

BAB VI

KESIMPULAN DAN SARAN

6.1 Kesimpulan

Berdasarkan hasil pembahasan dapat disimpulkan bahwa :

1. Jumlah becak kayuh di kota Yogyakarta adalah 5048 kendaraan dan jumlah becak motor di kota Yogyakarta adalah 1178 kendaraan.
2. Radius pelayanan becak kayuh dan becak motor berkisar 1 sampai dengan 4 kilometer, selain mengantarkan penumpang becak motor juga dapat mengantarkan barang.
3. Hasil analisis regresi proporsi becak kayuh dan becak motor cukup berpengaruh terhadap kecepatan lalu lintas pada lokasi penelitian yaitu Jalan K.H Wahid Hasyim, Jalan Letjen S. Parman dan Jalan Suryowijayan, setiap kenaikan proporsi becak kayuh sebesar 10% hari Rabu, 21 November 2018 pada Jalan Suryowijayan arah utara-selatan pukul 13.00-14.00 WIB dapat menurunkan kecepatan sebesar 4,472 km/jam dan setiap kenaikan proporsi becak motor sebesar 10% pada jalan Suryowijayan hari Rabu 21, November 2018 arah utara-selatan pukul 13.00-14.00 WIB dapat menurunkan kecepatan sebesar 4,326 km/jam.

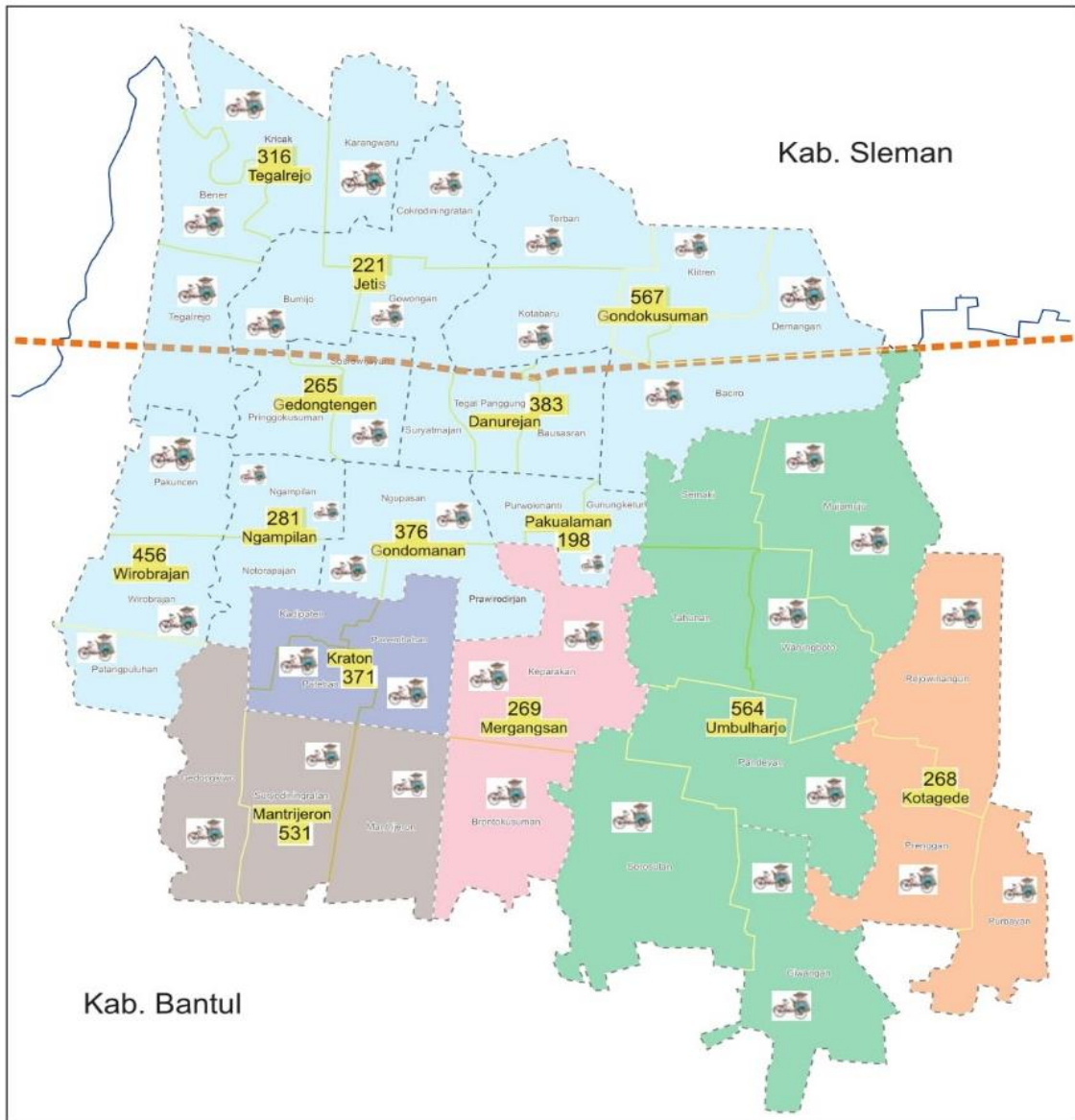
6.2 Saran

Berdasarkan hasil pembahasan, kendaraan becak cukup berpengaruh terhadap kecepatan kendaraan. Perlu dibatasi wilayah operasi kerja kendaraan becak di kota Yogyakarta , agar tidak mempengaruhi kecepatan kendaraan dan juga tidak menghilangkan kendaraan becak sebagai simbol kota Yogyakarta.

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Lampiran 1. Peta Jumlah dan Daerah Sebaran Becak Kayuh di Kota Yogyakarta



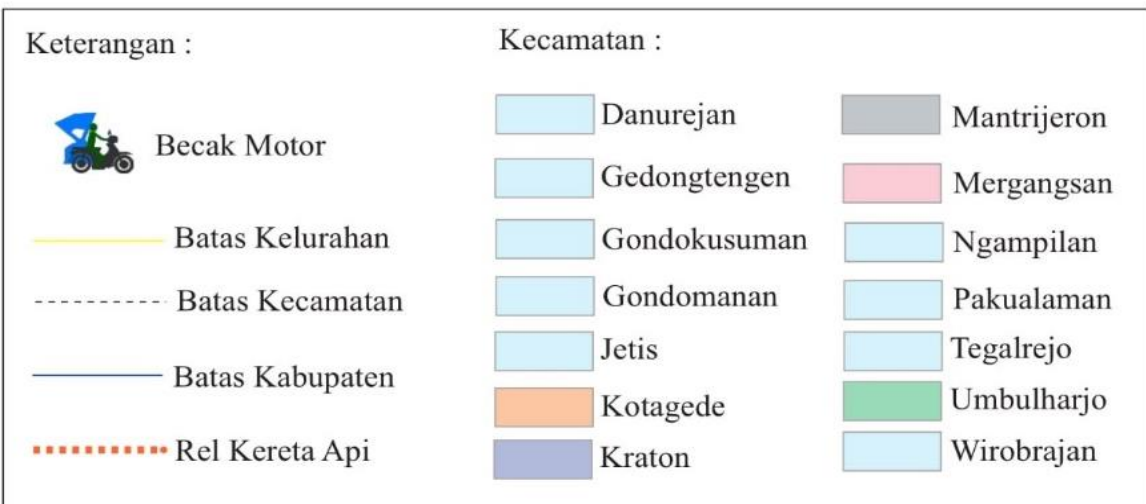
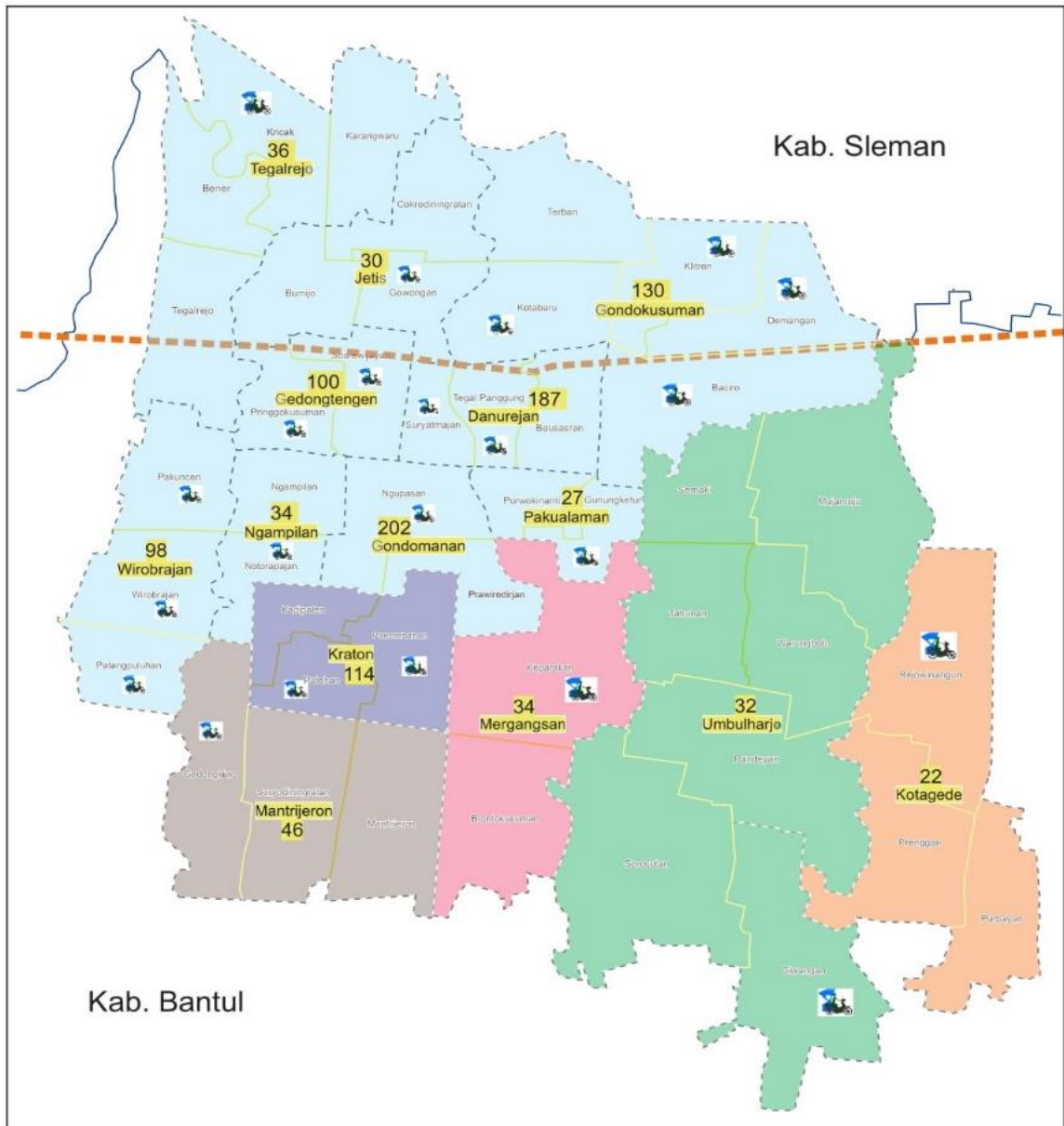
Keterangan :

