

DAFTAR PUSTAKA

- Assauri, S. (2016). Manajemen Operasi Produksi Pencapaian Sasaran Organisasi Berkesinambungan. Edisi Ketiga. Jakarta: Rajawali Pers.
- Diskominfo, Kaltim. (2022). Sempat Sentuh Angka Terendah Kurun Waktu 4 Tahun Terakhir, PDRB Per Kapita Kaltim Kembali Naik Tahun 2021. <https://diskominfo.kaltimprov.go.id/ekonomi/sempat-sentuh-angka-terendah-kurun-waktu-4-tahun-terakhir-pdrb-per-kapita-kaltim-kembali-naik-tahun-2021#:~:text=%E2%80%9CHal%20itu%20mendorong%20terjadinya%20pebaikan,Provinsi%20Kaltim%20Menurut%20Lapangan%20Usaha>.
- Faulina, A. R. (2023). Flowchart. Sekawanmedia.Co.Id. <https://www.sekawanmedia.co.id/blog/pengertian-dan-simbol-flowchart/>
- Halilurrahman, M. (2023). Analisis *Forecasting Demand* Produk *Filter Oil* Dengan Metode *Time series* Terhadap Pengendalian Persediaan Di PT United Tractors Tbk, Site Binungan.
- Handayani, P., Firmansyah, A., & Dodit Ardiatma. (2019). Sistem Informasi Inventory Barang Gudang Berbasis Web Studi Kasus PT Usui Internasional Indonesia. *Universitas Pelita Bangsa*, 35(8), 791–792.
- Handoko, Hani T. (2015). Manajemen Produksi Dan Operasi. Edisi Ketiga. Yogyakarta: BPFE.
- Heizer. J. Dan Render, B. (2017). Manajemen Operasi. Edisi 11 . Jakarta : Salemba Empat.
- Mahendra, R. (2021). Analisis Pengadaan Jumlah Barang Dan Penataan Gudang Pada PT Sumber Digital Media Tanaka (*Banjarmasin Elektronik*). [Http://Eprints.Uniska-Bjm.Ac.Id/5192/%0Ahttp://Eprints.Uniska-Bjm.Ac.Id/5192/1/Artikel Ryan Mahendra 16310595 %281%29.Pdf](Http://Eprints.Uniska-Bjm.Ac.Id/5192/%0Ahttp://Eprints.Uniska-Bjm.Ac.Id/5192/1/Artikel%20Ryan%20Mahendra%2016310595%20%281%29.Pdf)
- Mukaromah, N. (2019). Analisis *Forecasting (Peramalan)* Permintaan Karet Pada PT Perkebunan Nusantara XII Banjarsari Jember. [Http://Digilib.Uinkhas.Ac.Id/Id/Eprint/18417/%0Ahttp://Digilib.Uinkhas.Ac.Id/18417/1/Noviatul Mukaromah E20152145.Pdf](Http://Digilib.Uinkhas.Ac.Id/Id/Eprint/18417/%0Ahttp://Digilib.Uinkhas.Ac.Id/18417/1/Noviatul%20Mukaromah%20E20152145.Pdf)
- Nugraha, E. Y. (2017). Analisis Metode Peramalan Permintaan Terbaik Produk Oxycan Pada PT Samator Gresik. 8–9.
- Prabu, A. (2022). Analisis Peramalan Permintaan Jelly Long Pelangi Dalam Merencanakan Besaran Produksi Pada PD. TrapiCool Jaya. 1–73. <Https://Eprints.Unpak.Ac.Id/3356/>
- Pramuditya. R. (2023). Penerapan Metode *Min-max* Untuk Menentukan Perencanaan Barang Dagang di Sakinah Mart Surabaya. In *Undergraduate thesis, Universitas Dinamika: Vol. No. 194302*.
- PT Trakindo Utama. (2018). Committed To Indonesia's Advancement 50 Years And Counting. <Https://Trakindo.Co.Id/About-Us>. 04 Januari 2024 (09.00)
- Ryan, Cooper, & Tauer (2013). Paper Knowledge . Toward A Media History Of Documents, 12–26.
- Rumetna, M. S. (2021). Optimasi Jumlah Produksi Roti Menggunakan Program Linear Dan *Software* POM-QM. *Computer Based Information System*

