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LAMPIRAN

Perhitungan Data Pada Sektor Pertanian

1. Tahun 1991-2001

$$rij = \frac{y*ij - yij}{yij} = \frac{22.085 - 19.334}{19.334} = 0,142288196$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.642.724 - 929.093}{929.093} = 1,844412776$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 5.057.747}{5.057.747} = 1,591985917$$

Nij = yij . rn = 19.334 . 1,591985917 = 30.779,46

Mij = yij (rin – rn) = 19.334 (1,844412776 – 1,591985917)
= 4.880,42

Cij = yij (rij – rin) = 19.334 (0,142288196 –1,844412776)
= -32.908,88

Dij = Nij + Mij + Cij = 30.779,46 + 4.880,42 – 32.908,88
= 2.751

2. Tahun 1992

$$rij = \frac{y*ij - yij}{yij} = \frac{21.380 - 19.334}{19.334} = 0,105823937$$

$$rin = \frac{y*in - yin}{yin} = \frac{972,581 - 929,093}{929.093} = 0,046806939$$

$$rn = \frac{y*n - yn}{yn} = \frac{5.307.857 - 50.057.747}{5.057.747} = 0,49450872$$

Nij = yij . rn = 19.334 . 0,49450872 = 956,08

Mij = yij (rin – rn) = 19.334 (0,046806939 – 0,049450872)
= -51,12

Cij = yij (rij – rin) = 19.334 (0,105823937 – 0,046806939)
= 2.045,99

Dij = Nij + Mij + Cij = 956,08 + (-51,12) + 2.045,99
= 2.950,95

3. Tahun 1993

$$rij = \frac{y*ij - yij}{yij} = \frac{16.798 - 21.380}{21.380} = -0,214312441$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.015.257 - 972.581}{972.581} = 1,072071117$$

$$rn = \frac{y*n - yn}{yn} = \frac{10.736.165 - 5.307.857}{5.307.857} = 1,022692962$$

Nij = yij . rn = 21.380 . 1,022692962 = 21.865,18

Mij = yij (rin – rn) = 21.380 (1,072071117 – 1,022692962)
= 1.055,70

Cij = yij (rij – rin) = 21.380 (-0,214312441 – 1,072071117)
= -27.502,88

Dij = Nij + Mij + Cij = 21.865,18 + 1.055,70 + (-27.502,88)
= -4.582

4. Tahun 1994

$$rij = \frac{y*ij - yij}{yij} = \frac{16.824 - 16.798}{16798} = 0,0015478033$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.211.374 - 2.015.257}{2.015.257} = 0,097316123$$

$$rn = \frac{y*n - yn}{yn} = \frac{11.515.291 - 10.736.165}{10.736.165} = 0,072570233$$

Nij = yij . rn = 16.798 . 0,072570233 = 1.219,03

Mij = yij (rin – rn) = 16.798 (0,097316123 – 0,072570233)
= 415,68

Cij = yij (rij – rin) = 16.798 (0,0015478033 - 0,097316123)
= -1.608,72

Dij = Nij + Mij + Cij = 1.219,03 + 415,68 – 1.608,72
= 25,99

5. Tahun 1995

$$rij = \frac{y*ij - yij}{yij} = \frac{17.912 - 16.824}{16.824} = 0{,}064669519$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.448.499 - 2.211.374}{2.211.374} = 0{,}107229713$$

$$rn = \frac{y*n - yn}{yn} = \frac{12.515.761 - 11.515.291}{11.515.291} = 0{,}086881868$$

$Nij = yij \,.\, rn$ = 16.824 . 0,086881868 = 1.461,70

$Mij = yij\,(rin - rn)$ = 16.824 (0,107229713 - 0,086881868)
= 342,33

$Cij = yij\,(rij - rin)$ = 16.824 (0,064669519 – 0,107229713)
= -716,03

$Dij = Nij + Mij + Cij$ = 1.461,70 + 342,33 + (-716,03)
= 1.088

6. Tahun 1996

$$rij = \frac{y*ij - yij}{yij} = \frac{19.163 - 17.912}{17.912} = 0{,}069841447$$

$$rin = \frac{y*in - yin}{yin} = \frac{2{,}625{,}699 - 2{,}448{,}499}{2.448.499} = 0{,}072370868$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.567.727 - 12.515.761}{12.515.761} = 0{,}084051301$$

$Nij = yij \,.\, rn - 17.912$. 0,084051301 = 1.505,53

$Mij = yij\,(rin - rn)$ = 17.912 (0,072370868 – 0,084051301)
= -209,22

$Cij = yij\,(rij - rin)$ = 17.912 (0,069841447 – 0,072370868)
= -45,31

$Dij = Nij + Mij + Cij$ = 1.505,53 + (-209,22) + (-45,31)
= 1.251

7. Tahun 1997

$$rij = \frac{y*ij - yij}{yij} = \frac{19.701 - 19.163}{19.163} = 0{,}028074936$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.632.715 - 2.625.699}{2.625.699} = 0{,}0026720503$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.207.488 - 13.567.727}{13.567.727} = 0{,}047153145$$

Nij = yij . rn = 19.163 . 0,047153145 = 903,60

Mij = yij (rin – rn) = 19.163 (0,0026720503 – 0,047153145)
= -852,39

Cij = yij (rij – rin) = 19.163 (0,028074936 – 0,0026720503)
= 486,80

Dij = Nij + Mij + Cij = 903,60 + (-852,39) + (486,80)
= 538,01

8. Tahun 1998

$$rij = \frac{y*ij - yij}{yij} = \frac{20.083 - 19.701}{19.701} = 0{,}019389878$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.778.719 - 2.632.715}{2.632.715} = 0{,}055457578$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.239.321 - 14.207.488}{14.207.488} = -0{,}06814484$$

Nij = yij . rn = 19.701 (-0,06814484) = -1.342,52

Mij = yij (rin – rn) = 19.701 {0,055457578 – (-0,06814484)}
= 2.435,09

Cij = yij (rij – rin) = 19.701 (0,019389878 – 0,055457578)
= -710,57

Dij = Nij + Mij + Cij = -1.342,52 + 2.435,09 – 710,57
= 382,00

9. Tahun 1999

$$rij = \frac{y^{*}ij - yij}{yij} = \frac{21,438 - 20,083}{20.083} = 0,06769999$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{2.840.526 - 2.778.719}{2.778.719} = 0,022242983$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{13.659.787 - 13.239.321}{13.239.321} = 0,031758879$$

Nij = yij . rn = 20.083 (0,031758879) = 637,81

Mij = yij (rin rn) = 20.083 (0,022242983 – 0,031758879)

= -191,11

Cij = yij (rij – rin) = 20.083 (0,067469999 – 0,022242983)

= 908,29

Dij = Nij + Mij + Cij = 637,81 + (-191,11) + 908,29

= 1.354,99

10. Tahun 2000

$$rij = \frac{y^{*}ij - yij}{yij} = \frac{21.759 - 21.438}{21.438} = 0,014973411$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{2.978.527 - 2.840.526}{2.840.526} = 0,048582903$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{14.468.495 - 13.659.787}{13.659.787} = 0,059203558$$

Nij = yij . rn = 21.438 . 0,059203558 = 1.269,21

Mij = yij (rin – rn) = 21.438 (0,048582903 – 0,059203558)

= -227,69

Cij = yij (rij – rin) = 21.438 (0,014973411 – 0,048582903)

= -720,52

Dij = Nij + Mij + Cij = 1.269,21 + (-227,69) + (-720,52)

= 321,00

11. Tahun 2001

$$rij = \frac{y*ij - yij}{yij} = \frac{22.085 - 21.759}{21.759} = 0{,}014982306$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.642.724 - 2.978.527}{2.978.527} = -0{,}112741297$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 14.468.495}{14.468.495} = -0{,}093920342$$

