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# LAMPIRAN

**Lampiran 1.** Output Uji Heterokedastisitas

```
> data<-read.csv("D:/Ayu/fix variabel.csv",sep=';',header=T)
> x1=data$x1 #amh
> x2=data$x2 #ahh
> x3=data$x3 #aps1618
> x4=data$x4 #apbd
> x5=data$x5 #jumlah penduduk
> x6=data$x6 #pendapatan perkapita
> x7=data$x7 #rasio gantung
> x8=data$x8 #tpak
> y=data$y #jumlah penduduk miskin
> model<-lm(y~x1+x2+x3+x4+x5+x6+x7+x8)
> bptest(model)
```

studentized Breusch-Pagan test

```
data: model
BP = 15.764, df = 8, p-value = 0.04589
```

## Lampiran 2. Matriks Pembobot

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.642	0.904	0.203	0.166	0.215	0.000
2	0.024	1.000	0.927	0.525	0.385	0.167	0.738	0.919	0.902	0.771	0.499	0.972	0.987	0.889	0.996
3	0.000	0.927	1.000	0.118	0.192	0.075	0.294	0.554	0.482	0.633	0.147	0.689	0.925	0.912	0.924
4	0.000	0.525	0.118	1.000	0.887	0.728	0.994	0.929	0.910	0.002	0.002	0.533	0.227	0.014	0.651
5	0.000	0.385	0.192	0.887	1.000	0.992	0.840	0.709	0.601	0.000	0.000	0.198	0.100	0.001	0.597
6	0.000	0.167	0.075	0.728	0.992	1.000	0.635	0.455	0.331	0.000	0.000	0.033	0.008	0.000	0.373
7	0.000	0.738	0.294	0.994	0.840	0.635	1.000	0.987	0.979	0.077	0.066	0.752	0.467	0.129	0.820
8	0.000	0.919	0.554	0.929	0.709	0.455	0.987	1.000	0.999	0.345	0.282	0.928	0.758	0.423	0.944
9	0.001	0.902	0.482	0.910	0.601	0.331	0.979	0.999	1.000	0.386	0.378	0.947	0.754	0.416	0.913
10	0.642	0.771	0.633	0.002	0.000	0.000	0.077	0.345	0.386	1.000	0.912	0.836	0.936	0.967	0.581
11	0.904	0.499	0.147	0.002	0.000	0.000	0.066	0.282	0.378	0.912	1.000	0.786	0.689	0.634	0.285
12	0.203	0.972	0.689	0.533	0.198	0.033	0.752	0.928	0.947	0.836	0.786	1.000	0.961	0.811	0.925
13	0.166	0.987	0.925	0.227	0.100	0.008	0.467	0.758	0.754	0.936	0.689	0.961	1.000	0.981	0.940
14	0.215	0.889	0.912	0.014	0.001	0.000	0.129	0.423	0.416	0.967	0.634	0.811	0.981	1.000	0.778
15	0.000	0.996	0.924	0.651	0.597	0.373	0.820	0.944	0.913	0.581	0.285	0.925	0.940	0.778	1.000
16	0.000	0.821	0.912	0.404	0.700	0.597	0.536	0.658	0.541	0.138	0.000	0.481	0.647	0.476	0.917
17	0.001	0.835	0.988	0.005	0.015	0.000	0.081	0.314	0.265	0.743	0.196	0.586	0.908	0.963	0.782
18	0.000	0.745	0.440	0.972	0.966	0.864	0.981	0.953	0.910	0.035	0.003	0.624	0.446	0.133	0.868
19	0.000	0.056	0.012	0.633	0.970	0.998	0.505	0.300	0.190	0.000	0.000	0.001	0.000	0.000	0.210
20	0.000	0.890	0.788	0.796	0.894	0.772	0.875	0.913	0.846	0.159	0.016	0.691	0.680	0.403	0.967
21	0.043	0.993	0.792	0.678	0.420	0.177	0.856	0.974	0.974	0.724	0.581	0.994	0.958	0.784	0.983
22	0.007	0.998	0.864	0.690	0.523	0.279	0.858	0.971	0.959	0.663	0.442	0.975	0.956	0.786	0.997
23	0.000	0.907	0.894	0.625	0.795	0.662	0.748	0.839	0.754	0.218	0.016	0.665	0.740	0.522	0.973
24	0.020	0.994	0.982	0.296	0.242	0.081	0.526	0.784	0.750	0.816	0.440	0.914	0.993	0.956	0.980
25	0.000	0.968	0.705	0.865	0.673	0.421	0.960	0.998	0.994	0.467	0.336	0.954	0.856	0.576	0.981
26	0.000	0.614	0.149	0.997	0.784	0.564	0.998	0.964	0.962	0.031	0.045	0.677	0.334	0.050	0.700
27	0.000	0.826	0.454	0.981	0.880	0.697	0.998	0.993	0.979	0.126	0.072	0.788	0.575	0.224	0.901
28	0.000	0.762	0.292	0.986	0.761	0.523	0.999	0.992	0.991	0.125	0.131	0.809	0.515	0.164	0.821
29	0.000	0.748	0.987	0.003	0.045	0.007	0.059	0.242	0.175	0.473	0.025	0.398	0.781	0.843	0.743