- Journal*, 9(1), 42–49. <https://doi.org/10.33884/Cbis.V9i1.3645>
- Simanjuntak, V., & Susanti, E. (2022). Analisis Peramalan Permintaan Produk Palet Kayu Pada Cv Barokah Utama. *Jurnal Comasie*, 06(02), 107–119.
- Usman, S., Jeffry, J., & Aziz, F. (2022). *Forecasting* Pengendalian Persediaan Suku Cadang Menggunakan Metode *Naive*. *Al-Ulum: Jurnal Sains Dan Teknologi*, 8(1), 47.
- Wahyu Baskoro. (2018). Bab II Tinjauan Pustaka Bab II Tinjauan Pustaka 2.1. 1–64. *Gastronomía Ecuatoriana Y Turismo Local*, 1(69), 5–24.
- Wahyuningsih Noor. (2019). Peranan Sektor Pertambangan Dan Penggalian Terhadap Perekonomian Kalimantan Timur (The Role Of The Mining And Quarrying Sector For The Economy Of East Kalimantan). *Riset Inossa*, 1, 45–59.
- Yulientinah, D. S., & Siregar, S. A. (2021). Pengaruh Sistem Informasi Akuntansi Persediaan Terhadap Pengendalian Internal Persediaan Pada PT Trijati Primula. *Land Journal*, 2(1). <https://doi.org/10.47491/landjournal.v2i1.1054>



LAMPIRAN

Lampiran 1 Data Commodity GET Periode 18 Bulan

Material Number	Material Description	Demand1	Demand2	Demand3	Demand4	Demand5	Demand6	Demand7	Demand8	Demand9	Demand10	Demand11	Demand12	Demand13	Demand14	Demand15	Demand16	Demand17	Demand18
1321015:AA	PROTECTOR	0	0	0	0	0	0	0	1	1	0	0	1	2	1	1	2	1	1
1590450:AA	TIP-J450	0	6	6	6	0	0	0	0	0	1	0	9	5	0	0	0	0	0
2307162:AA	ROLLER GP -S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2J3506:AA	NUT	72	120	217	218	246	240	245	245	224	181	229	226	187	186	122	22	111	90
3683868:AA	TIP GP-PEN	0	6	0	0	0	12	0	0	24	24	0	0	6	0	18	0	0	0
3683870:AA	TIP GP	18	0	0	0	24	24	0	12	18	12	36	54	30	42	18	24	0	9
3814090:AA	TIP-SPIKE	5	10	10	5	5	0	18	10	20	0	13	10	0	0	5	0	8	0
3T6292:AA	NUT	0	0	0	0	0	0	0	368	0	0	0	0	0	0	0	0	0	0
4304195:AA	ROLLER GP-TR	2	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0
4304200:AA	LINK AS-TRAC	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
4461524:AA	STRIP-WEAR	0	0	4	0	0	0	4	12	0	0	8	0	4	10	8	4	0	0
4549600:AA	SLEEVE-CPRSN	0	66	0	24	0	20	0	0	48	0	0	30	6	0	42	0	0	0
4561689:AA	RETAINER LOC	0	66	0	0	0	0	0	0	48	0	0	30	6	28	14	0	0	0
4T2236:AA	CUTTING EDGE	8	14	4	14	24	12	14	20	16	20	12	20	4	18	18	14	12	24
4T5502:AA	TIP	2	2	1	2	22	21	1	1	2	6	1	2	2	1	2	1	7	2
5054114:AA	TIP AS-SPIKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5768716:AA	TIP AS-SHARP	0	0	0	0	0	10	0	0	0	0	0	10	0	5	0	15	10	0
6V8132:AA	BOLT	0	12	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0
6Y0309:AA	TIP	12	20	9	13	13	4	9	8	10	4	8	5	2	5	8	5	13	0
6Y1202:AA	RETAINER AS	2	16	4	7	8	3	5	2	5	27	33	2	9	3	18	15	42	0
6Y3394:AA	PIN GET	4	8	1	3	5	1	0	1	3	1	1	3	34	4	4	4	2	1
6Y5540:AA	EDGE	2	3	4	0	0	4	5	1	0	2	4	3	0	4	0	0	0	0
7X2586:AA	BOLT	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
8E1848:AA	PROTECTOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
8E4197:AA	BIT END RH	1	1	0	0	1	0	0	1	0	1	1	0	3	0	1	1	0	0
8E4743:AA	RETAINER GET	9	8	1	30	5	1	0	1	3	1	1	3	34	12	4	4	32	1
8E5529:AA	BIT	0	0	0	0	0	0	0	4	2	0	4	0	0	0	0	0	0	0
8E8503:AA	TIP	1	10	10	6	4	0	4	5	0	21	8	0	34	2	10	20	25	23
8T4167:AA	WASHER	2	6	10	0	2	0	0	16	32	0	0	4	0	6	16	4	20	30
9W2452:AA	TIP-RIPPER	7	5	1	11	3	1	0	1	3	1	0	1	3	2	3	3	1	1
9W8365:AA	PROTECTOR	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1
9W8875:AA	END BIT	0	0	1	2	1	0	0	0	1	0	1	2	1	0	0	1	1	0
9X8399:AA	WASHER	8	8	0	0	8	8	16	0	0	0	4	0	0	8	0	72	8	12
TOTAL		196	571	433	555	539	452	468	1291	652	448	542	529	440	406	326	301	303	381