Nij = yij . rn = 21.759 (-0,093920342) = -2.043,61

Mij = yij (rin – rn) = 21.759 {-0,112741297 – (-0,093920342)}
= -409,53

Cij = yij (rij – rin) = 21.759 {0,014982306 – (-0,112741297)}
= 2.779,14

Dij = Nij + Mij + Cij = -2.043,61 + (-409,53) + 2.779,14
= 326,00

Perhitungan Data Pada Sektor Pertambangan dan Penggalian

1. Tahun 1991-2001

$$rij = \frac{y*ij - yij}{yij} = \frac{0 - 0}{0} = 0$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.583.239 - 1.100.167}{1.100.167} = 1{,}348042615$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 5.057.747}{5.057.747} = 1{,}591985917$$

Nij = yij . rn = 0 . 1,591985917 = 0

Mij = yij (rin – rn) = 0 (1,348042615 – 1,591985917)
= 0

Cij = yij (rij – rin) = 0 (0 – 1,348042615)
= 0

Dij = Nij + Mij + Cij = 0 +0 + 0
= 0

2. Tahun 1992

$$rij = \frac{y^*ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y^*in - yin}{yin} = \frac{1.124.974 - 1.100.167}{1.100.167} - 0{,}022548394$$

$$rn = \frac{y^*n - yn}{yn} = \frac{5.307.857 - 5.057.747}{5.057.747} = 0{,}049450872$$

Nij = yij . rn = 0 . 0,049450872 = 0

Mij = yij (rin - rn) = 0 (0,022548394 – 0,049450872)
= 0

Cij = yij (rij – rin) = 0 (0 – 0,022548394)
= 0

Dij = Nij + Mij + Cij = 0 + 0 + 0
= 0

3. Tahun 1993

$$rij = \frac{y^*ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y^*in - yin}{yin} = \frac{1.907.221 - 1.124.974}{1.124.974} = 0{,}695346736$$

$$rn = \frac{y^*n - yn}{yn} = \frac{10.736.165 - 5.307.857}{5.307.857} = 1{,}022692962$$

Nij = yij . rn = 0 . 1,022692962 = 0

Mij = yij (rin – rn) = 0 (0,695346736 - 1,022692962)
= 0

Cij = yij (rij – rin) = 0 (0 – 0,695346736)
= 0

Dij = Nij + Mij + Cij = 0 + 0 + 0
= 0

4. Tahun 1994

$$rij - \frac{y^{*}ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{1.896.768 - 1.907.221}{1.907.221} = -0{,}005480749$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{11.515.291 - 10.736.165}{10.736.165} = 0{,}072570233$$

$Nij = yij \,.\, rn = 0 \,.\, 0{,}072570233 = 0$

$Mij = yij\,(rin - rn) = 0\,(-0{,}005480749 - 0{,}072570233) - 0$

$Cij = yij\,(rij - rin) = 0\,\{0 - (-0{,}005480749)\} = 0$

$Dij = Nij + Mij + Cij = 0 + 0 + 0 = 0$

5. Tahun 1995

$$rij = \frac{y^{*}ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{1.996.897 - 1.896.768}{1.896.768} = 0{,}052789271$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{12.515.761 - 11.515.291}{11.515.291} = 0{,}086881868$$

$Nij = yij \,.\, rn = 0 \,.\, 0{,}086881868 = 0$

$Mij = yij\,(rin - rn) = 0\,(0{,}052789271 - 0{,}086881868) = 0$

$Cij = yij\,(rij - rin) = 0\,(0 - 0{,}052789271) = 0$

$Dij = Nij + Mij + Cij = 0 + 0 + 0 = 0$

6. Tahun 1996

$$rij = \frac{y*ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.168.786 - 1.996.897}{1.996.897} = 0{,}08607805$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.567.727 - 12.515.761}{12.515.761} = 0{,}084051301$$

$Nij = yij \,.\, rn \quad = 0 \,.\, 0{,}084051301 = 0$

$Mij = yij\,(rin - rn) \quad = 0\,(0{,}08607805 - 0{,}084051301)$

$= 0$

$Cij = yij\,(rij - rin) \quad = 0\,(0 - 0{,}08607805)$

$= 0$

$Dij = Nij + Mij + Cij \quad = 0 + 0 + 0$

$= 0$

7. Tahun 1997

$$rij = \frac{y*ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.256.923 - 2.168.786}{2.168.786} = 0{,}040638864$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.207.488 - 13.567.727}{13.567.727} = 0{,}047153145$$

$Nij = yij \,.\, rn \quad = 0 \,.\, 0{,}047153145 = 0$

$Mij = yij\,(rin - rn) \quad = 0\,(0{,}040638864 - 0{,}047153145)$

$= 0$

$Cij = yij\,(rij - rin) \quad = 0\,(0 - 0{,}040638864)$

$= 0$

$Dij = Nij + Mij + Cij \quad = 0 + 0 + 0$

$= 0$

8. Tahun 1998

$$rij = \frac{y^{*}ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{2.264.414 - 2.256.923}{2.256.923} = 0{,}0033191207$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{13.239.321 - 14.207.488}{14.207.488} = -0{,}06814484$$

$Nij = yij \cdot rn = 0\ (-0{,}06814484) = 0$

$Mij = yij\ (rin - rn) = 0\ \{0{,}0033191207 - (-0{,}06814484)\}$

$= 0$

$Cij = yij\ (rij - rin) = 0\ (0 - 0{,}0033191207)$

$= 0$

$Dij = Nij + Mij + Cij = 0 + 0 + 0$

$= 0$

9. Tahun 1999

$$rij = \frac{y^{*}ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{2.445.434 - 2.264.414}{2.264.414} = 0{,}079941212$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{13.659.787 - 13.239.321}{13.239.321} = 0{,}031758879$$

$Nij = yij \cdot rn = 0 \cdot 0{,}031758879 = 0$

$Mij = yij\ (rin - rn) = 0\ (0{,}079941212 - 0{,}031758879)$

$= 0$

$Cij = yij\ (rij - rin) = 0\ (0 - 0{,}079941212)$

$= 0$

$Dij = Nij + Mij + Cij = 0 + 0 + 0$

$= 0$

10. Tahun 2000

$$rij = \frac{y*ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.787.200 - 2.445.434}{2.445.434} = 0,139756787$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.468.495 - 13.659.787}{13.659.787} = 0,059203558$$

$Nij = yij \,.\, rn = 0 \,.\, 0,059203558 = 0$

$Mij = yij\,(rin - rn) = 0\,(0,139756787 - 0,059203558)$

$= 0$

$Cij = yij\,(rij - rin) = 0\,(0 - 0,139756787)$

$= 0$

$Dij = Nij + Mij + Cij = 0 + 0 + 0$

$= 0$

11. Tahun 2001

$$rij = \frac{y*ij - yij}{yij} = \frac{0-0}{0} = 0$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.583.239 - 2.787.200}{2.787.200} = -0,073177741$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 14.468.495}{14.468.495} = -0,093920342$$

$Nij = yij \,.\, rn = 0\ (-0,093920342) = 0$

$Mij = yij\,(rin - rn) = 0\,\{-0,073177741 - (-0,093920342)\}$

$= 0$

$Cij = yij\,(rij - rin) = 0\,\{0 - (-0,073177741)\}$

$= 0$

$Dij = Nij + Mij + Cij = 0 + 0 + 0$

$= 0$

Perhitungan Data Pada Sektor Industri Pengolahan

1. Tahun 1991-2001

$$rij = \frac{y*ij - yij}{yij} = \frac{1.181.850 - 489.537}{489.537} = 1,414219967$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.508.536 - 931.134}{931.134} = 1,694065515$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 5.057.747}{5.057.747} = 1,591985917$$