- Becak Kayuh
- Batas Kelurahan
- Batas Kecamatan
- Batas Kabupaten
- Rel Kereta Api

Kecamatan :

| | |
|--------------|-------------|
| Danurejan | Mantrijeron |
| Gedongtengen | Mergangsan |
| Gondokusuman | Ngampilan |
| Gondomanan | Pakualaman |
| Jetis | Tegalrejo |
| Kotagede | Umbulharjo |
| Kraton | Wirobrajan |

Lampiran 2. Peta Jumlah dan Daerah Sebaran Becak Motor di Kota Yogyakarta



Lampiran 3. Data Hasil Survei Jumlah Becak Motor di Kota Yogyakarta

| Paguyuban | Jumlah Becak Motor |
|--|--------------------|
| Kantor Gubernur D.I Yogyakarta, Kec. Danurejan | 20 |
| DPRD, Kec. Danurejan | 50 |
| Stasiun Lempunyangan, Kec. Danurejan | 64 |
| Jalan Mataram, Kec. Danurejan | 53 |
| Stasiun Tugu, Kec. Gedongtengen | 30 |
| Jalan Malioboro, Kec. Gedongtengen | 70 |
| Terban, Kec. Gondokusuman | 30 |
| Demangan, Kec. Gondokusuman | 26 |
| Klitren, Kec. Gondokusuman | 24 |
| Kota Baru, Kec. Gondokusuman | 20 |
| Baciro, Kec. Gondokusuman | 30 |
| Pasar Beringharjo, Kec. Gondomanan | 50 |
| Museum Benteng Vredeberg, Kec. Gondomanan | 30 |
| Taman Pintar, Kec. Gondomanan | 52 |
| Alun-alun Utara, Kec. Gondomanan | 70 |
| Tugu Yogyakarta, Kec. Jetis | 30 |
| Kampung Wisata Rejowinangun, Kec. Kota Gede | 22 |
| Taman Sari, Kec. Kraton | 20 |
| Keraton, Kec. Kraton | 36 |
| Alun-alun Selatan, Kec. Kraton | 58 |
| Pasar Satwa dan Taman Hias, Kec. Mantrijeron | 46 |
| Keparakan, Kec. Mergangsan | 34 |
| Taman Parkir Ngabean, Kec. Ngampilan | 120 |
| Pasar Sentul, Kec. Pakualaman | 27 |
| Kricak, Kec. Tegalrejo | 36 |
| Terminal Giwangan, Kec. Umbulharjo | 32 |
| Pasar Legi, Kec. Wirobrajan | 40 |
| Pakuncen, Kec. Wirobrajan | 28 |
| Wirobrajan, Kec. Wirobrajan | 30 |

Lampiran 4. Data Jarak Tempuh Becak Kayuh

| No | Lokasi Jemput | Lokasi Tujuan | Jarak (km) |
|----|-----------------------------|-------------------------------|------------|
| 1 | Alun-alun Selatan | Kraton | 1,7 |
| 2 | Kraton | Taman Sari | 1,1 |
| 3 | Mall Malioboro | Alun-alun Utara | 2 |
| 4 | Taman Pintar | Alun-alun Selatan | 2,3 |
| 5 | Stasiun Tugu | Pasar Beriharjo | 1,6 |
| 6 | Mall Malioboro | Alun-alun Selatan | 2,8 |
| 7 | Pasar Demangan | Jalan Samironobaru | 1,3 |
| 8 | Jalan C. Simanjutak | Jalan Medika | 1,2 |
| 9 | Rumah Sakit Panti Rapih | Pasar Terban | 1,1 |
| 10 | Grand Inna Malioboro | Taman Sari | 2,8 |
| 11 | Alun-alun Selatan | Bakpia Pathok 25 | 2,2 |
| 12 | Alun-alun Utara | Gudeg Yu Djum Widjilan | 1,9 |
| 13 | Taman Sari | Galeria Mall | 4,8 |
| 14 | Kraton | Taman Siswa | 2,2 |
| 15 | Taman Pintar | Jalan Gejayan | 4,3 |
| 16 | Pasar Beringharjo | Alun-alun Selatan | 2,4 |
| 17 | Satsiun Lempunyangan | Pasar Demangan | 4,4 |
| 18 | Taman Parkir Ngabean | Malioboro | 3,4 |
| 19 | Malioboro | Jogjatronik | 2,3 |
| 20 | Galeria Mall | Malioboro | 2,3 |
| 21 | Rumah Sakit Panti Rapih | Jalan Gejayan | 2,1 |
| 22 | Pasar Demangan | Jalan Gejayan | 1,2 |
| 23 | Hotel Grand Palace | Taman Sari | 1,8 |
| 24 | Hotel Grage Jogja | Alun-alun Selatan | 1,5 |
| 25 | Hotel Mutiara | Taman Sari | 2,4 |
| 26 | Hotel Phoenix | Bakpia Kukus Tugu Jogja | 1,3 |
| 27 | Hotel Santika Premier Jogja | Malioboro | 1,9 |
| 28 | Alun-alun Selatan | Stasiun Lempuyangan | 3,6 |
| 29 | Kraton | Hotel Museum Batik Yogyakarta | 3,9 |
| 30 | Taman Pintar | Bakpia Kukus Tugu Jogja | 3,2 |

Lampiran 5. Data Jarak Tempuh Becak Motor

| No | Lokasi Jemput | Lokasi Tujuan | Jarak (km) |
|----|-----------------------------|----------------------------|------------|
| 1 | Alun-alun Selatan | Kraton | 1,7 |
| 2 | Kraton | Taman Sari | 1,1 |
| 3 | Mall Malioboro | Alun-alun Utara | 2 |
| 4 | Taman Pintar | Alun-alun Selatan | 2,3 |
| 5 | Stasiun Tugu | Pasar Beriharjo | 1,6 |
| 6 | Mall Malioboro | Alun-alun Selatan | 2,8 |
| 7 | Pasar Demangan | Jalan Samironobaru | 1,3 |
| 8 | Jalan C. Simanjutak | Jalan Medika | 1,2 |
| 9 | Rumah Sakit Panti Rapih | Pasar Terban | 1,1 |
| 10 | Malioboro | Taman Sari | 2,5 |
| 11 | Satsiun Lempuyangan | Rumah Sakit Bethesda | 1,2 |
| 12 | Galeria Mall | Hotel The 101 | 1,4 |
| 13 | Hotel Novotel | Taman Sari | 4,6 |
| 14 | Taman Parkir Ngabean | Malioboro | 2 |
| 15 | Terminal Giwangan | Hotel Kayu Manis | 2 |
| 16 | Stasiun Tugu | Kraton | 2,3 |
| 17 | Stasiun Lempuyangan | Pasar Terban | 1,9 |
| 18 | Mirota Kampus Simanjutak | Malioboro | 2,7 |
| 19 | Pasar Terban | Gudeg Yu Djum Stasiun Tugu | 2,9 |
| 20 | Hotel Mutiara Malioboro | Bakpia Kukus Stasiun Tugu | 1,1 |
| 21 | Grand Inna Garuda Malioboro | Taman Pintar | 1,4 |
| 22 | Terminal Giwangan | Taman sari | 3,5 |
| 23 | Kraton | Pasar Satwa dan Taman Hias | 2,7 |
| 24 | Hotel POP Jl. A.M. Sangaji | Kraton | 4,8 |
| 25 | Novotel Yogyakarta | Tugu Jogja | 2,3 |
| 26 | Pasar Terban | Jalan Gejayan | 3,6 |
| 27 | Amabarukkmo Plaza | Galeria Mall | 3,2 |
| 28 | Alun-alun Selatan | Bakpia Kukus Tugu Jogja | 3,5 |
| 29 | Jalan Gejayan | Empire XXI Yogyakarta | 2,7 |
| 30 | Novotel Yogyakarta | Jalan Demangan | 3,4 |

Lampiran 6. Data Proporsi Jumlah Becak dengan Kendaraan Lain

Arah : utara-selatan

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. K.H. Wahid Hasyim

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|--------------------------|--------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 58 | 4 | 186 | 1 | 3 | 4 | 1,17 | 1,56 |
| 08.15-08.30 | 46 | 6 | 194 | 3 | 6 | 3 | 2,33 | 1,16 |
| 08.30-08.45 | 52 | 3 | 203 | 2 | 2 | 3 | 0,75 | 1,13 |
| 08.45-09.00 | 62 | 5 | 211 | 1 | 4 | 2 | 1,40 | 0,70 |
| 13.00-13.15 | 65 | 7 | 245 | 1 | 3 | 6 | 0,92 | 1,83 |
| 13.15-13.30 | 70 | 5 | 241 | 2 | 5 | 3 | 1,53 | 0,92 |
| 13.30-13.45 | 84 | 4 | 264 | 1 | 2 | 5 | 0,56 | 1,39 |
| 13.45-14.00 | 52 | 5 | 243 | 1 | 3 | 4 | 0,97 | 1,30 |
| 17.00-17.15 | 81 | 8 | 232 | 2 | 4 | 5 | 1,20 | 1,51 |
| 17.15-17.30 | 71 | 6 | 289 | 2 | 2 | 2 | 0,54 | 0,54 |
| 17.30-17.45 | 58 | 5 | 242 | 1 | 4 | 3 | 1,28 | 0,96 |
| 17.45-18.00 | 63 | 6 | 198 | 2 | 2 | 2 | 0,73 | 0,73 |

Arah : selatan-utara

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. K.H. Wahid Hasyim

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|--------------------------|--------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 52 | 5 | 212 | 2 | 2 | 3 | 0,72 | 1,09 |
| 08.15-08.30 | 45 | 7 | 198 | 3 | 3 | 5 | 1,15 | 1,92 |
| 08.30-08.45 | 63 | 6 | 185 | 1 | 3 | 4 | 1,15 | 1,53 |
| 08.45-09.00 | 49 | 9 | 202 | 1 | 2 | 2 | 0,75 | 0,75 |
| 13.00-13.15 | 64 | 5 | 196 | 3 | 2 | 5 | 0,73 | 1,82 |
| 13.15-13.30 | 54 | 6 | 189 | 2 | 3 | 4 | 1,16 | 1,55 |
| 13.30-13.45 | 72 | 7 | 213 | 1 | 4 | 4 | 1,33 | 1,33 |
| 13.45-14.00 | 82 | 6 | 205 | 4 | 3 | 5 | 0,98 | 1,64 |
| 17.00-17.15 | 46 | 5 | 267 | 3 | 2 | 3 | 0,61 | 0,92 |
| 17.15-17.30 | 61 | 8 | 241 | 2 | 5 | 6 | 1,55 | 1,86 |
| 17.30-17.45 | 56 | 5 | 178 | 1 | 3 | 4 | 1,21 | 1,62 |
| 17.45-18.00 | 64 | 7 | 296 | 2 | 4 | 5 | 1,06 | 1,32 |

