

DAFTAR PUSTAKA

- Ariyani, E., & Panjaitan, S. M. (2020). Analisis Pengendalian Persediaan Bahan Baku Kain Dengan Metode Analisis *Always Better Control* (ABC) Dan Algoritma Wagner Within Di Pt. XYZ. *Journal Of Industrial Engineering And Management* , 25-36.
- Asfari, A. N., & Yuniar, S. S. (2021). Usulan Pemesanan Bahan Baku Dengan Menggunakan Teknik *Lot Sizing Silver Meal* Dan Algoritma Wagner-Whitin. *Diseminasi Ft*, 1-11.
- Auliasari, K., Kertaningtyas, M., & Kriswantono, M. (2019). Penerapan Metode Peramalan Untuk Identifikasi Potensi Permintaan Konsumen. *Informatics Journal*, 121-129.
- Daud, M. N. (2017). Analisis Pengendalian Persediaan Bahan Baku Produksi Roti Wilton Kuala Simpang. *Jurnal Samudra Ekonomi Dan Bisnis*, 184-198.
- Dwiputranti, M. I., & Gandara, N. U. (2021). Penerapan Model Silver Meal Heuristik Untuk Optimalisasi Persediaan Beras Di Bulog Sub Divre Ciamis . *Jurnal Logistik Bisnis*, 19-24.
- Fitri, Satya, R. R., & Hunusalela, Z. F. (2021). Analisis Pengendalian Persediaan Komoditas Sayu Rorganik Untuk Efisiensi Biaya Persediaan Dengan Menggunakan Wagner-Within Algorithm Dan Heuristic Silver-Meal Method Pada Pt Masada Organik Indonesia. *Jurnal Teknik Industri*, 235-242.

- Hardianto, H. (2020). Analisis Pemilihan Metode *Material Requirement Planning* Berbasis *Lot Sizing* Untuk Meminimasi Biaya Pengendalian Persediaan Bahan Baku Di Pt. X. *Thesis*.
- Hikmah, N. M., & Rini, M. W. (2020). Pengendalian Persediaan Produk Oli Dengan Menggunakan Metode Persediaan Deterministik Dinamis Pada Perusahaan Distributor Pelumas. *Prosiding Seminar Nasional Manajemen Industri Dan Rantai Pasok*, 185-192.
- Indah, D. R., Purwasih, L., & Maulida, Z. (2018). Pengendalian Persediaan Bahan Baku Pada PT. Aceh Rubber Industries Kabupaten Aceh Tamiang. *Jurnal Manajemen Dan Keuangan*, 157-173.
- Irawan, P. A., & Syaichu, A. (2016). Pengendalian Persediaan Bahan Baku Dengan Metodematerial Requirement Planning (Mrp) Pada PT. Semen Indonesia (Persero),Tbk. *Journal Knowledge Industrial Engineering (Jkie)*, 15-22.
- Lahu, E. P., & Sumarauw, J. S. (2017). Analisis Pengendalian Persediaan Bahan Baku Guna Meminimalkan Biaya Persediaan Pada *Dunkin Donuts* Manado. *Jurnal Emba*, 4175-4184.
- Lusiana, A., & Yuliarty, P. (2020). Penerapan Metode Peramalan (*Forecasting*) Pada Permintaan Atap Di Pt X. *Jurnal Teknik Industri Itn Malang*, 11-20.
- Martha, S. P. (2018). Analisis *Material Requirement Planning* Produk *Coconut Sugar* Pada Kul-Kul Farm. *E- Jurnal Manajemen Universitas Udayana*.
- Maury, J., Dundu, A. K., & Arsjad, T. T. (2018). Perencanaan Biaya Berdasarkan Jumlah Dan Waktu Pemesanan Dengan Metode Mrp (Material Requirement Planning). *Jurnal Sipil Statik*, 6 No. 10, 861-866.