Nij = yij . rn = 489.537 . 1,591985917 = 779.336,01

Mij = yij (rin – rn) = 489.537 (1,694065515 – 1,591985917)
= 49.971,74

Cij = yij (rij – rin) = 489.537 (1,414219967 – 1,694065515)
= -136.994,75

Dij = Nij + Mij + Cij = 779.336,01 + 49.971,74 – 136.994,75
= 692.313

2. Tahun 1992

$$rij = \frac{y*ij - yij}{yij} = \frac{560.344 - 489.537}{489.537} = 0,144640752$$

$$rin = \frac{y*in - yin}{yin} = \frac{989.394 - 931.134}{931.134} = 0,062568867$$

$$rn = \frac{y*n - yn}{yn} = \frac{5.307.857 - 5.057.747}{5.057.747} = 0,049450872$$

Nij = yij . rn = 489.537 . 0,049450872 = 24.208,03

Mij = yij (rin – rn) = 489.537 (0,062568867 – 0,049450872)
= 6.421,74

Cij = yij (rij – rin) = 489.537 (0,144640752 – 0,062568867)
= 40.177,22

Dij = Nij + Mij + Cij = 24.208,03 + 6.421,74 + 40.177,22
= 70.806,99

3. Tahun 1993

$$rij = \frac{y*ij - yij}{yij} = \frac{792.170 - 560.344}{560.344} = 0{,}413720857$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.143.078 - 989.394}{989.394} = 1{,}166051138$$

$$rn = \frac{y*n - yn}{yn} = \frac{10.736.165 - 5.307.857}{5.307.857} = 1{,}022692962$$

Nij = yij . rn = 560.344 . 1,022692962 = 573.059,87

Mij = yij (rin – rn) = 560.344 (1,166051138 – 1,022692962)
= 80.329,89

Cij = yij (rij – rin) = 560.344 (0,413720857 – 1,166051138)
= -421.563,76

Dij = Nij + Mij + Cij = 573.029,87 + 80.329,89 + (-421.563,76)
= 231.826

4. Tahun 1994

$$rij = \frac{y*ij - yij}{yij} = \frac{878.836 - 792.170}{792.170} = 0{,}109403284$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.319.431 - 2.143.078}{2.143.078} = 0{,}082289585$$

$$rn = \frac{y*n - yn}{yn} = \frac{11.515.291 - 10.736.165}{10.736.165} = 0{,}072570233$$

Nij = yij . rn = 792.170 . 0,072570233= 57.487,96

Mij = yij (rin – rn) = 792.170 (0,082289585 – 0,072570233)
= 7.699,38

Cij = yij (rij – rin) = 792.170 (0,109403284 – 0,082289585)
= 21.478,66

Dij = Nij + Mij + Cij = 57.487,96 + 7.699,38 + 21.478,66
= 86.666

5. Tahun 1995

$$rij = \frac{y^*ij - yij}{yij} = \frac{993.000 - 878.836}{878.336} = 0{,}129903645$$

$$rin = \frac{y^*in - yin}{yin} = \frac{2.575.067 - 255.636}{2.319.431} = 0{,}110214962$$

$$rn = \frac{y^*n - yn}{yn} = \frac{12.515.761 - 11.515.291}{11.515.291} = 0{,}086881868$$

Nij = yij . rn = 878.836 . 0,086881868 = 76.354,91

Mij = yij (rin – rn) = 878.836 (0,110214962 – 0,086881868)
= 20.505,96

Cij = yij (rij – rin) = 878.836 (0,129903645 – 0,110214962)
= 17.303,12

Dij = Nij + Mij + Cij = 76.354 + 20.505,96 + 17.303,12
= 114.163,99

6. Tahun 1996

$$rij = \frac{y^*ij - yij}{yij} = \frac{1.099.679 - 993.000}{993.000} = 0{,}107431017$$

$$rin = \frac{y^*in - yin}{yin} = \frac{2.833.769 - 2.575.067}{2.575.067} = 0{,}100464182$$

$$rn = \frac{y^*n - yn}{yn} = \frac{13.567.727 - 12.515.761}{12.515.761} = 0{,}084051301$$

Nij = yij . rn = 993.000 . 0,084051301 = 83.462,94

Mij = yij (rin – rn) = 993.000 (0,100464182 – 0,084051301)
= 16.297,99

Cij = yij (rij – rin) = 993.000 (0,107431017 – 0,100464182)
= 6.918,07

Dij = Nij + Mij + Cij = 83.462,94 + 16.297,99 + 6.918,07
= 106.679

7. Tahun 1997

$$rij = \frac{y*ij - yij}{yij} = \frac{1.160.633 - 1.099.679}{1.099.679} = 0{,}055428902$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.971.611 - 2.833.769}{2.833.769} = 0{,}048642638$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.207.488 - 13.567.727}{13.567.727} = 0{,}047153145$$

Nij = yij . rn = 1.099.679 . 0,047153145 = 51.853,32

Mij = yij (rin – rn) = 1.099.679 (0,048642638 – 0,047153145)
= 1.637,96

Cij = yij (rij – rin) = 1.099.679 (0,055428902 – 0,048642638)
= 7.462,71

Dij = Nij + Mij + Cij = 51.853,32 + 1.637,98 + 7.462,71
= 60.954,01

8. Tahun 1998

$$rij = \frac{y*ij - yij}{yij} = \frac{1.093.760 - 1.160.633}{1.160.633} = -0{,}057617696$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.703.764 - 1.160.633}{2.971.611} = -0{,}090135283$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.239.321 - 14.207.488}{14.207.488} = -0{,}06814484$$

Nij = yij . rn = 1.160.633 . (-0,06814484) = -79.091,15

Mij = yij (rin – rn) = 1.160.633 {-0,090135283 – (-0,06814484)}
= 1.160.633 (-0,021990443) = -25.522,83

Cij = yij (rij – rin) = 1.160.633 {-0,057617696 –(-0,090135283)}
= 1.160.633 (0,032517587) = 37.740,98

Dij = Nij + Mij + Cij = -79.091,15 + (-25.522,83) + 37.740,98
= -66.873

9. Tahun 1999

$$rij = \frac{y*ij - yij}{yij} = \frac{1.131.430 - 1.093.760}{1.093.760} = 0{,}034440827$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.701.062 - 2.703.764}{2.703.764} = -0{,}0009993475$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.659.787 - 13.239.321}{13.239.321} = 0{,}031758879$$

Nij = yij . rn = 1.093.760 . 0,031758879 = 34.736,59

Mij = yij (rin – rn) = 1.093.760 (-0,0009993475 – 0,031758879)
– -35.829,64

Cij = yij (rij – rin) = 1.093.760 {0,034440827 –(-0,0009993475)}
= 38.763,05

Dij = Nij + Mij + Cij = 34.736,59 + (-35.829,64) + 38.763,05
= 37.670

10. Tahun 2000

$$rij = \frac{y*ij - yij}{yij} = \frac{1.158.676 - 1.131.430}{1.131.430} = 0{,}02408103$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.811.363 - 2.701.062}{2.701.062} = 0{,}040836159$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.468.495 - 13.659.787}{13.659.787} = 0{,}059203558$$

Nij = yij . rn = 1.131.430 . 0,059203558 = 66.984,68

Mij = yij (rin – rn) = 1.131.430 (0,040836159 – 0,059203558)
= -20.781,43

Cij = yij (rij – rin) = 1.131.430 (0,02408103 – 0,040836159)
= -18.957,26

Dij = Nij + Mij + Cij = 66.984,68 + (-20.781,43) + (-18.957,26)
= 27.245,99

II. Tahun 2001

$$rij = \frac{y*ij - yij}{yij} = \frac{1.181.850 - 1.158.676}{1.158.676} = 0,020000414$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.508.536 - 2.811.363}{2.811.363} = -0,107715367$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 14.468.495}{14.468.495} = -0,093920342$$