**Lampiran 2. Matriks Pembobot (Lanjutan)**

	16	17	18	19	20	21	22	23	24	25	26	27	28	29
1	0.000	0.001	0.000	0.000	0.000	0.043	0.007	0.000	0.020	0.000	0.000	0.000	0.000	0.000
2	0.821	0.835	0.745	0.056	0.890	0.993	0.998	0.907	0.994	0.968	0.614	0.826	0.762	0.748
3	0.912	0.988	0.440	0.012	0.788	0.792	0.864	0.894	0.982	0.705	0.149	0.454	0.292	0.987
4	0.404	0.005	0.972	0.633	0.796	0.678	0.690	0.625	0.296	0.865	0.997	0.981	0.986	0.003
5	0.700	0.015	0.966	0.970	0.894	0.420	0.523	0.795	0.242	0.673	0.784	0.880	0.761	0.045
6	0.597	0.000	0.864	0.998	0.772	0.177	0.279	0.662	0.081	0.421	0.564	0.697	0.523	0.007
7	0.536	0.081	0.981	0.505	0.875	0.856	0.858	0.748	0.526	0.960	0.998	0.998	0.999	0.059
8	0.658	0.314	0.953	0.300	0.913	0.974	0.971	0.839	0.784	0.998	0.964	0.993	0.992	0.242
9	0.541	0.265	0.910	0.190	0.846	0.974	0.959	0.754	0.750	0.994	0.962	0.979	0.991	0.175
10	0.138	0.743	0.035	0.000	0.159	0.724	0.663	0.218	0.816	0.467	0.031	0.126	0.125	0.473
11	0.000	0.196	0.003	0.000	0.016	0.581	0.442	0.016	0.440	0.336	0.045	0.072	0.131	0.025
12	0.481	0.586	0.624	0.001	0.691	0.994	0.975	0.665	0.914	0.954	0.677	0.788	0.809	0.398
13	0.647	0.908	0.446	0.000	0.680	0.958	0.956	0.740	0.993	0.856	0.334	0.575	0.515	0.781
14	0.476	0.963	0.133	0.000	0.403	0.784	0.786	0.522	0.956	0.576	0.050	0.224	0.164	0.843
15	0.917	0.782	0.868	0.210	0.967	0.983	0.997	0.973	0.980	0.981	0.700	0.901	0.821	0.743
16	1.000	0.722	0.781	0.443	0.968	0.696	0.818	0.994	0.842	0.756	0.365	0.698	0.481	0.833
17	0.722	1.000	0.158	0.000	0.518	0.648	0.716	0.683	0.948	0.483	0.016	0.189	0.088	0.989
18	0.781	0.158	1.000	0.765	0.971	0.801	0.851	0.904	0.581	0.937	0.950	0.994	0.960	0.177
19	0.443	0.000	0.765	1.000	0.631	0.064	0.134	0.504	0.013	0.260	0.444	0.560	0.385	0.000
20	0.968	0.518	0.971	0.631	1.000	0.864	0.930	0.996	0.829	0.941	0.769	0.946	0.840	0.574
21	0.696	0.648	0.801	0.064	0.864	1.000	0.998	0.843	0.951	0.992	0.776	0.900	0.885	0.518
22	0.818	0.716	0.851	0.134	0.930	0.998	1.000	0.922	0.971	0.993	0.763	0.916	0.874	0.628
23	0.994	0.683	0.904	0.504	0.996	0.843	0.922	1.000	0.888	0.899	0.601	0.864	0.708	0.751
24	0.842	0.948	0.581	0.013	0.829	0.951	0.971	0.888	1.000	0.884	0.373	0.656	0.548	0.892
25	0.756	0.483	0.937	0.260	0.941	0.992	0.993	0.899	0.884	1.000	0.912	0.981	0.967	0.404
26	0.365	0.016	0.950	0.444	0.769	0.776	0.763	0.601	0.373	0.912	1.000	0.984	0.998	0.007
27	0.698	0.189	0.994	0.560	0.946	0.900	0.916	0.864	0.656	0.981	0.984	1.000	0.994	0.168
28	0.481	0.088	0.960	0.385	0.840	0.885	0.874	0.708	0.548	0.967	0.998	0.994	1.000	0.055
29	0.833	0.989	0.177	0.000	0.574	0.518	0.628	0.751	0.892	0.404	0.007	0.168	0.055	1.000