Lampiran 2 Surat Keterangan Bebas Plagiasi



SURAT BEBAS PLAGIASI

Dengan ini diterangkan bahwa TA/Skripsi yang ditulis oleh:

Nama : Angelia Nikita Michele Lie

NIM : 20401017

Prodi : Teknologi Rekayasa Logistik

Judul : Analisis *Forecasting Demand* pada *Commodity GET PN 4T2236 Cutting Edge* dengan Metode Analisis *Time Series* terhadap Pengendalian Persediaan di PT. Trakindo Utama Cabang Tanjung Redeb

Berdasarkan hasil *scanning* menunjukkan tingkat plagiasi sebesar **15%** dan memenuhi syarat untuk tahapan selanjutnya dengan ketentuan yang berlaku.

Demikian surat ini dibuat untuk dipergunakan sebagaimana mestinya.

Berau, 05 Juli 2024

Staf Perpustakaan,



Kamelia Saputri

Lampiran 3 Pengajuan TA Pada PT Trakindo Utama



POLITEKNIK SINAR MAS
BERAU COAL

Lampiran 4 Wawancara Bersama *Supervisor Part Operation Dept.*



Lampiran 5 Safety Meeting



Lampiran 6 Unit Populasi Alat Berat

ENG/MAC/LTR Description	PT Description	Model	Qty	Year Made
CAT MACHINE	TRACK TYPE TRACTORS	D8T	1	2022
CAT MACHINE	TRACK TYPE TRACTORS	D8T	1	2022
CAT MACHINE	TRACK TYPE TRACTORS	D8T	1	2022
CAT MACHINE	TRACK TYPE TRACTORS	D9	1	2022
CAT MACHINE	TRACK TYPE TRACTORS	D8T	1	2022
CAT MACHINE	TRACK TYPE TRACTORS	D8T	1	2022
CAT MACHINE	TRACK TYPE TRACTORS	D8T	1	2022
CAT MACHINE	TRACK TYPE TRACTORS	D9	1	2023
CAT MACHINE	TRACK TYPE TRACTORS	D9	1	2023
CAT MACHINE	TRACK TYPE TRACTORS	D9	1	2023
CAT MACHINE	TRACK TYPE TRACTORS	D8	1	2023
CAT MACHINE	TRACK TYPE TRACTORS	D8	1	2023
CAT MACHINE	TRACK TYPE TRACTORS	D8	1	2023
CAT MACHINE	TRACK TYPE TRACTORS	D8	1	2023
CAT MACHINE	TRACK TYPE TRACTORS	D8	1	2023

**POLITEKNIK SINAR MAS
BERAU COAL**

Lampiran 7 Hasil Input & Output Moving Average

FILEEDITVIEWDUMMYMODULEFORMATTOOLSOLUTIONSHelp

NewOpenSavePrintSolveCopyPasteAutosize ColumnsWiden ColumnsFull ScreenInsert Row(s)Insert Column(s)Copy Cell DownCalculatorNormal DistributionCommentSnipCalendarHelp

MyOMLabMyOMMyOMMyOMDecimals0123456Open FilePreviousNext

Table formattingArial10Fix Dec0.0Selected cells formattingBILU

INSTRUCTION: Enter the demand(y) for maret 2022. Any real value is permissible.

