

**Lampiran 2. Perhitungan Trend Linier Luas Bangunan Berdasarkan Jenis Bangunan Dalam M<sup>2</sup> Di Kota Metro**

1. . Perhitungan Trend Linier Luas Bangunan Jenis Bangunan Fungsi I

Tahun	Y	X	X <sup>2</sup>	XY
2004	2106	1	1	2106
2005	5520	2	4	11040
2006	5144	3	9	15432
2007	2733	4	16	10932
2008	9457	5	25	47285
Jumlah	24960	15		
Rata-rata	4992	3	55	86795

$$Y = a + bX$$

$$a = \frac{(\sum Y)(\sum X^2) - (\sum X)(\sum XY)}{n \sum X^2 - (\sum X)^2}$$

$$b = \frac{n \sum XY - \sum X \cdot \sum Y}{n \sum X^2 - (\sum X)^2}$$

$$a = \frac{24960 \cdot 55 - 15 \cdot 86795}{5 \cdot 55 - 15^2} \quad a = 1417,5$$

$$b = \frac{5 \cdot 86795 - 15 \cdot 24960}{5 \cdot 55 - 15^2} \quad b = 1191,5$$

$$Y_{2004} = 1417,5 + 1191,5 \cdot 1 = 2609 \quad m^2$$

$$Y_{2005} = 1417,5 + 1191,5 \cdot 2 = 5218 \quad m^2$$

$$Y_{2006} = 1417,5 + 1191,5 \cdot 3 = 7827 \quad m^2$$

$$Y_{2007} = 1417,5 + 1191,5 \cdot 4 = 10.436 \quad m^2$$

$$Y_{2008} = 1417,5 + 1191,5 \cdot 5 = 13.045 \quad m^2$$

Perhitungan potensi penerimaan retribusi IMB jenis bangunan fungsi I Tahun

2004-2008

$$TR_{2004} = Rp. 3.000 \times 2609 = Rp. 7.827.000$$

$$TR_{2005} = Rp. 3.000 \times 5218 = Rp. 15.654.000$$

$$TR_{2006} = \text{Rp. } 3.000 \times 5218 = \text{Rp. } 23.481.000$$

$$TR_{2007} = \text{Rp. } 3.000 \times 10.436 = \text{Rp. } 31.308.000$$

$$TR_{2008} = \text{Rp. } 3.000 \times 13.045 = \text{Rp. } 39.135.000$$

Tabel 12. Potensi Penerimaan Retribusi IMB Jenis Bangunan Fungsi I

Tahun	Potensi Retribusi Total (Rp.)	Perkembangan (%)
2004	7.827.000	-
2005	15.654.000	100
2006	23.481.000	50
2007	31.308.000	33,33
2008	39.135.000	25
Jumlah	117.405.000	208,34
Rata-rata	23.481.000	52,08

## 2. Perhitungan Trend Linier Luas Bangunan Jenis Bangunan Fungsi II

Tahun	Y	X	X <sup>2</sup>	XY
2004	732	1	1	732
2005	950	2	4	1900
2006	1212	3	9	3636
2007	3080	4	16	12320
2008	1165	5	25	5825
Jumlah	7139	15		
Rata-rata	1427,8	3	55	24413

$$Y = a + bX$$

$$a = \frac{(\sum Y)(\sum X^2) - (\sum X)(\sum XY)}{n \sum X^2 - (\sum X)^2}$$

$$b = \frac{n \sum XY - \sum X \cdot \sum Y}{n \sum X^2 - (\sum X)^2}$$

$$a = \frac{7139 \cdot 55 - 15 \cdot 24413}{5 \cdot 55 - 15^2} \quad a = 529$$

$$b = \frac{5 \cdot 24413 - 15 \cdot 7139}{5 \cdot 55 - 15^2} \quad b = 299,6$$

$$Y_{2004} = 529 + 299,6 \cdot 1 = 828,6 \quad \text{m}^2$$

$$Y_{2005} = 529 + 299,6 \cdot 2 = 1.657,2 \quad \text{m}^2$$

$$Y_{2006} = 529 + 299,6 \cdot 3 = 2.485,8 \quad \text{m}^2$$

$$Y_{2007} = 529 + 299,6 \cdot 4 = 3.314,4 \quad \text{m}^2$$

$$Y_{2008} = 529 + 299,6 \cdot 5 = 4.143 \quad \text{m}^2$$

Perhitungan potensi penerimaan retribusi IMB jenis bangunan fungsi II Tahun

2004-2008

$$TR_{2004} = \text{Rp. } 2.500 \times 828,6 = \text{Rp. } 2.071.500$$

$$TR_{2005} = \text{Rp. } 2.500 \times 1.657,2 = \text{Rp. } 4.143.000$$

$$TR_{2006} = \text{Rp. } 2.500 \times 2.485,8 = \text{Rp. } 6.213.750$$

$$TR_{2007} = \text{Rp. } 2.500 \times 3.314,4 = \text{Rp. } 8.286.000$$

$$TR_{2008} = \text{Rp. } 2.500 \times 4.143 = \text{Rp. } 10.357.500$$

Tabel 13. Potensi Penerimaan Retribusi IMB Jenis Bangunan Fungsi II

Tahun	Potensi Retribusi Total (Rp.)	Perkembangan (%)
2004	2.071.500	-
2005	4.143.000	100
2006	6.213.750	49,98
2007	8.286.000	33,35
2008	10.357.500	25
Jumlah	31.071.750	208,28
Rata-rata	6.214.350	52,07