Arah : utara-selatan

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. K.H. Wahid Hasyim

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|-----------------------------|-----------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 52 | 5 | 178 | 1 | 2 | 5 | 0,82 | 2,06 |
| 08.15-08.30 | 48 | 3 | 184 | 2 | 5 | 6 | 2,02 | 2,42 |
| 08.30-08.45 | 42 | 5 | 212 | 1 | 3 | 4 | 1,12 | 1,50 |
| 08.45-09.00 | 51 | 4 | 242 | 3 | 4 | 5 | 1,29 | 1,62 |
| 13.00-13.15 | 68 | 3 | 234 | 1 | 5 | 6 | 1,58 | 1,89 |
| 13.15-13.30 | 56 | 4 | 192 | 2 | 2 | 2 | 0,78 | 0,78 |
| 13.30-13.45 | 65 | 7 | 189 | 1 | 3 | 6 | 1,11 | 2,21 |
| 13.45-14.00 | 53 | 5 | 217 | 2 | 2 | 3 | 0,71 | 1,06 |
| 17.00-17.15 | 73 | 5 | 243 | 1 | 3 | 4 | 0,91 | 1,22 |
| 17.15-17.30 | 38 | 6 | 168 | 4 | 4 | 3 | 1,79 | 1,35 |
| 17.30-17.45 | 54 | 8 | 186 | 1 | 2 | 6 | 0,78 | 2,33 |
| 17.45-18.00 | 49 | 2 | 197 | 3 | 3 | 5 | 1,16 | 1,93 |

Arah : selatan-utara

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. K.H. Wahid Hasyim

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|-----------------------------|-----------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 54 | 6 | 165 | 4 | 4 | 3 | 1,69 | 1,27 |
| 08.15-08.30 | 42 | 7 | 220 | 1 | 5 | 3 | 1,80 | 1,08 |
| 08.30-08.45 | 62 | 4 | 198 | 1 | 6 | 4 | 2,18 | 1,45 |
| 08.45-09.00 | 46 | 5 | 156 | 2 | 5 | 2 | 2,31 | 0,93 |
| 13.00-13.15 | 63 | 9 | 186 | 2 | 4 | 2 | 1,50 | 0,75 |
| 13.15-13.30 | 58 | 6 | 167 | 1 | 3 | 4 | 1,26 | 1,67 |
| 13.30-13.45 | 56 | 6 | 213 | 2 | 4 | 3 | 1,41 | 1,06 |
| 13.45-14.00 | 73 | 4 | 169 | 1 | 5 | 6 | 1,94 | 2,33 |
| 17.00-17.15 | 68 | 5 | 162 | 2 | 4 | 5 | 1,63 | 2,03 |
| 17.15-17.30 | 71 | 7 | 184 | 2 | 3 | 4 | 1,11 | 1,48 |
| 17.30-17.45 | 63 | 3 | 158 | 1 | 2 | 2 | 0,87 | 0,87 |
| 17.45-18.00 | 58 | 6 | 232 | 1 | 5 | 5 | 1,63 | 1,63 |

Arah : barat-timur

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Letjen S. Parman

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|--------------------------|--------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 63 | 5 | 148 | 3 | 6 | 3 | 2,63 | 1,32 |
| 08.15-08.30 | 54 | 6 | 135 | 1 | 2 | 4 | 0,99 | 1,98 |
| 08.30-08.45 | 52 | 4 | 157 | 2 | 4 | 3 | 1,80 | 1,35 |
| 08.45-09.00 | 46 | 4 | 168 | 1 | 3 | 7 | 1,31 | 3,06 |
| 13.00-13.15 | 57 | 4 | 172 | 1 | 4 | 2 | 1,67 | 0,83 |
| 13.15-13.30 | 62 | 6 | 211 | 2 | 2 | 3 | 0,70 | 1,05 |
| 13.30-13.45 | 76 | 3 | 181 | 1 | 1 | 2 | 0,38 | 0,76 |
| 13.45-14.00 | 53 | 7 | 201 | 1 | 2 | 4 | 0,75 | 1,49 |
| 17.00-17.15 | 73 | 5 | 207 | 1 | 3 | 1 | 1,03 | 0,34 |
| 17.15-17.30 | 64 | 4 | 198 | 2 | 4 | 2 | 1,46 | 0,73 |
| 17.30-17.45 | 52 | 6 | 184 | 1 | 2 | 3 | 0,81 | 1,21 |
| 17.45-18.00 | 61 | 3 | 226 | 1 | 5 | 4 | 1,67 | 1,33 |

Arah : timur-barat

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Letjen S. Parman

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|-----------------------------|-----------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 54 | 4 | 165 | 3 | 3 | 4 | 1,29 | 1,72 |
| 08.15-08.30 | 62 | 5 | 171 | 1 | 2 | 2 | 0,82 | 0,82 |
| 08.30-08.45 | 71 | 6 | 156 | 2 | 4 | 4 | 1,65 | 1,65 |
| 08.45-09.00 | 52 | 3 | 149 | 2 | 3 | 5 | 1,40 | 2,34 |
| 13.00-13.15 | 56 | 4 | 183 | 1 | 4 | 3 | 1,59 | 1,20 |
| 13.15-13.30 | 64 | 4 | 168 | 2 | 5 | 2 | 2,04 | 0,82 |
| 13.30-13.45 | 82 | 6 | 174 | 2 | 3 | 3 | 1,11 | 1,11 |
| 13.45-14.00 | 71 | 5 | 181 | 2 | 4 | 5 | 1,49 | 1,87 |
| 17.00-17.15 | 58 | 6 | 198 | 1 | 5 | 4 | 1,84 | 1,47 |
| 17.15-17.30 | 67 | 4 | 213 | 1 | 5 | 2 | 1,71 | 0,68 |
| 17.30-17.45 | 75 | 7 | 192 | 2 | 3 | 3 | 1,06 | 1,06 |
| 17.45-18.00 | 81 | 5 | 185 | 1 | 4 | 5 | 1,42 | 1,78 |

Arah : barat-timur

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Letjen S. Parman

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|--------------------------|--------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 72 | 6 | 153 | 1 | 2 | 2 | 0,85 | 0,85 |
| 08.15-08.30 | 63 | 3 | 142 | 1 | 5 | 3 | 2,30 | 1,38 |
| 08.30-08.45 | 58 | 4 | 131 | 2 | 3 | 2 | 1,50 | 1,00 |
| 08.45-09.00 | 62 | 5 | 162 | 1 | 7 | 4 | 2,90 | 1,66 |
| 13.00-13.15 | 58 | 5 | 166 | 1 | 2 | 4 | 0,85 | 1,69 |
| 13.15-13.30 | 56 | 7 | 194 | 3 | 3 | 2 | 1,13 | 0,75 |
| 13.30-13.45 | 64 | 3 | 198 | 1 | 2 | 3 | 0,74 | 1,11 |
| 13.45-14.00 | 71 | 4 | 204 | 2 | 4 | 5 | 1,38 | 1,72 |
| 17.00-17.15 | 82 | 5 | 186 | 3 | 3 | 2 | 1,07 | 0,71 |
| 17.15-17.30 | 74 | 6 | 208 | 2 | 1 | 1 | 0,34 | 0,34 |
| 17.30-17.45 | 62 | 4 | 198 | 1 | 2 | 3 | 0,74 | 1,11 |
| 17.45-18.00 | 53 | 5 | 212 | 2 | 4 | 2 | 1,44 | 0,72 |

Arah : timur-barat

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Letjen S. Parman

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|--------------------------|--------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 76 | 6 | 176 | 1 | 5 | 3 | 1,87 | 1,12 |
| 08.15-08.30 | 61 | 5 | 165 | 2 | 2 | 2 | 0,84 | 0,84 |
| 08.30-08.45 | 53 | 3 | 172 | 1 | 3 | 4 | 1,27 | 1,69 |
| 08.45-09.00 | 56 | 4 | 147 | 1 | 4 | 2 | 1,87 | 0,93 |
| 13.00-13.15 | 78 | 4 | 183 | 2 | 3 | 3 | 1,10 | 1,10 |
| 13.15-13.30 | 62 | 6 | 217 | 5 | 4 | 4 | 1,34 | 1,34 |
| 13.30-13.45 | 72 | 7 | 195 | 1 | 2 | 2 | 0,72 | 0,72 |
| 13.45-14.00 | 64 | 3 | 186 | 2 | 5 | 3 | 1,90 | 1,14 |
| 17.00-17.15 | 68 | 8 | 220 | 1 | 2 | 3 | 0,66 | 0,99 |
| 17.15-17.30 | 76 | 4 | 216 | 2 | 3 | 2 | 0,99 | 0,66 |
| 17.30-17.45 | 63 | 6 | 196 | 1 | 5 | 5 | 1,81 | 1,81 |
| 17.45-18.00 | 54 | 5 | 186 | 3 | 3 | 4 | 1,18 | 1,57 |

Arah : utara-selatan

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Suryowijayan

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|-----------------------------|-----------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 54 | 7 | 176 | 1 | 5 | 3 | 2,03 | 1,22 |
| 08.15-08.30 | 65 | 6 | 162 | 2 | 4 | 5 | 1,64 | 2,05 |
| 08.30-08.45 | 53 | 9 | 175 | 3 | 5 | 2 | 2,02 | 0,81 |
| 08.45-09.00 | 61 | 6 | 168 | 2 | 6 | 2 | 2,45 | 0,82 |
| 13.00-13.15 | 53 | 7 | 187 | 2 | 6 | 6 | 2,30 | 2,30 |
| 13.15-13.30 | 48 | 6 | 183 | 1 | 4 | 3 | 1,63 | 1,22 |
| 13.30-13.45 | 52 | 8 | 198 | 1 | 8 | 5 | 2,94 | 1,84 |
| 13.45-14.00 | 67 | 6 | 215 | 3 | 4 | 7 | 1,32 | 2,32 |
| 17.00-17.15 | 71 | 6 | 225 | 5 | 6 | 4 | 1,89 | 1,26 |
| 17.15-17.30 | 68 | 8 | 203 | 3 | 5 | 3 | 1,72 | 1,03 |
| 17.30-17.45 | 56 | 8 | 194 | 2 | 7 | 4 | 2,58 | 1,48 |
| 17.45-18.00 | 51 | 9 | 187 | 2 | 4 | 5 | 1,55 | 1,94 |

Arah : selatan-utara

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Suryowijayan

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|-----------------------------|-----------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 75 | 7 | 189 | 2 | 5 | 2 | 1,79 | 0,71 |
| 08.15-08.30 | 64 | 5 | 167 | 2 | 4 | 3 | 1,63 | 1,22 |
| 08.30-08.45 | 56 | 7 | 193 | 3 | 6 | 5 | 2,22 | 1,85 |
| 08.45-09.00 | 72 | 6 | 178 | 1 | 5 | 4 | 1,88 | 1,50 |
| 13.00-13.15 | 65 | 6 | 182 | 2 | 5 | 7 | 1,87 | 2,62 |
| 13.15-13.30 | 68 | 8 | 167 | 3 | 4 | 2 | 1,59 | 0,79 |
| 13.30-13.45 | 74 | 5 | 176 | 1 | 5 | 6 | 1,87 | 2,25 |
| 13.45-14.00 | 72 | 4 | 172 | 1 | 7 | 4 | 2,69 | 1,54 |
| 17.00-17.15 | 76 | 7 | 165 | 1 | 2 | 4 | 0,78 | 1,57 |
| 17.15-17.30 | 67 | 8 | 197 | 2 | 5 | 3 | 1,77 | 1,06 |
| 17.30-17.45 | 84 | 9 | 208 | 2 | 4 | 5 | 1,28 | 1,60 |
| 17.45-18.00 | 73 | 7 | 211 | 2 | 3 | 6 | 0,99 | 1,99 |