Nij = yij . rn = 1.158.676 (-0,093920342)= -108.823,25

Mij = yij (rin – rn) = 1.158.676 {-0,107715367 – (-0,093920342)}

= 1.158.676 (-0,013795025) = -15.983,96

Cij = yij (rij – rin) = 1.158.676 {0,020000414 – (-0,107715367)}

= 1.158.676 (0,127715774) = 147.981,20

Dij = Nij + Mij + Cij = -108.823,25 – 15.983,96 + 147.981,20

= 23.173,99

Perhitungan Data Pada Sektor Listrik, Gas dan Air Bersih

1. Tahun 1991-2001

$$rij = \frac{y*ij - yij}{yij} = \frac{81.178 - 16.879}{16.879} = 3,80940814$$

$$rin = \frac{y*in - yin}{yin} = \frac{114.226 - 26.598}{26.598} = 3,294533423$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 5.057.747}{5.057.747} = 1,591985917$$

Nij = yij . rn = 16.879 . 1,591985917 = 26.871,13

Mij = yij (rin – rn) = 16.879 (3,294533423 – 1,591985917)

= 28.737,30

Cij = yij (rij – rin) = 16.879 (3,80940814 – 3,294533423)

= 8.690,57

Dij = Nij + Mij + Cij = 26.871,13 + 28.737,30 + 8.690,57

= 64.299

2. Tahun 1992

$$rij = \frac{y*ij - yij}{yij} = \frac{19.300 - 16.879}{16.879} = 0{,}143432667$$

$$rin = \frac{y*in - yin}{yin} = \frac{27.253 - 26.598}{26.598} - 0{,}024625911$$

$$rn = \frac{y*n - yn}{yn} = \frac{5.307.857 - 5.057.747}{5.057.747} = 0{,}049450872$$

Nij = yij . rn = 16.879 . 0,049450872 = 834,68

Mij = yij (rin – rn) = 16.879 (0,024625911 - 0049450872)
= -419,02

Cij = yij (rij – rin) = 16.879 (0,143432667 – 0,024625911)
= 2.005,34

Dij = Nij + Mij + Cij = 834,68 + (-419,02) + 2.005,34
= 2.421

3. Tahun 1993

$$rij = \frac{y*ij - yij}{yij} = \frac{39.986 - 19.300}{19.300} = 1{,}071813471$$

$$rin = \frac{y*in - yin}{yin} = \frac{68.509 - 27.253}{27.253} = 1{,}513814992$$

$$rn = \frac{y*n - yn}{yn} = \frac{10.736.165 - 5.307.857}{5.307.857} = 1{,}022692962$$

Nij = yij . rn = 19.300 . 1,022692962= 834,86

Mij = yij (rin – rn) = 19.300 (1,513814992 – 1,022692962)
= 9.478,66

Cij = yij (rij – rin) = 19.300 (1,071813471 – 1,513814992)
= -8.530,63

Dij = Nij + Mij + Cij = 19.737,97 + 9.478,66 - 8.530,63
= 20.686

4. Tahun 1994

$$rij = \frac{y*ij - yij}{yij} = \frac{43.297 - 39.986}{39.986} = 0{,}082803981$$

$$rin = \frac{y*in - yin}{yin} = \frac{77.251 - 68.509}{68.509} = 0{,}127603672$$

$$rn = \frac{y*n - yn}{yn} = \frac{11.515.291 - 10.736.165}{10.736.165} = 0{,}072570233$$

Nij = yij . rn = 39.986 . 0,072570233 = 2.901,79

Mij = yij (rin – rn) = 39.986 (0,127603672 – 0,072570233)
= 2.200,57

Cij = yij (rij – rin) = 39.986 (0,082803981 – 0,127603672)
= -1.791,36

Dij = Nij + Mij + Cij = 2.901,79 + 2.200,57 - 1.791,36
= 3.311

5. Tahun 1995

$$rij = \frac{y*ij - yij}{yij} = \frac{47.280 - 43.297}{43.297} = 0{,}091992516$$

$$rin = \frac{y*in - yin}{yin} = \frac{86.693 - 77.291}{77.291} = 0{,}121644175$$

$$rn = \frac{y*n - yn}{yn} = \frac{12.515.761 - 11.515.291}{11.515.291} = 0{,}086881868$$

Nij = yij . rn = 43.297 . 0,086881868 = 3.761,72

Mij = yij (rin – rn) = 43.297 (0,121644175 – 0,086881868)
= 1.515,10

Cij = yij (rij – rin) = 43.297 (0,091992516 – 0,121644175)
= -1.283,83

Dij = Nij + Mij + Cij = 3.761,72 + 1.505,10 - 1.283,83
= 3.982,99

6. Tahun 1996

$$rij = \frac{y*ij - yij}{yij} = \frac{52.124 - 47.280}{47.280} = 0{,}102453468$$

$$rin = \frac{y*in - yin}{yin} = \frac{98.209 - 86.693}{86.693} = 0{,}132836561$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.567.727 - 12.515.761}{12.515.761} = 0{,}084051301$$

Nij = yij . rn = 47.280 . 0,084051301 = 3.973,95

Mij = yij (rin – rn) = 47.280 (0,132836561 – 0,084051301)
= 2.306,57

Cij = yij (rij – rin) = 47.280 (0,102453468 – 0,132836561)
= -1.436,51

Dij = Nij + Mij + Cij = 3.973,95 + 2.306,57 - 1.436,51
= 4.844,01

7. Tahun 1997

$$rij = \frac{y*ij - yij}{yij} = \frac{57.797 - 52.124}{52.124} = 0{,}10883662$$

$$rin = \frac{y*in - yin}{yin} = \frac{110.482 - 98.209}{98.209} = 0{,}124496818$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.207.488 - 13.567.727}{13.567.727} = 0{,}047153145$$

Nij = yij . rn = 52.124 . 0,047153145 = 2.457,81

Mij = yij (rin – rn) = 52.124 (0,12496818 – 0,047153145)
= 4.056,19

Cij = yij (rij – rin) = 52.124 (0,10883662 – 0,12496818)
= -840,84

Dij = Nij + Mij + Cij = 2.457,81 + 4.056,03 - 840,84
= 5.673

8. Tahun 1998

$$rij = \frac{y*ij - yij}{yij} = \frac{62.478 - 57.797}{57.797} = 0,080990362$$

$$rin = \frac{y*in - yin}{yin} = \frac{115.821 - 110.482}{110.482} = 0,048324613$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.239.321 - 14.207.488}{14.207.488} = -0,06814484$$

Nij = yij . rn = 57.797 (-0,06814484) = -3.938,57

Mij = yij (rin rn) = 57.797 {0,048324613 – (-0,06814484)}

= 6.731,59

Cij = yij (rij – rin) = 57.797 (0,080990362 – 0,048324613)

= 1.887,98

Dij = Nij + Mij + Cij = -3.938,57 + 6.731,59 + 1.887,98

= 4.681

9. Tahun 1999

$$rij = \frac{y*ij - yij}{yij} = \frac{70960 - 62.478}{62.478} = 0,135759787$$

$$rin = \frac{y*in - yin}{yin} = \frac{121.139 - 115.821}{115.821} = 0,04591568$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.659.787 - 13.239.321}{13.239.321} = 0,031758879$$

Nij = yij . rn = 62.478 . 0,031758879 = 1.984,23

Mij = yij (rin – rn) = 62.478 (0,04591568 – 0,031758879)

= 884,49

Cij = yij (rij – rin) = 62.478 (0,135759787 – 0,04591568)

= 5.613,28

Dij = Nij + Mij + Cij = 1.984,23 + 884,49 + 5.613,28

= 8.482

10. Tahun 2000

$$rij = \frac{y*ij - yij}{yij} = \frac{75.270 - 70.960}{70.960} = 0,060738444$$

$$rin = \frac{y*in - yin}{yin} = \frac{126.385 - 121.139}{121.139} = 0,043305624$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.468.495 - 13.659.787}{13.659.787} = 0,059203558$$