Module treeHide Panel

AssignmentBreakeven/Cost-Volume AnalysisDecision AnalysisForecastingGame TheoryGoal ProgrammingInteger & Mixed Integer ProgrammingInventoryLinear ProgrammingMarkov AnalysisMaterial Requirements PlanningNetworksProject Management (PERT/CPM)Quality ControlScoring ModelSimulationStatistics (mean, var, sd; normal dist)TransportationWaiting LinesDisplay OM Modules onlyDisplay QM Modules onlyDisplay ALL Modules

MethodMoving Averages# Periods to average3Commentyada yada

	Demand(y)
1000	
Januari 2022	8
Februari 2022	14
Maret 2022	12
April 2022	16
Mei 2022	24
Juni 2022	16
Juli 2022	12
Austus 2022	14
September 2022	18
Oktober 2022	18
November 2022	4
Desember 2022	20
Januari 2023	12
Februari 2023	20
Maret 2023	16
April 2023	20
Mei 2023	14

FILEEDITVIEWDUMMYMODULEFORMATTOOLSOLUTIONSHelpEDIT DATA

NewOpenSavePrintEdit DataCopyPasteAutosize ColumnsWiden ColumnsFull ScreenInsert Row(s)Insert Column(s)Copy Cell DownCalculatorNormal DistributionCommentSnipCalendarHelp

MyOMLabMyOMMyOMMyOMDecimals0123456Open FilePreviousNext

Table formattingArial10Fix Dec0.0Selected cells formattingBILU

INSTRUCTION: There are more results available in additional windows. These may be opened by using the SOLUTIONS menu in the Main Menu.

Module treeHide Panel

AssignmentBreakeven/Cost-Volume AnalysisDecision AnalysisForecastingGame TheoryGoal ProgrammingInteger & Mixed Integer ProgrammingInventoryLinear ProgrammingMarkov AnalysisMaterial Requirements PlanningNetworksProject Management (PERT/CPM)Quality ControlScoring ModelSimulationStatistics (mean, var, sd; normal dist)TransportationWaiting LinesDisplay OM Modules onlyDisplay QM Modules onlyDisplay ALL Modules

MethodMoving Averages# Periods to average3Commentyada yada

Forecasting/Time Series Analysis Results1000 Solution

Measure	Value
Error Measures	
Bias (Mean Error)	1,067
MAD (Mean Absolute Deviation)	5,333
MSE (Mean Squared Error)	38,163
Standard Error (denom=n-2=13)	6,636
MAPE (Mean Absolute Percent Error)	46,544%
Forecast	
next period	19,333

Details and Error AnalysisErrors as a function of nControl (Tracking Signal)Graph

FILEEDITVIEWDUMMYMODULEFORMATTOOLSSOLUTIONSHelpEDIT DATA

NewOpenSavePrint

Edit Data

CopyPaste

Autosize ColumnsWiden ColumnsFull Screen

Insert Row(s)Insert Column(s)Copy Cell Down

CalculatorNormal Distribution

Comment

SnipCalendar

Help

MyOMLabMyOMMyOM

Paste FromCopy CellPaste/Copy HelpWeb Site

Decimals0123456

Open FilePreviousNext

Table formattingArial10Fix Dec0.0Selected cells formatting

INSTRUCTION: There are more results available in additional windows. These may be opened by using the SOLUTIONS menu in the Main Menu.

Module treeHide Panel

Assignment

- Break-even/ Cost-Volume Analysis
- Decision Analysis
- Forecasting
 - Game Theory
 - Goal Programming
 - Integer & Mixed Integer Programming
- Inventory
 - Linear Programming
 - Markov Analysis
 - Material Requirements Planning
- Networks
 - Project Management (PERT/CPM)
- Quality Control
- Scoring Model
- Simulation
- Statistics (mean, var, sd, normal dist)
- Transportation
- Waiting Lines
 - Display OM Modules only
 - Display QM Modules only
 - Display ALL Modules