Arah : utara-selatan

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Suryowijayan

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|--------------------------|--------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 62 | 8 | 164 | 1 | 3 | 5 | 1,23 | 2,06 |
| 08.15-08.30 | 54 | 7 | 172 | 2 | 5 | 3 | 2,06 | 1,23 |
| 08.30-08.45 | 51 | 8 | 156 | 1 | 4 | 3 | 1,79 | 1,35 |
| 08.45-09.00 | 67 | 5 | 182 | 2 | 2 | 2 | 0,77 | 0,77 |
| 13.00-13.15 | 73 | 6 | 202 | 2 | 4 | 4 | 1,37 | 1,37 |
| 13.15-13.30 | 58 | 5 | 186 | 1 | 3 | 3 | 1,17 | 1,17 |
| 13.30-13.45 | 69 | 7 | 193 | 1 | 4 | 5 | 1,43 | 1,79 |
| 13.45-14.00 | 68 | 6 | 173 | 1 | 2 | 2 | 0,79 | 0,79 |
| 17.00-17.15 | 75 | 6 | 156 | 3 | 5 | 2 | 2,02 | 0,81 |
| 17.15-17.30 | 64 | 7 | 169 | 2 | 4 | 5 | 1,59 | 1,99 |
| 17.30-17.45 | 56 | 7 | 174 | 1 | 3 | 3 | 1,23 | 1,23 |
| 17.45-18.00 | 67 | 8 | 180 | 2 | 2 | 2 | 0,77 | 0,77 |

Arah : selatan-utara

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Suryowijayan

| Waktu | Jenis Kendaraan | | | | | Proporsi Becak Kayuh (%) | Proporsi Becak Motor (%) | |
|-------------|-----------------|----|-----|--------|-------|-----------------------------|-----------------------------|-------|
| | LV | HV | MC | Sepeda | Becak | | | |
| | | | | | Kayuh | | | Motor |
| 08.00-08.15 | 68 | 9 | 165 | 1 | 5 | 3 | 1,99 | 1,20 |
| 08.15-08.30 | 73 | 7 | 152 | 3 | 4 | 2 | 1,66 | 0,83 |
| 08.30-08.45 | 56 | 8 | 172 | 1 | 2 | 4 | 0,82 | 1,65 |
| 08.45-09.00 | 67 | 6 | 163 | 1 | 7 | 6 | 2,80 | 2,40 |
| 13.00-13.15 | 73 | 8 | 172 | 2 | 2 | 5 | 0,76 | 1,91 |
| 13.15-13.30 | 68 | 8 | 168 | 1 | 3 | 4 | 1,19 | 1,59 |
| 13.30-13.45 | 62 | 9 | 187 | 1 | 6 | 5 | 2,22 | 1,85 |
| 13.45-14.00 | 75 | 7 | 194 | 3 | 4 | 6 | 1,38 | 2,08 |
| 17.00-17.15 | 82 | 6 | 188 | 1 | 3 | 4 | 1,06 | 1,41 |
| 17.15-17.30 | 79 | 5 | 192 | 3 | 2 | 3 | 0,70 | 1,06 |
| 17.30-17.45 | 68 | 7 | 209 | 1 | 4 | 4 | 1,37 | 1,37 |
| 17.45-18.00 | 85 | 7 | 217 | 1 | 5 | 5 | 1,56 | 1,56 |

Lampiran 7. Hasil Perhitungan Analisis Regresi Pengaruh Proporsi Becak Kayuh dan Becak Motor Terhadap Kecepatan Kendaraan

Arah : utara-selatan

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. K.H. Wahid Hasyim

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,17 | 18,50 | 21,68 | 1,37 | 342,31 |
| 2 | 08.15-08.30 | 2,33 | 19,65 | 45,69 | 5,41 | 386,06 |
| 3 | 08.30-08.45 | 0,75 | 19,06 | 14,38 | 0,57 | 363,22 |
| 4 | 08.45-09.00 | 1,40 | 19,66 | 27,59 | 1,97 | 386,38 |
| Total | | 5,66 | 76,87 | 109,35 | 9,32 | 1477,97 |
| Rata-rata | | 1,41 | 19,22 | | | |

$$Y = 18,50 + 0,50 X$$

$$R^2 = 0,37$$

$$\text{Standar Deviasi} = 0,66$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,56 | 18,50 | 28,91 | 2,44 | 342,31 |
| 2 | 08.15-08.30 | 1,16 | 19,65 | 22,85 | 1,35 | 386,06 |
| 3 | 08.30-08.45 | 1,13 | 19,06 | 21,58 | 1,28 | 363,22 |
| 4 | 08.45-09.00 | 0,70 | 19,66 | 13,79 | 0,49 | 386,38 |
| Total | | 4,56 | 76,87 | 87,13 | 5,57 | 1477,97 |
| Rata-rata | | 1,14 | 19,22 | | | |

$$Y = 20,70 + (-1,30) X$$

$$R^2 = 0,69$$

$$\text{Standar Deviasi} = 0,35$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 0,92 | 20,73 | 19,02 | 0,84 | 429,87 |
| 2 | 13.15-13.30 | 1,53 | 19,32 | 29,62 | 2,35 | 373,07 |
| 3 | 13.30-13.45 | 0,56 | 20,28 | 11,27 | 0,31 | 411,35 |
| 4 | 13.45-14.00 | 0,97 | 20,96 | 20,42 | 0,95 | 439,46 |
| Total | | 3,98 | 81,29 | 80,33 | 4,45 | 1653,75 |
| Rata-rata | | 1,00 | 20,32 | | | |

$$Y = 21,48 + (-1,16) X$$

$$R^2 = 0,42$$

$$\text{Standar Deviasi} = 0,40$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,83 | 20,73 | 38,04 | 3,37 | 429,87 |
| 2 | 13.15-13.30 | 0,92 | 19,32 | 17,77 | 0,85 | 373,07 |
| 3 | 13.30-13.45 | 1,39 | 20,28 | 28,17 | 1,93 | 411,35 |
| 4 | 13.45-14.00 | 1,30 | 20,96 | 27,23 | 1,69 | 439,46 |
| Total | | 5,44 | 81,29 | 111,21 | 7,83 | 1653,75 |
| Rata-rata | | 1,36 | 20,32 | | | |

$$Y = 18,40 + 1,41 X$$

$$R^2 = 0,53$$

$$\text{Standar Deviasi} = 0,38$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,20 | 20,85 | 25,12 | 1,45 | 434,79 |
| 2 | 17.15-17.30 | 0,54 | 19,73 | 10,61 | 0,29 | 389,14 |
| 3 | 17.30-17.45 | 1,28 | 20,60 | 26,32 | 1,63 | 424,22 |
| 4 | 17.45-18.00 | 0,73 | 20,51 | 15,02 | 0,54 | 420,59 |
| Total | | 3,75 | 81,68 | 77,07 | 3,91 | 1668,75 |
| Rata-rata | | 0,94 | 20,42 | | | |

$$Y = 19,37 + 1,12 X$$

$$R^2 = 0,69$$

$$\text{Standar Deviasi} = 0,36$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,51 | 20,85 | 31,40 | 2,27 | 434,79 |
| 2 | 17.15-17.30 | 0,54 | 19,73 | 10,61 | 0,29 | 389,14 |
| 3 | 17.30-17.45 | 0,96 | 20,60 | 19,74 | 0,92 | 424,22 |
| 4 | 17.45-18.00 | 0,73 | 20,51 | 15,02 | 0,54 | 420,59 |
| Total | | 3,73 | 81,68 | 76,77 | 4,01 | 1668,75 |
| Rata-rata | | 0,93 | 20,42 | | | |

$$Y = 19,52 + 0,97 X$$

$$R^2 = 0,70$$

$$\text{Standar Deviasi} = 0,42$$

Arah : selatan-utara

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. K.H. Wahid Hasyim

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 0,72 | 20,21 | 14,64 | 0,53 | 408,44 |
| 2 | 08.15-08.30 | 1,15 | 19,95 | 22,93 | 1,32 | 398,14 |
| 3 | 08.30-08.45 | 1,15 | 19,51 | 22,34 | 1,31 | 380,71 |
| 4 | 08.45-09.00 | 0,75 | 20,81 | 15,71 | 0,57 | 433,19 |
| Total | | 3,77 | 80,49 | 75,63 | 3,73 | 1620,48 |
| Rata-rata | | 0,94 | 20,12 | | | |

$$Y = 21,86 + (-1,85) X$$

$$R^2 = 0,64$$

$$\text{Standar Deviasi} = 0,24$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,09 | 20,21 | 21,97 | 1,18 | 408,44 |
| 2 | 08.15-08.30 | 1,92 | 19,95 | 38,22 | 3,67 | 398,14 |
| 3 | 08.30-08.45 | 1,53 | 19,51 | 29,79 | 2,33 | 380,71 |
| 4 | 08.45-09.00 | 0,75 | 20,81 | 15,71 | 0,57 | 433,19 |
| Total | | 5,28 | 80,49 | 105,69 | 7,75 | 1620,48 |
| Rata-rata | | 1,32 | 20,12 | | | |

$$Y = 21,21 + (-0,83) X$$

$$R^2 = 0,60$$

$$\text{Standar Deviasi} = 0,51$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 0,73 | 19,21 | 13,97 | 0,53 | 368,90 |
| 2 | 13.15-13.30 | 1,16 | 19,44 | 22,61 | 1,35 | 377,98 |
| 3 | 13.30-13.45 | 1,33 | 19,93 | 26,48 | 1,77 | 397,14 |
| 4 | 13.45-14.00 | 0,98 | 19,73 | 19,40 | 0,97 | 389,14 |
| Total | | 4,20 | 78,30 | 82,46 | 4,61 | 1533,15 |
| Rata-rata | | 1,05 | 19,58 | | | |

$$Y = 18,56 + 0,97 X$$

$$R^2 = 0,62$$

$$\text{Standar Deviasi} = 0,26$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,82 | 19,21 | 34,92 | 3,31 | 368,90 |
| 2 | 13.15-13.30 | 1,55 | 19,44 | 30,14 | 2,40 | 377,98 |
| 3 | 13.30-13.45 | 1,33 | 19,93 | 26,48 | 1,77 | 397,14 |
| 4 | 13.45-14.00 | 1,64 | 19,73 | 32,34 | 2,69 | 389,14 |
| Total | | 6,34 | 78,30 | 123,88 | 10,16 | 1533,15 |
| Rata-rata | | 1,58 | 19,58 | | | |