Lampiran 3. Parameter GWR

	$\beta_0$	$\beta_1$	$\beta_2$	$\beta_3$	$\beta_4$	$\beta_5$	$\beta_6$	$\beta_7$	$\beta_8$
1	0.380	-0.961	-0.010	0.269	0.148	0.659	-1.064	-0.745	0.113
2	-0.084	-0.336	-0.324	-0.195	-0.050	0.761	-0.181	-0.343	-0.233
3	-0.182	-0.372	-0.405	-0.285	0.046	0.700	-0.232	-0.479	-0.271
4	0.138	-0.127	-0.279	0.027	-0.401	1.224	-0.166	-0.220	-0.195
5	0.104	-0.164	-0.203	0.021	-0.385	1.190	-0.127	-0.150	-0.168
6	0.098	-0.132	-0.155	0.039	-0.444	1.286	-0.135	-0.129	-0.149
7	0.112	-0.175	-0.285	0.002	-0.332	1.116	-0.150	-0.231	-0.200
8	0.051	-0.239	-0.285	-0.068	-0.220	0.955	-0.140	-0.248	-0.209
9	0.056	-0.228	-0.301	-0.065	-0.232	0.981	-0.154	-0.270	-0.216
10	-0.234	-0.458	-0.474	-0.368	0.133	0.726	-0.436	-0.701	-0.313
11	-0.076	-0.459	-0.395	-0.217	-0.010	0.836	-0.467	-0.596	-0.267
12	-0.075	-0.316	-0.361	-0.193	-0.079	0.817	-0.218	-0.399	-0.249
13	-0.176	-0.375	-0.410	-0.280	0.028	0.727	-0.268	-0.500	-0.274
14	-0.267	-0.411	-0.498	-0.394	0.120	0.707	-0.381	-0.696	-0.328
15	-0.039	-0.321	-0.282	-0.152	-0.086	0.779	-0.144	-0.264	-0.212
16	-0.024	-0.348	-0.230	-0.122	-0.064	0.739	-0.102	-0.167	-0.180
17	-0.294	-0.366	-0.534	-0.445	0.131	0.683	-0.336	-0.736	-0.355
18	0.083	-0.214	-0.249	-0.021	-0.281	1.023	-0.123	-0.191	-0.189
19	0.073	-0.095	-0.109	0.034	-0.465	1.304	-0.153	-0.127	-0.137
20	0.021	-0.289	-0.238	-0.091	-0.147	0.829	-0.108	-0.180	-0.190
21	-0.045	-0.306	-0.317	-0.163	-0.098	0.815	-0.173	-0.324	-0.229
22	-0.040	-0.312	-0.297	-0.156	-0.095	0.799	-0.156	-0.290	-0.220
23	-0.006	-0.319	-0.240	-0.114	-0.101	0.776	-0.110	-0.185	-0.189
24	-0.143	-0.365	-0.368	-0.245	0.005	0.724	-0.221	-0.424	-0.253
25	0.016	-0.271	-0.282	-0.103	-0.165	0.879	-0.139	-0.252	-0.210
26	0.136	-0.137	-0.299	0.020	-0.378	1.187	-0.173	-0.248	-0.205
27	0.082	-0.214	-0.269	-0.029	-0.273	1.020	-0.132	-0.217	-0.198
28	0.110	-0.175	-0.295	-0.004	-0.325	1.108	-0.156	-0.246	-0.206
29	-0.286	-0.323	-0.546	-0.466	0.136	0.664	-0.283	-0.722	-0.370



