129	1.160231802	1.155919893	1.02940328	0.044151147
167	0.042611427	1.030943	1.164590573	1.160226577	1.030169202	0.043385225
168	0.041831726	1.031722701	1.169001133	1.164585328	1.030942071	0.042612355
169	0.04104531	1.032509117	1.173463201	1.168995869	1.031721772	0.041832655
170	0.040252297	1.03330213	1.177976491	1.173457917	1.032508187	0.04104624
171	0.039452802	1.034101625	1.182540714	1.177971187	1.033301199	0.040253227
172	0.038646943	1.034907484	1.187155578	1.182535389	1.034100693	0.039453733
173	0.037834836	1.035719591	1.191820785	1.187150232	1.034906552	0.038647875
174	0.037016598	1.036537829	1.196536035	1.191815418	1.035718658	0.037835769
175	0.036192345	1.037362082	1.201301022	1.196530647	1.036536895	0.037017531
176	0.035362194	1.038192232	1.206115437	1.201295612	1.037361147	0.036193279
177	0.034526262	1.039028165	1.210978966	1.206110006	1.038191297	0.035363129
178	0.033684665	1.039896761	1.215891289	1.210973513	1.039027229	0.034527198
179	0.03283752	1.040716906	1.220852083	1.215885814	1.039868825	0.033685602
180	0.031984944	1.041569483	1.225861017	1.220846585	1.040715969	0.032838458

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
181	0.031127053	1.042427374	1.230917758	1.225855497	1.041568545	0.031985882
182	0.030263963	1.043290464	1.236021964	1.230912215	1.042426435	0.031127991
183	0.029395792	1.044158635	1.24117329	1.236016398	1.043289524	0.030264903
184	0.028522656	1.045031771	1.246371385	1.241167701	1.044157694	0.029396732
185	0.027644672	1.045909755	1.25161589	1.246365772	1.04503083	0.028523597
186	0.026761955	1.046792472	1.256906444	1.251610254	1.045908813	0.027645613
187	0.025874623	1.047679804	1.262242678	1.256900784	1.046791529	0.026762898
188	0.024982792	1.048571635	1.267624217	1.262236994	1.04767886	0.025875566
189	0.024086577	1.04946785	1.273050679	1.267618508	1.048570691	0.024983736
190	0.023186096	1.050368331	1.278521675	1.273044946	1.049466904	0.024087522
191	0.022281464	1.051272962	1.284036811	1.278515918	1.050367385	0.023187042
192	0.021372799	1.052181628	1.289595685	1.284031029	1.051272015	0.022282411
193	0.020460216	1.053094211	1.295197886	1.289589878	1.05218068	0.021373747
194	0.019543831	1.054010596	1.300842998	1.295192054	1.053093263	0.020461164
195	0.018623761	1.054930665	1.306530596	1.30083714	1.054009646	0.01954478
196	0.017700123	1.055854304	1.312260248	1.306524712	1.054929715	0.018624711
197	0.016773031	1.056781395	1.318031514	1.312254339	1.055853353	0.017701073
198	0.015842604	1.057711823	1.323843946	1.318025579	1.056780443	0.016773983
199	0.014908957	1.05864547	1.329697087	1.323837984	1.05771087	0.015843557
200	0.013972206	1.059582221	1.335590473	1.329691099	1.058644516	0.01490991
201	0.013032468	1.060521959	1.341523631	1.335584459	1.059581267	0.01397316
202	0.012089858	1.061464568	1.347496079	1.34151759	1.060521004	0.013033423
203	0.011144494	1.062409932	1.353507328	1.347490011	1.061463612	0.012090814
204	0.010196492	1.063357935	1.359556877	1.353501233	1.062408976	0.011145451
205	0.009245967	1.06430846	1.365644219	1.359550755	1.063356977	0.010197449
206	0.008293037	1.06526139	1.371768837	1.365638069	1.064307501	0.009246926

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
207	0.007337816	1.066216611	1.377930208	1.371762659	1.065260431	0.008293996
208	0.00638042	1.067174006	1.384127801	1.377924003	1.066215651	0.007338776
209	0.005420966	1.068133461	1.390361077	1.384121568	1.067173045	0.006381381
210	0.004459567	1.06909486	1.396629486	1.390354816	1.068132499	0.005421928
211	0.00349634	1.070058087	1.402932473	1.396623197	1.069093897	0.00446053
212	0.002531399	1.071023028	1.409269468	1.402926155	1.070057123	0.003497303
213	0.001564859	1.071989567	1.415639898	1.409263122	1.071022063	0.002532363
214	0.000596836	1.072957591	1.422043177	1.415633523	1.071988602	0.001565825
215	-0.000372557	1.073926983	1.428478713	1.422036773	1.072956624	0.000597802
216	-0.001343204	1.074897631	1.434945903	1.42847228	1.073926016	-0.00037159
217	-0.002314992	1.075869419	1.441444134	1.434939441	1.074896663	-0.001342236
218	-0.003287805	1.076842232	1.447972779	1.441437643	1.07586845	-0.002314023
219	-0.004261529	1.077815956	1.454531205	1.447966259	1.076841262	-0.003286836
220	-0.00523605	1.078790476	1.461118767	1.454524655	1.077814985	-0.004260559
221	-0.006211252	1.079765679	1.467734813	1.461112188	1.078789505	-0.005235078
222	-0.007187023	1.08074145	1.474378678	1.467728203	1.079764707	-0.00621028
223	-0.008163248	1.081717675	1.481049692	1.474372039	1.080740476	-0.00718605
224	-0.009139814	1.082694241	1.487747171	1.481043022	1.081716701	-0.008162274
225	-0.010116607	1.083671034	1.494470425	1.487740472	1.082693266	-0.009138839
226	-0.011093515	1.084647941	1.501218755	1.494463695	1.083670058	-0.010115631
227	-0.012070425	1.085624852	1.507991461	1.501211995	1.084646964	-0.011092538
228	-0.013047229	1.086601656	1.514787847	1.507984671	1.085623874	-0.012069447
229	-0.014023819	1.087578245	1.521607216	1.514781026	1.086600677	-0.01304625
230	-0.015000088	1.088554514	1.528448873	1.521600364	1.087577266	-0.014022839
231	-0.015975932	1.089530359	1.535312126	1.52844199	1.088553534	-0.014999107
232	-0.01695125	1.090505677	1.54219629	1.535305213	1.089529378	-0.015974951

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
233	-0.017925942	1.091480368	1.549100676	1.542189345	1.090504695	-0.016950268
234	-0.018899907	1.092454334	1.556024604	1.549093701	1.091479385	-0.017924959
235	-0.019873052	1.093427479	1.562967398	1.556017597	1.092453335	-0.018898924
236	-0.020845284	1.094399711	1.569928406	1.56296036	1.093426494	-0.019872067
237	-0.021816515	1.095370942	1.576906991	1.569921337	1.094398725	-0.020844298
238	-0.022786661	1.096341088	1.58390253	1.57689989	1.095369955	-0.021815529
239	-0.023755642	1.097310068	1.590914429	1.583895398	1.0963401	-0.022785674
240	-0.024723381	1.098277808	1.597942105	1.590907265	1.09730908	-0.023754654
241	-0.025689806	1.099244232	1.604985	1.597934909	1.098276818	-0.024722392
242	-0.026654847	1.100209273	1.61204257	1.604977772	1.099243242	-0.025688816
243	-0.027618439	1.101172865	1.619114288	1.61203531	1.100208283	-0.026653856
244	-0.028580519	1.102134946	1.626199655	1.619106997	1.101171873	-0.027617447
245	-0.029541033	1.10309546	1.633298206	1.626192332	1.102133953	-0.028579527
246	-0.030499929	1.104054356	1.640409508	1.633290851	1.103094466	-0.029540039
247	-0.031457161	1.105011588	1.64753315	1.640402121	1.104053362	-0.030498935
248	-0.032412685	1.105967112	1.654668741	1.647525731	1.105010593	-0.031456166
249	-0.03336646	1.106920887	1.661815907	1.65466129	1.105966116	-0.032411689
250	-0.034318448	1.107872875	1.668974289	1.661808424	1.10691989	-0.033365463
251	-0.035268614	1.10882304	1.676143542	1.668966774	1.107871877	-0.034317451
252	-0.036216923	1.10977135	1.683323335	1.676135994	1.108822042	-0.035267615
253	-0.037163344	1.110717771	1.690513337	1.683315754	1.10977035	-0.036215924
254	-0.038107844	1.11166227	1.697713217	1.690505724	1.11071677	-0.037162344
255	-0.03905039	1.112604817	1.704922646	1.697705572	1.111661269	-0.038106842
256	-0.039990953	1.113545379	1.712141291	1.704914969	1.112603815	-0.039049388
257	-0.0409295	1.114483926	1.719368818	1.712133581	1.113544377	-0.03998995
258	-0.041866	1.115420427	1.726604893	1.719361075	1.114482923	-0.040928496

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
259	-0.042800424	1.11635485	1.733849183	1.726597118	1.115419422	-0.041864996
260	-0.04373274	1.117287167	1.74110135	1.733841375	1.116353845	-0.042799418
261	-0.044662919	1.118217346	1.748361053	1.741093509	1.11728616	-0.043731734
262	-0.04559093	1.119145357	1.755627948	1.74835318	1.118216339	-0.044661912
263	-0.046516743	1.12007117	1.762901688	1.755620042	1.119144349	-0.045589922
264	-0.047440327	1.120994754	1.770181921	1.762893749	1.120070161	-0.046515734
265	-0.048361653	1.12191608	1.777468293	1.770173949	1.120993744	-0.047439318
266	-0.04928069	1.122835116	1.784760447	1.777460288	1.121915069	-0.048360642
267	-0.050197408	1.123751834	1.792058026	1.78475241	1.122834105	-0.049279678
268	-0.051111777	1.124666203	1.799360669	1.792049956	1.123750822	-0.050196395
269	-0.052023768	1.125578194	1.80666801	1.799352566	1.124665191	-0.051110764
270	-0.05293335	1.126487777	1.813979684	1.806659875	1.125577181	-0.052022754
271	-0.053840495	1.127394922	1.821295319	1.813971515	1.126486762	-0.052932336
272	-0.054745173	1.128299599	1.828614542	1.821287117	1.127393906	-0.05383948
273	-0.055647353	1.129201779	1.835936977	1.828606308	1.128298583	-0.054744156
274	-0.056547006	1.130101432	1.843262243	1.83592871	1.129200762	-0.055646336
275	-0.057444103	1.130998529	1.850589956	1.843253942	1.130100415	-0.056545988
276	-0.058338613	1.13189304	1.85791973	1.850581623	1.130997511	-0.057443084
277	-0.059230508	1.132784934	1.865251173	1.857911363	1.13189202	-0.058337594
278	-0.060119757	1.133674183	1.872583893	1.865242774	1.132783914	-0.059229487
279	-0.06100633	1.134560757	1.879917491	1.87257546	1.133673162	-0.060118736
280	-0.061890199	1.135444626	1.887251568	1.879909026	1.134559735	-0.061005308
281	-0.062771333	1.13632576	1.89458572	1.88724307	1.135443603	-0.061889176
282	-0.063649703	1.13720413	1.901919541	1.894577189	1.136324736	-0.06277031
283	-0.064525279	1.138079706	1.90925262	1.901910976	1.137203105	-0.063648679
284	-0.065398032	1.138952458	1.916584544	1.909244022	1.138078681	-0.064524254

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
285	-0.066267931	1.139822358	1.923914899	1.916575914	1.138951433	-0.065397006
286	-0.067134949	1.140689375	1.931243263	1.923906235	1.139821331	-0.066266905
287	-0.067999054	1.14155348	1.938569215	1.931234567	1.140688348	-0.067133921
288	-0.068860217	1.142414643	1.945892328	1.938560485	1.141552452	-0.067998025
289	-0.069718408	1.143272835	1.953212173	1.945883566	1.142413614	-0.068859188
290	-0.070573599	1.144128026	1.960528319	1.953203378	1.143271805	-0.069717379
291	-0.07142576	1.144980186	1.967840328	1.96051949	1.144126995	-0.070572569
292	-0.07227486	1.145829286	1.975147763	1.967831467	1.144979155	-0.071424728
293	-0.07312087	1.146675297	1.982450182	1.975138869	1.145828254	-0.072273828
294	-0.073963762	1.147518188	1.989747139	1.982441255	1.146674264	-0.073119838
295	-0.074803504	1.14835793	1.997038187	1.989738179	1.147517155	-0.073962728
296	-0.075640068	1.149194494	2.004322875	1.997029194	1.148356896	-0.07480247
297	-0.076473423	1.15002785	2.011600747	2.004313849	1.149193459	-0.075639033
298	-0.077303541	1.150857968	2.018871347	2.011591688	1.150026814	-0.076472387
299	-0.078130392	1.151684819	2.026134214	2.018862256	1.150856931	-0.077302505
300	-0.078953946	1.152508373	2.033388885	2.02612509	1.151683781	-0.078129355
301	-0.079774173	1.1533286	2.040634893	2.033379728	1.152507335	-0.078952908
302	-0.080591045	1.154145471	2.04787177	2.040625704	1.153327561	-0.079773135
303	-0.081404531	1.154958957	2.055099042	2.047862548	1.154144432	-0.080590005
304	-0.082214601	1.155769028	2.062316234	2.055089788	1.154957917	-0.08140349
305	-0.083021227	1.156575654	2.069522869	2.062306948	1.155767987	-0.08221356
306	-0.083824378	1.157378805	2.076718465	2.06951355	1.156574612	-0.083020185
307	-0.084624026	1.158178452	2.083902538	2.076709113	1.157377763	-0.083823336
308	-0.08542014	1.158974566	2.091074602	2.083893154	1.158177409	-0.084622983
309	-0.08621269	1.159767117	2.098234167	2.091065186	1.158973522	-0.085419096
310	-0.087001648	1.160556075	2.10538074	2.098224718	1.159766072	-0.086211646

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
311	-0.087786984	1.16134141	2.112513828	2.10537126	1.160555029	-0.087000603
312	-0.088568667	1.162123094	2.119632931	2.112504315	1.161340364	-0.087785938
313	-0.089346669	1.162901096	2.126737549	2.119623386	1.162122047	-0.088567621
314	-0.09012096	1.163675387	2.13382718	2.126727972	1.162900049	-0.089345622
315	-0.090891511	1.164445937	2.140901318	2.133817571	1.163674339	-0.090119912
316	-0.09165829	1.165212717	2.147959454	2.140891677	1.164444888	-0.090890462
317	-0.09242127	1.165975697	2.155001077	2.147949781	1.165211668	-0.091657241
318	-0.093180421	1.166734848	2.162025674	2.154991373	1.165974647	-0.09242022
319	-0.093935712	1.167490139	2.169032729	2.162015938	1.166733797	-0.09317937
320	-0.094687115	1.168241542	2.176021724	2.169022962	1.167489088	-0.093934661
321	-0.0954346	1.168989026	2.182992138	2.176011925	1.16824049	-0.094686063
322	-0.096178136	1.169732563	2.189943447	2.182982308	1.168987973	-0.095433547
323	-0.096917696	1.170472122	2.196875126	2.189933585	1.16973151	-0.096177083
324	-0.097653248	1.171207674	2.203786647	2.196865233	1.170471068	-0.096916641
325	-0.098384763	1.17193919	2.210677481	2.203776724	1.17120662	-0.097652193
326	-0.099112213	1.172666639	2.217547093	2.210667526	1.171938135	-0.098383708
327	-0.099835566	1.173389993	2.224394951	2.217537107	1.172665583	-0.099111157
328	-0.100554795	1.174109221	2.231220516	2.224384934	1.173388936	-0.09983451
329	-0.101269868	1.174824294	2.23802325	2.231210468	1.174108164	-0.100553737
330	-0.101980756	1.175535183	2.244802612	2.238013172	1.174823236	-0.10126881
331	-0.102687431	1.176241857	2.251558059	2.244792503	1.175534124	-0.101979698
332	-0.103389862	1.176944288	2.258289045	2.25154792	1.176240798	-0.102686372
333	-0.104088019	1.177642446	2.264995024	2.258278876	1.176943228	-0.103388802
334	-0.104781873	1.17833363	2.271675447	2.264984825	1.177641385	-0.104086958
335	-0.105471395	1.179025822	2.278329762	2.271665217	1.178335239	-0.104780812
336	-0.106156555	1.179710982	2.284957417	2.278319502	1.17902476	-0.105470333

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
337	-0.106837323	1.18039175	2.291557857	2.284947127	1.179709919	-0.106155493
338	-0.10751367	1.181068096	2.298130526	2.291547538	1.180390687	-0.10683626
339	-0.108185566	1.181739992	2.304674866	2.298120177	1.181067033	-0.107512606
340	-0.108852981	1.182407408	2.311190317	2.304664488	1.181738928	-0.108184501
341	-0.109515886	1.183070313	2.317676319	2.31117991	1.182406343	-0.108851916
342	-0.110174252	1.183728679	2.324132307	2.317665882	1.183069247	-0.109514821
343	-0.110828048	1.184382475	2.330557719	2.324121841	1.183727613	-0.110173186
344	-0.111477246	1.185031673	2.336951987	2.330547224	1.184381408	-0.110826982
345	-0.112121815	1.185676242	2.343314546	2.336941464	1.185030605	-0.111476179
346	-0.112761726	1.186316153	2.349644825	2.343303993	1.185675174	-0.112120747
347	-0.11339695	1.186951376	2.355942256	2.349634245	1.186315084	-0.112760658
348	-0.114027456	1.187581883	2.362206267	2.355931647	1.186950307	-0.113395881
349	-0.114653215	1.188207642	2.368436286	2.36219563	1.187580813	-0.114026386
350	-0.115274199	1.188828625	2.374631739	2.368425621	1.188206572	-0.114652145
351	-0.115890376	1.189444802	2.380792052	2.374621046	1.188827554	-0.115273128
352	-0.116501717	1.190056144	2.386916649	2.380781331	1.189443731	-0.115889304
353	-0.117108194	1.190666262	2.393004953	2.386905901	1.190055072	-0.116500645
354	-0.117709775	1.191264202	2.399056387	2.392994177	1.190661548	-0.117107121
355	-0.118306433	1.191860859	2.405070374	2.399045584	1.191263129	-0.117708702
356	-0.118898137	1.192452564	2.411046343	2.405059544	1.191859786	-0.118305359
357	-0.11948486	1.193039287	2.416983724	2.411035485	1.19245149	-0.118897063
358	-0.120066573	1.193621	2.422881951	2.41697284	1.193038212	-0.119483786
359	-0.120643249	1.194197676	2.428740461	2.422871041	1.193619925	-0.120065498
360	-0.12121486	1.194769286	2.43455869	2.428729524	1.1941966	-0.120642174
361	-0.121781377	1.195335804	2.440336074	2.434547726	1.19476821	-0.121213784
362	-0.122342774	1.1958972	2.446072055	2.440325085	1.195334727	-0.1217803