Method# Periods to averageComment

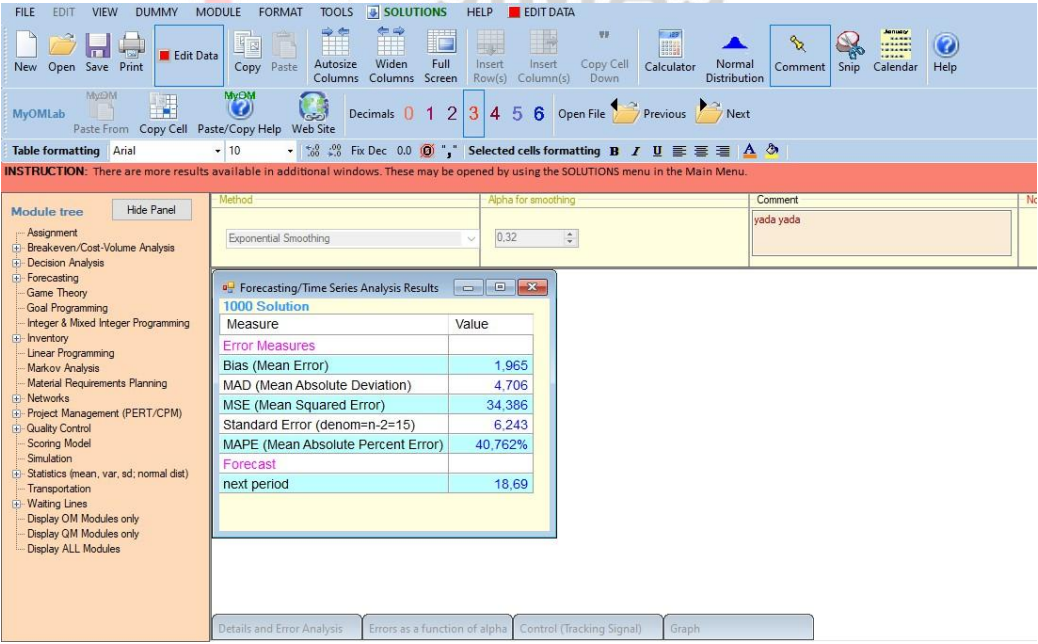
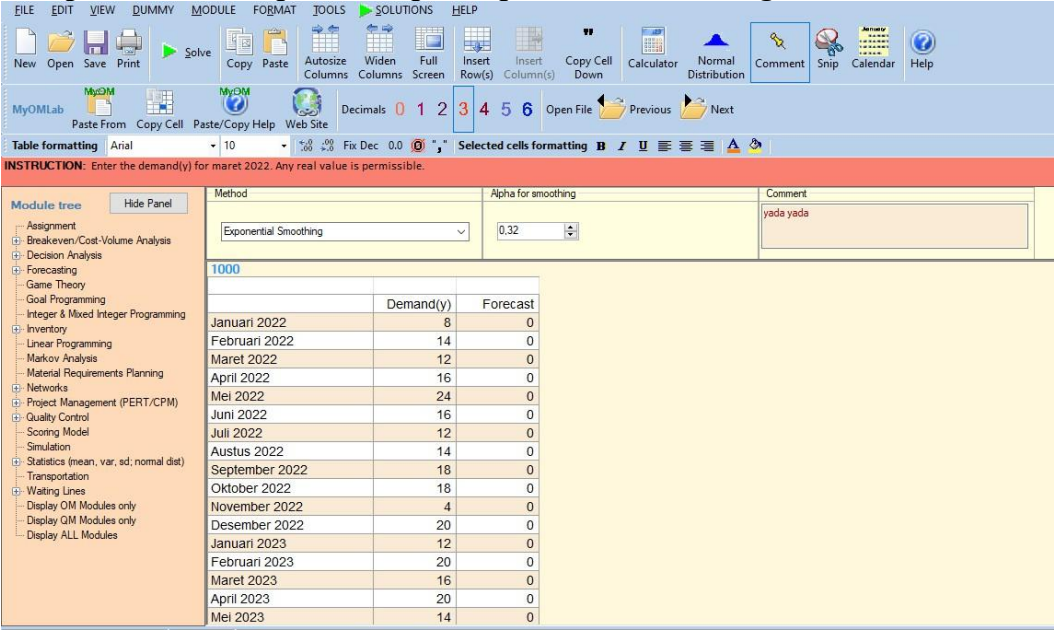
Moving Averages3yada yada