Lampiran 4. Nilai Variogram Variabel

variabel	np	dist	gamma
y	1	35.537	1.515
y	22	64.224	1.036
y	22	100.218	0.611
y	34	137.983	0.811
y	36	182.940	1.645
y	35	221.370	1.577
y	42	260.719	1.125
y	36	297.921	1.083
y	35	339.541	1.039
y	26	376.703	0.698
y	19	418.905	0.823
y	26	457.478	0.689
y	16	500.899	1.415
y	18	540.363	0.654
y	13	579.265	0.411
X <sub>1</sub>	1	35.537	0.089
X <sub>1</sub>	22	64.224	0.938
X <sub>1</sub>	22	100.218	0.638
X <sub>1</sub>	34	137.983	1.018
X <sub>1</sub>	36	182.940	0.771
X <sub>1</sub>	35	221.370	0.989
X <sub>1</sub>	42	260.719	0.953
X <sub>1</sub>	36	297.921	1.513
X <sub>1</sub>	35	339.541	1.086
X <sub>1</sub>	26	376.703	1.206
X <sub>1</sub>	19	418.905	1.257
X <sub>1</sub>	26	457.478	1.008
X <sub>1</sub>	16	500.899	1.353
X <sub>1</sub>	18	540.363	1.031
X <sub>1</sub>	13	579.265	0.358
X <sub>2</sub>	1	35.537	0.051
X <sub>2</sub>	22	64.224	0.659
X <sub>2</sub>	22	100.218	0.705
X <sub>2</sub>	34	137.983	1.515
X <sub>2</sub>	36	182.940	1.078
X <sub>2</sub>	35	221.370	1.001
X <sub>2</sub>	42	260.719	1.465
X <sub>2</sub>	36	297.921	1.089