$$Y = 21,66 + (1,32) X$$

$$R^2 = 0,72$$

$$\text{Standar Deviasi} = 0,20$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,61 | 19,87 | 12,19 | 0,38 | 394,75 |
| 2 | 17.15-17.30 | 1,55 | 18,81 | 29,12 | 2,40 | 353,82 |
| 3 | 17.30-17.45 | 1,21 | 19,50 | 23,69 | 1,48 | 380,38 |
| 4 | 17.45-18.00 | 1,06 | 19,93 | 21,09 | 1,12 | 397,34 |
| Total | | 4,43 | 78,12 | 86,09 | 5,37 | 1526,28 |
| Rata-rata | | 1,11 | 19,53 | | | |

$$Y = 20,77 + (-1,12) X$$

$$R^2 = 0,71$$

$$\text{Standar Deviasi} = 0,39$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,92 | 19,87 | 18,28 | 0,85 | 394,75 |
| 2 | 17.15-17.30 | 1,86 | 18,81 | 34,94 | 3,45 | 353,82 |
| 3 | 17.30-17.45 | 1,62 | 19,50 | 31,58 | 2,62 | 380,38 |
| 4 | 17.45-18.00 | 1,32 | 19,93 | 26,37 | 1,75 | 397,34 |
| Total | | 5,72 | 78,12 | 111,18 | 8,67 | 1526,28 |
| Rata-rata | | 1,43 | 19,53 | | | |

$$Y = 21,07 + (-1,08) X$$

$$R^2 = 0,72$$

$$\text{Standar Deviasi} = 0,40$$

Arah : utara-selatan

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. K.H. Wahid Hasyim

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 0,82 | 20,35 | 16,75 | 0,68 | 414,05 |
| 2 | 08.15-08.30 | 2,02 | 19,47 | 39,25 | 4,06 | 379,02 |
| 3 | 08.30-08.45 | 1,12 | 20,75 | 23,31 | 1,26 | 430,49 |
| 4 | 08.45-09.00 | 1,29 | 20,08 | 25,99 | 1,68 | 403,01 |
| Total | | 5,26 | 80,64 | 105,30 | 7,68 | 1626,57 |
| Rata-rata | | 1,31 | 20,16 | | | |

$$Y = 21,33 + (-0,89) X$$

$$R^2 = 0,71$$

$$\text{Standar Deviasi} = 0,51$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 2,06 | 20,35 | 41,87 | 4,23 | 414,05 |
| 2 | 08.15-08.30 | 2,42 | 19,47 | 47,10 | 5,85 | 379,02 |
| 3 | 08.30-08.45 | 1,50 | 20,75 | 31,08 | 2,24 | 430,49 |
| 4 | 08.45-09.00 | 1,62 | 20,08 | 32,48 | 2,62 | 403,01 |
| Total | | 7,59 | 80,64 | 152,54 | 14,95 | 1626,57 |
| Rata-rata | | 1,90 | 20,16 | | | |

$$Y = 22,08 + (-1,01) X$$

$$R^2 = 0,63$$

$$\text{Standar Deviasi} = 0,42$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,58 | 20,08 | 31,66 | 2,49 | 403,01 |
| 2 | 13.15-13.30 | 0,78 | 18,65 | 14,46 | 0,60 | 347,82 |
| 3 | 13.30-13.45 | 1,11 | 19,67 | 21,77 | 1,23 | 386,71 |
| 4 | 13.45-14.00 | 0,71 | 19,55 | 13,87 | 0,50 | 382,27 |
| Total | | 4,17 | 77,94 | 81,76 | 4,82 | 1519,81 |
| Rata-rata | | 1,04 | 19,49 | | | |

$$Y = 18,32 + 1,12 X$$

$$R^2 = 0,55$$

$$\text{Standar Deviasi} = 0,40$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,91 | 19,47 | 17,75 | 0,83 | 379,02 |
| 2 | 17.15-17.30 | 1,79 | 18,98 | 34,04 | 3,22 | 360,11 |
| 3 | 17.30-17.45 | 0,78 | 20,44 | 15,90 | 0,61 | 417,66 |
| 4 | 17.45-18.00 | 1,16 | 19,41 | 22,48 | 1,34 | 376,68 |
| Total | | 4,64 | 78,29 | 90,18 | 6,00 | 1533,47 |
| Rata-rata | | 1,16 | 19,57 | | | |

$$Y = 20,87 + (-1,12) X$$

$$R^2 = 0,67$$

$$\text{Standar Deviasi} = 0,45$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,89 | 20,08 | 38,00 | 3,58 | 403,01 |
| 2 | 13.15-13.30 | 0,78 | 18,65 | 14,46 | 0,60 | 347,82 |
| 3 | 13.30-13.45 | 2,21 | 19,67 | 43,54 | 4,90 | 386,71 |
| 4 | 13.45-14.00 | 1,06 | 19,55 | 20,80 | 1,13 | 382,27 |
| Total | | 5,95 | 77,94 | 116,79 | 10,22 | 1519,81 |
| Rata-rata | | 1,49 | 19,49 | | | |

$$Y = 18,48 + 0,68 X$$

$$R^2 = 0,59$$

$$\text{Standar Deviasi} = 0,68$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,22 | 19,47 | 23,67 | 1,48 | 379,02 |
| 2 | 17.15-17.30 | 1,35 | 18,98 | 25,53 | 1,81 | 360,11 |
| 3 | 17.30-17.45 | 2,33 | 20,44 | 47,71 | 5,45 | 417,66 |
| 4 | 17.45-18.00 | 1,93 | 19,41 | 37,47 | 3,73 | 376,68 |
| Total | | 6,83 | 78,29 | 134,38 | 12,47 | 1533,47 |
| Rata-rata | | 1,71 | 19,57 | | | |

$$Y = 17,96 + 0,95 X$$

$$R^2 = 0,64$$

$$\text{Standar Deviasi} = 0,52$$

Arah : selatan-utara
 Hari/Tanggal : Rabu, 21 November 2018
 Cuaca : cerah
 Lokasi : ruas Jl. K.H. Wahid Hasyim

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,69 | 19,64 | 33,28 | 2,87 | 385,60 |
| 2 | 08.15-08.30 | 1,80 | 21,22 | 38,17 | 3,23 | 450,43 |
| 3 | 08.30-08.45 | 2,18 | 21,04 | 45,91 | 4,76 | 442,68 |
| 4 | 08.45-09.00 | 2,31 | 23,45 | 54,27 | 5,36 | 549,67 |
| Total | | 7,99 | 85,35 | 171,63 | 16,23 | 1828,38 |
| Rata-rata | | 2,00 | 21,34 | | | |

$$Y = 12,68 + 4,33 X$$

$$R^2 = 0,67$$

$$\text{Standar Deviasi} = 0,30$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,27 | 19,64 | 24,96 | 1,62 | 385,60 |
| 2 | 08.15-08.30 | 1,08 | 21,22 | 22,90 | 1,16 | 450,43 |
| 3 | 08.30-08.45 | 1,45 | 21,04 | 30,60 | 2,12 | 442,68 |
| 4 | 08.45-09.00 | 0,93 | 23,45 | 21,71 | 0,86 | 549,67 |
| Total | | 4,73 | 85,35 | 100,18 | 5,75 | 1828,38 |
| Rata-rata | | 1,18 | 21,34 | | | |

$$Y = 27,02 + (-4,80) X$$

$$R^2 = 0,49$$

$$\text{Standar Deviasi} = 0,23$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,50 | 18,53 | 27,87 | 2,26 | 343,42 |
| 2 | 13.15-13.30 | 1,26 | 18,23 | 22,88 | 1,58 | 332,15 |
| 3 | 13.30-13.45 | 1,41 | 19,05 | 26,83 | 1,98 | 362,97 |
| 4 | 13.45-14.00 | 1,94 | 17,79 | 34,48 | 3,76 | 316,60 |
| Total | | 6,11 | 73,60 | 112,06 | 9,58 | 1355,14 |
| Rata-rata | | 1,53 | 18,40 | | | |

$$Y = 20,07 + (-1,10) X$$

$$R^2 = 0,37$$

$$\text{Standar Deviasi} = 0,29$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,63 | 18,68 | 30,37 | 2,64 | 348,76 |
| 2 | 17.15-17.30 | 1,11 | 18,95 | 20,98 | 1,23 | 359,10 |
| 3 | 17.30-17.45 | 0,87 | 19,71 | 17,21 | 0,76 | 388,35 |
| 4 | 17.45-18.00 | 1,63 | 16,79 | 27,35 | 2,65 | 281,90 |
| Total | | 5,24 | 74,12 | 95,90 | 7,28 | 1378,11 |
| Rata-rata | | 1,31 | 18,53 | | | |

$$Y = 21,88 + (-2,56) X$$

$$R^2 = 0,61$$

$$\text{Standar Deviasi} = 0,38$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 0,75 | 18,53 | 13,93 | 0,57 | 343,42 |
| 2 | 13.15-13.30 | 1,67 | 18,23 | 30,50 | 2,80 | 332,15 |
| 3 | 13.30-13.45 | 1,06 | 19,05 | 20,13 | 1,12 | 362,97 |
| 4 | 13.45-14.00 | 2,33 | 17,79 | 41,38 | 5,41 | 316,60 |
| Total | | 5,81 | 73,60 | 105,94 | 9,89 | 1355,14 |
| Rata-rata | | 1,45 | 18,40 | | | |

$$Y = 19,31 + (-0,63) X$$

$$R^2 = 0,69$$

$$\text{Standar Deviasi} = 0,70$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 2,03 | 18,68 | 37,96 | 4,13 | 348,76 |
| 2 | 17.15-17.30 | 1,48 | 18,95 | 27,97 | 2,18 | 359,10 |
| 3 | 17.30-17.45 | 0,87 | 19,71 | 17,21 | 0,76 | 388,35 |
| 4 | 17.45-18.00 | 1,63 | 16,79 | 27,35 | 2,65 | 281,90 |
| Total | | 6,01 | 74,12 | 110,48 | 9,73 | 1378,11 |
| Rata-rata | | 1,50 | 18,53 | | | |

$$Y = 20,47 + (-1,29) X$$

$$R^2 = 0,25$$

$$\text{Standar Deviasi} = 0,48$$

Arah : barat-timur

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Letjen S. Parman

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 2,63 | 20,43 | 53,77 | 6,93 | 417,52 |
| 2 | 08.15-08.30 | 0,99 | 19,72 | 19,53 | 0,98 | 388,94 |
| 3 | 08.30-08.45 | 1,80 | 20,51 | 36,95 | 3,25 | 420,52 |
| 4 | 08.45-09.00 | 1,31 | 19,74 | 25,86 | 1,72 | 389,73 |
| Total | | 6,73 | 80,40 | 136,11 | 12,87 | 1616,72 |
| Rata-rata | | 1,68 | 20,10 | | | |

$$Y = 19,27 + 0,50 X$$

$$R^2 = 0,69$$

$$\text{Standar Deviasi} = 0,71$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,32 | 20,43 | 26,89 | 1,73 | 417,52 |
| 2 | 08.15-08.30 | 1,98 | 19,72 | 39,05 | 3,92 | 388,94 |
| 3 | 08.30-08.45 | 1,35 | 20,51 | 27,71 | 1,83 | 420,52 |
| 4 | 08.45-09.00 | 3,06 | 19,74 | 60,35 | 9,34 | 389,73 |
| Total | | 7,70 | 80,40 | 154,00 | 16,82 | 1616,72 |
| Rata-rata | | 1,93 | 20,10 | | | |