1000 Solution

	Demand(y)	Forecast	Error	Error	Error^2	Pct Error
Mei 2022	24	14	10	10	100	41.667%
Juni 2022	16	17.333	-1.333	1.333	1.778	8.333%
Juli 2022	12	18.667	-6.667	6.667	44.444	55.556%
Austus 2022	14	17.333	-3.333	3.333	11.111	23.81%
September 2022	18	14	4	4	16	22.222%
Oktober 2022	18	14.667	3.333	3.333	11.111	18.519%
November 2022	4	16.667	-12.667	12.667	160.444	316.667%
Desember 2022	20	13.333	6.667	6.667	44.444	33.333%
Januari 2023	12	14	-2	2	4	16.667%
Februari 2023	20	12	8	8	64	40%
Maret 2023	16	17.333	-1.333	1.333	1.778	8.333%
April 2023	20	16	4	4	16	20%
Mei 2023	14	18.667	-4.667	4.667	21.778	33.333%
Juni 2023	24	16.667	7.333	7.333	53.778	30.556%
TOTALS	282		16	80	572.444	698.161%
AVERAGE	15.667		1.067	5.333	38.163	46.544%
Next period forecast		19.333	(Bias)	(MAD)	(MSE)	(MAPE)



Lampiran 8 Hasil Input & Output Exponential Smoothing



FILE EDIT VIEW DUMMY MODULE FORMAT TOOLS SOLUTIONS HELP EDIT DATA

New Open Save Print Edit Data Copy Paste Autosize Columns Widen Columns Full Screen Insert Row(s) Insert Column(s) Copy Cell Down Calculator Normal Distribution Comment Snip Calendar Help

MyOMLab Paste From Copy Cell Paste/Copy Help Web Site Decimals 0 1 2 3 4 5 6 Open File Previous Next

Table formatting Arial 10 Fixed Dec 0.0 Selected cells formatting B I U

INSTRUCTION: There are more results available in additional windows. These may be opened by using the SOLUTIONS menu in the Main Menu.

Module tree Hide Panel

- Assignment
- Breakeven/Cost-Volume Analysis
- Decision Analysis
- Forecasting
- Game Theory
- Goal Programming
- Integer & Mixed Integer Programming
- Inventory
- Linear Programming
- Markov Analysis
- Material Requirements Planning
- Networks
- Project Management (PERT/CPM)
- Quality Control
- Scoring Model
- Simulation
- Statistics (mean, var, sd, normal dist)
- Transportation
- Waiting Lines
- Display OM Modules only
- Display QM Modules only
- Display ALL Modules

Method Alpha for smoothing Comment

Exponential Smoothing 0.32 yada yada

1000 Solution

	Demand(y)	Forecast	Error	Error	Error*2	Pct Error
Mei 2022	24	12.318	11.682	11.682	136.464	48.674%
Juni 2022	16	16.056	-.056	.056	.003	.352%
Juli 2022	12	16.038	-4.038	4.038	16.308	33.653%
Austus 2022	14	14.746	-.746	.746	.557	5.329%
September 2022	18	14.507	3.493	3.493	12.199	19.404%
Oktober 2022	18	15.625	2.375	2.375	5.641	13.195%
November 2022	4	16.385	-12.385	12.385	153.388	309.625%
Desember 2022	20	12.422	7.578	7.578	57.429	37.891%
Januari 2023	12	14.847	-2.847	2.847	8.104	23.723%
Februari 2023	20	13.936	6.064	6.064	36.774	30.321%
Maret 2023	16	15.876	-.124	.124	.015	.773%
April 2023	20	15.916	4.084	4.084	16.68	20.42%
Mei 2023	14	17.223	-3.223	3.223	10.387	23.02%
Juni 2023	24	16.192	7.808	7.808	60.972	32.535%
TOTALS	282		33.407	79.998	584.563	692.946%
AVERAGE	15.667		1.965	4.706	34.386	40.762%
Next period forecast		18.69	(Bias)	(MAD)	(MSE)	(MAPE)