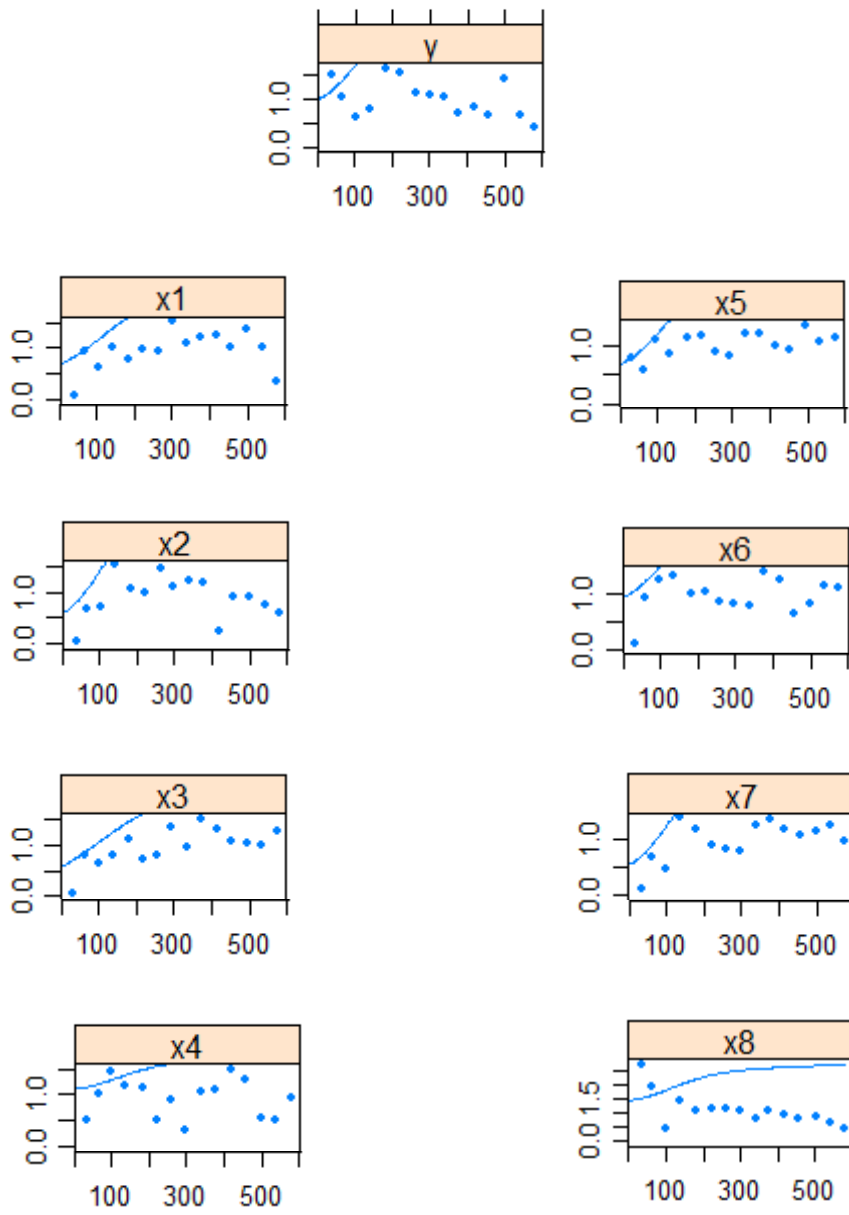
variabel	np	dist	gamma
X <sub>5</sub>	1	35.537	0.766
X <sub>5</sub>	22	64.224	0.583
X <sub>5</sub>	22	100.218	1.100
X <sub>5</sub>	34	137.983	0.838
X <sub>5</sub>	36	182.940	1.114
X <sub>5</sub>	35	221.370	1.149
X <sub>5</sub>	42	260.719	0.896
X <sub>5</sub>	36	297.921	0.805
X <sub>5</sub>	35	339.541	1.194
X <sub>5</sub>	26	376.703	1.196
X <sub>5</sub>	19	418.905	0.990
X <sub>5</sub>	26	457.478	0.931
X <sub>5</sub>	16	500.899	1.338
X <sub>5</sub>	18	540.363	1.055
X <sub>5</sub>	13	579.265	1.128
X <sub>6</sub>	1	35.537	0.086
X <sub>6</sub>	22	64.224	0.938
X <sub>6</sub>	22	100.218	1.272
X <sub>6</sub>	34	137.983	1.319
X <sub>6</sub>	36	182.940	1.018
X <sub>6</sub>	35	221.370	1.047
X <sub>6</sub>	42	260.719	0.843
X <sub>6</sub>	36	297.921	0.809
X <sub>6</sub>	35	339.541	0.799
X <sub>6</sub>	26	376.703	1.394
X <sub>6</sub>	19	418.905	1.263
X <sub>6</sub>	26	457.478	0.643
X <sub>6</sub>	16	500.899	0.829
X <sub>6</sub>	18	540.363	1.156
X <sub>6</sub>	13	579.265	1.114
X <sub>7</sub>	1	35.537	0.104
X <sub>7</sub>	22	64.224	0.658
X <sub>7</sub>	22	100.218	0.461
X <sub>7</sub>	34	137.983	1.374
X <sub>7</sub>	36	182.940	1.178
X <sub>7</sub>	35	221.370	0.876
X <sub>7</sub>	42	260.719	0.801
X <sub>7</sub>	36	297.921	0.783