- Prima, D. S., Setyanto, N. W., & Tantrika, C. F. (2014). Penerapan Sistem MRP Untuk Pengendalian Persediaan Bahan Baku Animal Feedmill Dengan *Lot Sizing* Berdasarkan Algoritma Wagner-Within Dan Silver-Meal (Studikasu: Pt. Sierad Produce, Tbk.). *Jurnal Rekayasa Dan Manajemen Sistem Industri*, 896-906.
- Rachman, R. (2018). Penerapan Metode *Moving Average* Dan *Exponential Smoothing* Pada Peramalan Produksi Industri Garment. *Jurnal Informatika*, 211-220.
- Sari, B. N., Komarudin, O., Padilah, T. N., & Nurhusaeni, M. (2018). Bill Of Material (Bom) Pada Sistem Inventori Kawasan Berikat Untuk Pelacakan Material Movement. *Ilkom Jurnal Ilmiah*, 323-330.
- Sinaga, D., Fernando, Silalahi, N., Pangaribuan, R. U., & Simangunsong, W. (2020). *Material Requirement Planning* (MRP) Dalam Proses Perencanaan Dan Pengendalian Produksi Pembuatan Ragum. *Talenta Conference Series: Energy & Engineering*, 169-178.
- Sulaiman, F., & Nanda. (2015). Pengendalian Persediaan Bahan Baku Dengan Menggunakan Metode Eoq Pada Ud. Adi Mabel. *Jurnal Teknovasi*, 1-11.
- Tamodia, W. (2013). Evaluasi Penerapan Sistem Pengendalian Intern Untuk Persediaan Barang Dagangan Pada Pt. Laris Manis Utama Cabang Manado. *Jurnal Emba, 1 No. 3*, 20-20.
- Thesman, S. (2013). Aplikasi Metode Wagner-Whitin Algorithm Pada Sediaan Kaos Oblong Colbus Warna Gelap Ukuran M Di Ud. Anugerah Surabaya . *Jurnal Ilmiah Mahasiswa Universitas Surabaya*, 1-19.

- Usman, R. A. (2020). Usulan Perencanaan Dan Pengendalian Material Pada Plat Aluminium Circle Dengan Metode Aww Di Pt X. *Scientifict Journal Of Industrial Engineering*, 13-17.
- Wijaya, D., Mandey, S., & Sumarauw, J. S. (2016). Analisis Pengendalian Persediaan Bahan Baku Ikan Pada Pt. Celebes Minapratama Bitung. *Jurnal Emba*, 578-591.
- Wijaya, M. M., Saerang, D. P., & Kalalo, M. Y. (2018). Analisis Biaya Persediaan Bahan Baku Ikan Dan Perhitungan *Economic Order Quantity* (EOQ) Pada Rumah Makan Ikan Bakar Kinamang. *Jurnal Riset Akuntansi Going Concern*, 290-299.
- Wohos, I. P., Mandagi, R. J., & Walangitan, D. R. (2014). Pengendalian Material Proyek Dengan Metode *Material Requirement Planning* Pada Pembangunan Star Square Manado. *Tekno Sipil*, 25-34.



LAMPIRAN

Hasil *Offsetting Fabric* Celana Kain menggunakan metode *Silver Meal*

| Silver Meal | Periode | | | | | | | | | | | | Total |
|-------------|---------|--------|----------|--------|---------|--------|----------|---------|---------|--------|----------|--------|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| GR | 6141.1 | 6094.6 | 5711.75 | 4739.9 | 5195.6 | 7195.1 | 6857.2 | 7119.15 | 7421.4 | 7232.3 | 6337.95 | 5902.4 | 75948.45 |
| OH | 6094.6 | 0 | 4739.9 | 0 | 7195.1 | 0 | 7119.15 | 0 | 7232.3 | 0 | 5902.4 | 0 | 38283.45 |
| NR | 6141.1 | 0 | 5711.75 | 0 | 5195.6 | 0 | 6857.2 | 0 | 7421.4 | 0 | 6337.95 | 0 | 37665 |
| POREC | 12235.7 | 0 | 10451.65 | 0 | 12390.7 | 0 | 13976.35 | 0 | 14653.7 | 0 | 12240.35 | 0 | 75948.45 |
| POREL | 12235.7 | 0 | 10451.65 | 0 | 12390.7 | 0 | 13976.35 | 0 | 14653.7 | 0 | 12240.35 | 0 | 75948.45 |