POLITEKNIK SINAR MAS
BERAU COAL

Lampiran 9 Hasil Input & Output Naive

QM for Windows - C:\Users\asus\Downloads\Cutting EdgeFIX for - [Data]

FILE EDIT VIEW DUMMY MODULE FORMAT TOOLS SOLUTIONS HELP

New Open Save Print Solve Copy Paste Autosize Columns Widen Columns Full Screen Insert Row(s) Insert Column(s) Copy Cell Down Calculator Normal Distribution Comment Snip Calendar Help

MyOMLab Paste From Copy Cell Paste/Copy Help Web Site Decimals 0 1 2 3 4 5 6 Open File Previous Next

Table formatting Arial 10 Fix Dec 0.0 " , " Selected cells formatting B I U

INSTRUCTION: Enter the demand(y) for maret 2022. Any real value is permissible.

Module tree Hide Panel

- Assignment
- Breakeven/Cost-Volume Analysis
- Decision Analysis
- Forecasting
- Game Theory
- Goal Programming
- Integer & Mixed Integer Programming
- Inventory
- Linear Programming
- Markov Analysis
- Material Requirements Planning
- Networks
- Project Management (PERT/CPM)
- Quality Control
- Scoring Model
- Simulation
- Statistics (mean, var, sd; normal dist)
- Transportation
- Waiting Lines
- Display OM Modules only
- Display QM Modules only
- Display ALL Modules

Method

Naive Method

Comment

yada yada

1000

	Demand(y)
Januari 2022	8
Februari 2022	14
Maret 2022	12
April 2022	16
Mei 2022	24
Juni 2022	16
Juli 2022	12
Austus 2022	14
September 2022	18
Oktober 2022	18
November 2022	4
Desember 2022	20
Januari 2023	12
Februari 2023	20
Maret 2023	16
April 2023	20
Mei 2023	14

FILE EDIT VIEW DUMMY MODULE FORMAT TOOLS SOLUTIONS HELP EDIT DATA

New Open Save Print Edit Data Copy Paste Autosize Columns Widen Columns Full Screen Insert Row(s) Insert Column(s) Copy Cell Down Calculator Normal Distribution Comment Snip Calendar Help

MyOMLab Paste From Copy Cell Paste/Copy Help Web Site Decimals 0 1 2 3 4 5 6 Open File Previous Next

Table formatting Arial 10 Fix Dec 0.0 " , " Selected cells formatting B I U

INSTRUCTION: There are more results available in additional windows. These may be opened by using the SOLUTIONS menu in the Main Menu.

Module tree Hide Panel

- Assignment
- Breakeven/Cost-Volume Analysis
- Decision Analysis
- Forecasting
- Game Theory
- Goal Programming
- Integer & Mixed Integer Programming
- Inventory
- Linear Programming
- Markov Analysis
- Material Requirements Planning
- Networks
- Project Management (PERT/CPM)
- Quality Control
- Scoring Model
- Simulation
- Statistics (mean, var, sd; normal dist)
- Transportation
- Waiting Lines
- Display OM Modules only
- Display QM Modules only
- Display ALL Modules

Method

Naive Method

Comment

yada yada

Forecasting/Time Series Analysis Results

1000 Solution

Measure	Value
Error Measures	
Bias (Mean Error)	.941
MAD (Mean Absolute Deviation)	6.353
MSE (Mean Squared Error)	56.941
Standard Error (denom=n-2=15)	8.033
MAPE (Mean Absolute Percent Error)	53.17%
Forecast	
next period	24

Details and Error Analysis Control (Tracking Signal) Graph

FILEEDITVIEWDUMMYMODULEFORMATTOOLSOLUTIONSHELPEDIT DATA

NewOpenSavePrintEdit Data

CopyPaste

Autosize ColumnsWiden ColumnsFull Screen

Insert Row(s)Insert Column(s)Copy Cell Down

CalculatorNormal Distribution

CommentSnipCalendarHelp

MyOMLabMyOMWeb SiteDecimals0123456Open FilePreviousNext

Table formattingArial10Fix Dec0.0Selected cells formattingBILU

INSTRUCTION: There are more results available in additional windows. These may be opened by using the SOLUTIONS menu in the Main Menu.