Lampiran 4. Nilai Variogram Variabel (Lanjutan)

variabel	np	dist	gamma
$X_2$	35	339.541	1.214
$X_2$	26	376.703	1.178
$X_2$	19	418.905	0.253
$X_2$	26	457.478	0.903
$X_2$	16	500.899	0.899
$X_2$	18	540.363	0.743
$X_2$	13	579.265	0.607
$X_3$	1	35.537	0.040
$X_3$	22	64.224	0.800
$X_3$	22	100.218	0.649
$X_3$	34	137.983	0.777
$X_3$	36	182.940	1.123
$X_3$	35	221.370	0.720
$X_3$	42	260.719	0.798
$X_3$	36	297.921	1.327
$X_3$	35	339.541	0.970
$X_3$	26	376.703	1.518
$X_3$	19	418.905	1.320
$X_3$	26	457.478	1.067
$X_3$	16	500.899	1.019
$X_3$	18	540.363	1.011
$X_3$	13	579.265	1.282
$X_4$	1	35.537	0.518
$X_4$	22	64.224	1.034
$X_4$	22	100.218	1.439
$X_4$	34	137.983	1.160
$X_4$	36	182.940	1.133
$X_4$	35	221.370	0.516
$X_4$	42	260.719	0.892
$X_4$	36	297.921	0.317
$X_4$	35	339.541	1.064
$X_4$	26	376.703	1.114
$X_4$	19	418.905	1.489
$X_4$	26	457.478	1.277
$X_4$	16	500.899	0.543
$X_4$	18	540.363	0.523
$X_4$	13	579.265	0.928

variabel	np	dist	gamma
$X_7$	35	339.541	1.236
$X_7$	26	376.703	1.335
$X_7$	19	418.905	1.187
$X_7$	26	457.478	1.055
$X_7$	16	500.899	1.130
$X_7$	18	540.363	1.242
$X_7$	13	579.265	0.961
$X_8$	1	35.537	2.772
$X_8$	22	64.224	1.919
$X_8$	22	100.218	0.471
$X_8$	34	137.983	1.421
$X_8$	36	182.940	1.055
$X_8$	35	221.370	1.188
$X_8$	42	260.719	1.163
$X_8$	36	297.921	1.084
$X_8$	35	339.541	0.811
$X_8$	26	376.703	1.053
$X_8$	19	418.905	0.925
$X_8$	26	457.478	0.823
$X_8$	16	500.899	0.851
$X_8$	18	540.363	0.666
$X_8$	13	579.265	0.472

Lampiran 5. Plot LMC Model  $\text{Nug}(0)+\text{Gau}(165)+\text{Exp}(587)$



**Lampiran 6. Matriks Koregionalisasi**

**Matriks Koregionalisasi Skala Nugget**

	$y$	$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$	$x_7$	$x_8$
$y$	1.012	-0.048	0.119	0.114	0.241	0.651	-0.010	-0.396	-0.694
$x_1$	-0.048	0.698	0.144	0.168	0.601	0.215	0.061	-0.114	0.073
$x_2$	0.119	0.144	0.590	0.018	0.514	0.306	0.130	-0.277	-0.420
$x_3$	0.114	0.168	0.018	0.571	0.413	0.105	0.181	-0.110	-0.338
$x_4$	0.241	0.601	0.514	0.413	1.114	0.553	-0.079	-0.196	-0.545
$x_5$	0.651	0.215	0.306	0.105	0.553	0.671	0.006	-0.309	-0.481
$x_6$	-0.010	0.061	0.130	0.181	-0.079	0.006	0.933	-0.432	-0.047
$x_7$	-0.396	-0.114	-0.277	-0.110	-0.196	-0.309	-0.432	0.542	0.175
$x_8$	-0.694	0.073	-0.420	-0.338	-0.545	-0.481	-0.047	0.175	1.461