Hasil *Offsetting Benang* Celana Kain menggunakan metode *Silver Meal*

| Silver Meal | Periode | | | | | | | | | | | | Total |
|-------------|---------|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| GR | 107 | 106 | 99 | 82 | 90 | 125 | 119 | 123 | 129 | 125 | 110 | 102 | 1317 |
| OH | 377 | 271 | 172 | 90 | 0 | 371 | 252 | 129 | 0 | 212 | 102 | 0 | 1976 |
| NR | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 125 | 110 | 102 | 444 |
| POREC | 484 | 0 | 0 | 0 | 0 | 496 | 0 | 0 | 0 | 337 | 0 | 0 | 1317 |
| POREL | 484 | 0 | 0 | 0 | 0 | 496 | 0 | 0 | 0 | 337 | 0 | 0 | 1317 |

Hasil *Offsetting Zipper* Celana Kain menggunakan metode *Silver Meal*

| Silver Meal | Periode | | | | | | | | | | | | Total |
|-------------|---------|-----|-----|----|----|----|-----|-----|-----|----|----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| GR | 40 | 40 | 37 | 31 | 34 | 47 | 45 | 46 | 48 | 47 | 41 | 39 | 495 |
| OH | 189 | 149 | 112 | 81 | 47 | 0 | 221 | 175 | 127 | 80 | 39 | 0 | 1220 |
| NR | 40 | 40 | 37 | 31 | 34 | 0 | 45 | 46 | 48 | 47 | 41 | 39 | 448 |
| POREC | 229 | 0 | 0 | 0 | 0 | 0 | 266 | 0 | 95 | 0 | 41 | 39 | 670 |
| POREL | 229 | 0 | 0 | 0 | 0 | 0 | 266 | 0 | 95 | 0 | 41 | 39 | 670 |

Hasil Offsetting Fabric Celana Jeans menggunakan metode Silver Meal

| | Periode | | | | | | | | | | | | Total |
|---------------------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| Fabric Celana Jeans | | | | | | | | | | | | | |
| Silver Meal | | | | | | | | | | | | | |
| GR | 2898.5 | 3425.5 | 2676.85 | 2273.85 | 2455.2 | 2104.9 | 2529.6 | 2430.4 | 2255.25 | 2112.65 | 2191.7 | 2506.35 | 29860.75 |
| OH | 6102.35 | 2676.85 | 0 | 4560.1 | 2104.9 | 0 | 4685.65 | 2255.25 | 0 | 4698.05 | 2506.35 | 0 | 29589.5 |
| NR | 2898.5 | 3425.5 | 2676.85 | 2273.85 | 2455.2 | 2104.9 | 2529.6 | 2430.4 | 2255.25 | 2112.65 | 2191.7 | 2506.35 | 29860.75 |
| POREC | 9000.85 | 0 | 0 | 6833.95 | 0 | 0 | 7215.25 | 0 | 0 | 6810.7 | 0 | 0 | 29860.75 |
| POREL | 9000.85 | 0 | 0 | 6833.95 | 0 | 0 | 7215.25 | 0 | 0 | 6810.7 | 0 | 0 | 29860.75 |