$$Y = 20,94 + (-0,43) X$$

$$R^2 = 0,68$$

$$\text{Standar Deviasi} = 0,81$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,67 | 21,19 | 35,31 | 2,78 | 448,80 |
| 2 | 13.15-13.30 | 0,70 | 20,51 | 14,34 | 0,49 | 420,73 |
| 3 | 13.30-13.45 | 0,38 | 19,98 | 7,57 | 0,14 | 399,13 |
| 4 | 13.45-14.00 | 0,75 | 21,33 | 15,91 | 0,56 | 454,76 |
| Total | | 3,49 | 83,00 | 73,13 | 3,97 | 1723,42 |
| Rata-rata | | 0,87 | 20,75 | | | |

$$Y = 20,09 + 0,76 X$$

$$R^2 = 0,45$$

$$\text{Standar Deviasi} = 0,55$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 0,83 | 21,19 | 17,65 | 0,69 | 448,80 |
| 2 | 13.15-13.30 | 1,05 | 20,51 | 21,52 | 1,10 | 420,73 |
| 3 | 13.30-13.45 | 0,76 | 19,98 | 15,14 | 0,57 | 399,13 |
| 4 | 13.45-14.00 | 1,49 | 21,33 | 31,83 | 2,23 | 454,76 |
| Total | | 4,13 | 83,00 | 86,13 | 4,60 | 1723,42 |
| Rata-rata | | 1,03 | 20,75 | | | |

$$Y = 19,53 + 11,18 X$$

$$R^2 = 0,39$$

$$\text{Standar Deviasi} = 0,33$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,03 | 21,39 | 22,13 | 1,07 | 457,53 |
| 2 | 17.15-17.30 | 1,46 | 20,72 | 30,24 | 2,13 | 429,11 |
| 3 | 17.30-17.45 | 0,81 | 20,90 | 16,86 | 0,65 | 436,88 |
| 4 | 17.45-18.00 | 1,67 | 20,35 | 33,91 | 2,78 | 414,05 |
| Total | | 4,97 | 83,36 | 103,14 | 6,63 | 1737,58 |
| Rata-rata | | 1,24 | 20,84 | | | |

$$Y = 21,86 + (-0,82) X$$

$$R^2 = 0,55$$

$$\text{Standar Deviasi} = 0,39$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,34 | 21,39 | 7,38 | 0,12 | 457,53 |
| 2 | 17.15-17.30 | 0,73 | 20,72 | 15,12 | 0,53 | 429,11 |
| 3 | 17.30-17.45 | 1,21 | 20,90 | 25,28 | 1,46 | 436,88 |
| 4 | 17.45-18.00 | 1,33 | 20,35 | 27,13 | 1,78 | 414,05 |
| Total | | 3,62 | 83,36 | 74,91 | 3,89 | 1737,58 |
| Rata-rata | | 0,90 | 20,84 | | | |

$$Y = 21,54 + (-0,77) X$$

$$R^2 = 0,65$$

$$\text{Standar Deviasi} = 0,45$$

Arah : timur-barat

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Letjen S. Parman

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,29 | 18,78 | 24,18 | 1,66 | 352,56 |
| 2 | 08.15-08.30 | 0,82 | 18,08 | 14,88 | 0,68 | 326,77 |
| 3 | 08.30-08.45 | 1,65 | 18,77 | 30,90 | 2,71 | 352,38 |
| 4 | 08.45-09.00 | 1,40 | 18,42 | 25,83 | 1,97 | 339,42 |
| Total | | 5,16 | 74,05 | 95,78 | 7,01 | 1371,12 |
| Rata-rata | | 1,29 | 18,51 | | | |

$$Y = 17,48 + 0,80 X$$

$$R^2 = 0,68$$

$$\text{Standar Deviasi} = 0,35$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,72 | 18,78 | 32,23 | 2,95 | 352,56 |
| 2 | 08.15-08.30 | 0,82 | 18,08 | 14,88 | 0,68 | 326,77 |
| 3 | 08.30-08.45 | 1,65 | 18,77 | 30,90 | 2,71 | 352,38 |
| 4 | 08.45-09.00 | 2,34 | 18,42 | 43,05 | 5,46 | 339,42 |
| Total | | 6,52 | 74,05 | 121,06 | 11,79 | 1371,12 |
| Rata-rata | | 1,63 | 18,51 | | | |

$$Y = 18,07 + 0,27 X$$

$$R^2 = 0,26$$

$$\text{Standar Deviasi} = 0,62$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,59 | 19,18 | 30,56 | 2,54 | 367,81 |
| 2 | 13.15-13.30 | 2,04 | 20,42 | 41,68 | 4,16 | 417,11 |
| 3 | 13.30-13.45 | 1,11 | 19,08 | 21,20 | 1,23 | 363,98 |
| 4 | 13.45-14.00 | 1,49 | 21,05 | 31,42 | 2,23 | 443,03 |
| Total | | 6,24 | 79,73 | 124,86 | 10,17 | 1591,94 |
| Rata-rata | | 1,56 | 19,93 | | | |

$$Y = 18,09 + 1,18 X$$

$$R^2 = 0,22$$

$$\text{Standar Deviasi} = 0,38$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,84 | 18,52 | 34,04 | 3,38 | 342,87 |
| 2 | 17.15-17.30 | 1,71 | 17,64 | 30,21 | 2,93 | 311,17 |
| 3 | 17.30-17.45 | 1,06 | 19,38 | 20,61 | 1,13 | 375,39 |
| 4 | 17.45-18.00 | 1,42 | 19,58 | 27,88 | 2,03 | 383,51 |
| Total | | 6,04 | 75,12 | 112,73 | 9,47 | 1412,93 |
| Rata-rata | | 1,51 | 18,78 | | | |

$$Y = 21,55 + (-1,84) X$$

$$R^2 = 0,51$$

$$\text{Standar Deviasi} = 0,34$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,20 | 19,18 | 22,92 | 1,43 | 367,81 |
| 2 | 13.15-13.30 | 0,82 | 20,42 | 16,67 | 0,67 | 417,11 |
| 3 | 13.30-13.45 | 1,11 | 19,08 | 21,20 | 1,23 | 363,98 |
| 4 | 13.45-14.00 | 1,87 | 21,05 | 39,27 | 3,48 | 443,03 |
| Total | | 4,99 | 79,73 | 100,06 | 6,81 | 1591,94 |
| Rata-rata | | 1,25 | 19,93 | | | |

$$Y = 18,59 + 1,08 X$$

$$R^2 = 0,24$$

$$\text{Standar Deviasi} = 0,44$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,47 | 18,52 | 27,23 | 2,16 | 342,87 |
| 2 | 17.15-17.30 | 0,68 | 17,64 | 12,08 | 0,47 | 311,17 |
| 3 | 17.30-17.45 | 1,06 | 19,38 | 20,61 | 1,13 | 375,39 |
| 4 | 17.45-18.00 | 1,78 | 19,58 | 34,85 | 3,17 | 383,51 |
| Total | | 5,00 | 75,12 | 94,77 | 6,93 | 1412,93 |
| Rata-rata | | 1,25 | 18,78 | | | |

$$Y = 17,13 + 1,32 X$$

$$R^2 = 0,50$$

$$\text{Standar Deviasi} = 0,48$$

Arah : barat-timur

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Letjen S. Parman

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 0,85 | 21,68 | 18,37 | 0,72 | 469,88 |
| 2 | 08.15-08.30 | 2,30 | 17,66 | 40,68 | 5,31 | 311,76 |
| 3 | 08.30-08.45 | 1,50 | 19,18 | 28,78 | 2,25 | 368,00 |
| 4 | 08.45-09.00 | 2,90 | 18,49 | 53,71 | 8,44 | 341,88 |
| Total | | 7,56 | 77,01 | 141,53 | 16,71 | 1491,52 |
| Rata-rata | | 1,89 | 19,25 | | | |

$$Y = 22,30 + (-1,61) X$$

$$R^2 = 0,70$$

$$\text{Standar Deviasi} = 0,90$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 0,85 | 21,68 | 18,37 | 0,72 | 469,88 |
| 2 | 08.15-08.30 | 1,38 | 17,66 | 24,41 | 1,91 | 311,76 |
| 3 | 08.30-08.45 | 1,00 | 19,18 | 19,18 | 1,00 | 368,00 |
| 4 | 08.45-09.00 | 1,66 | 18,49 | 30,69 | 2,75 | 341,88 |
| Total | | 4,89 | 77,01 | 92,65 | 6,38 | 1491,52 |
| Rata-rata | | 1,22 | 19,25 | | | |

$$Y = 23,70 + (-3,64) X$$

$$R^2 = 0,60$$

$$\text{Standar Deviasi} = 0,37$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 0,85 | 18,62 | 15,78 | 0,72 | 346,70 |
| 2 | 13.15-13.30 | 1,13 | 18,12 | 20,51 | 1,28 | 328,21 |
| 3 | 13.30-13.45 | 0,74 | 18,36 | 13,55 | 0,54 | 337,09 |
| 4 | 13.45-14.00 | 1,38 | 19,51 | 26,91 | 1,90 | 380,51 |
| Total | | 4,10 | 74,60 | 76,74 | 4,45 | 1392,52 |
| Rata-rata | | 1,02 | 18,65 | | | |

$$Y = 17,28 + 1,34 X$$

$$R^2 = 0,41$$

$$\text{Standar Deviasi} = 0,29$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,69 | 18,62 | 31,56 | 2,87 | 346,70 |
| 2 | 13.15-13.30 | 0,75 | 18,12 | 13,67 | 0,57 | 328,21 |
| 3 | 13.30-13.45 | 1,11 | 18,36 | 20,32 | 1,23 | 337,09 |
| 4 | 13.45-14.00 | 1,72 | 19,51 | 33,63 | 2,97 | 380,51 |
| Total | | 5,28 | 74,60 | 99,19 | 7,64 | 1392,52 |
| Rata-rata | | 1,32 | 18,65 | | | |

$$Y = 17,27 + 1,04 X$$

$$R^2 = 0,66$$

$$\text{Standar Deviasi} = 0,47$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,07 | 19,99 | 21,34 | 1,14 | 399,53 |
| 2 | 17.15-17.30 | 0,34 | 18,86 | 6,46 | 0,12 | 355,76 |
| 3 | 17.30-17.45 | 0,74 | 21,71 | 16,08 | 0,55 | 471,25 |
| 4 | 17.45-18.00 | 1,44 | 22,27 | 32,05 | 2,07 | 496,10 |
| Total | | 3,59 | 82,83 | 75,93 | 3,88 | 1722,65 |
| Rata-rata | | 0,90 | 20,71 | | | |