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
363	-0.122899024	1.196453451	2.451766085	2.44606104	1.195896123	-0.122341697
364	-0.123450103	1.19700453	2.457417628	2.451755045	1.196452373	-0.122897947
365	-0.123995986	1.197550413	2.463026156	2.457406562	1.197003452	-0.123449025
366	-0.124536653	1.198091079	2.468591178	2.463015065	1.197549334	-0.123994908
367	-0.125072085	1.198626512	2.474112235	2.468580061	1.19809	-0.124535574
368	-0.12560227	1.199156696	2.479588907	2.474101094	1.198625432	-0.125071006
369	-0.126127193	1.19968162	2.485020786	2.479577741	1.199155616	-0.12560119
370	-0.126646845	1.200201271	2.490407479	2.485009596	1.199680539	-0.126126113
371	-0.127161214	1.20071564	2.495748613	2.490396265	1.20020019	-0.126645764
372	-0.127670293	1.20122472	2.501043839	2.495737374	1.200714559	-0.127160132
373	-0.128174076	1.201728503	2.50629282	2.501032576	1.201223638	-0.127669211
374	-0.128672559	1.202226985	2.511495243	2.506281534	1.201727421	-0.128172994
375	-0.129165739	1.202720165	2.516650823	2.511483933	1.202225903	-0.128671476
376	-0.129653615	1.203208042	2.521759291	2.51663949	1.202719082	-0.129164655
377	-0.130136189	1.203690616	2.526820397	2.521747936	1.203206958	-0.129652532
378	-0.130613464	1.20416789	2.531833906	2.526809018	1.203689532	-0.130135105
379	-0.131085441	1.204639868	2.536799598	2.531822504	1.204166806	-0.130612379
380	-0.131552126	1.205106552	2.541717264	2.536788175	1.204638783	-0.131084356
381	-0.132013523	1.205567949	2.546586706	2.541705818	1.205105467	-0.13155104
382	-0.132469638	1.206024065	2.551407741	2.546575239	1.205566864	-0.132012437
383	-0.132920479	1.206474905	2.556180192	2.551396251	1.206022979	-0.132468552
384	-0.133366052	1.206920478	2.560903895	2.556168682	1.206473819	-0.132919392
385	-0.133806364	1.20736079	2.565578685	2.560892363	1.206919391	-0.133364964
386	-0.134241423	1.207795849	2.570204406	2.565567132	1.207359703	-0.133805276
387	-0.134671236	1.208225663	2.574780903	2.570192832	1.207794761	-0.134240335
388	-0.135095811	1.208650238	2.579308026	2.574769308	1.208224574	-0.134670148

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
389	-0.135515157	1.209069583	2.583785629	2.579296411	1.208649149	-0.135094723
390	-0.135929279	1.209483706	2.58821357	2.583773994	1.209068494	-0.135514068
391	-0.136338188	1.209892615	2.592591713	2.588201915	1.209482617	-0.13592819
392	-0.136741891	1.210296317	2.596919927	2.592580039	1.209891525	-0.136337098
393	-0.137140396	1.210694822	2.601198084	2.596908233	1.210295227	-0.136740801
394	-0.137533712	1.211088138	2.605426061	2.60118637	1.210693732	-0.137139305
395	-0.137921847	1.211476274	2.609603738	2.605414328	1.211087048	-0.137532621
396	-0.138304811	1.211859237	2.613730996	2.609591986	1.211475183	-0.137920756
397	-0.138682611	1.212237038	2.617807722	2.613719226	1.211858146	-0.138303719
398	-0.139055256	1.212609683	2.621833804	2.617795934	1.212235946	-0.138681519
399	-0.139422755	1.212977181	2.625809132	2.621821997	1.21260859	-0.139054164
400	-0.139785115	1.213339542	2.629733601	2.625797308	1.212976089	-0.139421662
401	-0.140142346	1.213696773	2.633607108	2.629721759	1.213338449	-0.139784022
402	-0.140494456	1.214048883	2.637429553	2.633595249	1.21369568	-0.140141253
403	-0.140841454	1.21439588	2.641200838	2.637417676	1.214047789	-0.140493363
404	-0.141183347	1.214737774	2.64492087	2.641188945	1.214394787	-0.14084036
405	-0.141520145	1.215074572	2.648589556	2.644908959	1.21473668	-0.141182253
406	-0.141851857	1.215406283	2.652206808	2.648577629	1.215073478	-0.141519051
407	-0.142178489	1.215732916	2.655772541	2.652194865	1.215405188	-0.141850762
408	-0.142500052	1.216054478	2.659286672	2.655760582	1.215731821	-0.142177394
409	-0.142816553	1.216370979	2.662749122	2.659274697	1.216053383	-0.142498956
410	-0.143128001	1.216682427	2.666159812	2.662737131	1.216369884	-0.142815457
411	-0.143434404	1.216988831	2.669518669	2.666147806	1.216681332	-0.143126905
412	-0.143735772	1.217290199	2.672825623	2.669506648	1.216987735	-0.143433308
413	-0.144032112	1.217586539	2.676080604	2.672813587	1.217289102	-0.143734676
414	-0.144323433	1.21787786	2.679283546	2.676068553	1.217585442	-0.144031016

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
415	-0.144609744	1.218164171	2.682434389	2.679271481	1.217876763	-0.144322336
416	-0.144891053	1.218445479	2.685533071	2.682422309	1.218163074	-0.144608647
417	-0.145167368	1.218721794	2.688579535	2.685520977	1.218444382	-0.144889955
418	-0.145438698	1.218993125	2.691573729	2.688567428	1.218720697	-0.14516627
419	-0.145705052	1.219259478	2.6945156	2.691561608	1.218992027	-0.1454376
420	-0.145966438	1.219520864	2.6974051	2.694503466	1.21925838	-0.145703954
421	-0.146222864	1.21977729	2.700242183	2.697392953	1.219519766	-0.145965339
422	-0.146474339	1.220028766	2.703026807	2.700230024	1.219776192	-0.146221765
423	-0.146720872	1.220275299	2.705758932	2.703014635	1.220027667	-0.14647324
424	-0.146962471	1.220516897	2.708438521	2.705746748	1.2202742	-0.146719773
425	-0.147199144	1.220753571	2.711065539	2.708426324	1.220515798	-0.146961372
426	-0.147430901	1.220985327	2.713639954	2.71105333	1.220752471	-0.147198045
427	-0.147657749	1.221212175	2.716161739	2.713627734	1.220984228	-0.147429801
428	-0.147879697	1.221434123	2.718630866	2.716149507	1.221211075	-0.147656649
429	-0.148096753	1.22165118	2.721047313	2.718618624	1.221433023	-0.147878596
430	-0.148308927	1.221863353	2.72341106	2.72103506	1.221650079	-0.148095653
431	-0.148516226	1.222070652	2.725722088	2.723398796	1.221862253	-0.148307826
432	-0.148718659	1.222273085	2.727980383	2.725709814	1.222069552	-0.148515125
433	-0.148916234	1.222470661	2.730185932	2.727968098	1.222271984	-0.148717558
434	-0.149108961	1.222663387	2.732338726	2.730173638	1.22246956	-0.148915133
435	-0.149296847	1.222851274	2.734438758	2.732326422	1.222662286	-0.14910786
436	-0.149479901	1.223034328	2.736486025	2.734426445	1.222850172	-0.149295746
437	-0.149658132	1.223212559	2.738480524	2.736473702	1.223033226	-0.1494788
438	-0.149831548	1.223385974	2.740422257	2.738468192	1.223211457	-0.14965703
439	-0.150000157	1.223554584	2.742311228	2.740409916	1.223384873	-0.149830446
440	-0.150163969	1.223718395	2.744147444	2.742298879	1.223553482	-0.149990055

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
441	-0.150322991	1.223877417	2.745930914	2.744135087	1.223717293	-0.150162866
442	-0.150477232	1.224031658	2.74766165	2.745918549	1.223876315	-0.150321888
443	-0.1506267	1.224181127	2.749339668	2.747649277	1.224030556	-0.150476129
444	-0.150771405	1.224325831	2.750964983	2.749327287	1.224180024	-0.150625597
445	-0.150911354	1.22446578	2.752537616	2.750952595	1.224324729	-0.150770302
446	-0.151046556	1.224600982	2.75405759	2.752525221	1.224464677	-0.150910251
447	-0.15117702	1.224731446	2.75552493	2.754045188	1.22459988	-0.151045453
448	-0.151302753	1.22485718	2.756939663	2.755512521	1.224730343	-0.151175917
449	-0.151423766	1.224978192	2.75830182	2.756927248	1.224856077	-0.15130165
450	-0.151540065	1.225094492	2.759611434	2.758289399	1.224977089	-0.151422662
451	-0.15165166	1.225206086	2.76086854	2.759599007	1.225093388	-0.151538962
452	-0.151758559	1.225312985	2.762073176	2.760856107	1.225204983	-0.151650556
453	-0.15186077	1.225415197	2.763225383	2.762060738	1.225311882	-0.151757455
454	-0.151958303	1.22551273	2.764325203	2.763212939	1.225414093	-0.151859667
455	-0.152051165	1.225605592	2.765372683	2.764312755	1.225511626	-0.151957199
456	-0.152139365	1.225693792	2.766367871	2.765360231	1.225604488	-0.152050061
457	-0.152222912	1.225777339	2.767310817	2.766355414	1.225692688	-0.152138261
458	-0.152301814	1.22585624	2.768201574	2.767298355	1.225776235	-0.152221808
459	-0.152376079	1.225930506	2.769040198	2.768189108	1.225855136	-0.15230071
460	-0.152445717	1.226000143	2.769826746	2.769027728	1.225929402	-0.152374975
461	-0.152510735	1.226065161	2.77056128	2.769814274	1.225999039	-0.152444612
462	-0.152571142	1.226125568	2.771243862	2.770548804	1.226064057	-0.15250963
463	-0.152626946	1.226181373	2.771874557	2.771231383	1.226124464	-0.152570037
464	-0.152678157	1.226232584	2.772453434	2.771862075	1.226180269	-0.152625842
465	-0.152724782	1.226279209	2.772980562	2.772440949	1.226231479	-0.152677053
466	-0.152766831	1.226321257	2.773456013	2.772968075	1.226278105	-0.152723678

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
467	-0.152804311	1.226358737	2.773879863	2.773443524	1.226320153	-0.152765726
468	-0.152837231	1.226391657	2.774252189	2.773867372	1.226357633	-0.152803206
469	-0.152865599	1.226420026	2.774573707	2.774239696	1.226390553	-0.152836126
470	-0.152889425	1.226443851	2.774842588	2.774560576	1.226418921	-0.152864495
471	-0.152908716	1.226463143	2.775060828	2.774830093	1.226442747	-0.15288832
472	-0.152923481	1.226477908	2.775227875	2.775048331	1.226462038	-0.152907611
473	-0.152933729	1.226488156	2.77534382	2.775215378	1.226476803	-0.152922377
474	-0.152939468	1.226493895	2.775408752	2.775331322	1.226487051	-0.152932625
475	-0.152940707	1.226495133	2.775422765	2.775396254	1.22649279	-0.152938363
476	-0.152937453	1.22649188	2.775385954	2.775410267	1.226494029	-0.152939602
477	-0.152929716	1.226484143	2.775298419	2.775373456	1.226490775	-0.152936349
478	-0.152917505	1.226471931	2.775160257	2.775285921	1.226483038	-0.152928612
479	-0.152900826	1.226455253	2.774971572	2.77514776	1.226470827	-0.1529164
480	-0.15287969	1.226434117	2.774732469	2.774959076	1.226454148	-0.152899722
481	-0.152854105	1.226408531	2.774443053	2.774719974	1.226433012	-0.152878586
482	-0.152824079	1.226378505	2.774103433	2.774430559	1.226407427	-0.152853
483	-0.15278962	1.226344046	2.773713721	2.774090941	1.226377401	-0.152822974
484	-0.152750737	1.226305164	2.773274029	2.773701231	1.226342942	-0.152788515
485	-0.152707439	1.226261865	2.772784473	2.773261541	1.226304059	-0.152749633
486	-0.152659734	1.22621416	2.772245169	2.772771987	1.226260761	-0.152706334
487	-0.15260763	1.226162057	2.771656237	2.772232685	1.226213056	-0.152658629
488	-0.152551137	1.226105564	2.771017799	2.771643756	1.226160953	-0.152606526
489	-0.152490262	1.226044689	2.770329978	2.771005321	1.226104459	-0.152550033
490	-0.152425015	1.225979441	2.769592899	2.770317503	1.226043585	-0.152489158
491	-0.152355402	1.225909829	2.76880669	2.769580427	1.225978337	-0.15242391
492	-0.152281435	1.225835861	2.767971481	2.768794222	1.225908725	-0.152354298

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
493	-0.152203119	1.225757546	2.767087402	2.767959016	1.225834757	-0.15228033
494	-0.152120465	1.225674891	2.766154588	2.767074941	1.225756442	-0.152202015
495	-0.15203348	1.225587907	2.765173174	2.766142132	1.225673788	-0.152119361
496	-0.151942174	1.2254966	2.764143297	2.765160722	1.225586803	-0.152032376
497	-0.151846554	1.22540098	2.763065097	2.76413085	1.225495496	-0.15194107
498	-0.151746629	1.225301055	2.761938716	2.763052655	1.225399877	-0.15184545
499	-0.151642408	1.225196834	2.760764295	2.761926278	1.225299952	-0.151745525
500	-0.151533898	1.225088325	2.75954198	2.760751863	1.225195731	-0.151641304
501	-0.15142111	1.224975536	2.758271919	2.759529554	1.225087222	-0.151532795
502	-0.15130405	1.224858477	2.75695426	2.758259498	1.224974433	-0.151420007
503	-0.151182729	1.224737155	2.755589153	2.756941845	1.224857374	-0.151302947
504	-0.151057153	1.224611579	2.754176752	2.755576744	1.224736052	-0.151181625
505	-0.150927332	1.224481758	2.752717209	2.754164349	1.224610476	-0.15105605
506	-0.150793274	1.2243477	2.751210682	2.752704813	1.224480655	-0.150926229
507	-0.150654987	1.224209414	2.749657328	2.751198293	1.224346598	-0.150792171
508	-0.150512481	1.224066908	2.748057307	2.749644946	1.224208311	-0.150653885
509	-0.150365763	1.22392019	2.74641078	2.748044932	1.224065805	-0.150511379
510	-0.150214843	1.223769269	2.74471791	2.746398413	1.223919088	-0.150364661
511	-0.150059728	1.223614154	2.742978862	2.74470555	1.223768167	-0.150213741
512	-0.149900427	1.223454854	2.741193801	2.74296651	1.223613052	-0.150058626
513	-0.149736949	1.223291375	2.739362897	2.741181457	1.223453752	-0.149899325
514	-0.149569302	1.223123728	2.73748632	2.739350562	1.223290274	-0.149735847
515	-0.149397494	1.222951921	2.735564239	2.737473992	1.223122627	-0.1495682
516	-0.149221535	1.222775962	2.73359683	2.735551921	1.22295082	-0.149396393
517	-0.149041432	1.222595859	2.731584265	2.73358452	1.22277486	-0.149220434
518	-0.148857195	1.222411621	2.729526722	2.731571964	1.222594758	-0.149040331

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
519	-0.148668831	1.222223257	2.727424377	2.72951443	1.22241052	-0.148856094
520	-0.148476349	1.222030776	2.725277412	2.727412095	1.222222157	-0.14866773
521	-0.148279758	1.221834184	2.723086006	2.725265139	1.222029675	-0.148475248
522	-0.148079066	1.221633492	2.720850341	2.723073743	1.221833084	-0.148278657
523	-0.147874281	1.221428708	2.718570603	2.720838089	1.221632392	-0.148077966
524	-0.147665413	1.22121984	2.716246975	2.718558361	1.221427608	-0.147873181
525	-0.147452469	1.221006896	2.713879646	2.716234744	1.22121874	-0.147664313
526	-0.147235459	1.220789885	2.711468803	2.713867425	1.221005796	-0.14745137
527	-0.14701439	1.220568817	2.709014636	2.711456593	1.220788786	-0.147234359
528	-0.146789271	1.220343698	2.706517337	2.709002437	1.220567717	-0.147013291
529	-0.146560111	1.220114538	2.703977098	2.70650515	1.220342599	-0.146788172
530	-0.146326918	1.219881345	2.701394113	2.703964922	1.220113439	-0.146559012
531	-0.146089701	1.219644127	2.698768578	2.701381949	1.219880246	-0.146325819
532	-0.145848468	1.219402894	2.696100688	2.698756425	1.219643029	-0.146088602
533	-0.145603227	1.219157654	2.693390643	2.696088548	1.219401796	-0.145847369
534	-0.145353988	1.218908414	2.690638642	2.693378515	1.219156556	-0.145602129
535	-0.145100758	1.218655184	2.687844885	2.690626526	1.218907316	-0.14535289
536	-0.144843546	1.218397973	2.685009574	2.687832781	1.218654087	-0.14509966
537	-0.144582361	1.218136788	2.682132913	2.684997484	1.218396875	-0.144842449
538	-0.144317211	1.217871638	2.679215107	2.682120836	1.218135691	-0.144581264
539	-0.144048105	1.217602532	2.67625636	2.679203042	1.217870541	-0.144316115
540	-0.143775051	1.217329478	2.673256879	2.676244308	1.217601435	-0.144047009
541	-0.143498058	1.217052484	2.670216874	2.673244841	1.217328381	-0.143773955
542	-0.143217134	1.21677156	2.667136553	2.67020485	1.217051388	-0.143496962
543	-0.142932287	1.216486714	2.664016127	2.667124543	1.216770464	-0.143216038
544	-0.142643527	1.216197953	2.660855808	2.664004131	1.216485618	-0.142931191

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
545	-0.142350861	1.215905287	2.657655807	2.660843826	1.216196858	-0.142642431
546	-0.142054298	1.215608725	2.65441634	2.65764384	1.215904192	-0.142349766
547	-0.141753847	1.215308274	2.651137622	2.654404387	1.21560763	-0.142053203
548	-0.141449516	1.215003943	2.647819867	2.651125683	1.215307179	-0.141752753
549	-0.141141314	1.214695741	2.644463294	2.647807944	1.215002849	-0.141448422
550	-0.140829249	1.214383676	2.641068121	2.644451386	1.214694647	-0.14114022
551	-0.14051333	1.214067756	2.637634566	2.641056228	1.214382582	-0.140828155
552	-0.140193565	1.213747991	2.634162851	2.637622689	1.214066663	-0.140512236
553	-0.139869962	1.213424389	2.630653196	2.634150989	1.213746898	-0.140192471
554	-0.139542531	1.213096957	2.627105824	2.63064135	1.213423296	-0.139868869
555	-0.139211279	1.212765706	2.623520958	2.627093994	1.213095865	-0.139541438
556	-0.138876216	1.212430642	2.619898821	2.623509144	1.212764613	-0.139210187
557	-0.138537349	1.212091775	2.61623964	2.619887024	1.21242955	-0.138875124
558	-0.138194687	1.211749114	2.61254364	2.616227859	1.212090684	-0.138536257
559	-0.137848239	1.211402666	2.608811047	2.612531875	1.211748022	-0.138193596
560	-0.137498013	1.21105244	2.60504209	2.608799299	1.211401575	-0.137847148
561	-0.137144018	1.210698445	2.601236997	2.605030359	1.211051349	-0.137496922
562	-0.136786262	1.210340689	2.597395998	2.601225284	1.210697354	-0.137142928
563	-0.136424754	1.20997918	2.593519323	2.597384302	1.210339599	-0.136785172
564	-0.136059502	1.209613928	2.589607203	2.593507644	1.209978091	-0.136423664
565	-0.135690514	1.209244941	2.58565987	2.589595542	1.209612839	-0.136058412
566	-0.1353178	1.208872226	2.581677556	2.585648226	1.209243852	-0.135689425
567	-0.134941367	1.208495794	2.577660496	2.581665931	1.208871138	-0.135316711
568	-0.134561225	1.208115651	2.573608922	2.577648888	1.208494705	-0.134940279
569	-0.134177381	1.207731808	2.569523071	2.573597333	1.208114563	-0.134560137
570	-0.133789844	1.207344271	2.565403177	2.5695115	1.20773072	-0.134176293