Hasil Offsetting Benang Celana Jeans menggunakan metode Silver Meal

| | Periode | | | | | | | | | | | | Total |
|---------------------|---------|-----|-----|-----|----|----|----|-----|-----|----|----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| Benang Celana Jeans | | | | | | | | | | | | | |
| Silver Meal | | | | | | | | | | | | | |
| GR | 52 | 61 | 48 | 41 | 44 | 38 | 45 | 44 | 41 | 38 | 39 | 45 | 536 |
| OH | 277 | 216 | 168 | 127 | 83 | 45 | 0 | 163 | 122 | 84 | 45 | 0 | 1330 |
| NR | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 41 | 38 | 39 | 45 | 259 |
| POREC | 329 | 0 | 0 | 0 | 0 | 0 | 0 | 207 | 0 | 0 | 0 | 0 | 536 |
| POREL | 329 | 0 | 0 | 0 | 0 | 0 | 0 | 207 | 0 | 0 | 0 | 0 | 536 |

Hasil Offsetting Zipper Celana Jeans menggunakan metode Silver Meal

| | Periode | | | | | | | | | | | | Total |
|---------------------|---------|-----|-----|-----|----|----|----|----|----|----|----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| Zipper Celana Jeans | | | | | | | | | | | | | |
| Silver Meal | | | | | | | | | | | | | |
| GR | 19 | 23 | 18 | 15 | 16 | 14 | 17 | 16 | 15 | 14 | 15 | 17 | 199 |
| OH | 163 | 140 | 122 | 107 | 91 | 77 | 60 | 44 | 29 | 15 | 0 | 0 | 848 |
| NR | 19 | 0 | 0 | 0 | 0 | 0 | 17 | 16 | 15 | 14 | 0 | 17 | 98 |
| POREC | 182 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 199 |
| POREL | 182 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 199 |

Hasil *Offsetting Fabric* Celana Kain menggunakan metode *Algorithm Wagner*

Whitin

| Fabric Celana Kain | | Periode | | | | | | | | | | | | Total | Zipper |
|--------------------|---------|---------|---------|--------|--------|---------|--------|---------|----------|----------|---------|---------|---------|-------|--------|
| AWW | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | AWW |
| GR | 6141.1 | 6094.6 | 5711.75 | 4739.9 | 5195.6 | 7195.1 | 6857.2 | 7119.15 | 7421.4 | 7232.3 | 6337.95 | 5902.4 | 75948.5 | GR | |
| OH | 6094.6 | 0 | 0 | 5195.6 | 0 | 6857.2 | 0 | 0 | 12240.35 | 5902.4 | 0 | 36290.2 | OH | | |
| NR | 6141.1 | 0 | 5711.75 | 0 | 0 | 0 | 0 | 0 | 7421.4 | 0 | 6337.95 | 0 | 25612.2 | NR | |
| POREC | 12235.7 | 0 | 5711.75 | 9935.5 | 0 | 14052.3 | 0 | 7119.15 | 7421.4 | 19472.65 | 0 | 0 | 75948.5 | POREC | |
| POREL | 12235.7 | 0 | 5711.75 | 9935.5 | 0 | 14052.3 | 0 | 7119.15 | 7421.4 | 19472.65 | 0 | 0 | 75948.5 | POREL | |

Hasil *Offsetting Benang* Celana Kain menggunakan metode *Algorithm Wagner*

Whitin

| Benang Celana Kain | | Periode | | | | | | | | | | | | Total |
|--------------------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| AWW | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| GR | 107 | 106 | 99 | 82 | 90 | 125 | 119 | 123 | 129 | 125 | 110 | 102 | 1317 | GR |
| OH | 998 | 892 | 793 | 711 | 621 | 496 | 377 | 254 | 125 | 0 | 0 | 0 | 5267 | OH |
| NR | 107 | 106 | 99 | 82 | 90 | 125 | 119 | 123 | 129 | 125 | 110 | 102 | 1317 | NR |
| POREC | 1105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 102 | 1317 | POREC |
| POREL | 1105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 102 | 1317 | POREL |