**Matriks Koregionalisasi Skala Spasial Kecil**

	$y$	$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$	$x_7$	$x_8$
$y$	1.347	-0.855	0.609	-0.609	0.508	1.090	1.052	-0.712	0.973
$x_1$	-0.855	0.632	-0.191	0.307	-0.311	-0.628	-0.631	0.312	-0.578
$x_2$	0.609	-0.191	1.473	-0.509	0.150	0.723	0.824	-1.362	0.463
$x_3$	-0.609	0.307	-0.509	0.454	-0.316	-0.542	-0.584	0.494	-0.470
$x_4$	0.508	-0.311	0.150	-0.316	0.377	0.364	0.392	-0.178	0.431
$x_5$	1.090	-0.628	0.723	-0.542	0.364	0.987	0.902	-0.760	0.821
$x_6$	1.052	-0.631	0.824	-0.584	0.392	0.902	0.981	-0.871	0.735
$x_7$	-0.712	0.312	-1.362	0.494	-0.178	-0.760	-0.871	1.324	-0.509
$x_8$	0.973	-0.578	0.463	-0.470	0.431	0.821	0.735	-0.509	0.794

**Matriks Koregionalisasi Skala Spasial Besar**

	$y$	$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$	$x_7$	$x_8$
$y$	1.983	0.568	0.477	-0.251	-0.165	-1.023	-0.909	0.507	-0.419
$x_1$	0.568	1.721	0.195	1.473	-0.088	0.247	0.902	-0.025	-0.588
$x_2$	0.477	0.195	2.374	0.871	-0.583	-0.311	-0.187	1.841	-0.357
$x_3$	-0.251	1.473	0.871	2.079	-0.318	0.783	1.107	0.265	-0.526
$x_4$	-0.165	-0.088	-0.583	-0.318	0.372	0.259	0.082	-0.302	-0.173
$x_5$	-1.023	0.247	-0.311	0.783	0.259	1.297	0.572	-0.508	-0.411
$x_6$	-0.909	0.902	-0.187	1.107	0.082	0.572	1.588	-0.163	0.006
$x_7$	0.507	-0.025	1.841	0.265	-0.302	-0.508	-0.163	1.735	-0.289
$x_8$	-0.419	-0.588	-0.357	-0.526	-0.173	-0.411	0.006	-0.289	0.773

Lampiran 7. Parameter SGWR

	<b>Parameter Lokal :</b>			
	$\beta_0$	$\beta_2$	$\beta_3$	$\beta_7$
1	-0.022	-0.178	-0.396	-0.414
2	-0.083	-0.360	-0.253	-0.399
3	-0.183	-0.446	-0.350	-0.471
4	0.110	-0.274	0.043	-0.384
5	0.074	-0.185	0.030	-0.324
6	0.042	-0.077	0.067	-0.298
7	0.091	-0.290	-0.012	-0.386
8	0.040	-0.307	-0.099	-0.382
9	0.041	-0.317	-0.096	-0.403
10	-0.166	-0.446	-0.399	-0.529
11	-0.022	-0.357	-0.286	-0.484
12	-0.062	-0.370	-0.231	-0.438
13	-0.152	-0.418	-0.329	-0.464
14	-0.228	-0.485	-0.424	-0.546
15	-0.044	-0.329	-0.211	-0.356
16	-0.032	-0.302	-0.214	-0.282
17	-0.279	-0.540	-0.452	-0.596
18	0.073	-0.265	-0.038	-0.341
19	-0.001	0.028	0.086	-0.261
20	0.019	-0.283	-0.138	-0.301
21	-0.045	-0.346	-0.209	-0.402
22	-0.043	-0.336	-0.208	-0.378
23	-0.010	-0.297	-0.181	-0.296
24	-0.137	-0.401	-0.309	-0.434
25	0.009	-0.313	-0.143	-0.372
26	0.107	-0.297	0.024	-0.402
27	0.070	-0.285	-0.051	-0.364
28	0.088	-0.301	-0.021	-0.398
29	-0.284	-0.563	-0.450	-0.600
<b>Parameter Global :</b>				
$\beta_1 = -0.254$	$\beta_4 = -0.168$	$\beta_5 = 0.835$	$\beta_6 = -0.238$	$\beta_8 = -0.272$