Nij = yij . rn = 70.960 . 0,059203558 = 4.201,08

Mij = yij (rin – rn) = 70.960 (0,043305624 – 0,059203558)
= -1.128,12

Cij = yij (rij – rin) = 70.960 (0,060738444 – 0,043305624)
= 1.237,03

Dij – Nij + Mij + Cij = 4.201,08 + (-1.128,12) + 1.237,03
= 4.309,99

11. Tahun 2001

$$rij = \frac{y*ij - yij}{yij} = \frac{81.178 - 75.270}{75.270} = 0,078490766$$

$$rin = \frac{y*in - yin}{yin} = \frac{114.226 - 126.385}{126.385} = -0,096206037$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 14.468.495}{14.468.495} = -0,093920342$$

Nij = yij . rn = 75.270 (-0,093920342) = -7.069,38

Mij = yij (rin – rn) = 75.270 {-0,0962037 – (-0,093920342)}
= 75.270 (-0,002285695) = -172,04

Cij = yij (rij – rin) = 75.270 {0,078490766 – (-0,0962037)}
= 75.270 (0,174696803) – 13.149,43

Dij = Nij + Mij + Cij = -7.069,38 + (-172,04) + 13.149,43
= 5.908,01

Perhitungan Data Pada Sektor Bangunan

1. Tahun 1991-2001

$$rij = \frac{y*ij - yij}{yij} = \frac{129.738 - 25.381}{25.381} = 4,111618928$$

$$rin = \frac{y*in - yin}{yin} = \frac{711.594 - 202.411}{202.411} = 2,515589568$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 5.057.747}{5.057.747} = 1,591985917$$

Nij = yij . rn = 25.381 . 1,591985917 = 40.406,19

Mij = yij (rin – rn) = 25.381 (2,515589568 – 1,591985917)
= 23.441,98

Cij = yij (rij – rin) = 25.381 (4,111618928 2,515589568)
= 40.508,82

Dij = Nij + Mij + Cij = 40.406,19 + 23.441,98 + 40.508,82
= 104.356,99

2. Tahun 1992

$$rij = \frac{y*ij - yij}{yij} = \frac{26.734 - 25.381}{25.381} = 0,053307592$$

$$rin = \frac{y*in - yin}{yin} = \frac{207.241 - 202.411}{202.411} = 0,023862339$$

$$rn = \frac{y*n - yn}{yn} = \frac{5.307.857 - 5.057.747}{5.057.747} = 0,049450872$$

Nij = yij . rn = 25.381 . 0,049450872 = 1.255,11

Mij = yij (rin rn) = 25.381 (0,023862339 – 0,049450872)
= -649,46

Cij = yij (rij – rin) = 25.381 (0,053307592 – 0,023862339)
= 747,35

Dij = Nij + Mij + Cij = 1.255,11 + (-649,46) + 747,35
= 1.353

3. Tahun 1993

$$rij = \frac{y*ij - yij}{yij} = \frac{130.870 - 26.734}{26.734} = 3,895264457$$

$$rin = \frac{y*in - yin}{yin} = \frac{773.589 - 207.241}{207.241} = 2,732799011$$

$$rn = \frac{y*n - yn}{yn} = \frac{10.736.165 - 5.307.857}{5.307.857} = 1,022692962$$

Nij = yij . rn = 26.734 . 1,022692962= 27.340,67

Mij = yij (rin – rn) = 26.734 (2,732799011 – 1,022692962)
= 45.717,98

Cij = yij (rij – rin) = 26.734 (3,895264457 - 2,732799011)
= 31.077,35

Dij = Nij + Mij + Cij = 27.340,67 + 45.717,98 + 31.077,35
= 104.136

4. Tahun 1994

$$rij = \frac{y*ij - yij}{yij} = \frac{142.282 - 130.870}{130.870} = 0,087201039$$

$$rin = \frac{y*in - yin}{yin} = \frac{874.649 - 773.589}{773.589} = 0,130637845$$

$$rn = \frac{y*n - yn}{yn} = \frac{11.515.291 - 10.736.165}{10.736.165} = 0,072570233$$

Nij = yij . rn = 130.870 . 0,072570233 = 9.497,27

Mij = yij (rin – rn) = 130.870 (0,130637845 – 0,072570233)
= 7.599,31

Cij = yij (rij – rin) = 130.870 (0,087201039 – 0,130637845)
= -5.684,58

Dij = Nij + Mij + Cij = 9.497,27 + 7.599,31 -5.684,58
= 11.412

5. Tahun 1995

$$rij = \frac{y*ij - yij}{yij} = \frac{162.088 - 142.282}{142.282} = 0{,}139202428$$

$$rin = \frac{y*in - yin}{yin} = \frac{973.705 - 874.649}{874.649} = 0{,}113252287$$

$$rn = \frac{y*n - yn}{yn} = \frac{12.515.761 - 11.515.291}{11.515.291} = 0{,}086881868$$

$Nij = yij \cdot rn = 142.282 \cdot 0{,}086881868 = 12.361{,}73$

$Mij = yij\,(rin - rn) = 142.282\,(0{,}113252287 - 0{,}086881868)$

$= 3.752{,}04$

$Cij = yij\,(rij - rin) = 142.282\,(0{,}139202428 - 0{,}113252287)$

$= 3.692{,}24$

$Dij = Nij + Mij + Cij = 12.361{,}73 + 3.752{,}04 + 3.692{,}24$

$= 19.806{,}01$

6. Tahun 1996

$$rij = \frac{y*ij - yij}{yij} = \frac{185.996 - 162.088}{162.088} = 0{,}147500123$$

$$rin = \frac{y*in - yin}{yin} = \frac{1.080.564 - 973.705}{973.705} = 0{,}109744737$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.567.727 - 12.515.761}{12.515.761} = 0{,}084051301$$

$Nij = yij \cdot rn = 162.088 \cdot 0{,}084051301 = 13.623{,}71$

$Mij = yij\,(rin - rn) = 162.088\,(0{,}109744737 - 0{,}084051301)$

$= 4.164{,}60$

$Cij = yij\,(rij - rin) = 162.088\,(0{,}147500123 - 0{,}109744737)$

$= 6.119{,}69$

$Dij = Nij + Mij + Cij = 13.623{,}71 + 4.164{,}60 + 6.119{,}69$

$= 23.907{,}99$

7. Tahun 1997

$$rij = \frac{y^*ij - yij}{yij} = \frac{196.998 - 185.996}{185.996} = 0{,}059151809$$

$$rin = \frac{y^*in - yin}{yin} = \frac{1.142.876 - 1.080.564}{1.080.564} = 0{,}057666181$$

$$rn = \frac{y^*n - yn}{yn} = \frac{14.207.488 - 13.567.727}{13.567.727} = 0{,}047153145$$

Nij = yij . rn = 185.996 . 0,047153145 = 8.770,30

Mij = yij (rin – rn) = 185.996 (0,057666181 – 0,047153145)
= 1.955,38

Cij = yij (rij – rin) = 185.996 (0,059151809 - 0,057666181)
= 276,32

Dij = Nij + Mij + Cij = 8.770,30 + 1.955,38 + 276,32
= 11.002

8. Tahun 1998

$$rij = \frac{y^*ij - yij}{yij} = \frac{125.874 - 196.998}{196.998} = -0{,}361039198$$

$$rin = \frac{y^*in - yin}{yin} = \frac{749.499 - 1.142.876}{1.142.876} = -0{,}344199195$$

$$rn = \frac{y^*n - yn}{yn} = \frac{13.239.321 - 14.207.488}{14.207.488} = -0{,}06814484$$