Hasil *Offsetting Zipper* Celana Kain menggunakan metode *Algorithm Wagner*

Whitin

| Zipper Celana Kain | | Periode | | | | | | | | | | | | Total | Benang Celana |
|--------------------|-------|---------|-----|-----|----|----|-----|----|----|----|----|----|----|-------|---------------|
| Total | AWW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Total | AWW |
| 75948.5 | GR | 40 | 40 | 37 | 31 | 34 | 47 | 45 | 46 | 48 | 47 | 41 | 39 | 495 | GR |
| 36290.2 | OH | 189 | 149 | 112 | 81 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 578 | OH |
| 25612.2 | NR | 40 | 40 | 37 | 31 | 34 | 125 | 45 | 46 | 48 | 47 | 0 | 39 | 532 | NR |
| 75948.5 | POREC | 229 | 0 | 0 | 0 | 0 | 0 | 45 | 46 | 48 | 47 | 41 | 39 | 495 | POREC |
| 75948.5 | POREL | 229 | 0 | 0 | 0 | 0 | 0 | 45 | 46 | 48 | 47 | 41 | 39 | 495 | POREL |

Hasil *Offsetting Fabric Celana Jeans* menggunakan metode *Algorithm Wagner*

Whitin

| Fabric Celana Jeans | | Periode | | | | | | | | | | | | Total |
|---------------------|---------|---------|---------|---------|--------|--------|--------|--------|---------|---------|--------|---------|---------|-------|
| AWW | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| GR | 2898.5 | 3425.5 | 2676.85 | 2273.85 | 2455.2 | 2104.9 | 2529.6 | 2430.4 | 2255.25 | 2112.65 | 2191.7 | 2506.35 | 29860.8 | |
| OH | 8376.2 | 4950.7 | 2273.85 | 0 | 2104.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17705.7 | |
| NR | 2898.5 | 3425.5 | 2676.85 | 2273.85 | 2455.2 | 2104.9 | 2529.6 | 2430.4 | 2255.25 | 2112.65 | 2191.7 | 2506.35 | 29860.8 | |
| POREC | 11274.7 | 0 | 0 | 0 | 4560.1 | 0 | 2529.6 | 2430.4 | 2255.25 | 2112.65 | 2191.7 | 2506.35 | 29860.8 | |
| POREL | 11274.7 | 0 | 0 | 0 | 4560.1 | 0 | 2529.6 | 2430.4 | 2255.25 | 2112.65 | 2191.7 | 2506.35 | 29860.8 | |

Hasil *Offsetting Benang Celana Jeans* menggunakan metode *Algorithm Wagner*

Whitin

| Benang Celana Jeans | | Periode | | | | | | | | | | | | Total |
|---------------------|-----|---------|-----|-----|-----|-----|-----|-----|-----|----|----|----|------|-------|
| AWW | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| GR | 52 | 61 | 48 | 41 | 44 | 38 | 45 | 44 | 41 | 38 | 39 | 45 | 536 | |
| OH | 484 | 423 | 375 | 334 | 290 | 252 | 207 | 163 | 122 | 84 | 45 | 0 | 2779 | |
| NR | 52 | 61 | 48 | 41 | 44 | 38 | 45 | 44 | 41 | 38 | 39 | 45 | 536 | |
| POREC | 536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 536 | |
| POREL | 536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 536 | |

Hasil *Offsetting Zipper Celana Jeans* menggunakan metode *Algorithm Wagner*

Whitin

| Zipper Celana Jeans | | Periode | | | | | | | | | | | | Total |
|---------------------|-----|---------|-----|-----|-----|-----|----|----|----|----|----|----|------|-------|
| AWW | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| GR | 19 | 23 | 18 | 15 | 16 | 14 | 17 | 16 | 15 | 14 | 15 | 17 | 199 | |
| OH | 180 | 157 | 139 | 124 | 108 | 94 | 77 | 61 | 46 | 32 | 17 | 0 | 1035 | |
| NR | 19 | 23 | 18 | 15 | 16 | 125 | 17 | 16 | 15 | 14 | 0 | 17 | 295 | |
| POREC | 199 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199 | |
| POREL | 199 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199 | |

Kunjungan ke perusahaan untuk observasi dan pengambilan data



Area produksi bagian penjahitan



Gudang dan tempat relaksasi untuk bahan *fabric*



Bahan baku dan produk