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
571	-0.133398623	1.20695305	2.561249477	2.565391625	1.207343184	-0.133788757
572	-0.133003727	1.206558153	2.557062208	2.561237944	1.206951963	-0.133397536
573	-0.132605163	1.206159589	2.552841608	2.557050694	1.206557067	-0.13300264
574	-0.13220294	1.205757366	2.548587915	2.552830112	1.206158503	-0.132604076
575	-0.131797067	1.205351493	2.544301367	2.548576438	1.205756281	-0.132201854
576	-0.131387552	1.204941978	2.539982205	2.54428991	1.205350408	-0.131795981
577	-0.130974403	1.20452883	2.535630668	2.539970767	1.204940893	-0.131386467
578	-0.13055763	1.204112057	2.531246997	2.53561925	1.204527745	-0.130973319
579	-0.130137241	1.203691668	2.526831433	2.531235598	1.204110972	-0.130556546
580	-0.129713244	1.20326767	2.522384219	2.526820055	1.203690583	-0.130136157
581	-0.129285647	1.202840074	2.517905596	2.52237286	1.203266587	-0.12971216
582	-0.12885446	1.202408886	2.513395808	2.517894258	1.20283899	-0.129284564
583	-0.12841969	1.201974117	2.508855097	2.513384489	1.202407804	-0.128853377
584	-0.127981347	1.201535773	2.504283707	2.508843799	1.201973034	-0.128418608
585	-0.127539438	1.201093865	2.499681884	2.50427243	1.201534691	-0.127980265
586	-0.127093973	1.200648399	2.495049871	2.499670627	1.201092783	-0.127538356
587	-0.126644959	1.200199385	2.490387914	2.495038635	1.200647318	-0.127092891
588	-0.126192405	1.199746832	2.485696258	2.490376699	1.200198304	-0.126643878
589	-0.12573632	1.199290747	2.480975149	2.485685064	1.199745751	-0.126191325
590	-0.125276712	1.198831139	2.476224834	2.480963977	1.199289667	-0.12573524
591	-0.12481359	1.198368017	2.47144556	2.476213683	1.198830059	-0.125275633
592	-0.124346963	1.197901389	2.466637573	2.471434431	1.198366938	-0.124812511
593	-0.123876837	1.197431264	2.461801121	2.466626466	1.19790031	-0.124345884
594	-0.123403223	1.19695765	2.456936452	2.461790036	1.197430186	-0.123875759
595	-0.122926129	1.196480556	2.452043815	2.456925389	1.196956572	-0.123402145
596	-0.122445563	1.19599999	2.447123456	2.452032773	1.196479478	-0.122925052

Periode - hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
597	-0.121961534	1.195515961	2.442175625	2.447112436	1.195998913	-0.122444486
598	-0.12147405	1.195028476	2.437200571	2.442164628	1.195514884	-0.121960457
599	-0.12098312	1.194537546	2.432198544	2.437189596	1.1950274	-0.121472974
600	-0.120488751	1.194043178	2.427169791	2.432187591	1.19453647	-0.120982044
601	-0.119990954	1.19354538	2.422114564	2.427158862	1.194042103	-0.120487676
602	-0.119489736	1.193044162	2.417033112	2.422103657	1.193544306	-0.119989879
603	-0.118985105	1.192539532	2.411925685	2.417022228	1.193043088	-0.119488661
604	-0.118477071	1.192031497	2.406792533	2.411914824	1.192538458	-0.118984031
605	-0.117965641	1.191520068	2.401633906	2.406781694	1.192030424	-0.118475997
606	-0.117450825	1.191005252	2.396450055	2.401623091	1.191518995	-0.117964568
607	-0.11693263	1.190487057	2.391241231	2.396439263	1.191004179	-0.117449752
608	-0.116411066	1.189965492	2.386007684	2.391230463	1.190485985	-0.116931558
609	-0.11588614	1.189440567	2.380749665	2.385996939	1.189964421	-0.116409994
610	-0.115357862	1.188912288	2.375467425	2.380738944	1.189439496	-0.115885069
611	-0.114826239	1.188380666	2.370161215	2.375456728	1.188911218	-0.115356791
612	-0.114291281	1.187845707	2.364831286	2.370150542	1.188379595	-0.114825169
613	-0.113752995	1.187307421	2.359477889	2.364820637	1.187844637	-0.114290211
614	-0.11321139	1.186765817	2.354101275	2.359467264	1.187306352	-0.113751925
615	-0.112666475	1.186220902	2.348701696	2.3544090675	1.186764748	-0.113210321
616	-0.112118259	1.185672685	2.343279402	2.34869112	1.186219834	-0.112665407
617	-0.111566749	1.185121175	2.337834645	2.34326885	1.185671617	-0.112117191
618	-0.111011954	1.184566381	2.332367675	2.337824117	1.185120108	-0.111565681
619	-0.110453883	1.18400831	2.326878744	2.332357172	1.184565314	-0.111010887
620	-0.109892545	1.183446971	2.321368102	2.326868266	1.184007244	-0.110452817
621	-0.109327947	1.182882373	2.315836001	2.321357649	1.183445905	-0.109891479
622	-0.108760098	1.182314525	2.310282691	2.315825572	1.182881308	-0.109326881

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
623	-0.108189007	1.181743434	2.304708423	2.310272288	1.18231346	-0.108759033
624	-0.107614682	1.181169109	2.299113448	2.304698045	1.181742369	-0.108187943
625	-0.107037132	1.180591559	2.293498016	2.299103095	1.181168045	-0.107613619
626	-0.106456366	1.180010792	2.287862377	2.293487688	1.180590496	-0.107036069
627	-0.105872391	1.179426817	2.282206782	2.287852074	1.180009729	-0.106455303
628	-0.105285216	1.178839642	2.27653148	2.282196505	1.179425755	-0.105871328
629	-0.10469485	1.178249276	2.270836722	2.276521228	1.178838581	-0.105284154
630	-0.104101301	1.177655728	2.265122757	2.270826496	1.178248215	-0.104693789
631	-0.103504578	1.177059005	2.259389834	2.265112557	1.177654667	-0.10410024
632	-0.102904689	1.176459116	2.253638203	2.25937966	1.177057945	-0.103503518
633	-0.102301643	1.17585607	2.247868113	2.253628055	1.176458056	-0.10290363
634	-0.101695448	1.175249875	2.242079813	2.247857991	1.175855011	-0.102300584
635	-0.101086113	1.17464054	2.236273551	2.242069717	1.175248817	-0.10169439
636	-0.100473647	1.174028073	2.230449574	2.23626348	1.174639482	-0.101085056
637	-0.099858057	1.173412483	2.224608132	2.23043953	1.174027016	-0.100472589
638	-0.099239352	1.172793778	2.218749472	2.224598115	1.173411426	-0.099857
639	-0.098617541	1.172171967	2.212873841	2.218739481	1.172792722	-0.099238296
640	-0.097992632	1.171547059	2.206981487	2.212863877	1.172170912	-0.098616485
641	-0.097364634	1.170919061	2.201072655	2.206971549	1.171546004	-0.097991577
642	-0.096733555	1.170287982	2.195147593	2.201062744	1.170918006	-0.09736358
643	-0.096099404	1.169653831	2.189206546	2.195137708	1.170286928	-0.096732501
644	-0.09546219	1.169016616	2.18324976	2.189196688	1.169652778	-0.096098351
645	-0.09482192	1.168376346	2.17727748	2.183239929	1.169015563	-0.095461137
646	-0.094178603	1.167733303	2.171289952	2.177267676	1.168375294	-0.094820867
647	-0.093532248	1.167086675	2.165287419	2.171280174	1.167731978	-0.094177551
648	-0.092882863	1.16643729	2.159270125	2.165277668	1.167085624	-0.093531197

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
649	-0.092230458	1.165784884	2.153238315	2.159260402	1.166436239	-0.092881813
650	-0.091575039	1.165129465	2.147192232	2.153228619	1.165783834	-0.092229408
651	-0.090916616	1.164471043	2.141132118	2.147182563	1.165128416	-0.09157399
652	-0.090255197	1.163809624	2.135058215	2.141122476	1.164469994	-0.090915567
653	-0.089590792	1.163145218	2.128970766	2.135048601	1.163808576	-0.090254149
654	-0.088923407	1.162477834	2.122870012	2.128961179	1.163144171	-0.089589744
655	-0.088253052	1.161807479	2.116756193	2.122860452	1.162476787	-0.08892236
656	-0.087579736	1.161134162	2.11062955	2.116746661	1.161806432	-0.088252006
657	-0.086903466	1.160457893	2.104490323	2.110620046	1.161133117	-0.08757869
658	-0.086224252	1.159778678	2.098338751	2.104480846	1.160456847	-0.086902421
659	-0.085542101	1.159096527	2.092175074	2.098329302	1.159777634	-0.086223207
660	-0.084857022	1.158411449	2.085999528	2.092165652	1.159095483	-0.085541057
661	-0.084169025	1.157723451	2.079812352	2.085990134	1.158410406	-0.084855979
662	-0.083478116	1.157032543	2.073613784	2.079802987	1.157722409	-0.084167982
663	-0.082784306	1.156338732	2.067404059	2.073604446	1.157031501	-0.083477074
664	-0.082087602	1.155642028	2.061183413	2.067394749	1.156337691	-0.082783264
665	-0.081388012	1.154942439	2.054952083	2.061174131	1.155640987	-0.082086561
666	-0.080685546	1.154239972	2.048710302	2.054942829	1.154941398	-0.081386972
667	-0.079980211	1.153534638	2.042458305	2.048701076	1.154238933	-0.080684506
668	-0.079272017	1.152826444	2.036196325	2.042449108	1.153533599	-0.079979172
669	-0.078560972	1.152115398	2.029924596	2.036187156	1.152825406	-0.079270979
670	-0.077847084	1.15140151	2.023643349	2.029915455	1.152114361	-0.078559934
671	-0.077130362	1.150684788	2.017352817	2.023634237	1.151400473	-0.077846047
672	-0.076410814	1.14996524	2.011053229	2.017343732	1.150683752	-0.077129325
673	-0.075688448	1.149242875	2.004744817	2.011044173	1.149964204	-0.076409778
674	-0.074963274	1.148517701	1.99842781	2.00473579	1.14924184	-0.075687413

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
675	-0.0742353	1.147789727	1.992102436	1.998418811	1.148516667	-0.07496224
676	-0.073504534	1.147058961	1.985768925	1.992093466	1.147788693	-0.074234267
677	-0.072770985	1.146325412	1.979427503	1.985759983	1.147057928	-0.073503501
678	-0.072034662	1.145589088	1.973078397	1.979418589	1.14632438	-0.072769953
679	-0.071295572	1.144849998	1.966721834	1.973069512	1.145588056	-0.07203363
680	-0.070553724	1.144108151	1.960358038	1.966712977	1.144848967	-0.071294541
681	-0.069809127	1.143363554	1.953987234	1.96034921	1.14410712	-0.070552694
682	-0.06906179	1.142616216	1.947609646	1.953978435	1.143362524	-0.069808097
683	-0.06831172	1.141866147	1.941225498	1.947600876	1.142615187	-0.069060761
684	-0.067558927	1.141113353	1.93483501	1.941216756	1.141865118	-0.068310692
685	-0.066803418	1.140357844		-0.0675482		-0.0675482
686	-0.066045203	1.139599629		-0.066792811		-0.066792811
687	-0.065284289	1.138838716		-0.066034716		-0.066034716
688	-0.064520686	1.138075112		-0.065273924		-0.065273924
689	-0.063754401	1.137308828		-0.064510442		-0.064510442
690	-0.062985444	1.136539871		-0.063744279		-0.063744279
691	-0.062213823	1.13576825		-0.062975444		-0.062975444
692	-0.061439546	1.134993973		-0.062203945		-0.062203945
693	-0.060662622	1.134217049		-0.061429791		-0.061429791
694	-0.059883059	1.133437486		-0.06065299		-0.06065299
695	-0.059100866	1.132655293		-0.059873551		-0.059873551
696	-0.058316051	1.131870478		-0.059091482		-0.059091482
697	-0.057528623	1.13108305		-0.058306792		-0.058306792
698	-0.056738591	1.130293017		-0.057519489		-0.057519489
699	-0.055945962	1.129500389		-0.056729582		-0.056729582
700	-0.055150746	1.128705172		-0.055937079		-0.055937079

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
701	-0.05435295	1.127907377		-0.055141989		-0.055141989
702	-0.053552584	1.12710701		-0.05434432		-0.05434432
703	-0.052749655	1.126304082		-0.053544081		-0.053544081
704	-0.051944173	1.1254986		-0.05274128		-0.05274128
705	-0.051136146	1.124690572		-0.051935926		-0.051935926
706	-0.050325582	1.123880008		-0.051128027		-0.051128027
707	-0.04951249	1.123066916		-0.050317591		-0.050317591
708	-0.048696878	1.122251304		-0.049504628		-0.049504628
709	-0.047878755	1.121433181		-0.048689146		-0.048689146
710	-0.047058129	1.120612556		-0.047871153		-0.047871153
711	-0.046235009	1.119789436		-0.047050657		-0.047050657
712	-0.045409404	1.11896383		-0.046227668		-0.046227668
713	-0.044581321	1.118135748		-0.045402194		-0.045402194
714	-0.04375077	1.117305196		-0.044574243		-0.044574243
715	-0.042917758	1.116472185		-0.043743823		-0.043743823
716	-0.042082295	1.115636722		-0.042910944		-0.042910944
717	-0.041244389	1.114798815		-0.042075613		-0.042075613
718	-0.040404048	1.113958474		-0.04123784		-0.04123784
719	-0.039561281	1.113115707		-0.040397633		-0.040397633
720	-0.038716096	1.112270522		-0.039554999		-0.039554999
721	-0.037868502	1.111422928		-0.038709949		-0.038709949
722	-0.037018507	1.110572934		-0.037862489		-0.037862489
723	-0.03616612	1.109720547		-0.03701263		-0.03701263
724	-0.03531135	1.108865777		-0.036160378		-0.036160378
725	-0.034454204	1.108008631		-0.035305743		-0.035305743
726	-0.033594692	1.107149119		-0.034448734		-0.034448734

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
727	-0.032732822	1.106287248		-0.033589358		-0.033589358
728	-0.031868602	1.105423028		-0.032727625		-0.032727625
729	-0.031002041	1.104556467		-0.031863542		-0.031863542
730	-0.030133147	1.103687573		-0.030997118		-0.030997118
731	-0.029261929	1.102816355		-0.030128362		-0.030128362
732	-0.028388395	1.101942822		-0.029257283		-0.029257283
733	-0.027512554	1.101066981		-0.028383888		-0.028383888
734	-0.026634415	1.100188842		-0.027508186		-0.027508186
735	-0.025753985	1.099308412		-0.026630186		-0.026630186
736	-0.024871274	1.098425701		-0.025749896		-0.025749896
737	-0.02398629	1.097540716		-0.024867325		-0.024867325
738	-0.023099041	1.096653467		-0.023982481		-0.023982481
739	-0.022209536	1.095763962		-0.023095373		-0.023095373
740	-0.021317783	1.09487221		-0.022206009		-0.022206009
741	-0.020423791	1.093978218		-0.021314398		-0.021314398
742	-0.019527569	1.093081995		-0.020420548		-0.020420548
743	-0.018629124	1.092183551		-0.019524468		-0.019524468
744	-0.017728466	1.091282892		-0.018626166		-0.018626166
745	-0.016825602	1.090380029		-0.017725651		-0.017725651
746	-0.015920542	1.089474969		-0.016822931		-0.016822931
747	-0.015013294	1.088567721		-0.015918014		-0.015918014
748	-0.014103866	1.087658293		-0.01501091		-0.01501091
749	-0.013192267	1.086746694		-0.014101627		-0.014101627
750	-0.012278506	1.085832932		-0.013190173		-0.013190173
751	-0.01136259	1.084917017		-0.012276556		-0.012276556
752	-0.010444529	1.083998955		-0.011360786		-0.011360786

Per iod e per - har i	IMF8	IMF8Reverse	IMF8 Transformas i Box Cox	Hasil Peramalan IMF 8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
75 3	-0.00952433	1.083078757		-0.01044287		-0.01044287
75 4	-0.008602003	1.08215643		-0.009522818		-0.009522818
75 5	-0.007677556	1.081231983		-0.008600637		-0.008600637
75 6	-0.006750997	1.080305424		-0.007676337		-0.007676337
75 7	-0.005822335	1.079376762		-0.006749925		-0.006749925
75 8	-0.004891579	1.078446005		-0.005821411		-0.005821411
75 9	-0.003958736	1.077513163		-0.004890802		-0.004890802
76 0	-0.003023816	1.076578242		-0.003958108		-0.003958108
76 1	-0.003958108					-0.004783326
76 2	-0.00556837					-0.003958108
76 3	-0.003871128					-0.00556837
76 4	-0.005446005					-0.003871128
76 5	-0.00378606					-0.005446005
76 6	-0.005326329					-0.00378606
76 7	-0.003702861					-0.005326329
76 8	-0.005209282					-0.003702861
76 9	-0.00362149					-0.005209282
77 0	-0.005094808					-0.00362149
77 1	-0.003541907					-0.005094808
77 2	-0.004982849					-0.003541907
77 3	-0.003464073					-0.004982849
77 4	-0.00487335					-0.003464073
77 5	-0.00338795					-0.00487335
77 6	-0.004766258					-0.00338795
77 7	-0.0033135					-0.004766258
77 8	-0.004661519					-0.0033135

Periode per-hari	IMF8	IMF8Reverse	IMF8 Transformasi Box Cox	Hasil Peramalan IMF8	Detransformasi Box Cox	Detransformasi Reverse Scoring (Hasil Akhir Peramalan)
779	-0.003240686					-0.004661519
780	-0.004559082					-0.003240686
781	-0.003169472					-0.004559082
782	-0.004458896					-0.003169472
783	-0.003099823					-0.004458896
784	-0.004360911					-0.003099823
785	-0.003031704					-0.004360911
786	-0.00426508					-0.003031704
787	-0.002965082					-0.00426508
788	-0.004171355					-0.002965082
789	-0.002899924					-0.004171355
790	-0.004079689					-0.002899924
791	-0.002836198					-0.004079689

Halaman ini sengaja dikosongkan

LAMPIRAN L SELURUH PROSES RESIDUAL

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
1	1.766585	-2.649455951			
2	1.768406	-2.589620153			
3	1.77023	-2.534898693			
4	1.772056	-2.484497813	-0.005113744	0.709452134	2.529131056
5	1.773884	-2.437774294	-0.00432007886964	0.710367113	2.529719651
6	1.775715	-2.394195625	-0.00367693511174	0.711109429	2.530196712
7	1.777549	-2.353355629	-0.00314448453006	0.711724569	2.530591727
8	1.779385	-2.314942346	-0.00273835566906	0.712194128	2.530893066
9	1.781223	-2.278677138	-0.00242643043573	0.712554981	2.531124531
10	1.783064	-2.244308571	-0.00214782713192	0.712877439	2.531331285
11	1.784908	-2.211642124	-0.00189642017462	0.713168546	2.53151787
12	1.786754	-2.18052818	-0.00170192211113	0.713393838	2.531662228
13	1.788603	-2.150805893	-0.00155232393085	0.71356717	2.531773267
14	1.790454	-2.122366623	-0.00139149515587	0.713753562	2.531892646
15	1.792307	-2.095100607	-0.00128286857038	0.713879482	2.53197328
16	1.794163	-2.068897741	-0.00117311696131	0.714006728	2.532054751
17	1.796022	-2.043674715	-0.00106302734745	0.714134389	2.532136475
18	1.797883	-2.01937045	-0.00097972623484	0.714231001	2.532198315
19	1.799746	-1.995917731	-0.00091865388289	0.714301841	2.532243654
20	1.801612	-1.97324451	-0.00085144782349	0.714379803	2.532293548
21	1.803481	-1.951298002	-0.00077940739528	0.714463383	2.532347031
22	1.805352	-1.930041778	-0.00072662876258	0.714524622	2.532386215
23	1.807226	-1.909420883	-0.00069020417744	0.714566888	2.532413257
24	1.809102	-1.889406768	-0.00063525471041	0.714630655	2.532454054