Nij = yij . rn = 196.998 (-0,06814484) = -13.424,40

Mij = yij (rin – rn) = 196.998 {-0,344199195 – (-0,06814484)}
= 196.998 (-0,276054355) = -54.382,16

Cij = yij (rij – rin) = 196.998 {-0,361039198 –(-0,344199195)}
= 196.998 (-0,016840003) = -3.317,45

Dij = Nij + Mij + Cij = -13.424,40 + (-54.382,16) + (-3.317,45)
= -71.124,01

9. Tahun 1999

$$rij = \frac{y*ij - yij}{yij} = \frac{119.762 - 125.874}{125.874} = -0,048556493$$

$$rin = \frac{y*in - yin}{yin} = \frac{767.262 - 749.499}{749.499} = 0,023699831$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.659.787 - 13.239.321}{13.239.321} = 0,031758879$$

Nij = yij . rn = 125.874 . 0,031758879 = 3.997,62

Mij = yij (rin – rn) = 125.874 (0,023699831 – 0,031758879)
= -1.014,42

Cij = yij (rij – rin) = 125.874(-0,048556493 - 0,023699831)
= -9.095,19

Dij = Nij + Mij + Cij = 3.997,62 - 1.014,42 - 9.095,19
= -6.111,99

10. Tahun 2000

$$rij = \frac{y*ij - yij}{yij} = \frac{126.682 - 119.762}{119.762} = 0,057781266$$

$$rin = \frac{y*in - yin}{yin} = \frac{811.601 - 767.262}{767.262} = 0,057788604$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.468.495 - 13.659.787}{13.659.787} = 0,059203558$$

Nij = yij . rn = 119.762 . 0,059203558 = 7.090,34

Mij = yij (rin – rn) = 119.762 (0,057788604 – 0,059203558)
= -169,46

Cij = yij (rij – rin) = 119.762 (0,057781266 – 0,057788604)
= -0,88

Dij = Nij + Mij + Cij = 7.090,34 - 169,46 – 0,88
= 6.920

11. Tahun 2001

$$rij = \frac{y^*ij - yij}{yij} = \frac{139.738 - 126.682}{126.682} = 0{,}024123395$$

$$rin = \frac{y^*in - yin}{yin} = \frac{711.594 - 811.601}{811.601} = -0{,}123221878$$

$$rn = \frac{y^*n - yn}{yn} = \frac{13.109.609 - 14.468.495}{14.468.495} = -0{,}093920342$$

Nij = yij . rn = 126.682 (-0,093920342) = -11.898,02

Mij = yij (rin – rn) = 126.682 {-0,123221878 – (-0,093920342)}

= 126.682 (-0,029301536) = -3.711,98

Cij = yij (rij – rin) = 126.682 {0,024123395 – (-0,123221878)}

= 126.682 (0,147345273) = 18.665,99

Dij = Nij + Mij + Cij = -11.898,02 + (-3.711,98) + 18.665,99

= 3.055,99

Perhitungan Data Pada Sektor Perdagangan, Hotel dan Restoran

1. Tahun 1991-2001

$$rij = \frac{y^*ij - yij}{yij} = \frac{888.753 - 444.118}{444.118} = 1{,}001164105$$

$$rin = \frac{y^*in - yin}{yin} = \frac{2.564.375 - 1.226.330}{1.226.330} = 1{,}091097013$$

$$rn = \frac{y^*n - yn}{yn} = \frac{13.109.609 - 5.057.747}{5.057.747} = 1{,}591985917$$

Nij = yij . rn = 444.118 . 1,591985917 = 707.029,60

Mij = yij (rin – rn) = 444.118 (1,091097013 – 1,591985917)

= -222.453,78

Cij = yij (rij – rin) = 444.118 (1,001164105 – 1,091097013)

= -39.940,82

Dij = Nij + Mij + Cij = 707.029,60 – 222.453,78 – 39.940,82

= 444.635

2. Tahun 1992

$$rij = \frac{y^{*}ij - yij}{yij} - \frac{447.100 - 444.118}{444.118} = 0{,}0067144317$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{1.294.611 - 1.226.330}{1.226.330} = 0{,}05567914$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{5.307.857 - 5.057.747}{5.057.747} = 0{,}049450872$$

Nij = yij . rn = 444.118 . 0,049450872 = 21.962,02

Mij = yij (rin – rn) = 444.118 (0,05567914 – 0,049450872)
= 2.766,09

Cij = yij (rij – rin) = 444.118 (0,0067144317 – 0,05567914)
= -21.746,11

Dij = Nij + Mij + Cij = 21.962,02 + 2.766,09 + (-21.746,11)
= 2.982

3. Tahun 1993

$$rij = \frac{y^{*}ij - yij}{yij} = \frac{503.033 - 447.100}{447.100} = 0{,}125101766$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{1.853.494 - 1.294.611}{1.294.611} = 0{,}43169956$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{10.736.165 - 5.307.857}{5.307.857} = 1{,}022692962$$

Nij = yij . rn = 447.100 . 1,022692962 = 457.246,02

Mij = yij (rin – rn) = 447.100 (0,43169956 – 1,022692962)
= -264.233,15

Cij = yij (rij – rin) = 447.100 (0,125101766 – 0,43169956)
= -137.079,87

Dij = Nij + Mij + Cij = 457.246,02 + (-264.233,15) + (-137.079,87)
= 55.933

4. Tahun 1994

$$rij = \frac{y*ij - yij}{yij} = \frac{553.429 - 503.033}{503.033} = 0{,}100184282$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.021.886 - 853.494}{853.494} = 1{,}368951627$$

$$rn = \frac{y*n - yn}{yn} = \frac{11.515.291 - 10.736.165}{10.736.165} = 0{,}072570233$$

Nij = yij . rn = 503.033 . 0,072570233 = 36.505,22

Mij = yij (rin – rn) = 503.033 (1,368951627 - 0,072570233)
= 652.122,62

Cij = yij (rij – rin) = 503.033 (0,100184282 – 1,368951627)
= -638.231,84

Dij = Nij + Mij + Cij = 36.505,22 + 652.122,62 - 638.231,84
= 23.396

5. Tahun 1995

$$rij = \frac{y*ij - yij}{yij} = \frac{608.358 - 553.429}{553.429} = 0{,}099252117$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.214.940 - 2.021.886}{2.021.886} = 0{,}095482138$$

$$rn = \frac{y*n - yn}{yn} = \frac{12.515.761 - 11.515.291}{11.515.291} = 0{,}086881868$$

Nij = yij . rn = 553.429 . 0,086881868 = 48.082,92

Mij = yij (rin – rn) = 553.429 (0,095482138 – 0,086881868)
= 4.759,64

Cij = yij (rij – rin) = 553.429 (0,099252117 – 0,095482138)
= 2.086,42

Dij = Nij + Mij + Cij = 48.082,95 + 4.759,64 + 2.086,42
= 54.929,01

6. Tahun 1996

$$rij = \frac{y*ij - yij}{yij} = \frac{662.046 - 608.358}{608.358} = 0{,}088250668$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.422.942 - 2.214.940}{2.214.940} = 0{,}093908638$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.567.727 - 12.515.761}{12.515.761} = 0{,}084051301$$

Nij = yij . rn = 608.358 . 0,084051301 = 51.133,28

Mij = yij (rin - rn) = 608.358 (0,093908638 – 0,084051301)
= 5.996,79

Cij = yij (rij – rin) = 608.358 (0,088250668 – 0,093908638)
= -3.442,07

Dij = Nij + Mij + Cij = 51.133,28 + 5.996,79 - 3.442,07
= 53.688

7. Tahun 1997

$$rij = \frac{y*ij - yij}{yij} = \frac{698.916 - 662.046}{662.046} = 0{,}055690994$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.671.832 - 2.422.942}{2.422.942} = 0{,}102722227$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.207.488 - 13.567.727}{13.567.727} = 0{,}047153145$$