### 3. Perhitungan Trend Linier Luas Bangunan Jenis Bangunan Fungsi III

Tahun	Y	X	X <sup>2</sup>	XY
2004	9054	1	1	9054
2005	7976	2	4	15952
2006	14910	3	9	44730
2007	22798	4	16	91192
2008	76411,5	5	25	382057,5
Jumlah	131149,5	15		
Rata-rata	26229,9	3	55	542985,5

$$Y = a + bX$$

$$a = \frac{(\sum Y)(\sum X^2) - (\sum X)(\sum XY)}{n \sum X^2 - (\sum X)^2}$$

$$b = \frac{n \sum XY - \sum X \cdot \sum Y}{n \sum X^2 - (\sum X)^2}$$

$$a = \frac{131149,5 \cdot 55 - 15 \cdot 542985,5}{5 \cdot 55 - 15^2} \quad a = 18.631,2$$

$$b = \frac{5 \cdot 542985,5 - 15 \cdot 131149,5}{5 \cdot 55 - 15^2} \quad b = 14.953,7$$

$$Y_{2004} = 18631,2 + 14953,7 \cdot 1 = 33.584,9 \quad \text{m}^2$$

$$Y_{2005} = 18631,2 + 14953,7 \cdot 2 = 67.169,8 \quad \text{m}^2$$

$$Y_{2006} = 18631,2 + 14953,7 \cdot 3 = 100.754,7 \quad \text{m}^2$$

$$Y_{2007} = 18631,2 + 14953,7 \cdot 4 = 134.339,6 \quad \text{m}^2$$

$$Y_{2008} = 18631,2 + 14953,7 \cdot 5 = 167.924,5 \quad \text{m}^2$$

Perhitungan potensi penerimaan retribusi IMB jenis bangunan fungsi III Tahun

2004-2008

$$TR_{2004} = \text{Rp. } 4.550 \times 33.584,9 = \text{Rp. } 152.811.295$$

$$TR_{2005} = \text{Rp. } 4.550 \times 67.169,8 = \text{Rp. } 305.622.590$$

$$TR_{2006} = \text{Rp. } 4.550 \times 100.754,7 = \text{Rp. } 458.433.885$$

$$TR_{2007} = \text{Rp. } 4.550 \times 134.339,6 = \text{Rp. } 611.245.180$$

$$TR_{2008} = \text{Rp. } 4.550 \times 167.924,5 = \text{Rp. } 764.056.475$$

Tabel 14. Potensi Penerimaan Retribusi IMB Jenis Bangunan Fungsi III

Tahun	Potensi Retribusi Total (Rp.)	Perkembangan (%)
2004	152.811.295	-
2005	305.622.590	100
2006	458.433.885	50
2007	611.245.180	33,33
2008	764.056.475	25
Jumlah	2.292.169.425	208,33
Rata-rata	458.433.885	52,08

#### 4. Perhitungan Trend Linier Luas Bangunan Jenis Bangunan Fungsi IV

Tahun	Y	X	X <sup>2</sup>	XY
2004	5438	1	1	5438
2005	9129	2	4	18258
2006	7232	3	9	21696
2007	9666,3	4	16	38665,2
2008	13180	5	25	65900
Jumlah	44645,3	15		
Rata-rata	8929,06	3	55	149957,2

$$Y = a + bX$$

$$a = \frac{(\sum Y)(\sum X^2) - (\sum X)(\sum XY)}{n \sum X^2 - (\sum X)^2}$$

$$b = \frac{n \sum XY - \sum X \cdot \sum Y}{n \sum X^2 - (\sum X)^2}$$

$$a = \frac{44645,3 \cdot 55 - 15 \cdot 149957,2}{5 \cdot 55 - 15^2} \quad a = 4.122,67$$

$$b = \frac{5 \cdot 149957,2 - 15 \cdot 44645,3}{5 \cdot 55 - 15^2} \quad b = 1.602,13$$