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
25	1.81098	-1.869962946	-0.00060670963787	0.714663783	2.532475247
26	1.812861	-1.851046205	-0.00057022729533	0.714706125	2.532502334
27	1.814745	-1.832626892	-0.00052702022062	0.714756275	2.532534413
28	1.816631	-1.814687164	-0.00049736941037	0.714790692	2.532556428
29	1.81852	-1.797192092	-0.00047952949750	0.7148114	2.532569673
30	1.820411	-1.780127511	-0.00044460446778	0.714851943	2.532595605
31	1.822304	-1.763471433	-0.00043044133352	0.714868385	2.53260612
32	1.8242	-1.747195027	-0.00040845562575	0.714893909	2.532622445
33	1.826099	-1.731280017	-0.00037962748496	0.714927377	2.532643849
34	1.828	-1.715717506	-0.00036135492268	0.714948592	2.532657416
35	1.829904	-1.700483212	-0.00035245711972	0.714958923	2.532664023
36	1.83181	-1.685570136	-0.00032818015189	0.71498711	2.532682049
37	1.833718	-1.670964008	-0.00032117991618	0.714995238	2.532687247
38	1.835629	-1.656644071	-0.00030691248592	0.715011805	2.53269784
39	1.837543	-1.642598284	-0.00028615718939	0.715035905	2.532713251
40	1.839459	-1.628822464	-0.00027411850495	0.715049884	2.53272219
41	1.841378	-1.615298597	-0.00026993668563	0.71505474	2.532725295
42	1.843299	-1.602023549	-0.00025192248428	0.715075658	2.532738671
43	1.845223	-1.588980821	-0.00024879088212	0.715079295	2.532740996
44	1.847149	-1.576168152	-0.00023229245930	0.715098454	2.532753247
45	1.849077	-1.563576828	-0.00023003326862	0.715101078	2.532754924
46	1.851008	-1.551192259	-0.00022131846763	0.715111198	2.532761395
47	1.852942	-1.539006993	-0.00020673104499	0.715128139	2.532772227
48	1.854878	-1.527020109	-0.00019927997888	0.715136792	2.532777759
49	1.856817	-1.515218568	-0.00019835913002	0.715137861	2.532778443
50	1.858758	-1.503601963	-0.00018532171765	0.715153002	2.532788124
51	1.860702	-1.49215814	-0.00018491432672	0.715153475	2.532788426

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
52	1.862648	-1.480887125	-0.00017276206165	0.715167589	2.53279745
53	1.864596	-1.469783204	-0.00017278797145	0.715167559	2.532797431
54	1.866548	-1.458829805	-0.00016707490599	0.715174194	2.532801673
55	1.868501	-1.448038705	-0.00015050353834	0.71519344	2.532813978
56	1.870457	-1.437393905	-0.00016228118647	0.715179761	2.532805232
57	1.872416	-1.426890928	-0.00014628265115	0.715198342	2.532817112
58	1.874377	-1.41653074	-0.00014180598885	0.715203542	2.532820436
59	1.876341	-1.406303859	-0.00014277343530	0.715202418	2.532819718
60	1.878307	-1.396211477	-0.00013329113906	0.715213431	2.532826759
61	1.880276	-1.386244617	-0.00013448319335	0.715212047	2.532825873
62	1.882247	-1.376404663	-0.00012550750603	0.715222472	2.532832538
63	1.884221	-1.366683096	-0.00012689072635	0.715220865	2.532831511
64	1.886197	-1.357081462	-0.00011837369392	0.715230758	2.532837836
65	1.888176	-1.347591661	-0.00011991965405	0.715228962	2.532836688
66	1.890157	-1.338215376	-0.00011181931757	0.715238371	2.532842702
67	1.892141	-1.328944887	-0.00011350377233	0.715236414	2.532841452
68	1.894127	-1.319781997	-0.00010578326319	0.715245382	2.532847185
69	1.896115	-1.310723858	-0.00010758546879	0.715243288	2.532845846
70	1.898107	-1.301758789	-0.00010473996873	0.715246593	2.532847959
71	1.9001	-1.292897738	-0.00009305900168	0.715260161	2.532856633
72	1.902097	-1.284124907	-0.00010400622626	0.715247446	2.532848504
73	1.904095	-1.275451105	-0.00008820887691	0.715265795	2.532860234
74	1.906097	-1.266861026	-0.00009901878752	0.715253239	2.532852207
75	1.9081	-1.258365341	-0.00008371233271	0.715271018	2.532863573
76	1.910107	-1.249949201	-0.00009438320885	0.715258623	2.53285565
77	1.912115	-1.241623139	-0.00007953589037	0.715275869	2.532866675
78	1.914127	-1.233372735	-0.00009006691703	0.715263637	2.532858855

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
79	1.91614	-1.225208382	-0.00007564993242	0.715280383	2.53286956
80	1.918157	-1.217116065	-0.00008604102882	0.715268313	2.532861844
81	1.920175	-1.209106039	-0.00007202818093	0.71528459	2.532872249
82	1.922197	-1.201164667	-0.00008227986020	0.715272682	2.532864637
83	1.924221	-1.193298198	-0.00006864725569	0.715288517	2.53287476
84	1.926247	-1.185504957	-0.00007489448887	0.71528126	2.532870121
85	1.928276	-1.177779532	-0.00007321834164	0.715283207	2.532871366
86	1.930307	-1.170124217	-0.00006780868068	0.715289491	2.532875383
87	1.932341	-1.162533776	-0.00007010226558	0.715286827	2.53287368
88	1.934377	-1.155010521	-0.00006486679511	0.715292908	2.532877567
89	1.936416	-1.147549378	-0.00006717740982	0.715290224	2.532875851
90	1.938457	-1.140152671	-0.00006210499944	0.715296116	2.532879618
91	1.940501	-1.13281548	-0.00006442834248	0.715293418	2.532877893
92	1.942547	-1.125540136	-0.00005950884255	0.715299132	2.532881546
93	1.944596	-1.118321865	-0.00006184115675	0.715296423	2.532879814
94	1.946647	-1.111163004	-0.00005706529236	0.715301971	2.53288336
95	1.948701	-1.104058912	-0.00005940329509	0.715299255	2.532881624
96	1.950758	-1.097008518	-0.00005476257102	0.715304646	2.53288507
97	1.952816	-1.090017544	-0.00005369164047	0.71530589	2.532885865
98	1.954878	-1.083074743	-0.00005941352101	0.715299243	2.532881617
99	1.956942	-1.076185868	-0.00004816754379	0.715312306	2.532889967
100	1.959008	-1.069349875	-0.00005391889991	0.715305626	2.532885697
101	1.961077	-1.062562485	-0.00005287665403	0.715306836	2.532886471
102	1.963148	-1.055826034	-0.00004859704106	0.715311808	2.532889648
103	1.965222	-1.049136348	-0.00005093252209	0.715309095	2.532887914
104	1.967298	-1.042495758	-0.00004676037476	0.715313941	2.532891012
105	1.969377	-1.035900194	-0.00004909040572	0.715311234	2.532889282

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
106	1.971459	-1.029348844	-0.00004502008447	0.715315963	2.532892305
107	1.973543	-1.022844028	-0.00004420965999	0.715316904	2.532892906
108	1.975629	-1.016384901	-0.00004652816830	0.715314211	2.532891185
109	1.977718	-1.009967581	-0.00004568401834	0.715315191	2.532891812
110	1.979809	-1.003594374	-0.00004180207553	0.715319701	2.532894694
111	1.981903	-0.997261485	-0.00004410779061	0.715317022	2.532892982
112	1.984	-0.99096822	-0.00004031309578	0.71532143	2.5328958
113	1.986099	-0.984716869	-0.00003961934967	0.715322236	2.532896315
114	1.9882	-0.978506703	-0.00004190885984	0.715319577	2.532894615
115	1.990304	-0.972334091	-0.00004118108498	0.715320422	2.532895155
116	1.99241	-0.966201304	-0.00003754860963	0.715324642	2.532897853
117	1.994519	-0.960104786	-0.00003982139333	0.715322002	2.532896165
118	1.996631	-0.954043938	-0.00003626441362	0.715326134	2.532898806
119	1.998745	-0.948021014	-0.00003566587486	0.715326829	2.532899251
120	2.000861	-0.942035381	-0.00003791948250	0.715324211	2.532897577
121	2.00298	-0.936083624	-0.00003728730914	0.715324945	2.532898047
122	2.005102	-0.930165198	-0.00003387132327	0.715328914	2.532900583
123	2.007226	-0.924282329	-0.00003332670096	0.715329546	2.532900988
124	2.009352	-0.91843444	-0.00003555387896	0.715326959	2.532899334
125	2.011481	-0.912618245	-0.00003497614109	0.71532763	2.532899763
126	2.013613	-0.906833245	-0.00003168916045	0.715331448	2.532902204
127	2.015747	-0.901081641	-0.00003119210692	0.715332026	2.532902573
128	2.017883	-0.895362902	-0.00003339155134	0.715329471	2.532900939
129	2.020022	-0.88967386	-0.00003286204217	0.715330086	2.532901333
130	2.022164	-0.884014061	-0.00002969349619	0.715333767	2.532903685
131	2.024308	-0.878385674	-0.00002923856498	0.715334295	2.532904023
132	2.026454	-0.872788214	-0.00003140942381	0.715331773	2.532902411

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
133	2.028603	-0.86721862	-0.00003092279607	0.715332339	2.532902773
134	2.030755	-0.861676475	-0.00002786332143	0.715335893	2.532905045
135	2.032909	-0.856163922	-0.00002744581787	0.715336378	2.532905355
136	2.035065	-0.850680511	-0.00002958759528	0.71533389	2.532903764
137	2.037225	-0.845220763	-0.00002913922110	0.715334411	2.532904097
138	2.039386	-0.839791855	-0.00002366087471	0.715340775	2.532908165
139	2.04155	-0.834388339	-0.00003083557439	0.71533244	2.532902837
140	2.043717	-0.829009846	-0.00002538921419	0.715338767	2.532906882
141	2.045886	-0.823658474	-0.00002502040208	0.715339195	2.532907156
142	2.048057	-0.818333826	-0.00002711822288	0.715336758	2.532905598
143	2.050232	-0.813030648	-0.00002671985690	0.715337221	2.532905894
144	2.052408	-0.807755892	-0.00002146769107	0.715343322	2.532909794
145	2.054587	-0.802504335	-0.00002841963229	0.715335247	2.532904631
146	2.056769	-0.797275649	-0.00002319571388	0.715341315	2.532908511
147	2.058953	-0.792071888	-0.00002286815388	0.715341695	2.532908754
148	2.06114	-0.786890334	-0.00002492222467	0.715339309	2.532907228
149	2.063329	-0.781733026	-0.00002220413853	0.715342467	2.532909247
150	2.06552	-0.776599622	-0.00002424375998	0.715340097	2.532907732
151	2.067715	-0.771485137	-0.00002390080157	0.715340496	2.532907987
152	2.069911	-0.766396251	-0.00001891744705	0.715346285	2.532911687
153	2.07211	-0.761328003	-0.00002559527158	0.715338527	2.532906729
154	2.074312	-0.756280112	-0.00002063606726	0.715344288	2.532910411
155	2.076516	-0.751254574	-0.00002035423396	0.715344616	2.532910621
156	2.078723	-0.74624882	-0.00002235111127	0.715342296	2.532909138
157	2.080932	-0.741264832	-0.00001978100766	0.715345282	2.532911046
158	2.083144	-0.736300074	-0.00002176387171	0.715342978	2.532909574
159	2.085358	-0.731356516	-0.00001922775875	0.715345924	2.532911457

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
160	2.087575	-0.726431653	-0.00002119674171	0.715343637	2.532909995
161	2.089794	-0.721527441	-0.00001869352683	0.715346545	2.532911854
162	2.092016	-0.716641409	-0.00002064876748	0.715344274	2.532910402
163	2.09424	-0.711775498	-0.00001817740702	0.715347145	2.532912237
164	2.096467	-0.706927267	-0.00002011905094	0.715344889	2.532910795
165	2.098696	-0.702098646	-0.00001767854679	0.715347724	2.532912607
166	2.100928	-0.697287223	-0.00001960674438	0.715345484	2.532911176
167	2.103162	-0.692494913	-0.00001719614296	0.715348285	2.532912966
168	2.105399	-0.687719335	-0.00001911104849	0.71534606	2.532911544
169	2.107638	-0.68296239	-0.00001672943651	0.715348827	2.532913312
170	2.10988	-0.678221724	-0.00001863120856	0.715346617	2.5329119
171	2.112124	-0.673499227	-0.00001627771182	0.715349351	2.532913648
172	2.114371	-0.668792572	-0.00001816651118	0.715347157	2.532912245
173	2.11662	-0.664103636	-0.00001584029197	0.71534986	2.532913972
174	2.118872	-0.659430118	-0.00001771628222	0.71534768	2.532912579
175	2.121126	-0.654773881	-0.00001541653714	0.715350352	2.532914287
176	2.123383	-0.650132653	-0.00001727988395	0.715348187	2.532912903
177	2.125643	-0.64550624	-0.00001500584179	0.715350829	2.532914592
178	2.127904	-0.640898522	-0.00001481446759	0.715351051	2.532914734
179	2.130169	-0.636303185	-0.00001869212240	0.715346547	2.532911855
180	2.132436	-0.631724105	-0.00001237983466	0.71535388	2.532916542
181	2.134705	-0.627161074	-0.00001625438953	0.715349379	2.532913665
182	2.136977	-0.622611891	-0.00001604768431	0.715349619	2.532913818
183	2.139251	-0.61807837	-0.00001384643081	0.715352176	2.532915453
184	2.141528	-0.613558334	-0.00001566088069	0.715350068	2.532914106
185	2.143807	-0.609053585	-0.00001348253803	0.715352599	2.532915723
186	2.146089	-0.604561966	-0.00001528518698	0.715350504	2.532914385

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
187	2.148374	-0.600083313	-0.00001312912263	0.715353009	2.532915986
188	2.150661	-0.595619412	-0.00001296443904	0.7153532	2.532916108
189	2.15295	-0.591170077	-0.00001474956052	0.715351127	2.532914782
190	2.155242	-0.586733196	-0.00001456520411	0.715351341	2.532914919
191	2.157537	-0.582308613	-0.00001245189650	0.715353796	2.532916489
192	2.159833	-0.577900006	-0.00001229636565	0.715353977	2.532916604
193	2.162133	-0.573501453	-0.00001597493635	0.715349703	2.532913872
194	2.164435	-0.569116629	-0.00001005233591	0.715356583	2.53291827
195	2.166739	-0.564745365	-0.00001372762009	0.715352314	2.532915541
196	2.169046	-0.560385606	-0.00001355775290	0.715352511	2.532915667
197	2.171356	-0.55603721	-0.00001150438264	0.715354897	2.532917192
198	2.173668	-0.551701906	-0.00001136120555	0.715355063	2.532917298
199	2.175982	-0.547379534	-0.00001309111604	0.715353053	2.532916014
200	2.178299	-0.543068077	-0.00001292997683	0.715353241	2.532916134
201	2.180619	-0.538767399	-0.00001091399383	0.715355582	2.532917631
202	2.182941	-0.534479211	-0.00001077823548	0.71535574	2.532917731
203	2.185265	-0.530203357	-0.00001248721351	0.715353755	2.532916462
204	2.187593	-0.525936029	-0.00001233413617	0.715353933	2.532916576
205	2.189922	-0.521682586	-0.00000852419580	0.715358359	2.532919405
206	2.192254	-0.517439229	-0.00001388361169	0.715352133	2.532915425
207	2.194589	-0.51320583	-0.00001008396094	0.715356547	2.532918247
208	2.196926	-0.508984071	-0.00000995825222	0.715356693	2.53291834
209	2.199265	-0.504773807	-0.00001163703325	0.715354743	2.532917094
210	2.201607	-0.500573109	-0.00001149492763	0.715354908	2.532917199
211	2.203952	-0.496381856	-0.00000956437782	0.71535715	2.532918633
212	2.206299	-0.49220171	-0.00000944472380	0.715357289	2.532918722
213	2.208649	-0.488030761	-0.00001110415737	0.715355362	2.532917489

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
214	2.211001	-0.48387066	-0.00000919709843	0.715357577	2.532918905
215	2.213356	-0.479719516	-0.00001084708770	0.71535566	2.53291768
216	2.215713	-0.47557897	-0.00000895527729	0.715357858	2.532919085
217	2.218072	-0.471448891	-0.00001059597363	0.715355952	2.532917867
218	2.220435	-0.467325668	-0.00001046666923	0.715356102	2.532917963
219	2.222799	-0.463214418	-0.00000685533253	0.715360297	2.532920644
220	2.225166	-0.459111538	-0.00001197182790	0.715354354	2.532916845
221	2.227536	-0.455016922	-0.00000836899491	0.715358539	2.53291952
222	2.229908	-0.450932183	-0.00000826253416	0.715358663	2.532919599
223	2.232283	-0.446855487	-0.00000987624274	0.715356788	2.532918401
224	2.23466	-0.442788439	-0.00000804180927	0.715358919	2.532919763
225	2.23704	-0.438729218	-0.00000964681195	0.715357055	2.532918571
226	2.239422	-0.43467942	-0.00000782587212	0.71535917	2.532919924
227	2.241807	-0.430637238	-0.00000942231160	0.715357315	2.532918738
228	2.244194	-0.426604259	-0.00000761454414	0.715359415	2.532920081
229	2.246584	-0.422578688	-0.00000920256120	0.715357571	2.532918901
230	2.248976	-0.418562106	-0.00000740765375	0.715359656	2.532920234
231	2.251371	-0.41455273	-0.00000898738716	0.715357821	2.532919061
232	2.253768	-0.410552132	-0.00000720503656	0.715359891	2.532920385
233	2.256168	-0.406558541	-0.00000877662322	0.715358065	2.532919218
234	2.25857	-0.402573521	-0.00000700653399	0.715360122	2.532920532
235	2.260975	-0.398595314	-0.00000857010928	0.715358305	2.532919371
236	2.263382	-0.394625475	-0.00000681199426	0.715360348	2.532920677
237	2.265792	-0.390662259	-0.00000836769186	0.715358541	2.532919521
238	2.268205	-0.386705575	-0.00000662127089	0.715360569	2.532920818
239	2.27062	-0.382756969	-0.00000653203474	0.715360673	2.532920884
240	2.273037	-0.378816337	-0.00000807608829	0.715358879	2.532919738