Nij = yij . rn = 662.046 . 0,047153145 = 31.217,55

Mij = yij (rin – rn) = 662.046 (0,102722227 – 0,047153145)
= 36.789,29

Cij = yij (rij – rin) = 662.046 (0,055690994 – 0,102722227)
= -31.136,84

Dij = Nij + Mij + Cij = 31.217,55 + 36.789,29 - 31.136,84
= 64.870

8. Tahun 1998

$$rij = \frac{y*ij - yij}{yij} = \frac{682.162 - 698.916}{698.916} = -0,023971407$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.393.505 - 2.671.832}{2.671.832} = -0,104170846$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.239.321 - 14.207.488}{14.207.488} = -0,06814484$$

Nij = yij . rn = 698.916 (-0,06814484) = -47.627,52

Mij = yij (rin – rn) = 698.916 (-0,104170846 – 0,06814484)
= -120.434,19

Cij = yij (rij – rin) = 698.916 {-0,023971407 –(-0,104170846)}
= 698.916 (0,080199439) = 56.052,67

Dij = Nij + Mij + Cij = -47.627,52 + (-120.434,19) + 56.052,67
= -112.009,04

9. Tahun 1999

$$rij = \frac{y*ij - yij}{yij} = \frac{761.205 - 682.162}{682.162} = 0,115871303$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.568.058 - 2.393.505}{2.393.505} = 0,072927777$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.659.787 - 13.239.321}{13.239.321} = 0,031758879$$

Nij = yij . rn = 682.162 . 0,031758879 = 21.664,70

Mij = yij (rin – rn) = 682.162 (0,072927777 – 0,031758879)
= 28.083,86

Cij = yij (rij – rin) = 682.162 (0,115871303 - 0,072927777)
= 29.294,44

Dij = Nij + Mij + Cij = 21.664,70 + 28.083,86 + 29.294,44
= 79.043

10. Tahun 2000

$$rij = \frac{y*ij - yij}{yij} = \frac{822.208 - 761.205}{761.205} = 0{,}080140041$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.695.648 - 2.568.058}{2.568.058} = 0{,}049683457$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.468.495 - 13.659.787}{13.659.787} = 0{,}059203558$$

$Nij = yij \,.\, rn = 761.205 \,.\, 0{,}059203558 = 45.066{,}04$

$Mij = yij\,(rin - rn) = 761.205\,(0{,}049683457 - 0{,}059203558)$

$= -7.246{,}75$

$Cij = yij\,(rij - rin) = 761.205\,(0{,}080140041 - 0{,}049683457)$

$= 23.183{,}70$

$Dij = Nij + Mij + Cij = 45.066{,}04 + (-7.246{,}75) + 23.183{,}70$

$= 61.002{,}99$

11. Tahun 2001

$$rij = \frac{y*ij - yij}{yij} = \frac{88.753 - 822.208}{822.208} = 0{,}080934508$$

$$rin = \frac{y*in - yin}{yin} = \frac{2.564.375 - 2.695.648}{2.695.648} = -0{,}048698123$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 14.468.495}{14.468.495} = -0{,}093920342$$

$Nij = yij \,.\, rn = 822.208\,(-0{,}093920342) = -77.222{,}06$

$Mij = yij\,(rin - rn) = 822.208\,\{-0{,}048698123 - (0{,}093920342)\}$

$= 822.208\,(0{,}045222218) = 37.182{,}07$

$Cij = yij\,(rij - rin) = 822.208\,\{0{,}080934508 - (-0{,}048698123)\}$

$= 822.208\,(0{,}129632631) = 106.584{,}99$

$Dij = Nij + Mij + Cij = -77.222{,}06 + 37.182{,}07 + 106.584{,}99$

$= 66.545$

Perhitungan Data Pada Sektor Pengangkutan dan Komunikasi

1. Tahun 1991-2001

$$rij = \frac{y*ij - yij}{yij} = \frac{486.649 - 140.989}{140.989} = 2{,}451680628$$

$$rin = \frac{y*in - yin}{yin} = \frac{653.281 - 210.758}{210.758} = 2{,}099673559$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 5.057.747}{5.057.747} = 1{,}591985917$$

Nij = yij . rn = 140.989 . 1,591985917 = 224.452,50

Mij = yij (rin – rn) = 140.989 (2,099673559 – 1,591985917)
= 71.578,37

Cij = yij (rij – rin) = 140.989 (2,451680628 – 2,099673559)
= 49.629,12

Dij = Nij + Mij + Cij = 224.452,50 + 71.578,37 + 49.629,12
= 345.659,99

2. Tahun 1992

$$rij = \frac{y*ij - yij}{yij} = \frac{161.851 - 140.989}{140.989} = 0{,}14796899$$

$$rin = \frac{y*in - yin}{yin} = \frac{248.563 - 210.758}{210.758} = 0{,}179376346$$

$$rn = \frac{y*n - yn}{yn} = \frac{5.307.857 - 5.057.747}{5.057.747} = 0{,}049450872$$

Nij = yij . rn = 140.989 . 0,049450872 = 0,049450872

Mij = yij (rin – rn) = 140.989 (0,179376346-0,049450872)
= 18.318,06

Cij = yij (rij – rin) = 140.989 (0,14796899 - 0,179376346)
= -4.428,09

Dij = Nij + Mij + Cij = 6.972,03 + 18.318,06 - 4.428,09
= 20.862

3. Tahun 1993

$$rij = \frac{y^{*}ij - yij}{yij} = \frac{356.275 - 161.851}{161.851} = 1{,}201253004$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{516.659 - 248.563}{248.563} = 1{,}078583699$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{10.736.165 - 5.307.857}{5.307.857} = 1{,}022692962$$

Nij = yij . rn = 161.851 . 1,022692962 = 165.523,88

Mij = yij (rin – rn) = 161.851 (1,078583699 – 1,022692962)
= 9.045,97

Cij = yij (rij – rin) = 161.851 (1,201253004 – 1,078583699)
= 19.854,15

Dij = Nij + Mij + Cij = 165.523 + 9.045,97 + 19.854,15
= 194.424

4. Tahun 1994

$$rij = \frac{y^{*}ij - yij}{yij} = \frac{396.772 - 356.275}{356.275} = 0{,}113667812$$

$$rin = \frac{y^{*}in - yin}{yin} = \frac{573.689 - 516.659}{516.659} = 0{,}110382283$$

$$rn = \frac{y^{*}n - yn}{yn} = \frac{11.515.291 - 10.736.165}{10.736.165} = 0{,}072570233$$

Nij = yij . rn = 356.275 . 0,072570233 = 25.854,96

Mij = yij (rin – rn) = 356.275 (0,110382283 – 0,072570233)
= 13.471,49

Cij = yij (rij – rin) = 356.275 (0,113667812 – 0,110382283)
= 1.170,39

Dij = Nij + Mij + Cij = 25.854 + 13.471,49 + 1.170,39
= 40.497,34

5. Tahun 1995

$$rij = \frac{y^*ij - yij}{yij} = \frac{431.599 - 396.772}{396.772} = 0{,}087775851$$

$$rin = \frac{y^*in - yin}{yin} = \frac{629.553 - 573.689}{573.689} = 0{,}097376801$$

$$rn = \frac{y^*n - yn}{yn} = \frac{12.515.761 - 11.515.291}{11.515.291} = 0{,}086881868$$