$$Y_{2004} = 4.122,67 + 1.602,13 \cdot 1 = 5.724,8 \quad \text{m}^2$$

$$Y_{2005} = 4.122,67 + 1.602,13 \cdot 2 = 11.449,6 \quad \text{m}^2$$

$$Y_{2006} = 4.122,67 + 1.602,13 \cdot 3 = 17.175,06 \quad \text{m}^2$$

$$Y_{2007} = 4.122,67 + 1.602,13 \cdot 4 = 22.900,08 \quad \text{m}^2$$

$$Y_{2008} = 4.122,67 + 1.602,13 \cdot 5 = 28.625,1 \quad \text{m}^2$$

Perhitungan potensi penerimaan retribusi IMB jenis bangunan fungsi IV Tahun

2004-2008

$$TR_{2004} = \text{Rp. } 9.100 \times 5.724,8 = \text{Rp. } 52.095.680$$

$$TR_{2005} = \text{Rp. } 9.100 \times 11.449,6 = \text{Rp. } 104.191.360$$

$$TR_{2006} = \text{Rp. } 9.100 \times 17.174,4 = \text{Rp. } 156.287.040$$

$$TR_{2007} = \text{Rp. } 9.100 \times 22.899,2 = \text{Rp. } 208.382.720$$

$$TR_{2008} = \text{Rp. } 9.100 \times 28.624 = \text{Rp. } 260.478.400$$

Tabel 15. Potensi Penerimaan Retribusi IMB Jenis Bangunan Fungsi IV

Tahun	Potensi Retribusi Total (Rp.)	Perkembangan (%)
2004	52.095.680	-
2005	104.191.360	100
2006	156.287.040	50
2007	208.382.720	33,33
2008	260.478.400	25
Jumlah	781.435.200	208,33
Rata-rata	156.287.040	52,08



5. Perhitungan Trend Linier Luas Bangunan Jenis Bangunan Fungsi Lain-Lain

Tahun	Y	X	X <sup>2</sup>	XY
2004	1925,37	1	1	1925,37
2005	2750	2	4	5500
2006	5557	3	9	16671
2007	5254	4	16	21016
2008	11112	5	25	55560
Jumlah	26598,37	15		
Rata-rata	5319,67	3	55	100672,37

$$Y = a + bX$$

$$a = \frac{(\sum Y)(\sum X^2) - (\sum X)(\sum XY)}{n \sum X^2 - (\sum X)^2}$$

$$b = \frac{n \sum XY - \sum X \cdot \sum Y}{n \sum X^2 - (\sum X)^2}$$

$$a = \frac{26598,37 \cdot 55 - 15 \cdot 100672,37}{5 \cdot 55 - 15^2} \quad a = (943,5)$$

$$b = \frac{5 \cdot 100672,37 - 15 \cdot 26598,37}{5 \cdot 55 - 15^2} \quad b = 2087,73$$

$$Y_{2004} = (943,5) + 2087,73 \cdot 1 = 1144,23 \quad \text{m}^2$$

$$Y_{2005} = (943,5) + 2087,73 \cdot 2 = 2288,46 \quad \text{m}^2$$

$$Y_{2006} = (943,5) + 2087,73 \cdot 3 = 3432,69 \quad \text{m}^2$$

$$Y_{2007} = (943,5) + 2087,73 \cdot 4 = 4576,92 \quad \text{m}^2$$

$$Y_{2008} = (943,5) + 2087,73 \cdot 5 = 5721,15 \quad \text{m}^2$$

Perhitungan potensi penerimaan retribusi IMB jenis bangunan fungsi Lain-Lain

Tahun 2004-2008

$$TR_{2004} = \text{Rp. } 1.500 \times 1144,23 = \text{Rp. } 1.716.345$$

$$TR_{2005} = \text{Rp. } 1.500 \times 2288,46 = \text{Rp. } 3.432.690$$

$$TR_{2006} = \text{Rp. } 1.500 \times 3432,69 = \text{Rp. } 5.149.035$$

$$TR_{2007} = \text{Rp. } 1.500 \times 4576,92 = \text{Rp. } 6.865.380$$

$$TR_{2008} = \text{Rp. } 1.500 \times 5721,15 = \text{Rp. } 8.581.725$$

Tabel 16. Potensi Penerimaan Retribusi IMB Jenis Bangunan Fungsi Lain-Lain

Tahun	Potensi Retribusi Total (Rp.)	Perkembangan (%)
2004	1.716.345	-
2005	3.432.690	100
2006	5.149.035	50
2007	6.865.380	33,33
2008	8.581.725	25
Jumlah	25.745.175	208,33
Rata-rata	5.149.035	52,08

Tabel 17. Rata-Rata Potensi Penerimaan Retribusi IMB Kota Metro Tahun 2004-2008.

Jenis Bangunan	Rata-Rata Potensi Penerimaan Retribusi IMB (Rp)
Fungsi I	23.481.000
Fungsi II	6.214.350
Fungsi III	458.433.885
Fungsi IV	156.287.040
Lain-Lain	5.149.035
Jumlah	649.565.310
Rata-Rata	129.913.062