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
241	2.275457	-0.374881957	-0.00000797451038	0.715358997	2.532919813
242	2.277879	-0.370955362	-0.00000625066908	0.715361	2.532921093
243	2.280304	-0.367034838	-0.00000778351764	0.715359219	2.532919955
244	2.282731	-0.363121911	-0.00000607057328	0.715361209	2.532921227
245	2.285161	-0.359214878	-0.00000759606149	0.715359437	2.532920094
246	2.287594	-0.355313657	-0.00000589376209	0.715361414	2.532921358
247	2.290029	-0.351419762	-0.00000581090931	0.715361511	2.53292142
248	2.292466	-0.347533099	-0.00000732552278	0.715359751	2.532920295
249	2.294906	-0.343651987	-0.00000723121072	0.715359861	2.532920365
250	2.297349	-0.339776344	-0.00000554947014	0.715361814	2.532921614
251	2.299793	-0.335909253	-0.00000546945812	0.715361907	2.532921673
252	2.302241	-0.332045881	-0.00000855013059	0.715358329	2.532919386
253	2.304691	-0.328189307	-0.00000371896892	0.715363941	2.532922973
254	2.307143	-0.324339441	-0.00000679695940	0.715360365	2.532920688
255	2.309598	-0.32049463	-0.00000670745279	0.715360469	2.532920754
256	2.312056	-0.316654799	-0.00000505480363	0.715362389	2.532921981
257	2.314516	-0.312821427	-0.00000497865856	0.715362478	2.532922038
258	2.316979	-0.308992877	-0.00000645922069	0.715360758	2.532920938
259	2.319444	-0.305170621	-0.00000482031004	0.715362662	2.532922156
260	2.321911	-0.301354576	-0.00000629441181	0.715360949	2.532921061
261	2.324381	-0.297543114	-0.00000620922059	0.715361048	2.532921124
262	2.326854	-0.293736165	-0.00000458369469	0.715362936	2.532922331
263	2.329329	-0.289935188	-0.00000451098593	0.715363021	2.532922385
264	2.331806	-0.286140102	-0.00000597250776	0.715361323	2.5329213
265	2.334287	-0.282347772	-0.00000588994364	0.715361419	2.532921361
266	2.336769	-0.278562706	-0.00000275487367	0.715365061	2.532923689
267	2.339254	-0.274781774	-0.00000726402091	0.715359823	2.532920341

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
268	2.341742	-0.271004907	-0.00000413362001	0.715363459	2.532922665
269	2.344232	-0.267233547	-0.00000406395649	0.71536354	2.532922717
270	2.346725	-0.263466108	-0.00000550743332	0.715361863	2.532921645
271	2.34922	-0.259704025	-0.00000391911929	0.715363708	2.532922825
272	2.351718	-0.25594572	-0.00000535679559	0.715362038	2.532921757
273	2.354218	-0.252192623	-0.00000377623937	0.715363874	2.532922931
274	2.35672	-0.248444658	-0.00000520822043	0.715362211	2.532921867
275	2.359226	-0.244698763	-0.00000513143944	0.7153623	2.532921924
276	2.361733	-0.240959351	-0.00000206922922	0.715365857	2.532924198
277	2.364244	-0.237221876	-0.00000648208023	0.715360731	2.532920922
278	2.366756	-0.233490734	-0.00000193727213	0.715366011	2.532924296
279	2.369272	-0.229761398	-0.00000633202604	0.715360905	2.532921033
280	2.371789	-0.226038248	-0.00000180687316	0.715366162	2.532924393
281	2.37431	-0.222316776	-0.00000618390413	0.715361077	2.532921143
282	2.376832	-0.218601342	-0.00000167796422	0.715366312	2.532924489
283	2.379358	-0.214887458	-0.00000603764090	0.715361247	2.532921252
284	2.381885	-0.211179469	-0.00000155047901	0.71536664	2.532924584
285	2.384416	-0.207472904	-0.00000589316456	0.715361415	2.532921359
286	2.386949	-0.20377063	-0.00000142435324	0.715366607	2.532924677
287	2.389484	-0.200072576	-0.00000429037172	0.715363277	2.532922549
288	2.392022	-0.196377217	-0.00000421959023	0.715363359	2.532922602
289	2.394562	-0.192685944	-0.00000269480004	0.715365131	2.532923734
290	2.397105	-0.188997237	-0.00000408485157	0.715363516	2.532922702
291	2.39965	-0.185312482	-0.00000256629095	0.71536528	2.532923829
292	2.402198	-0.181630166	-0.00000395153793	0.715363671	2.532922801
293	2.404749	-0.177950229	-0.00000243905142	0.715365428	2.532923924
294	2.407302	-0.174274049	-0.00000237851274	0.715365498	2.532923969

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
295	2.409857	-0.170601559	-0.00000375668174	0.715363897	2.532922945
296	2.412415	-0.166931257	-0.00000368890770	0.715363976	2.532922996
297	2.414975	-0.163264515	-0.00000218811363	0.715365719	2.53292411
298	2.417538	-0.159599837	-0.00000355950162	0.715364126	2.532923092
299	2.420104	-0.155937165	-0.00000206432969	0.715365863	2.532924202
300	2.422672	-0.152277864	-0.00000200527584	0.715365932	2.532924246
301	2.425242	-0.148621867	-0.00000336999701	0.715364346	2.532923232
302	2.427815	-0.14496769	-0.00000330415634	0.715364423	2.532923281
303	2.430391	-0.141315274	-0.00000181979306	0.715366147	2.532924384
304	2.432969	-0.137665977	-0.00000176159422	0.715366215	2.532924427
305	2.435549	-0.134019733	-0.00000311779497	0.715364639	2.53292342
306	2.438132	-0.130375069	-0.00000305310007	0.715364714	2.532923468
307	2.440718	-0.126731926	-0.00000157897670	0.715366427	2.532924562
308	2.443306	-0.123091653	-0.00000152152947	0.715366494	2.532924605
309	2.445897	-0.119452783	-0.00000286955747	0.715364928	2.532923604
310	2.44849	-0.11581666	-0.00000140270955	0.715366632	2.532924693
311	2.451085	-0.112183221	-0.00000274677891	0.71536507	2.532923695
312	2.453683	-0.108551006	-0.00000268359744	0.715365144	2.532923742
313	2.456284	-0.104919958	-0.00000122380171	0.71536684	2.532924826
314	2.458887	-0.101291415	-0.00000116729527	0.715366905	2.532924868
315	2.461493	-0.097663922	-0.00000250370022	0.715365353	2.532923876
316	2.464101	-0.094038812	-0.00000105057541	0.715367041	2.532924955
317	2.466712	-0.090414637	-0.00000238327209	0.715365493	2.532923965
318	2.469325	-0.086792726	-0.00000093445778	0.715367176	2.532925041
319	2.471941	-0.083171634	-0.00000226352788	0.715365632	2.532924054
320	2.474559	-0.079552687	-0.00000081889489	0.71536731	2.532925127
321	2.477179	-0.075935823	-0.00000214441930	0.71536577	2.532924143

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
322	2.479803	-0.072318226	-0.00000208324460	0.715365841	2.532924188
323	2.482428	-0.068703974	0.00000073291287	0.715369113	2.532926279
324	2.485057	-0.065088878	-0.00000334445647	0.715364376	2.532923251
325	2.487687	-0.061477006	0.00000084369681	0.715369241	2.532926361
326	2.490321	-0.057864179	-0.00000322318034	0.715364517	2.532923341
327	2.492957	-0.054253086	0.00000095419119	0.71536937	2.532926443
328	2.495595	-0.050643667	-0.00000173356067	0.715366247	2.532924448
329	2.498236	-0.047034495	-0.00000167338885	0.715366317	2.532924492
330	2.500879	-0.043426881	-0.00000024776085	0.715367974	2.532925551
331	2.503525	-0.039819401	-0.00000155674828	0.715366453	2.532924579
332	2.506173	-0.036213361	-0.00000013454969	0.715368105	2.532925635
333	2.508824	-0.032607344	-0.00000144046277	0.715366588	2.532924665
334	2.511477	-0.02900265	-0.00000002157190	0.715368236	2.532925719
335	2.514133	-0.025397866	-0.00000132448663	0.715366723	2.532924751
336	2.516792	-0.021792936	0.00000009121722	0.715368367	2.532925803
337	2.519453	-0.018189158	0.00000014608475	0.715368431	2.532925843
338	2.522116	-0.014586473	-0.00000115243779	0.715366923	2.532924879
339	2.524782	-0.010983472	-0.00000109325846	0.715366991	2.532924923
340	2.52745	-0.007381449	0.00000031642949	0.715368629	2.53292597
341	2.530121	-0.003778997	-0.00000097794124	0.715367125	2.532925009
342	2.532795	-0.000176061	0.00000042891704	0.71536876	2.532926053
343	2.535471	0.003426068	0.00000048382717	0.715368823	2.532926094
344	2.538149	0.007027449	-0.00000080648573	0.715367324	2.532925136
345	2.54083	0.010629485	-0.00000074762916	0.715367393	2.53292518
346	2.543514	0.014232229	0.00000065392163	0.715369021	2.532926221
347	2.5462	0.017834398	0.00000070896864	0.715369085	2.532926261
348	2.548888	0.021436048	-0.00000057623704	0.715367592	2.532925307

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponensial	Detransformasi Johnson
349	2.551579	0.025038578	-0.00000051748266	0.71536766	2.532925351
350	2.554273	0.028642043	0.00000087922669	0.715369283	2.532926388
351	2.556969	0.032245162	0.00000093449748	0.715369347	2.532926429
352	2.559668	0.035849328	-0.00000034588847	0.71536786	2.532925478
353	2.562369	0.039453264	0.00000104752886	0.715369478	2.532926513
354	2.565073	0.04305836	-0.00000023055365	0.715367993	2.532925564
355	2.567779	0.046663342	0.00000116078902	0.71536961	2.532926597
356	2.570487	0.050268267	-0.00000011506025	0.715368128	2.532925649
357	2.573198	0.053874525	-0.00000005624107	0.715368196	2.532925693
358	2.575912	0.057482171	0.00000133217104	0.715369809	2.532926724
359	2.578628	0.061089934	0.00000138815234	0.715369874	2.532926766
360	2.581347	0.064699199	0.00000011655928	0.715368397	2.532925821
361	2.584068	0.068308697	0.00000150236799	0.715370007	2.532926851
362	2.586792	0.071919812	0.00000023279919	0.715368532	2.532925908
363	2.589518	0.075531277	0.00000161699209	0.71537014	2.532926936
364	2.592247	0.079144473	0.00000034937906	0.715368667	2.532925994
365	2.594978	0.082758137	0.00000173207044	0.715370274	2.532927021
366	2.597712	0.086373648	0.00000046634489	0.715368803	2.532926081
367	2.600448	0.089989743	0.00000184764913	0.715370408	2.532927107
368	2.603187	0.093607802	0.00000058374347	0.715368939	2.532926168
369	2.605928	0.097226562	0.00000196377476	0.715370543	2.532927193
370	2.608672	0.100847403	0.00000070162130	0.715369076	2.532926256
371	2.611419	0.104470384	0.00000208049472	0.715370678	2.53292728
372	2.614167	0.108092925	0.00000213843559	0.715370746	2.532927323
373	2.616919	0.111719041	-0.00000043896277	0.715367751	2.532925409
374	2.619673	0.115346155	0.00000357459107	0.715372414	2.532928389
375	2.622429	0.118974328	0.00000099814929	0.715369421	2.532926476

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
376	2.625188	0.122604936	0.00000105863198	0.715369491	2.532926521
377	2.62795	0.126238038	0.00000243472122	0.71537109	2.532927543
378	2.630713	0.129871065	0.00000249388855	0.715371159	2.532927587
379	2.63348	0.133508021	-0.00000007566002	0.715368173	2.532925679
380	2.636249	0.137146337	0.00000392890656	0.715372826	2.532928652
381	2.63902	0.140786075	0.00000136025318	0.715369842	2.532926745
382	2.641794	0.14442861	0.00000142170325	0.715369913	2.532926791
383	2.644571	0.148074001	0.00000279605000	0.71537151	2.532927811
384	2.64735	0.151720999	0.00000285667026	0.71537158	2.532927856
385	2.650131	0.155369664	0.00000160557652	0.715370127	2.532926927
386	2.652915	0.159021371	0.00000166780000	0.715370199	2.532926973
387	2.655702	0.162676182	0.00000304157031	0.715371795	2.532927994
388	2.658491	0.166332848	0.00000310329125	0.715371866	2.532928039
389	2.661283	0.169992742	0.00000185451803	0.715370416	2.532927112
390	2.664077	0.173654617	0.00000322820176	0.715372012	2.532928132
391	2.666873	0.177318536	0.00000198049262	0.715370562	2.532927206
392	2.669673	0.180987184	0.00000204407794	0.715370636	2.532927253
393	2.672474	0.184656693	0.00000472787066	0.715373754	2.532929246
394	2.675278	0.188329748	0.00000086146425	0.715369262	2.532926375
395	2.678085	0.192006414	0.00000354567882	0.71537238	2.532928368
396	2.680894	0.195685445	0.00000360993627	0.715372455	2.532928416
397	2.683706	0.199368216	0.00000236503800	0.715371009	2.532927491
398	2.68652	0.203053483	0.00000373972451	0.715372606	2.532928512
399	2.689337	0.206742622	0.00000249563735	0.715371161	2.532927588
400	2.692156	0.210434388	0.00000387088099	0.715372758	2.532928609
401	2.694978	0.214130158	0.00000262754175	0.715371314	2.532927686
402	2.697802	0.217828689	0.00000400346781	0.715372912	2.532928708

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
403	2.700629	0.221531359	0.00000276081408	0.715371469	2.532927785
404	2.703458	0.225236924	0.00000413754845	0.715373068	2.532928807
405	2.70629	0.228946763	0.00000289551846	0.715371625	2.532927885
406	2.709124	0.232659634	0.00000427318842	0.715373226	2.532928908
407	2.711961	0.236376916	0.00000303171995	0.715371783	2.532927986
408	2.714801	0.240098678	0.00000441045479	0.715373385	2.53292901
409	2.717643	0.24382368	0.00000447991863	0.715373466	2.532929062
410	2.720487	0.247551991	0.00000323921338	0.715372024	2.53292814
411	2.723334	0.251284993	0.00000330891049	0.715372105	2.532928192
412	2.726183	0.255021446	0.00000469016754	0.71537371	2.532929218
413	2.729035	0.258762731	0.00000345001512	0.715372269	2.532928297
414	2.73189	0.262508923	0.00000483273290	0.715373876	2.532929324
415	2.734747	0.26625878	0.00000490507430	0.71537396	2.532929377
416	2.737606	0.270012375	0.00000366541123	0.71537252	2.532928457
417	2.740468	0.273771095	0.00000373765665	0.715372603	2.53292851
418	2.743333	0.277535013	0.00000512370444	0.715374214	2.53292954
419	2.7462	0.28130289	0.00000519815480	0.71537343	2.532929595
420	2.749069	0.285074802	0.00000395888448	0.71537286	2.532928675
421	2.751941	0.288852136	0.00000403301908	0.715372947	2.53292873
422	2.754816	0.292634971	0.00000542295422	0.715374561	2.532929762
423	2.757693	0.296422067	0.00000549967771	0.71537465	2.532929819
424	2.760573	0.300214818	0.00000426056028	0.715373211	2.532928899
425	2.763455	0.304011984	0.00000565382633	0.71537483	2.532929933
426	2.766339	0.307813642	0.00000441469670	0.71537339	2.532929013
427	2.769226	0.31162119	0.00000449197383	0.71537348	2.532929071
428	2.772116	0.315434707	0.00000588882417	0.715375103	2.532930108
429	2.775008	0.319252956	0.00000596928653	0.715375196	2.532930168

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
430	2.777903	0.323077336	0.00000472995602	0.715373756	2.532929247
431	2.7808	0.326906607	0.00000613080919	0.715375384	2.532930287
432	2.7837	0.330742175	0.00000489129060	0.715373944	2.532929367
433	2.786602	0.334582798	0.00000629497954	0.715375574	2.532930409
434	2.789507	0.338429883	0.00000505521548	0.715374134	2.532929489
435	2.792414	0.342282192	0.00000646189818	0.715375768	2.532930533
436	2.795324	0.346141132	0.00000522183085	0.715374328	2.532929613
437	2.798236	0.350005465	0.00000663166838	0.715375965	2.532930659
438	2.801151	0.353876603	0.00000539124130	0.715374524	2.532929738
439	2.804068	0.357753305	0.00000680439784	0.715376166	2.532930788
440	2.806988	0.361636987	0.00000556355400	0.715374725	2.532929866
441	2.809911	0.365527742	0.00000698019754	0.71537637	2.532930918
442	2.812835	0.369422992	0.00000707034538	0.715376475	2.532930985
443	2.815763	0.373326827	0.00000449625353	0.715373485	2.532929074
444	2.818693	0.377236671	0.00000858248974	0.715378232	2.532932108
445	2.821625	0.381152615	0.00000600893963	0.715375242	2.532930197
446	2.82456	0.385076086	0.00000609907357	0.715375347	2.532930264
447	2.827498	0.389007182	0.00000752721917	0.715377006	2.532931324
448	2.830438	0.392944657	0.00000762264100	0.715377117	2.532931395
449	2.83338	0.396888606	0.00000637928176	0.715375672	2.532930472
450	2.836325	0.400840465	0.00000647276771	0.715375781	2.532930541
451	2.839273	0.404800335	0.00000790948922	0.71537745	2.532931608
452	2.842223	0.408766968	0.00000800875731	0.715377565	2.532931682
453	2.845175	0.412740464	0.00000676391104	0.715376119	2.532930758
454	2.84813	0.416722267	0.00000686101577	0.715376232	2.53293083
455	2.851088	0.420712482	0.00000830707889	0.715377912	2.532931904
456	2.854048	0.424709862	0.00000841048240	0.715378032	2.53293198

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
457	2.857011	0.428715861	0.00000716394092	0.715376584	2.532931055
458	2.859976	0.43272923	0.00000861758457	0.715378273	2.532932134
459	2.862943	0.436750073	0.00000737011980	0.715376823	2.532931208
460	2.865913	0.440779853	0.00000747320024	0.715376943	2.532931284
461	2.868886	0.444818678	0.00000893479696	0.715378641	2.53293237
462	2.871861	0.4488653	0.00000904499668	0.715378769	2.532932451
463	2.874839	0.452921188	0.00000779553824	0.715377318	2.532931524
464	2.877819	0.456985093	0.00000926567648	0.715379026	2.532932615
465	2.880802	0.46105849	0.00000801514986	0.715377573	2.532931687
466	2.883787	0.465140127	0.00000949123111	0.715379288	2.532932783
467	2.886775	0.469231488	0.00000823958992	0.715377833	2.532931853
468	2.889765	0.473331318	0.00000972184665	0.715379555	2.532932954
469	2.892758	0.477441107	0.00000846904640	0.7153781	2.532932024
470	2.895753	0.481559602	0.00000995771768	0.715379829	2.532933129
471	2.898751	0.485688296	0.00000870371508	0.715378373	2.532932198
472	2.901752	0.489827315	0.00001019904708	0.71538011	2.532933308
473	2.904755	0.493975404	0.00001032389740	0.715380255	2.532933401
474	2.90776	0.498132683	0.00000906806940	0.715378796	2.532932469
475	2.910768	0.502300662	0.00000918955281	0.715378937	2.532932559
476	2.913778	0.506478084	0.00001069897628	0.715380691	2.53293368
477	2.916791	0.510666465	0.00000944112122	0.715379229	2.532932746
478	2.919807	0.514865939	0.00001095798983	0.715380992	2.532933872
479	2.922825	0.519075247	0.00001109217256	0.715381147	2.532933972
480	2.925845	0.523294518	0.00000983232463	0.715379684	2.532933036
481	2.928868	0.527525287	0.00000996279789	0.715379835	2.532933133
482	2.931894	0.531767693	0.00001149540138	0.715381616	2.532934271
483	2.934922	0.536020474	0.00001163642971	0.71538178	2.532934376