$Nij = yij \,.\, rn = 396.772 \,.\, 0{,}086881868 = 34.472{,}29$

$Mij = yij\,(rin - rn) = 396.772\,(0{,}097376801 - 0{,}086881868)$

$= 4.164{,}10$

$Cij = yij\,(rij - rin) = 396.772\,(0{,}087775851 - 0{,}097376801)$

$= -3.809{,}39$

$Dij = Nij + Mij + Cij = 34.472{,}29 + 4.164{,}10 - 3.809{,}39$

$= 34.827$

6. Tahun 1996

$$rij = \frac{y^*ij - yij}{yij} = \frac{468.023 - 431.599}{431.599} = 0{,}084393151$$

$$rin = \frac{y^*in - yin}{yin} = \frac{691.109 - 629.553}{629.553} = 0{,}097777311$$

$$rn = \frac{y^*n - yn}{yn} = \frac{13.567.727 - 12.515.761}{12.515.761} = 0{,}084051301$$

$Nij = yij \,.\, rn = 431.599 \,.\, 0{,}084051301 = 36.276{,}46$

$Mij = yij\,(rin - rn) = 431.599\,(0{,}097777311 - 0{,}084051301)$

$= 5.924{,}13$

$Cij = yij\,(rij - rin) = 431.599\,(0{,}084393151 - 0{,}097777311)$

$= -5.776{,}59$

$Dij = Nij + Mij + Cij = 36.276{,}46 + 5.924{,}13 - 5.776{,}59$

$= 36.424$

7. Tahun 1997

$$rij = \frac{y*ij - yij}{yij} = \frac{500.818 - 468.023}{468.023} = 0{,}070071342$$

$$rin = \frac{y*in - yin}{yin} = \frac{722.321 - 691.109}{691.109} = 0{,}045162195$$

$$rn = \frac{y*n - yn}{yn} = \frac{14.207.488 - 13.567.727}{13.567.727} = 0{,}047153145$$

Nij = yij . rn = 468.023 . 0,047153145 = 22.068,76

Mij = yij (rin – rn) = 468.023 (0,045162195 – 0,047153145)

= -931,81

Cij = yij (rij – rin) = 468.023 (0,070071342 – 0,045162195)

= 11.658,05

Dij = Nij + Mij + Cij = 22.068,76 + (-931,81) + 11.658,05

= 32.795

8. Tahun 1998

$$rij = \frac{y*ij - yij}{yij} = \frac{335.284 - 500.818}{500.818} = -0{,}330527257$$

$$rin = \frac{y*in - yin}{yin} = \frac{658.460 - 722.321}{722.321} = -0{,}088410831$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.239.321 - 14.207.488}{14.207.488} = -0{,}06814484$$

Nij = yij . rn = 500.818 (-0,06814484) = -34.128,16

Mij = yij (rin – rn) = 500.818 {-0,088410831 – (-0,06814484)}

= 500.818 (-0,0202659991) = -10.149,57

Cij = yij (rij – rin) = 500.818 {-0,330527257 –(-0,088410831)}

= 500.818 (-0,24686174) = -123.632,80

Dij = Nij + Mij + Cij = -34.128,16 + (-10.149,57) + (-123.632,80)

= -167.910,53

9. Tahun 1999

$$rij = \frac{y^*ij - yij}{yij} = \frac{375.859 - 335.284}{335.284} = 0{,}121016809$$

$$rin = \frac{y^*in - yin}{yin} = \frac{673.368 - 658.460}{658.460} = 0{,}022640707$$

$$rn = \frac{y^*n - yn}{yn} = \frac{13.659.787 - 13.239.321}{13.239.321} = 0{,}031758879$$

Nij = yij . rn = 335.284 . 0,031758879 = 10.648,24

Mij = yij (rin – rn) = 335.284 (0,022640707 – 0,031758879)
= -3.057,18

Cij = yij (rij – rin) = 335.284 (0,121016809 – 0,022640707)
= 32.983,93

Dij = Nij + Mij + Cij = 10.648,24 + (-3.057,18) + 32.983,93
= 40.574,99

10. Tahun 2000

$$rij = \frac{y^*ij - yij}{yij} = \frac{438.900 - 375.859}{375.859} = 0{,}16772513$$

$$rin = \frac{y^*in - yin}{yin} = \frac{694.495 - 673.368}{673.368} = 0{,}031375117$$

$$rn = \frac{y^*n - yn}{yn} = \frac{14.468.495 - 13.659.787}{13.659.787} = 0{,}059203558$$

Nij = yij . rn = 375.859 . 0,059203558 = 22.252,19

Mij = yij (rin – rn) = 375.859 (0,031375117 – 0,059203558)
= -10.459,57

Cij = yij (rij – rin) = 375.859 (0,16772513 – 0,031375117)
= 51.248,38

Dij = Nij + Mij + Cij = 22.252,19 + (-10.459,57) + 51.248,38
= 63.041

11. Tahun 2001

$$rij = \frac{y*ij - yij}{yij} = \frac{486.649 - 438.900}{438.900} = 0{,}108792435$$

$$rin = \frac{y*in - yin}{yin} = \frac{653.281 - 694.495}{694.495} = -0{,}059343839$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 14.468.495}{14.468.495} = -0{,}093920342$$

Nij = yij . rn = 438.900 (-0,093920342) = -41.221,64

Mij = yij (rin – rn) = 438.900 {-0,059343839–(-0,093920342)}

= 438.900 (0,034576503) = 15.175,63

Cij = yij (rij – rin) = 438.900 {0,108792435-(-0,059343839)}

= 438.900 (0,168136274) = 73.795,01

Dij = Nij + Mij + Cij = -41.221,64 + 15.175,63 + 73.795,01

= 47.749

Perhitungan Data Pada Sektor Keuangan, Persewaan Bangunan dan Jasa Perusahaan

1. Tahun 1991-2001

$$rij = \frac{y*ij - yij}{yij} = \frac{241.215 - 74.802}{74.802} = 2{,}224713243$$

$$rin = \frac{y*in - yin}{yin} = \frac{472.660 - 151.332}{151.332} = 2{,}123331483$$

$$rn = \frac{y*n - yn}{yn} = \frac{13.109.609 - 5.057.747}{5.057.747} = 1{,}591985917$$

Nij = yij . rn = 74.802 . 1,591985917 = 119.083,73

Mij = yij (rin – rn) = 74.802 (2,123331483 – 1,591985917)

= 39.745,71

Cij = yij (rij – rin) = 74.802 (2,224713243 – 2,123331483)

= 7.583,56

Dij = Nij + Mij + Cij = 119.083 + 39.745,71 + 7.583,56

= 166.413

2. Tahun 1992

$$rij = \frac{y*ij - yij}{yij} = \frac{76.133 - 74.802}{74.802} = 0{,}017793641$$

$$rin = \frac{y*in - yin}{yin} = \frac{155.597 - 151.332}{151.332} = 0{,}028183067$$

$$rn = \frac{y*n - yn}{yn} = \frac{5.307.857 - 5.057.747}{5.057.747} = 0{,}049450872$$

Nij = yij . rn = 74.802 . 0,049450872 = 3.699,02

Mij = yij (rin – rn) = 74.802 (0,028183067 – 0,049450872)

= -1.590,87

Cij = yij (rij – rin) = 74.802 (0,017793641 – 0,028183067)

= -777,15

Dij = Nij + Mij + Cij = 3.699,02 + (-1.590,87) + (-777,15)

= 1.331

3. Tahun 1993

$$rij = \frac{y*ij - yij}{yij} = \frac{265.847 - 76.133}{76.133} = 2{,}491876059$$

$$rin = \frac{y*in - yin}{yin} = \frac{592.608 - 155.597}{155.597} = 2{,}808608135$$

$$rn = \frac{y*n - yn}{yn} = \frac{10.736.165 - 5.307.857}{5.307.857} = 1{,}022692962$$

Nij = yij . rn = 76.133 . 1,022692962 = 77.860,68

Mij = yij (rin – rn) = 76.133 (2,808608135 – 1,022692962)

= 135.967,08

Cij = yij (rij – rin) = 76.133 (2,491876059 – 2,808608135)

= -24.113,76

Dij = Nij + Mij + Cij = 77.860,68 + 135.967,08 - 24.113,76

= 189.714