$$Y = 18,52 + 2,43 X$$

$$R^2 = 0,53$$

$$\text{Standar Deviasi} = 0,47$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,71 | 19,99 | 14,23 | 0,51 | 399,53 |
| 2 | 17.15-17.30 | 0,34 | 18,86 | 6,46 | 0,12 | 355,76 |
| 3 | 17.30-17.45 | 1,11 | 21,71 | 24,12 | 1,23 | 471,25 |
| 4 | 17.45-18.00 | 0,72 | 22,27 | 16,02 | 0,52 | 496,10 |
| Total | | 2,88 | 82,83 | 60,83 | 2,38 | 1722,65 |
| Rata-rata | | 0,72 | 20,71 | | | |

$$Y = 18,40 + 3,70 X$$

$$R^2 = 0,55$$

$$\text{Standar Deviasi} = 0,31$$

Arah : timur-barat

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Letjen S. Parman

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,87 | 22,93 | 42,95 | 3,51 | 525,94 |
| 2 | 08.15-08.30 | 0,84 | 23,60 | 19,91 | 0,71 | 556,80 |
| 3 | 08.30-08.45 | 1,27 | 22,06 | 28,05 | 1,62 | 486,79 |
| 4 | 08.45-09.00 | 1,87 | 22,41 | 41,88 | 3,49 | 502,06 |
| Total | | 5,86 | 91,00 | 132,79 | 9,33 | 2071,59 |
| Rata-rata | | 1,46 | 22,75 | | | |

$$Y = 23,64 + (-0,61) X$$

$$R^2 = 0,21$$

$$\text{Standar Deviasi} = 0,50$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,12 | 22,93 | 25,77 | 1,26 | 525,94 |
| 2 | 08.15-08.30 | 0,84 | 23,60 | 19,91 | 0,71 | 556,80 |
| 3 | 08.30-08.45 | 1,69 | 22,06 | 37,40 | 2,87 | 486,79 |
| 4 | 08.45-09.00 | 0,93 | 22,41 | 20,94 | 0,87 | 502,06 |
| Total | | 4,60 | 91,00 | 104,02 | 5,72 | 2071,59 |
| Rata-rata | | 1,15 | 22,75 | | | |

$$Y = 24,23 + (-1,29) X$$

$$R^2 = 0,54$$

$$\text{Standar Deviasi} = 0,38$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,10 | 21,40 | 23,51 | 1,21 | 457,75 |
| 2 | 13.15-13.30 | 1,34 | 20,63 | 27,69 | 1,80 | 425,53 |
| 3 | 13.30-13.45 | 0,72 | 18,67 | 13,38 | 0,51 | 348,51 |
| 4 | 13.45-14.00 | 1,90 | 21,27 | 40,43 | 3,61 | 452,27 |
| Total | | 5,06 | 81,96 | 105,01 | 7,14 | 1684,05 |
| Rata-rata | | 1,26 | 20,49 | | | |

$$Y = 18,17 + 1,83 X$$

$$R^2 = 0,52$$

$$\text{Standar Deviasi} = 0,50$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,66 | 21,37 | 14,15 | 0,44 | 456,53 |
| 2 | 17.15-17.30 | 0,99 | 21,13 | 20,92 | 0,98 | 446,27 |
| 3 | 17.30-17.45 | 1,81 | 20,21 | 36,61 | 3,28 | 408,38 |
| 4 | 17.45-18.00 | 1,18 | 20,08 | 23,62 | 1,38 | 403,01 |
| Total | | 4,64 | 82,78 | 95,29 | 6,08 | 1714,18 |
| Rata-rata | | 1,16 | 20,69 | | | |

$$Y = 21,91 + (-1,05) X$$

$$R^2 = 0,61$$

$$\text{Standar Deviasi} = 0,48$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,10 | 21,40 | 23,51 | 1,21 | 457,75 |
| 2 | 13.15-13.30 | 1,34 | 20,63 | 27,69 | 1,80 | 425,53 |
| 3 | 13.30-13.45 | 0,72 | 18,67 | 13,38 | 0,51 | 348,51 |
| 4 | 13.45-14.00 | 1,14 | 21,27 | 24,26 | 1,30 | 452,27 |
| Total | | 4,30 | 81,96 | 88,84 | 4,82 | 1684,05 |
| Rata-rata | | 1,07 | 20,49 | | | |

$$Y = 16,49 + 3,72 X$$

$$R^2 = 0,60$$

$$\text{Standar Deviasi} = 0,26$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,99 | 21,37 | 21,23 | 0,99 | 456,53 |
| 2 | 17.15-17.30 | 0,66 | 21,13 | 13,94 | 0,44 | 446,27 |
| 3 | 17.30-17.45 | 1,81 | 20,21 | 36,61 | 3,28 | 408,38 |
| 4 | 17.45-18.00 | 1,57 | 20,08 | 31,49 | 2,46 | 403,01 |
| Total | | 5,03 | 82,78 | 103,27 | 7,16 | 1714,18 |
| Rata-rata | | 1,26 | 20,69 | | | |

$$Y = 22,05 + (-1,08) X$$

$$R^2 = 0,77$$

$$\text{Standar Deviasi} = 0,53$$

Arah : utara-selatan

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Suryowijayan

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 2,03 | 21,84 | 44,39 | 4,13 | 476,91 |
| 2 | 08.15-08.30 | 1,64 | 21,86 | 35,83 | 2,69 | 477,71 |
| 3 | 08.30-08.45 | 2,02 | 20,44 | 41,38 | 4,10 | 417,79 |
| 4 | 08.45-09.00 | 2,45 | 19,83 | 48,55 | 6,00 | 393,03 |
| Total | | 8,15 | 83,96 | 170,14 | 16,91 | 1765,45 |
| Rata-rata | | 2,04 | 20,99 | | | |

$$Y = 26,09 + (-2,50) X$$

$$R^2 = 0,66$$

$$\text{Standar Deviasi} = 0,33$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,22 | 21,84 | 26,63 | 1,49 | 476,91 |
| 2 | 08.15-08.30 | 2,05 | 21,86 | 44,79 | 4,20 | 477,71 |
| 3 | 08.30-08.45 | 0,81 | 20,44 | 16,55 | 0,66 | 417,79 |
| 4 | 08.45-09.00 | 0,82 | 19,83 | 16,18 | 0,67 | 393,03 |
| Total | | 4,89 | 83,96 | 104,15 | 7,01 | 1765,45 |
| Rata-rata | | 1,22 | 20,99 | | | |

$$Y = 19,29 + 1,39 X$$

$$R^2 = 0,63$$

$$\text{Standar Deviasi} = 0,58$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 2,30 | 20,20 | 46,43 | 5,28 | 407,97 |
| 2 | 13.15-13.30 | 1,63 | 18,61 | 30,39 | 2,67 | 346,46 |
| 3 | 13.30-13.45 | 2,94 | 17,60 | 51,75 | 8,65 | 309,58 |
| 4 | 13.45-14.00 | 1,32 | 19,52 | 25,86 | 1,75 | 381,10 |
| Total | | 8,20 | 75,93 | 154,43 | 18,36 | 1445,11 |
| Rata-rata | | 2,05 | 18,98 | | | |

$$Y = 20,52 + (-0,75) X$$

$$R^2 = 0,23$$

$$\text{Standar Deviasi} = 0,72$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 2,30 | 20,20 | 46,43 | 5,28 | 407,97 |
| 2 | 13.15-13.30 | 1,22 | 18,61 | 22,79 | 1,50 | 346,46 |
| 3 | 13.30-13.45 | 1,84 | 17,60 | 32,34 | 3,38 | 309,58 |
| 4 | 13.45-14.00 | 2,32 | 19,52 | 45,25 | 5,37 | 381,10 |
| Total | | 7,68 | 75,93 | 146,82 | 15,54 | 1445,11 |
| Rata-rata | | 1,92 | 18,98 | | | |

$$Y = 16,45 + 1,32 X$$

$$R^2 = 0,36$$

$$\text{Standar Deviasi} = 0,51$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,89 | 19,80 | 37,48 | 3,58 | 392,11 |
| 2 | 17.15-17.30 | 1,72 | 19,55 | 33,70 | 2,97 | 382,14 |
| 3 | 17.30-17.45 | 2,58 | 19,39 | 50,07 | 6,67 | 375,78 |
| 4 | 17.45-18.00 | 1,55 | 21,08 | 32,68 | 2,40 | 444,37 |
| Total | | 7,75 | 79,82 | 153,94 | 15,63 | 1594,39 |
| Rata-rata | | 1,94 | 19,95 | | | |

$$Y = 22,19 + (-1,16) X$$

$$R^2 = 0,46$$

$$\text{Standar Deviasi} = 0,45$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,26 | 19,80 | 24,99 | 1,59 | 392,11 |
| 2 | 17.15-17.30 | 1,03 | 19,55 | 20,22 | 1,07 | 382,14 |
| 3 | 17.30-17.45 | 1,48 | 19,39 | 28,61 | 2,18 | 375,78 |
| 4 | 17.45-18.00 | 1,94 | 21,08 | 40,85 | 3,76 | 444,37 |
| Total | | 5,71 | 79,82 | 114,67 | 8,60 | 1594,39 |
| Rata-rata | | 1,43 | 19,95 | | | |

$$Y = 17,61 + 1,65 X$$

$$R^2 = 0,68$$

$$\text{Standar Deviasi} = 0,39$$

Arah : selatan-utara

Hari/Tanggal : Selasa, 20 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Suryowijayan

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,79 | 21,51 | 38,40 | 3,19 | 462,54 |
| 2 | 08.15-08.30 | 1,63 | 22,81 | 37,24 | 2,67 | 520,22 |
| 3 | 08.30-08.45 | 2,22 | 19,97 | 44,39 | 4,94 | 398,93 |
| 4 | 08.45-09.00 | 1,88 | 20,36 | 38,26 | 3,53 | 414,39 |
| Total | | 7,52 | 84,65 | 158,29 | 14,33 | 1796,08 |
| Rata-rata | | 1,88 | 21,16 | | | |

$$Y = 29,66 + (-4,52) X$$

$$R^2 = 0,78$$

$$\text{Standar Deviasi} = 0,25$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 0,71 | 21,51 | 15,36 | 0,51 | 462,54 |
| 2 | 08.15-08.30 | 1,22 | 22,81 | 27,93 | 1,50 | 520,22 |
| 3 | 08.30-08.45 | 1,85 | 19,97 | 36,99 | 3,43 | 398,93 |
| 4 | 08.45-09.00 | 1,50 | 20,36 | 30,61 | 2,26 | 414,39 |
| Total | | 5,29 | 84,65 | 110,89 | 7,70 | 1796,08 |
| Rata-rata | | 1,32 | 21,16 | | | |

$$Y = 23,35 + (-1,65) X$$

$$R^2 = 0,39$$

$$\text{Standar Deviasi} = 0,48$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,87 | 21,09 | 39,49 | 3,51 | 444,65 |
| 2 | 13.15-13.30 | 1,59 | 20,93 | 33,22 | 2,52 | 438,13 |
| 3 | 13.30-13.45 | 1,87 | 21,23 | 39,76 | 3,51 | 450,71 |
| 4 | 13.45-14.00 | 2,69 | 20,53 | 55,28 | 7,25 | 421,62 |
| Total | | 8,02 | 83,78 | 167,75 | 16,78 | 1755,11 |
| Rata-rata | | 2,01 | 20,95 | | | |