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
484	2.937952	0.540283767	0.00001037373132	0.715380313	2.532933438
485	2.940985	0.544559122	0.00001051082411	0.715380472	2.532933354
486	2.944021	0.548846687	0.00001206034863	0.715382272	2.532934691
487	2.947059	0.553145197	0.00001220877701	0.715382445	2.532934801
488	2.9501	0.557456214	0.00001094311385	0.715380974	2.532933861
489	2.953143	0.561778472	0.00001250622310	0.71538279	2.532935022
490	2.956188	0.566112118	0.00001123904122	0.715381318	2.532934081
491	2.959237	0.570460157	0.00001138712544	0.71538149	2.532934191
492	2.962287	0.574818468	0.00001439176823	0.715384981	2.532936422
493	2.965341	0.579191496	0.00001027046390	0.715380193	2.532933361
494	2.968396	0.583575107	0.00001471540589	0.715385357	2.532936662
495	2.971454	0.587972327	0.00001058084539	0.715380553	2.532933592
496	2.974515	0.592383328	0.00001360867739	0.715384071	2.53293584
497	2.977579	0.59680828	0.00001377840160	0.715384268	2.532935966
498	2.980644	0.601244462	0.00001395057782	0.715384468	2.532936094
499	2.983713	0.605696387	0.00001122763204	0.715381305	2.532934072
500	2.986783	0.610159878	0.00001574149874	0.715386549	2.532937424
501	2.989857	0.614639474	0.00001156478963	0.715381696	2.532934323
502	2.992933	0.619132446	0.00001610322857	0.715386969	2.532937693
503	2.996011	0.62363897	0.00001337385953	0.715383798	2.532935666
504	2.999092	0.628160697	0.00001355110767	0.715384004	2.532935798
505	3.002175	0.632696345	0.00001520008275	0.71538592	2.532937022
506	3.005261	0.637247577	0.00001392036583	0.715384433	2.532936072
507	3.00835	0.641814591	0.00001558192895	0.715386363	2.532937306
508	3.011441	0.646396106	0.00001578082817	0.715386594	2.532937453
509	3.014534	0.650992316	0.00001449888691	0.715385105	2.532936501
510	3.01763	0.655604907	0.00001469255924	0.71538533	2.532936645

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
511	3.020729	0.660234093	0.00001638072527	0.715387291	2.532937899
512	3.023383	0.664878588	0.00001659201866	0.715387537	2.532938056
513	3.026933	0.669538598	0.00001530710154	0.715386044	2.532937102
514	3.030039	0.674215839	0.00001551300075	0.715386283	2.532937254
515	3.033148	0.678910537	0.00001722980576	0.715388278	2.532938529
516	3.036259	0.683621404	0.00001745463167	0.715388539	2.532938696
517	3.039373	0.68835018	0.00001616691118	0.715387043	2.53293774
518	3.042489	0.693095575	0.00001790673932	0.715389064	2.532939032
519	3.045608	0.697859346	0.00001661770378	0.715387567	2.532938075
520	3.048729	0.702640202	0.00001837355306	0.715389607	2.532939379
521	3.051853	0.707439917	0.00001708327426	0.715388108	2.53293842
522	3.054979	0.712257197	0.00001885576361	0.715390167	2.532939737
523	3.058107	0.717092286	0.00001756432425	0.715388666	2.532938778
524	3.061239	0.721948535	0.00001780615859	0.715388947	2.532938957
525	3.064372	0.726821549	0.00002115748366	0.715392841	2.532941446
526	3.067509	0.731716257	0.00001676374313	0.715387736	2.532938183
527	3.070648	0.736629812	0.00002169118994	0.715393461	2.532941842
528	3.073789	0.741562477	0.00001884464790	0.715390154	2.532939728
529	3.076933	0.746516099	0.00001910800595	0.71539046	2.532939924
530	3.080079	0.751489381	0.00002095385529	0.715392604	2.532941295
531	3.083228	0.756484191	0.00001965886223	0.7153911	2.532940333
532	3.086379	0.761499233	0.00002152492073	0.715393268	2.532941719
533	3.089533	0.766536394	0.00002022938764	0.715391763	2.532940757
534	3.09269	0.771595983	0.00002211647880	0.715393955	2.532942158
535	3.095849	0.776676705	0.00002242587340	0.715394314	2.532942388
536	3.09901	0.781778863	0.00002112999665	0.715392809	2.532941425
537	3.102174	0.786904389	0.00002143359213	0.715393162	2.532941651

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
538	3.105341	0.792053615	0.00002336539689	0.715395406	2.532943085
539	3.10851	0.797225247	0.00002369809219	0.715395792	2.532943332
540	3.111681	0.802419611	0.00002240232613	0.715394287	2.53294237
541	3.114855	0.807638687	0.00002272931709	0.715394667	2.532942613
542	3.118032	0.812882834	0.00002470968143	0.715396968	2.532944084
543	3.121211	0.818150758	0.00002506817873	0.715397384	2.53294435
544	3.124393	0.823444478	0.00002377354744	0.71539588	2.532943389
545	3.127577	0.8287627	0.00002579327231	0.715398226	2.532944888
546	3.130764	0.834107472	0.00002449966399	0.715396724	2.532943928
547	3.133953	0.839477502	0.00002654697126	0.715399102	2.532945448
548	3.137144	0.844873172	0.00002525473409	0.715397601	2.532944488
549	3.140339	0.850298274	0.00002563661878	0.715398044	2.532944772
550	3.143535	0.855748122	0.00002942883850	0.71540245	2.532947588
551	3.146735	0.86122825	0.00002474371308	0.715397007	2.532944109
552	3.149936	0.866733944	0.00003027561305	0.715403434	2.532948217
553	3.153141	0.8722708	0.00002556381153	0.71539796	2.532944718
554	3.156348	0.877835816	0.00003115749184	0.715404458	2.532948872
555	3.159557	0.883429434	0.00002815749820	0.715400973	2.532946644
556	3.162769	0.88905386	0.00002859857143	0.715401486	2.532946971
557	3.165983	0.894707814	0.00003080376838	0.715404048	2.532948609
558	3.1692	0.900393538	0.00002952502074	0.715402562	2.532947659
559	3.172419	0.906109757	0.00003176638569	0.715405166	2.532949324
560	3.175641	0.911858752	0.00003049200675	0.715403685	2.532948377
561	3.178866	0.91764105	0.00003277130070	0.715406333	2.53295007
562	3.182093	0.923455384	0.00003329911926	0.715406947	2.532950462
563	3.185322	0.92930228	0.00003203284378	0.715405475	2.532949522
564	3.188554	0.935184098	0.00003255775578	0.715406085	2.532949911

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
565	3.191789	0.941101416	0.00003491867276	0.715408828	2.532951665
566	3.195026	0.947052981	0.00003549550483	0.715409498	2.532952093
567	3.198265	0.953039367	0.00003424262739	0.715408043	2.532951163
568	3.201507	0.959063027	0.00003481770697	0.715408711	2.53295159
569	3.204752	0.965124592	0.00003726882339	0.715411558	2.53295341
570	3.207999	0.971222827	0.00003790106333	0.715412293	2.532953879
571	3.211249	0.977360257	0.00003666552018	0.715410858	2.532952962
572	3.214501	0.983535657	0.00003919093628	0.715413792	2.532954837
573	3.217756	0.989751607	0.00003796579992	0.715412368	2.532953927
574	3.221013	0.996006891	0.00004054395080	0.715415364	2.532955842
575	3.224273	1.002304144	0.00003933054428	0.715413954	2.532954941
576	3.227535	1.008642167	0.00004196436210	0.715417014	2.532956897
577	3.2308	1.015023651	0.00004076414795	0.715415619	2.532956005
578	3.234067	1.021447411	0.00004345678884	0.715418748	2.532958005
579	3.237337	1.027916203	0.00004227138508	0.71541737	2.532957125
580	3.240609	1.034428858	0.00004502625155	0.715420571	2.53295917
581	3.243884	1.040988196	0.00004385744996	0.715419213	2.532958302
582	3.247161	1.047593068	0.00004667821479	0.71542249	2.532960397
583	3.250441	1.054246363	0.00004552800104	0.715421154	2.532959543
584	3.253723	1.060946954	0.00004841863616	0.715424512	2.532961689
585	3.257008	1.067697804	0.00004728921240	0.7154232	2.532960851
586	3.260296	1.074499883	0.00005025401941	0.715426645	2.532963052
587	3.263586	1.081352099	0.00005122329076	0.715427771	2.532963772
588	3.266878	1.088255432	0.00005013013609	0.715426501	2.53296296
589	3.270173	1.09521301	0.00005111152682	0.715427641	2.532963689
590	3.273471	1.102225916	0.00005423909636	0.715431275	2.532966012
591	3.276771	1.109293115	0.00005532153367	0.715432532	2.532966815

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
592	3.280073	1.116415707	0.00005428647296	0.71543133	2.532966047
593	3.283378	1.123597004	0.00005538625896	0.715432607	2.532966863
594	3.286686	1.130838221	0.00005869873624	0.715436456	2.532969323
595	3.289996	1.138138395	0.00005991287047	0.715437867	2.532970225
596	3.293309	1.145500995	0.00005895019476	0.715436748	2.53296951
597	3.296624	1.152925102	0.00006241895101	0.715440778	2.532972086
598	3.299942	1.160414296	0.00006149890336	0.715439709	2.532971403
599	3.303262	1.167967707	0.00006508082997	0.715443871	2.532974062
600	3.306585	1.175589037	0.00006420838810	0.715442857	2.532973415
601	3.30991	1.183277467	0.00006791178742	0.71544716	2.532976165
602	3.313238	1.191036833	0.00006709253487	0.715446208	2.532975556
603	3.316568	1.198866373	0.00007092654974	0.715450663	2.532978403
604	3.319901	1.206770063	0.00007016676009	0.71544978	2.532977839
605	3.323236	1.21474721	0.00007414148054	0.715454398	2.532980791
606	3.326574	1.222801941	0.00007344821677	0.715453593	2.532980276
607	3.329914	1.230933637	0.00007757480629	0.715458387	2.53298334
608	3.333257	1.239146589	0.00007695603439	0.715457668	2.532982881
609	3.336602	1.247440262	0.00008124687495	0.715462653	2.532986067
610	3.33995	1.255819125	0.00008071160026	0.715462032	2.53298567
611	3.343301	1.264285276	0.00008518046097	0.715467224	2.532988988
612	3.346654	1.272838324	0.00008727714331	0.71546966	2.532990545
613	3.350009	1.281480448	0.00008688757441	0.715469207	2.532990256
614	3.353367	1.290216522	0.00008906545682	0.715471738	2.532991873
615	3.356728	1.299048967	0.00009393827167	0.715477399	2.532995492
616	3.360091	1.307977634	0.00009636147812	0.715480215	2.532997291
617	3.363456	1.317005052	0.00009620947296	0.715480038	2.532997178
618	3.366825	1.326139301	0.00009873953202	0.715482978	2.532999057

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
619	3.370195	1.335375026	0.00010681915140	0.715492366	2.533005057
620	3.373568	1.344720555	0.00010146439557	0.715486144	2.53300108
621	3.376944	1.354178943	0.00010979111579	0.715495819	2.533007264
622	3.380322	1.36375052	0.00011284523854	0.715499368	2.533009532
623	3.383703	1.373441388	0.00011317719572	0.715499753	2.533009778
624	3.387086	1.383252083	0.00011927588684	0.71550684	2.533014307
625	3.390472	1.393189059	0.00011981396561	0.715507465	2.533014707
626	3.39386	1.403253087	0.00012626545250	0.715514961	2.533019498
627	3.397251	1.413451011	0.00012703799706	0.715515859	2.533020071
628	3.400644	1.423783872	0.00013388082054	0.71552381	2.533025153
629	3.40404	1.434258949	0.00013492075909	0.715525018	2.533025925
630	3.407438	1.444877587	0.00014219919013	0.715533476	2.53303133
631	3.410839	1.455647553	0.00014354492789	0.715535039	2.533032329
632	3.414243	1.466573775	0.00015131004586	0.715544062	2.533038096
633	3.417649	1.477658147	0.00015623802601	0.715549789	2.533041755
634	3.421057	1.488905957	0.00015813139564	0.715551989	2.533043161
635	3.424468	1.500326132	0.00016341932252	0.715558134	2.533047088
636	3.427881	1.51192124	0.00017234532370	0.715568506	2.533053716
637	3.431297	1.523700902	0.00017491183353	0.715571488	2.533055622
638	3.434716	1.535671755	0.00018453354190	0.715582669	2.533062767
639	3.438137	1.547837212	0.00019116854359	0.71559038	2.533067695
640	3.441561	1.560208126	0.00019458109876	0.715594345	2.533070229
641	3.444987	1.572788591	0.00020543340635	0.715606957	2.533078288
642	3.448415	1.585586664	0.00020952656785	0.715611713	2.533081328
643	3.451846	1.598614702	0.00021758294123	0.715621076	2.53308731
644	3.45528	1.61188194	0.00022993783149	0.715635434	2.533096485
645	3.458716	1.62539421	0.00023917251696	0.715646166	2.533103343

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
646	3.462155	1.639165744	0.00024500364782	0.715652943	2.533107673
647	3.465596	1.653203488	0.00025923393589	0.715669481	2.533118241
648	3.46904	1.667523184	0.00026617918069	0.715677553	2.533123399
649	3.472486	1.682133106	0.00028191921359	0.715695847	2.533135088
650	3.475935	1.697050772	0.00029019276728	0.715705463	2.533141232
651	3.479386	1.712286049	0.00030770729030	0.71572582	2.533154239
652	3.48284	1.727858557	0.00031757518241	0.715737289	2.533161567
653	3.486296	1.743780093	0.00033719162496	0.71576009	2.533176135
654	3.489755	1.760072787	0.00034898731610	0.715773801	2.533184895
655	3.493217	1.776755661	0.00037111470733	0.715799522	2.533201328
656	3.496681	1.79384424	0.00039013486257	0.715821631	2.533215453
657	3.500147	1.811360327	0.00040565821501	0.715839677	2.533226981
658	3.503616	1.829332768	0.00042745802245	0.715865019	2.533243171
659	3.507087	1.847782194	0.00045630138938	0.715898551	2.533264592
660	3.510561	1.866741995	0.00047692940277	0.715922533	2.533279911
661	3.514038	1.886243001	0.00051031612126	0.71596135	2.533304707
662	3.517517	1.906313063	0.00054114234904	0.715997192	2.533327601
663	3.520999	1.926994624	0.00056898936296	0.716029572	2.533348282
664	3.524483	1.948322047	0.00061142860776	0.716078921	2.533379801
665	3.527969	1.970339478	0.00064578721210	0.716118877	2.533405319
666	3.531458	1.993102366	0.00068992681722	0.716170211	2.533438102
667	3.53495	2.016665582	0.00074537153520	0.716234697	2.533479281
668	3.538444	2.041083161	0.00080023544257	0.716298513	2.53352003
669	3.541941	2.066430103	0.00085426354930	0.716361363	2.533560159
670	3.54544	2.092775561	0.00092925417402	0.716448607	2.533615858
671	3.548942	2.120213338	0.00099840173806	0.716529063	2.533667218
672	3.552446	2.148833473	0.00109219107081	0.716638205	2.533736883

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
673	3.555953	2.178755837	0.00118222117282	0.716742988	2.533803757
674	3.559462	2.210100114	0.00130207839451	0.716882509	2.533892789
675	3.562974	2.243023445	0.00142174741284	0.717021838	2.533981684
676	3.566489	2.277699104	0.00157887070764	0.717204817	2.534098406
677	3.570006	2.314319821	0.00175212572979	0.717406635	2.534227118
678	3.573525	2.353124664	0.00194483109678	0.717631177	2.534370286
679	3.577047	2.394411745	0.00218387408677	0.71790981	2.534547891
680	3.580571	2.438516756	0.00248194860299	0.718257403	2.534769371
681	3.584098	2.485878326	0.00281760390180	0.718649021	2.535018795
682	3.587628	2.537028425	0.00325618119966	0.719161043	2.535344735
683	3.59116	2.592624557	0.00378808873204	0.719782514	2.535740085
684	3.594694	2.653533228	0.00444551799221	0.720551384	2.536228809
685	3.598231		3.59822961573033		3.598229616
686	3.601771		3.60176653675290		3.601766537
687	3.605313		3.60530451227561		3.605304512
688	3.608858		3.60884333969224		3.60884334
689	3.612405		3.61238285532430		3.612382855
690	3.615955		3.61592292694162		3.615922927
691	3.619507		3.61946344772007		3.619463448
692	3.623062		3.62300433136015		3.623004331
693	3.626619		3.62654550814350		3.626545508
694	3.630179		3.63008692174708		3.630086922
695	3.633741		3.63362852666948		3.633628527
696	3.637306		3.63717028615169		3.637170286
697	3.640873		3.64071217049738		3.64071217
698	3.644443		3.64425415571593		3.644254156
699	3.648015		3.64779622242616		3.647796222

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
700	3.65159		3.65133835497066		3.651338355
701	3.655168		3.65488054070038		3.654880541
702	3.658748		3.65842276939659		3.658422769
703	3.66233		3.66196503280393		3.661965033
704	3.665915		3.66550732425318		3.665507324
705	3.669503		3.66904963835652		3.669049638
706	3.673093		3.67259197076130		3.672591971
707	3.676685		3.67613431795118		3.676134318
708	3.680281		3.67967667708543		3.679676677
709	3.683878		3.68321904586912		3.683219046
710	3.687478		3.68676142244825		3.686761422
711	3.691081		3.69030380532505		3.690303805
712	3.694686		3.69384619328952		3.693846193
713	3.698294		3.69738858536413		3.697388585
714	3.701904		3.70093098075919		3.700930981
715	3.705517		3.70447337883673		3.704473379
716	3.709132		3.70801577908134		3.708015779
717	3.71275		3.71155818107665		3.711558181
718	3.716371		3.71510058448630		3.715100584
719	3.719993		3.71864298903854		3.718642989
720	3.723619		3.72218539451384		3.722185395
721	3.727247		3.72572780073485		3.725727801
722	3.730877		3.72927020755829		3.729270208
723	3.73451		3.73281261486841		3.732812615
724	3.738146		3.73635502257171		3.736355023
725	3.741784		3.73989743059264		3.739897431
726	3.745424		3.74343983887017		3.743439839

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Ekspansional	Detransformasi Johnson
727	3.749067		3.74698224735500		3.746982247
728	3.752713		3.75052465600731		3.750524656
729	3.756361		3.75406706479491		3.754067065
730	3.760012		3.75760947369181		3.757609474
731	3.763665		3.76115188267701		3.761151883
732	3.767321		3.76469429173354		3.764694292
733	3.770979		3.76823670084770		3.768236701
734	3.774639		3.77177911000841		3.77177911
735	3.778303		3.77532151920674		3.775321519
736	3.781969		3.77886392843545		3.778863928
737	3.785637		3.78240633768871		3.782406338
738	3.789308		3.78594874696180		3.785948747
739	3.792981		3.78949115625091		3.789491156
740	3.796657		3.79303356555296		3.793033566
741	3.800335		3.79657597486546		3.796575975
742	3.804016		3.80011838418642		3.800118384
743	3.8077		3.80366079351419		3.803660794
744	3.811386		3.80720320284748		3.807203203
745	3.815074		3.81074561218523		3.810745612
746	3.818765		3.81428802152657		3.814288022
747	3.822459		3.81783043087081		3.817830431
748	3.826155		3.82137284021741		3.82137284
749	3.829854		3.82491524956590		3.82491525
750	3.833555		3.82845765891593		3.828457659
751	3.837258		3.83200006826719		3.832000068
752	3.840965		3.83554247761945		3.835542478
753	3.844673		3.83908488697253		3.839084887