Module treeHide Panel

Assignment

- Break-even/Cost-Volume Analysis
- Decision Analysis
- Forecasting
- Game Theory
- Goal Programming
- Integer & Mixed Integer Programming
- Inventory
- Linear Programming
- Markov Analysis
- Material Requirements Planning
- Networks
- Project Management (PERT/CPM)
- Quality Control
- Scoring Model
- Simulation
- Statistics (mean, var, sd; normal dist)
- Transportation
- Waiting Lines
- Display OM Modules only
- Display QM Modules only
- Display ALL Modules

Method

Naive Method

Comment

yada yada

1000 Solution

	Demand(y)	Forecast	Error	Error	Error^2	Pct Error
Mei 2022	24	16	8	8	64	33.333%
Juni 2022	16	24	-8	8	64	50%
Juli 2022	12	16	-4	4	16	33.333%
Austus 2022	14	12	2	2	4	14.286%
September 2022	18	14	4	4	16	22.222%
Oktober 2022	18	18	0	0	0	0%
November 2022	4	18	-14	14	196	350%
Desember 2022	20	4	16	16	256	80%
Januari 2023	12	20	-8	8	64	66.667%
Februari 2023	20	12	8	8	64	40%
Maret 2023	16	20	-4	4	16	25%
April 2023	20	16	4	4	16	20%
Mei 2023	14	20	-6	6	36	42.857%
Juni 2023	24	14	10	10	100	41.667%
TOTALS	282		16	108	968	903.889%
AVERAGE	15.667		.941	6.353	56.941	53.17%
Next period forecast		24	(Bias)	(MAD)	(MSE)	(MAPE)

Lampiran 10 *Sparepart Cutting Edge*





SURAT BEBAS PLAGIASI

Dengan ini diterangkan bahwa TA/Skripsi yang ditulis oleh:

Nama : Angelia Nikita Michele Lie

NIM : 20401017

Prodi : Teknologi Rekayasa Logistik

Judul : Analisis *Forecasting Demand* pada *Commodity* GET PN 4T2236 *Cutting Edge*
dengan Metode Analisis *Time Series* terhadap Pengendalian Persediaan di
PT. Trakindo Utama Cabang Tanjung Redeb

Berdasarkan hasil *scanning* menunjukkan tingkat plagiasi sebesar 15% dan memenuhi syarat untuk tahapan selanjutnya dengan ketentuan yang berlaku.

Demikian surat ini dibuat untuk dipergunakan sebagaimana mestinya.

Berau, 05 Juli 2024

Staf Perpustakaan,



BIODATA PENULIS



Penulis bernama lengkap Angelia Nikita Michele Lie, dilahirkan di Berau, 20 Januari 2003. Penulis merupakan anak ketiga dari tiga bersaudara. Penulis telah menempuh pendidikan formal di SDN 007 Tanjung Redeb, SMPN 001 Tanjung Redeb, dan SMKN 01 Berau. Penulis meneruskan pendidikan di Program Studi Teknologi Rekayasa Logistik pada tahun 2020 dan terdaftar dengan NIM 20401017. Dalam masa perkuliahan, penulis aktif di berbagai bidang non-akademik. Penulis aktif mengikuti organisasi mahasiswa antara lain menjadi Staff Departemen UKM (Unit Kegiatan Mahasiswa) Politeknik Sinar Mas Berau Coal periode 2021/2022. Penulis juga aktif di berbagai kegiatan kepanitiaan, salah satunya menjadi anggota pada program P2K (Program Pengenalan Kampus) tahun 2022. Penulis melaksanakan kegiatan KPI (Kuliah Praktik Industri) di PT Berau Coal di departemen *Compliance* selama 3 bulan. Lalu pada tahun 2023 penulis menjalankan kegiatan Prakerin (Praktik Kerja Industri) selama 7 bulan di PT Trakindo Utama cabang Tanjung Redeb. Pada semester akhir perkuliahan, penulis menyusun skripsi dengan judul “***Analisis Forecasting Demand Pada Commodity GET PN 4T2236 Cutting edge dengan Metode Analisis Time series Terhadap Pengendalian Persediaan di PT Trakindo Utama Cabang Tanjung Redeb***”. Untuk keperluan penelitian, penulis dapat dihubungi melalui e-mail: angelialie494@gmail.com.

POLITEKNIK SINAR MAS
BERAU COAL