$$Y = 21,93 + (-,049) X$$

$$R^2 = 0,60$$

$$\text{Standar Deviasi} = 0,48$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 2,62 | 21,09 | 55,28 | 6,87 | 444,65 |
| 2 | 13.15-13.30 | 0,79 | 20,93 | 16,61 | 0,63 | 438,13 |
| 3 | 13.30-13.45 | 2,25 | 21,23 | 47,71 | 5,05 | 450,71 |
| 4 | 13.45-14.00 | 1,54 | 20,53 | 31,59 | 2,37 | 421,62 |
| Total | | 7,20 | 83,78 | 151,19 | 14,92 | 1755,11 |
| Rata-rata | | 1,80 | 20,95 | | | |

$$Y = 20,61 + 0,19 X$$

$$R^2 = 0,25$$

$$\text{Standar Deviasi} = 0,81$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,78 | 20,72 | 16,25 | 0,62 | 429,25 |
| 2 | 17.15-17.30 | 1,77 | 20,31 | 36,01 | 3,14 | 412,56 |
| 3 | 17.30-17.45 | 1,28 | 19,98 | 25,62 | 1,64 | 399,27 |
| 4 | 17.45-18.00 | 0,99 | 21,03 | 20,89 | 0,99 | 442,19 |
| Total | | 4,83 | 82,04 | 98,77 | 6,39 | 1683,27 |
| Rata-rata | | 1,21 | 20,51 | | | |

$$Y = 21,28 + (-0,64) X$$

$$R^2 = 0,35$$

$$\text{Standar Deviasi} = 0,43$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,57 | 20,72 | 32,50 | 2,46 | 429,25 |
| 2 | 17.15-17.30 | 1,06 | 20,31 | 21,61 | 1,13 | 412,56 |
| 3 | 17.30-17.45 | 1,60 | 19,98 | 32,02 | 2,57 | 399,27 |
| 4 | 17.45-18.00 | 1,99 | 21,03 | 41,78 | 3,95 | 442,19 |
| Total | | 6,22 | 82,04 | 127,91 | 10,11 | 1683,27 |
| Rata-rata | | 1,56 | 20,51 | | | |

$$Y = 19,43 + 0,69 X$$

$$R^2 = 0,33$$

$$\text{Standar Deviasi} = 0,38$$

Arah : utara-selatan

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Suryowijayan

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,23 | 21,59 | 26,65 | 1,52 | 465,98 |
| 2 | 08.15-08.30 | 2,06 | 21,36 | 43,94 | 4,23 | 456,11 |
| 3 | 08.30-08.45 | 1,79 | 22,09 | 39,61 | 3,22 | 487,75 |
| 4 | 08.45-09.00 | 0,77 | 20,87 | 16,05 | 0,59 | 435,42 |
| Total | | 5,86 | 85,90 | 126,26 | 9,57 | 1845,26 |
| Rata-rata | | 1,46 | 21,47 | | | |

$$Y = 20,70 + 0,53$$

$$R^2 = 0,36$$

$$\text{Standar Deviasi} = 0,58$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 2,06 | 21,59 | 44,42 | 4,23 | 465,98 |
| 2 | 08.15-08.30 | 1,23 | 21,36 | 26,37 | 1,52 | 456,11 |
| 3 | 08.30-08.45 | 1,35 | 22,09 | 29,71 | 1,81 | 487,75 |
| 4 | 08.45-09.00 | 0,77 | 20,87 | 16,05 | 0,59 | 435,42 |
| Total | | 5,41 | 85,90 | 116,55 | 8,16 | 1845,26 |
| Rata-rata | | 1,35 | 21,47 | | | |

$$Y = 20,77 + 0,52 X$$

$$R^2 = 0,30$$

$$\text{Standar Deviasi} = 0,53$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,37 | 21,42 | 29,44 | 1,89 | 458,75 |
| 2 | 13.15-13.30 | 1,17 | 19,43 | 22,77 | 1,37 | 377,52 |
| 3 | 13.30-13.45 | 1,43 | 18,10 | 25,94 | 2,06 | 327,43 |
| 4 | 13.45-14.00 | 0,79 | 21,69 | 17,21 | 0,63 | 470,38 |
| Total | | 4,77 | 80,63 | 95,37 | 5,95 | 1634,08 |
| Rata-rata | | 1,19 | 20,16 | | | |

$$Y = 24,27 + (-3,44) X$$

$$R^2 = 0,34$$

$$\text{Standar Deviasi} = 0,29$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,37 | 21,42 | 29,44 | 1,89 | 458,75 |
| 2 | 13.15-13.30 | 1,17 | 19,43 | 22,77 | 1,37 | 377,52 |
| 3 | 13.30-13.45 | 1,79 | 18,10 | 32,43 | 3,21 | 327,43 |
| 4 | 13.45-14.00 | 0,79 | 21,69 | 17,21 | 0,63 | 470,38 |
| Total | | 5,13 | 80,63 | 101,85 | 7,10 | 1634,08 |
| Rata-rata | | 1,28 | 20,16 | | | |

$$Y = 24,12 + (-3,09) X$$

$$R^2 = 0,57$$

$$\text{Standar Deviasi} = 0,42$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 2,02 | 20,81 | 42,13 | 4,10 | 433,19 |
| 2 | 17.15-17.30 | 1,59 | 21,48 | 34,22 | 2,54 | 461,18 |
| 3 | 17.30-17.45 | 1,23 | 21,72 | 26,71 | 1,51 | 471,90 |
| 4 | 17.45-18.00 | 0,77 | 21,35 | 16,36 | 0,59 | 455,96 |
| Total | | 5,61 | 85,37 | 119,43 | 8,74 | 1822,24 |
| Rata-rata | | 1,40 | 21,34 | | | |

$$Y = 21,96 + (-0,44) X$$

$$R^2 = 0,37$$

$$\text{Standar Deviasi} = 0,53$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 0,81 | 20,81 | 16,85 | 0,66 | 433,19 |
| 2 | 17.15-17.30 | 1,99 | 21,48 | 42,78 | 3,97 | 461,18 |
| 3 | 17.30-17.45 | 1,23 | 21,72 | 26,71 | 1,51 | 471,90 |
| 4 | 17.45-18.00 | 0,77 | 21,35 | 16,36 | 0,59 | 455,96 |
| Total | | 4,80 | 85,37 | 102,70 | 6,72 | 1822,24 |
| Rata-rata | | 1,20 | 21,34 | | | |

$$Y = 20,95 + 0,33 X$$

$$R^2 = 0,24$$

$$\text{Standar Deviasi} = 0,57$$

Arah : selatan-utara

Hari/Tanggal : Rabu, 21 November 2018

Cuaca : cerah

Lokasi : ruas Jl. Suryowijayan

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,99 | 22,80 | 45,41 | 3,97 | 519,69 |
| 2 | 08.15-08.30 | 1,66 | 22,39 | 37,16 | 2,75 | 501,39 |
| 3 | 08.30-08.45 | 0,82 | 22,38 | 18,42 | 0,68 | 500,64 |
| 4 | 08.45-09.00 | 2,80 | 21,38 | 59,86 | 7,84 | 457,03 |
| Total | | 7,27 | 88,94 | 160,85 | 15,24 | 1978,75 |
| Rata-rata | | 1,82 | 22,24 | | | |

$$Y = 23,06 + (-0,45) X$$

$$R^2 = 0,37$$

$$\text{Standar Deviasi} = 0,82$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 08.00-08.15 | 1,20 | 22,80 | 27,25 | 1,43 | 519,69 |
| 2 | 08.15-08.30 | 0,83 | 22,39 | 18,58 | 0,69 | 501,39 |
| 3 | 08.30-08.45 | 1,65 | 22,38 | 36,83 | 2,71 | 500,64 |
| 4 | 08.45-09.00 | 2,40 | 21,38 | 51,31 | 5,76 | 457,03 |
| Total | | 6,07 | 88,94 | 133,97 | 10,59 | 1978,75 |
| Rata-rata | | 1,52 | 22,24 | | | |

$$Y = 23,37 + (0,75) X$$

$$R^2 = 0,70$$

$$\text{Standar Deviasi} = 0,68$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 0,76 | 20,57 | 15,70 | 0,58 | 423,19 |
| 2 | 13.15-13.30 | 1,19 | 21,54 | 25,64 | 1,42 | 464,04 |
| 3 | 13.30-13.45 | 2,22 | 19,77 | 43,92 | 4,94 | 390,66 |
| 4 | 13.45-14.00 | 1,38 | 20,40 | 28,23 | 1,92 | 416,02 |
| Total | | 5,56 | 82,28 | 113,50 | 8,85 | 1693,92 |
| Rata-rata | | 1,39 | 20,57 | | | |

$$Y = 21,64 + (-0,77) X$$

$$R^2 = 0,41$$

$$\text{Standar Deviasi} = 0,61$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 13.00-13.15 | 1,91 | 20,57 | 39,26 | 3,64 | 423,19 |
| 2 | 13.15-13.30 | 1,59 | 21,54 | 34,19 | 2,52 | 464,04 |
| 3 | 13.30-13.45 | 1,85 | 19,77 | 36,60 | 3,43 | 390,66 |
| 4 | 13.45-14.00 | 2,08 | 20,40 | 42,35 | 4,31 | 416,02 |
| Total | | 7,42 | 82,28 | 152,40 | 13,90 | 1693,92 |
| Rata-rata | | 1,86 | 20,57 | | | |

$$Y = 25,02 + (-2,40) X$$

$$R^2 = 0,44$$

$$\text{Standar Deviasi} = 0,20$$

| Becak Kayuh | | | | | | |
|-------------|-------------|------|-------|-------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,06 | 20,43 | 21,58 | 1,12 | 417,32 |
| 2 | 17.15-17.30 | 0,70 | 21,22 | 14,94 | 0,50 | 450,22 |
| 3 | 17.30-17.45 | 1,37 | 20,06 | 27,39 | 1,86 | 402,47 |
| 4 | 17.45-18.00 | 1,56 | 20,56 | 32,12 | 2,44 | 422,51 |
| Total | | 4,69 | 82,26 | 96,03 | 5,92 | 1692,51 |
| Rata-rata | | 1,17 | 20,57 | | | |

$$Y = 21,65 + (-0,93) X$$

$$R^2 = 0,52$$

$$\text{Standar Deviasi} = 0,38$$

| Becak Motor | | | | | | |
|-------------|-------------|------|-------|--------|----------------|----------------|
| No | Waktu | X | Y | XY | X ² | Y ² |
| 1 | 17.00-17.15 | 1,41 | 20,43 | 28,77 | 1,98 | 417,32 |
| 2 | 17.15-17.30 | 1,06 | 21,22 | 22,41 | 1,12 | 450,22 |
| 3 | 17.30-17.45 | 1,37 | 20,06 | 27,39 | 1,86 | 402,47 |
| 4 | 17.45-18.00 | 1,56 | 20,56 | 32,12 | 2,44 | 422,51 |
| Total | | 5,39 | 82,26 | 110,69 | 7,40 | 1692,51 |
| Rata-rata | | 1,35 | 20,57 | | | |

$$Y = 22,66 + (-1,55) X$$

$$R^2 = 0,47$$

$$\text{Standar Deviasi} = 0,21$$