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponansial	Detransformasi Johnson
754	3.848385		3.84262729632625		3.842627296
755	3.852098		3.84616970568050		3.846169706
756	3.855815		3.84971211503518		3.849712115
757	3.859533		3.85325452439020		3.853254524
758	3.863255		3.85679693374550		3.856796934
759	3.866979		3.86033934310103		3.860339343
760	3.870705		3.86388175245673		3.863881752
761	3.863881752		3.867424162		3.867424162
762	3.867424162		3.870966571		3.870966571
763	3.870966571		3.874508981		3.874508981
764	3.874508981		3.87805139		3.87805139
765	3.87805139		3.881593799		3.881593799
766	3.881593799		3.885136209		3.885136209
767	3.885136209		3.888678618		3.888678618
768	3.888678618		3.892221027		3.892221027
769	3.892221027		3.895763437		3.895763437
770	3.895763437		3.899305846		3.899305846
771	3.899305846		3.902848255		3.902848255
772	3.902848255		3.906390665		3.906390665
773	3.906390665		3.909933074		3.909933074
774	3.909933074		3.913475483		3.913475483
775	3.913475483		3.917017893		3.917017893
776	3.917017893		3.920560302		3.920560302
777	3.920560302		3.924102712		3.924102712
778	3.924102712		3.927645121		3.927645121
779	3.927645121		3.93118753		3.93118753
780	3.93118753		3.93472994		3.93472994

Periode per-hari	Residual	Transformasi Johnson Residual	Hasil Peramalan Residual	Hasil Eksponensial	Detransformasi Johnson
781	3.934729 94		3.938272349		3.938272349
782	3.938272 349		3.941814758		3.941814758
783	3.941814 758		3.945357168		3.945357168
784	3.945357 168		3.948899577		3.948899577
785	3.948899 577		3.952441986		3.952441986
786	3.952441 986		3.955984396		3.955984396
787	3.955984 396		3.959526805		3.959526805
788	3.959526 805		3.963069214		3.963069214
789	3.963069 214		3.966611624		3.966611624
790	3.966611 624		3.970154033		3.970154033
791	3.970154 033		3.973696442		3.973696442

LAMPIRAN M HASIL SUPERPOSITIONING

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
1	0.84			
2	1.89			
3	0.75			
4	0.77	3.743737876	2.98	388%
5	1.36	3.274134217	1.91	141%
6	2.85	3.273143425	0.42	15%
7	0.61	2.491156376	1.88	308%
8	1.30	2.163664136	0.86	66%
9	0.87	1.591072786	0.72	82%
10	1.47	2.44011317	0.97	66%
11	1.14	1.680650943	0.54	47%
12	1.08	2.47523447	1.40	130%
13	2.18	2.249304624	0.07	3%
14	1.75	3.167170361	1.41	81%
15	1.56	2.368684664	0.81	52%
16	0.48	2.105109819	1.63	339%
17	0.59	1.220446475	0.63	105%
18	0.43	1.302873342	0.88	207%
19	0.59	1.086017582	0.49	84%
20	0.85	1.629297515	0.78	91%
21	1.16	1.734250387	0.57	49%
22	1.89	2.198102125	0.30	16%
23	1.08	2.153677749	1.07	100%
24	2.54	2.665149611	0.13	5%
25	1.46	2.493199215	1.03	70%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
26	2.14	3.178121487	1.04	48%
27	3.95	3.600234075	0.35	9%
28	3.16	4.523683416	1.37	43%
29	3.35	4.17671848	0.83	25%
30	2.89	3.770139979	0.88	30%
31	1.81	2.983911797	1.17	65%
32	1.79	2.705759836	0.92	52%
33	2.10	2.11754236	0.01	1%
34	1.57	2.484481013	0.92	59%
35	3.81	3.21386406	0.59	16%
36	3.49	4.581551472	1.09	31%
37	3.58	4.619514351	1.04	29%
38	3.65	4.706005724	1.06	29%
39	3.70	4.494273292	0.79	21%
40	4.10	4.737528455	0.64	16%
41	3.31	4.214442277	0.91	27%
42	2.30	3.867503097	1.57	68%
43	1.81	3.182469331	1.37	76%
44	2.30	3.097023028	0.80	35%
45	2.64	2.708767687	0.07	3%
46	2.05	2.706273145	0.66	32%
47	0.93	2.409133223	1.48	159%
48	1.35	2.538674428	1.19	89%
49	2.27	2.376291131	0.11	5%
50	1.75	2.441387614	0.70	40%
51	0.84	2.112514017	1.27	151%
52	1.51	2.056693594	0.54	36%
53	1.17	1.758555721	0.59	50%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
54	1.00	1.763620295	0.76	76%
55	1.16	1.576016584	0.42	36%
56	1.19	2.232999126	1.05	88%
57	2.43	3.093901745	0.66	27%
58	4.22	3.990780994	0.23	5%
59	1.26	3.694642761	2.43	192%
60	2.00	2.4807632	0.48	24%
61	1.76	1.545688375	0.21	12%
62	0.74	1.587305731	0.85	115%
63	1.34	2.161147377	0.82	61%
64	2.28	2.988664024	0.70	31%
65	3.50	3.599203401	0.10	3%
66	1.80	3.423538214	1.63	91%
67	2.23	2.754856468	0.53	24%
68	2.06	2.906902351	0.84	41%
69	2.78	3.094453803	0.31	11%
70	1.43	2.599315907	1.17	82%
71	0.65	2.028993706	1.38	211%
72	1.74	1.677048299	0.07	4%
73	1.46	1.682092584	0.23	16%
74	1.16	2.142382706	0.98	85%
75	2.74	3.030814412	0.29	10%
76	4.59	4.03561856	0.55	12%
77	3.59	4.685771746	1.09	30%
78	3.58	4.958926609	1.38	39%
79	4.76	4.953247356	0.19	4%
80	3.48	4.624794682	1.15	33%
81	2.13	3.717590199	1.59	75%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
82	2.22	2.816231955	0.60	27%
83	1.20	2.21592983	1.01	84%
84	1.74	2.198276619	0.46	27%
85	1.46	2.176496654	0.71	49%
86	2.39	2.619958568	0.23	10%
87	1.54	2.680703121	1.14	74%
88	1.80	2.42440248	0.62	34%
89	0.77	1.767194538	1.00	129%
90	1.88	1.96278483	0.08	5%
91	2.42	2.512062627	0.09	4%
92	2.19	3.226825943	1.03	47%
93	2.77	3.22285711	0.46	16%
94	1.38	2.756482695	1.37	99%
95	1.81	2.117132257	0.30	17%
96	1.10	1.916695783	0.82	74%
97	1.39	2.050316083	0.66	48%
98	2.48	2.510724314	0.04	1%
99	2.31	2.906372014	0.60	26%
100	2.15	2.987524461	0.84	39%
101	2.00	2.757992099	0.76	38%
102	1.86	2.554197062	0.69	37%
103	1.74	2.439290352	0.70	40%
104	1.63	2.409163336	0.78	48%
105	1.76	2.17635622	0.42	24%
106	1.13	1.886797883	0.76	68%
107	0.80	1.578627246	0.77	96%
108	0.93	1.736977146	0.81	87%
109	2.84	2.406536588	0.44	15%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
110	1.83	3.074259556	1.25	68%
111	1.88	2.936171587	1.05	56%
112	2.05	2.36926326	0.32	16%
113	0.76	1.746684911	0.99	130%
114	1.78	1.881425007	0.10	6%
115	2.47	2.490940454	0.02	1%
116	3.05	3.211768956	0.17	5%
117	2.81	3.253493081	0.45	16%
118	1.79	2.843038027	1.05	59%
119	1.70	2.183694258	0.49	29%
120	1.26	1.952151643	0.69	54%
121	3.29	2.625604079	0.67	20%
122	3.16	3.801492671	0.64	20%
123	3.72	4.136664537	0.42	11%
124	3.40	3.712726948	0.31	9%
125	2.16	3.308328886	1.15	54%
126	3.97	3.492118304	0.48	12%
127	4.73	4.35611743	0.37	8%
128	4.04	5.093702286	1.05	26%
129	3.72	5.463206518	1.74	47%
130	4.29	4.761095228	0.47	11%
131	1.35	3.356183689	2.01	149%
132	2.12	2.21385904	0.10	5%
133	2.26	2.225805404	0.03	1%
134	1.50	2.40048908	0.90	60%
135	2.03	2.614638666	0.58	29%
136	1.54	2.135062944	0.60	39%
137	1.17	2.036437812	0.87	75%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
138	1.43	1.841754819	0.41	29%
139	1.90	2.219724372	0.32	17%
140	1.97	2.236454834	0.27	14%
141	2.12	2.432738688	0.31	15%
142	1.64	2.574299015	0.93	57%
143	3.62	3.391767555	0.23	6%
144	1.56	3.276427706	1.72	111%
145	1.08	2.504376872	1.43	133%
146	1.69	1.709436527	0.02	1%
147	1.48	1.434965175	0.04	3%
148	0.97	1.800723942	0.83	85%
149	2.42	2.206197247	0.21	9%
150	1.82	2.214521549	0.40	22%
151	1.36	2.179047202	0.82	61%
152	1.06	2.193606157	1.13	107%
153	3.30	2.73065364	0.56	17%
154	3.62	3.261692692	0.36	10%
155	2.29	3.287411064	1.00	43%
156	1.26	2.777982985	1.52	120%
157	2.08	2.228735554	0.15	7%
158	1.96	1.932288542	0.03	1%
159	1.79	2.522914242	0.73	41%
160	3.20	3.104085625	0.09	3%
161	2.58	3.355208808	0.77	30%
162	1.47	2.725494626	1.26	86%
163	1.22	2.215264916	1.00	82%
164	1.26	1.843828232	0.59	47%
165	1.80	1.961173827	0.16	9%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
166	1.73	1.825483573	0.10	6%
167	0.85	1.932430665	1.08	128%
168	1.78	1.836105036	0.05	3%
169	0.65	1.803778787	1.15	177%
170	1.51	1.457636657	0.05	3%
171	1.03	1.766295468	0.73	71%
172	1.76	2.017247505	0.26	15%
173	0.59	1.719651691	1.13	193%
174	1.07	1.213837113	0.15	14%
175	0.91	1.260496513	0.35	38%
176	0.79	1.215909207	0.43	54%
177	0.98	1.282694091	0.31	31%
178	0.83	1.344008112	0.51	61%
179	2.06	1.868821876	0.19	9%
180	2.36	2.0510169	0.31	13%
181	1.12	2.174676478	1.05	94%
182	1.89	2.063402478	0.17	9%
183	3.06	2.657907867	0.40	13%
184	3.30	3.141286243	0.16	5%
185	3.34	3.858439031	0.52	16%
186	3.39	3.918205948	0.53	16%
187	3.65	3.960884764	0.31	8%
188	3.03	3.490463871	0.47	15%
189	2.45	3.313807664	0.86	35%
190	3.18	3.087204405	0.09	3%
191	2.88	3.341273961	0.46	16%
192	2.90	3.280213105	0.39	13%
193	3.03	3.572640804	0.54	18%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
194	3.70	3.745188824	0.05	1%
195	3.50	4.015914033	0.51	15%
196	3.36	3.794898158	0.43	13%
197	2.32	3.325334497	1.01	43%
198	2.45	2.732561356	0.28	11%
199	2.43	2.825916271	0.40	17%
200	3.54	3.310409715	0.23	6%
201	3.69	3.856809705	0.16	4%
202	3.19	4.104361689	0.91	29%
203	3.49	4.126980333	0.63	18%
204	3.97	3.925255052	0.04	1%
205	2.16	3.537360287	1.38	64%
206	3.04	3.035109891	0.01	0%
207	1.65	2.666204081	1.02	62%
208	1.54	2.297046796	0.76	49%
209	1.71	2.314780116	0.61	36%
210	2.84	2.77616758	0.07	2%
211	3.16	3.212319853	0.06	2%
212	3.35	3.456249119	0.11	3%
213	2.86	3.073616682	0.21	7%
214	1.34	2.353474201	1.01	75%
215	0.66	1.614187263	0.96	146%
216	1.35	1.615516936	0.26	19%
217	2.83	2.333161275	0.49	17%
218	2.88	3.164826906	0.28	10%
219	3.32	3.481868336	0.16	5%
220	1.78	2.908115031	1.12	63%
221	1.35	2.321344557	0.98	73%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
222	1.87	1.754986509	0.11	6%
223	2.11	1.617337498	0.50	23%
224	1.70	1.779673071	0.08	5%
225	1.61	2.46536602	0.85	53%
226	4.24	3.319624415	0.92	22%
227	3.80	4.041383264	0.24	6%
228	3.02	3.79483376	0.77	26%
229	2.02	3.300522121	1.28	63%
230	1.56	2.466750468	0.91	58%
231	1.56	1.919044552	0.36	23%
232	1.49	1.460688625	0.03	2%
233	1.04	1.486468909	0.44	42%
234	2.38	1.927173301	0.45	19%
235	2.69	2.881491108	0.20	7%
236	3.43	3.433816868	0.00	0%
237	2.55	3.407505266	0.85	33%
238	2.82	2.925667847	0.11	4%
239	1.63	2.444361092	0.81	50%
240	2.34	2.160906786	0.18	8%
241	1.61	2.142977859	0.53	33%
242	2.29	2.30850502	0.02	1%
243	2.84	2.778675591	0.07	2%
244	3.81	3.351748028	0.45	12%
245	3.77	3.597264511	0.17	5%
246	3.04	3.774623019	0.74	24%
247	4.64	4.064693816	0.58	12%
248	4.53	4.596392592	0.07	2%
249	4.00	4.637737161	0.64	16%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
250	4.66	4.680903272	0.02	1%
251	3.87	4.468778223	0.60	16%
252	4.62	4.59582658	0.03	1%
253	3.55	4.312037227	0.76	21%
254	4.41	4.703780874	0.29	7%
255	4.62	4.566032102	0.05	1%
256	4.00	4.327464779	0.33	8%
257	1.50	2.951874669	1.45	96%
258	2.29	2.152836353	0.14	6%
259	1.83	2.053148652	0.22	12%
260	2.20	2.5479024	0.35	16%
261	2.70	2.442861199	0.25	9%
262	2.38	2.913620334	0.54	23%
263	3.78	3.341122509	0.44	12%
264	2.73	3.790964347	1.06	39%
265	2.39	2.882279157	0.49	20%
266	1.44	2.287723781	0.85	59%
267	1.39	1.689901777	0.30	21%
268	2.15	2.057749364	0.09	4%
269	2.52	2.392941342	0.13	5%
270	3.29	3.012971654	0.27	8%
271	2.41	2.955871381	0.54	23%
272	2.63	3.261861123	0.63	24%
273	3.22	3.219330454	0.00	0%
274	3.42	3.367006492	0.05	1%
275	1.85	2.774286879	0.93	50%
276	2.35	2.358035359	0.01	0%
277	1.38	1.859152359	0.48	35%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
278	2.34	2.059759323	0.28	12%
279	2.31	2.35611395	0.04	2%
280	3.28	3.239120776	0.04	1%
281	3.39	3.356074903	0.03	1%
282	2.23	3.251807101	1.03	46%
283	2.43	2.417874877	0.01	0%
284	1.93	2.291491076	0.36	19%
285	2.09	2.358403405	0.27	13%
286	3.28	2.976346855	0.31	9%
287	3.16	3.214908551	0.06	2%
288	2.78	3.291773601	0.51	18%
289	2.38	2.708902469	0.33	14%
290	1.63	2.206995732	0.58	36%
291	1.19	1.683774251	0.49	42%
292	1.83	1.878450491	0.05	3%
293	2.55	2.227576695	0.32	13%
294	1.93	2.486837058	0.56	29%
295	1.79	2.122938028	0.34	19%
296	1.28	1.919985909	0.64	50%
297	1.76	1.538170214	0.22	13%
298	0.71	1.17302598	0.46	65%
299	2.76	1.689600935	1.07	39%
300	2.74	2.668683486	0.07	3%
301	2.52	2.818601704	0.30	12%
302	2.09	2.756341508	0.67	32%
303	2.70	2.541472585	0.16	6%
304	2.43	2.583411784	0.15	6%
305	2.46	2.437824927	0.03	1%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
306	1.98	2.329912545	0.35	17%
307	3.10	2.554536981	0.55	18%
308	2.45	3.103972127	0.65	27%
309	3.18	3.058165081	0.12	4%
310	1.81	2.500669507	0.69	38%
311	1.46	2.03114484	0.57	39%
312	2.30	2.187312345	0.12	5%
313	3.51	2.884841761	0.62	18%
314	2.55	3.249244671	0.70	27%
315	2.49	3.038554478	0.55	22%
316	2.57	2.402229791	0.17	6%
317	1.60	2.083727978	0.49	30%
318	3.02	2.425430329	0.60	20%
319	2.17	2.88016536	0.71	33%
320	2.29	2.427017366	0.13	6%
321	1.67	1.93342908	0.26	16%
322	1.35	1.914843714	0.56	41%
323	2.49	2.107098187	0.38	15%
324	1.21	2.184477207	0.97	80%
325	1.40	1.405327293	0.00	0%
326	0.42	0.918509053	0.50	119%
327	1.34	0.887095607	0.45	34%
328	1.16	1.337374923	0.17	15%
329	1.81	1.616359794	0.20	11%
330	1.71	1.881517634	0.17	10%
331	1.83	1.724063584	0.11	6%
332	0.94	1.47051316	0.53	56%
333	1.57	1.408775011	0.16	10%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
334	2.28	1.717932992	0.56	25%
335	1.26	1.867047012	0.61	49%
336	1.69	1.952657922	0.26	15%
337	2.13	1.644690875	0.48	23%
338	0.81	1.393997808	0.58	71%
339	0.47	1.017645628	0.55	117%
340	1.05	1.157303536	0.11	10%
341	2.16	1.516082273	0.65	30%
342	1.80	1.872848572	0.07	4%
343	1.39	1.772840561	0.38	28%
344	1.55	1.701970111	0.15	10%
345	1.68	1.542273395	0.14	8%
346	1.29	1.551900013	0.26	20%
347	1.54	1.314378142	0.22	15%
348	0.88	1.187701062	0.31	35%
349	2.08	1.475422752	0.61	29%
350	1.26	1.852081686	0.59	47%
351	1.92	1.676377823	0.25	13%
352	1.70	1.663640163	0.04	2%
353	1.39	1.476734412	0.09	6%
354	1.08	1.400176868	0.32	30%
355	1.44	1.247480554	0.19	13%
356	1.08	1.222234821	0.14	13%
357	0.85	0.995061561	0.14	17%
358	0.83	0.980243633	0.15	19%
359	1.60	0.9158149	0.68	43%
360	1.03	1.21381422	0.19	18%
361	2.89	1.972863866	0.91	32%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
362	3.14	2.746412313	0.39	13%
363	2.10	2.673777	0.58	27%
364	1.48	2.084589206	0.60	41%
365	1.12	1.261343122	0.14	12%
366	0.61	0.856510601	0.25	41%
367	1.18	0.827507774	0.35	30%
368	1.15	1.046828539	0.10	9%
369	1.61	1.262117036	0.34	21%
370	1.63	1.636656709	0.01	0%
371	2.46	2.091967348	0.37	15%
372	2.74	2.414613437	0.32	12%
373	1.96	2.325799057	0.37	19%
374	1.28	1.902809341	0.63	49%
375	1.47	1.370163058	0.10	7%
376	1.35	0.912758884	0.44	32%
377	0.50	0.804129173	0.31	62%
378	1.96	1.112175256	0.85	43%
379	2.33	1.695171787	0.64	27%
380	2.36	2.033404543	0.33	14%
381	1.79	2.137944179	0.35	20%
382	1.79	2.198011013	0.41	23%
383	2.22	2.330888462	0.11	5%
384	2.63	2.492954244	0.13	5%
385	2.94	2.424493995	0.52	18%
386	1.10	1.921619555	0.82	74%
387	2.10	1.375525845	0.72	34%
388	1.69	1.715865154	0.03	2%
389	2.17	1.842958726	0.33	15%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
390	1.62	1.845593576	0.23	14%
391	1.93	1.992391957	0.06	3%
392	2.42	1.912519268	0.51	21%
393	0.91	1.665585677	0.76	84%
394	1.66	1.268534318	0.39	24%
395	1.87	1.381970395	0.48	26%
396	1.06	1.23300656	0.18	17%
397	0.94	1.224418196	0.28	30%
398	1.15	0.966891681	0.19	16%
399	1.23	0.97846329	0.26	21%
400	1.25	0.757429041	0.49	39%
401	0.88	0.87444761	0.01	1%
402	1.43	1.263925322	0.16	11%
403	3.02	2.08859926	0.93	31%
404	2.45	2.491893746	0.04	2%
405	2.12	2.312334123	0.19	9%
406	1.26	1.811757152	0.55	44%
407	1.77	1.575307402	0.19	11%
408	1.97	1.507924816	0.46	24%
409	2.17	1.521633034	0.65	30%
410	1.11	1.405899125	0.29	26%
411	2.73	1.818547009	0.91	33%
412	1.47	1.978986739	0.51	35%
413	1.82	1.691074124	0.13	7%
414	1.79	1.71619275	0.07	4%
415	2.74	2.084149829	0.66	24%
416	1.36	1.84621324	0.48	35%
417	2.84	1.727241598	1.11	39%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
418	2.29	2.231605615	0.06	3%
419	2.63	2.995686559	0.37	14%
420	3.87	3.144367301	0.73	19%
421	2.92	2.836374897	0.08	3%
422	1.13	1.903580158	0.78	69%
423	2.24	1.457983954	0.78	35%
424	2.13	1.435124443	0.70	33%
425	1.70	1.784226708	0.09	5%
426	2.07	2.026183616	0.05	2%
427	2.43	2.288217348	0.14	6%
428	3.02	2.472687505	0.55	18%
429	2.33	2.35166711	0.02	1%
430	1.64	1.999128016	0.36	22%
431	2.06	1.82138464	0.24	12%
432	2.39	1.853889445	0.54	22%
433	1.66	1.845188853	0.19	11%
434	1.79	1.725754097	0.06	3%
435	1.82	1.621414104	0.20	11%
436	1.96	1.497492161	0.46	24%
437	0.88	1.170663062	0.29	34%
438	1.51	1.047037176	0.46	31%
439	2.04	1.07105301	0.97	48%
440	1.14	1.227258095	0.09	8%
441	1.45	1.429032266	0.03	2%
442	2.98	1.854295124	1.12	38%
443	2.97	2.289949483	0.68	23%
444	2.52	2.668847445	0.15	6%
445	3.39	2.820257086	0.57	17%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
446	3.31	2.803167712	0.50	15%
447	2.86	2.636915781	0.22	8%
448	2.43	2.43607862	0.01	0%
449	3.21	2.572436091	0.64	20%
450	3.59	2.94503899	0.64	18%
451	3.36	3.157222448	0.20	6%
452	3.38	3.073557617	0.31	9%
453	2.68	2.760798544	0.08	3%
454	2.88	2.581057378	0.30	10%
455	2.74	2.735653066	0.00	0%
456	3.94	3.302433924	0.64	16%
457	2.05	2.878412685	0.83	41%
458	2.65	1.940062469	0.71	27%
459	2.39	2.111219625	0.28	12%
460	3.41	2.534115283	0.88	26%
461	2.35	2.390684876	0.04	2%
462	1.99	2.515507579	0.53	26%
463	3.35	2.614896227	0.74	22%
464	4.17	3.110842959	1.06	25%
465	2.10	2.849030231	0.75	35%
466	2.38	2.352051681	0.03	1%
467	2.60	2.065960636	0.53	21%
468	2.90	2.191354842	0.70	24%
469	2.52	2.364752481	0.15	6%
470	3.32	2.58554587	0.73	22%
471	2.58	2.533727256	0.04	2%
472	4.30	3.248150109	1.05	24%
473	2.84	3.296460832	0.46	16%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
474	1.80	2.731225189	0.93	52%
475	2.58	1.877292211	0.70	27%
476	2.24	1.318778184	0.92	41%
477	0.85	1.155417978	0.30	35%
478	1.70	1.326340211	0.38	22%
479	2.52	1.631869193	0.88	35%
480	3.33	2.089790383	1.24	37%
481	3.05	2.367611282	0.69	22%
482	2.66	2.72624204	0.07	3%
483	3.63	3.169626274	0.46	13%
484	4.93	3.846566629	1.08	22%
485	4.20	4.089639314	0.11	3%
486	3.92	3.82014768	0.09	2%
487	2.81	3.073065372	0.26	9%
488	3.20	2.770078431	0.43	13%
489	3.24	2.46892426	0.77	24%
490	1.77	2.221471569	0.45	25%
491	2.65	1.698262709	0.95	36%
492	2.06	1.671851709	0.39	19%
493	2.45	2.215993957	0.24	10%
494	4.24	3.051439708	1.18	28%
495	3.45	3.62456011	0.18	5%
496	3.08	2.96279502	0.11	4%
497	1.99	2.023504888	0.03	2%
498	1.16	1.356275278	0.20	17%
499	2.56	1.325903649	1.23	48%
500	2.88	1.865691811	1.02	35%
501	2.44	2.549780075	0.11	4%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
502	4.17	3.150519483	1.02	24%
503	3.99	3.030242257	0.96	24%
504	2.16	2.515518017	0.35	16%
505	1.04	1.670544584	0.63	60%
506	2.32	1.185463453	1.14	49%
507	0.97	1.004735983	0.03	3%
508	1.04	1.037669249	0.00	0%
509	1.56	1.162711031	0.40	26%
510	2.67	1.547226464	1.12	42%
511	3.41	1.821046961	1.59	47%
512	2.31	2.21219873	0.10	4%
513	2.02	2.492793963	0.47	24%
514	3.81	2.881383972	0.93	24%
515	5.14	3.134264451	2.00	39%
516	3.93	3.368805978	0.56	14%
517	2.54	3.380646172	0.84	33%
518	3.19	3.499742186	0.31	10%
519	4.39	3.535016209	0.85	19%
520	4.93	3.509054511	1.42	29%
521	2.92	3.140090451	0.22	7%
522	2.30	2.575803581	0.28	12%
523	2.31	2.104377075	0.21	9%
524	2.75	2.047575284	0.70	26%
525	2.96	2.223765254	0.73	25%
526	3.30	2.550465984	0.75	23%
527	3.43	2.765088931	0.67	19%
528	3.52	3.074624558	0.45	13%
529	4.58	3.457806681	1.12	25%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
530	4.09	3.939208758	0.15	4%
531	4.77	4.240118459	0.53	11%
532	5.10	4.575125886	0.53	10%
533	5.85	4.703077868	1.14	20%
534	5.38	4.350747516	1.03	19%
535	3.40	3.929277668	0.53	15%
536	5.30	3.785807946	1.51	29%
537	3.54	4.024689176	0.48	14%
538	3.46	3.311287314	0.15	4%
539	3.29	2.815398326	0.47	14%
540	2.62	2.298512255	0.32	12%
541	2.90	2.165061272	0.73	25%
542	1.29	1.341844475	0.05	4%
543	1.99	1.51893295	0.47	24%
544	3.89	1.763047656	2.12	55%
545	3.02	2.391562342	0.63	21%
546	2.21	2.422724028	0.21	9%
547	3.58	3.088655908	0.49	14%
548	5.73	3.682614754	2.04	36%
549	6.00	4.603319507	1.40	23%
550	5.96	4.962813294	1.00	17%
551	5.43	5.231949402	0.19	4%
552	5.74	5.226242976	0.51	9%
553	6.09	5.475327878	0.62	10%
554	6.93	5.6995109	1.23	18%
555	7.22	5.992140685	1.23	17%
556	6.67	6.337336534	0.33	5%
557	8.48	7.04677305	1.44	17%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
558	8.75	7.85310778	0.90	10%
559	8.68	7.985685787	0.70	8%
560	7.03	7.21634354	0.19	3%
561	5.87	5.971520993	0.10	2%
562	4.12	4.674668883	0.56	13%
563	4.68	4.029178198	0.65	14%
564	4.92	4.008452106	0.91	18%
565	4.90	3.997162567	0.90	18%
566	3.54	3.638851921	0.10	3%
567	3.09	3.174654341	0.09	3%
568	3.40	2.928762543	0.47	14%
569	3.33	3.019405945	0.31	9%
570	4.23	3.29869933	0.93	22%
571	3.29	3.005820048	0.29	9%
572	2.14	2.371601975	0.24	11%
573	1.78	1.732489128	0.04	3%
574	2.14	1.623471069	0.52	24%
575	3.13	1.909912186	1.22	39%
576	2.13	2.107529251	0.03	1%
577	2.36	1.830612323	0.53	23%
578	1.95	1.186200179	0.77	39%
579	1.07	0.730773738	0.34	32%
580	1.45	0.658208774	0.79	55%
581	2.52	1.189763478	1.33	53%
582	2.85	1.829189186	1.02	36%
583	3.43	2.324793164	1.11	32%
584	3.12	2.428593767	0.69	22%
585	3.19	2.613080842	0.58	18%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
586	4.26	2.831274529	1.43	34%
587	3.67	3.195009729	0.48	13%
588	3.84	3.219550052	0.62	16%
589	4.19	3.449090054	0.74	18%
590	4.40	4.008355575	0.40	9%
591	6.55	4.749009574	1.80	28%
592	6.02	4.960769971	1.05	18%
593	4.45	4.119166522	0.33	7%
594	1.67	2.55430608	0.89	53%
595	1.39	1.28269104	0.11	8%
596	1.59	1.160622961	0.43	27%
597	3.16	2.285319383	0.87	28%
598	5.16	3.533074226	1.63	32%
599	5.73	4.396986261	1.33	23%
600	3.73	4.133615088	0.41	11%
601	4.38	3.351102587	1.03	24%
602	3.35	3.036090726	0.31	9%
603	3.47	3.253900366	0.21	6%
604	3.74	2.682426548	1.06	28%
605	2.08	2.223195603	0.14	7%
606	2.82	1.603855949	1.21	43%
607	3.08	2.174018602	0.91	30%
608	3.38	2.154831611	1.23	36%
609	2.73	2.360835891	0.37	13%
610	2.57	1.843074259	0.73	28%
611	1.95	1.799208424	0.15	8%
612	3.50	1.748649386	1.75	50%
613	2.54	2.328410108	0.21	8%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
614	4.14	2.921404838	1.22	29%
615	4.76	3.409976482	1.35	28%
616	2.19	2.859891145	0.67	31%
617	2.85	1.742735701	1.10	39%
618	0.99	0.896618366	0.09	9%
619	2.38	0.874063648	1.51	63%
620	2.60	1.480805208	1.12	43%
621	3.21	2.217329501	0.99	31%
622	3.04	2.057683008	0.98	32%
623	1.46	1.476804509	0.02	1%
624	1.55	0.731562082	0.82	53%
625	2.11	0.939100098	1.17	56%
626	2.82	1.552980108	1.27	45%
627	3.78	2.619493975	1.16	31%
628	4.55	3.368411292	1.18	26%
629	4.86	3.846388661	1.02	21%
630	3.21	3.291644624	0.08	3%
631	2.95	2.304794992	0.64	22%
632	2.10	1.672899754	0.43	20%
633	2.66	1.788412702	0.87	33%
634	3.01	1.748792882	1.26	42%
635	1.90	1.683047285	0.21	11%
636	3.14	1.433025123	1.70	54%
637	2.72	2.151154001	0.57	21%
638	2.68	2.52051101	0.15	6%
639	3.42	2.249513707	1.17	34%
640	1.03	1.289780089	0.26	25%
641	1.66	0.866952106	0.79	48%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
642	2.80	1.086808693	1.71	61%
643	2.94	1.370944087	1.57	53%
644	1.88	1.461077403	0.42	22%
645	1.73	1.232317928	0.50	29%
646	1.66	0.874154062	0.78	47%
647	1.30	0.636319407	0.66	51%
648	1.74	0.761207681	0.98	56%
649	2.27	1.013780136	1.25	55%
650	2.54	1.276729483	1.27	50%
651	2.01	1.381388147	0.63	31%
652	2.75	1.627960488	1.12	41%
653	3.27	1.898921487	1.37	42%
654	2.57	1.964794224	0.61	24%
655	2.19	1.733320899	0.46	21%
656	2.49	1.587457863	0.90	36%
657	2.50	1.576809376	0.92	37%
658	3.17	1.594638557	1.58	50%
659	1.70	1.236510809	0.46	27%
660	1.25	1.193224006	0.06	5%
661	3.28	1.393020724	1.89	58%
662	4.15	2.064181853	2.08	50%
663	3.66	2.189425485	1.47	40%
664	2.81	2.009595754	0.80	28%
665	1.38	1.426080754	0.05	4%
666	1.51	1.077685759	0.43	28%
667	2.47	0.900928212	1.56	63%
668	2.64	1.573313732	1.07	40%
669	4.79	2.771451915	2.02	42%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
670	4.60	3.712032357	0.88	19%
671	4.39	3.682889524	0.71	16%
672	4.10	3.228427617	0.87	21%
673	3.41	2.307763886	1.10	32%
674	2.02	1.336018	0.68	34%
675	0.67	0.493137073	0.17	26%
676	2.04	0.40451145	1.63	80%
677	3.10	0.960408158	2.14	69%
678	2.09	1.648139132	0.45	21%
679	3.11	2.158882833	0.95	30%
680	4.44	2.424669064	2.02	45%
681	4.37	2.721976621	1.65	38%
682	3.18	3.004846812	0.17	5%
683	4.83	3.107679839	1.72	36%
684	4.39	2.85992536	1.53	35%
685	3.03	2.82493272	0.20	7%
686	1.61	2.433638357	0.82	51%
687	1.93	2.514326174	0.58	30%
688	3.43	3.385790998	0.05	1%
689	3.62	3.795874008	0.18	5%
690	5.23	4.017705592	1.21	23%
691	4.01	4.266149674	0.25	6%
692	2.62	2.898916718	0.28	11%
693	1.56	2.618725826	1.06	68%
694	2.47	2.577084949	0.10	4%
695	3.16	2.950723608	0.21	7%
696	2.85	2.746710746	0.11	4%
697	3.13	2.985041802	0.14	5%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
698	3.78	3.659836002	0.12	3%
699	3.49	3.639751699	0.15	4%
700	2.58	2.851880625	0.27	11%
701	1.75	2.252858954	0.51	29%
702	2.76	2.189102151	0.57	21%
703	2.41	2.843246406	0.43	18%
704	4.52	3.162083196	1.36	30%
705	3.53	4.210090566	0.68	19%
706	2.78	3.282846572	0.50	18%
707	3.03	3.823122823	0.80	26%
708	3.87	3.905870197	0.04	1%
709	4.08	3.437353365	0.64	16%
710	1.75	2.569627897	0.82	47%
711	1.77	2.024175076	0.26	15%
712	3.66	3.212611177	0.44	12%
713	2.45	3.378410799	0.93	38%
714	3.85	3.023666366	0.83	22%
715	4.83	4.549050649	0.28	6%
716	4.09	4.268693036	0.18	4%
717	3.95	3.822828538	0.12	3%
718	3.61	4.017024178	0.40	11%
719	3.79	3.704633911	0.08	2%
720	3.92	3.769712113	0.15	4%
721	3.62	3.812229888	0.19	5%
722	5.40	4.366363798	1.03	19%
723	5.74	5.289334147	0.45	8%
724	5.41	4.534525341	0.87	16%
725	2.90	3.793687979	0.90	31%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
726	2.43	3.15116345	0.72	30%
727	4.67	4.023656556	0.64	14%
728	4.93	4.530740222	0.40	8%
729	4.59	3.721002014	0.87	19%
730	4.22	4.332323372	0.11	3%
731	4.35	4.840358622	0.49	11%
732	5.50	5.43443439	0.06	1%
733	4.49	5.021821316	0.54	12%
734	2.99	3.573713543	0.59	20%
735	3.39	3.176483013	0.21	6%
736	3.14	3.626196232	0.48	15%
737	3.91	3.363084138	0.55	14%
738	3.54	3.564926491	0.02	1%
739	2.96	2.787225995	0.18	6%
740	2.04	2.575000151	0.54	26%
741	3.43	2.792134528	0.63	19%
742	4.23	3.838523884	0.39	9%
743	3.68	3.55136406	0.13	3%
744	3.35	3.397946547	0.05	2%
745	3.39	3.605421267	0.22	6%
746	3.33	3.621728455	0.29	9%
747	4.14	3.757701202	0.38	9%
748	4.25	4.20220218	0.05	1%
749	4.23	4.434775652	0.21	5%
750	5.07	4.986919966	0.08	2%
751	6.08	5.386085326	0.70	11%
752	4.35	4.827138035	0.48	11%
753	2.92	3.745637624	0.82	28%

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
754	3.15	4.186473129	1.03	33%
755	5.26	4.760139104	0.50	10%
756	4.34	4.704681311	0.36	8%
757	3.61	3.543861115	0.07	2%
758	3.63	4.155795558	0.53	15%
759	5.15	4.63228166	0.52	10%
760	5.41	5.055691916	0.36	7%
761	5.06	4.675458636		
762	4.68	4.603439488		
763	4.61	4.582391856		
764	4.59	4.681756747		
765	4.69	4.676925859		
766	4.68	4.686256056		
767	4.69	4.752659989		
768	4.76	4.765261511		
769	4.77	4.779625184		
770	4.79	4.829327823		
771	4.84	4.844497425		
772	4.85	4.865075334		
773	4.87	4.900020718		
774	4.91	4.920569013		
775	4.93	4.939314468		
776	4.95	4.970260125		
777	4.98	4.988719323		
778	5.00	5.010471736		
779	5.02	5.034350864		
780	5.04	5.055606203		
781	5.06	5.074232904		

Periode per-hari	Data Aktual Kecepatan Angin	Hasil Peramalan Akhir	ABS Error	MAPE
782	5.08	5.098116372		
783	5.11	5.11624367		
784	5.12	5.13694636		
785	5.14	5.156288069		
786	5.16	5.176413386		
787	5.18	5.193810221		
788	5.20	5.214303527		
789	5.22	5.231183869		
790	5.24	5.250332377		
791	5.26	5.267226778		