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LAMPIRAN

Lampiran 1. Data Tingkat Pengangguran Terbuka dan Jumlah Sampel Sakernas 2019 di Provinsi Sulawesi Selatan

No.	Kabupaten/Kota	TPT (%)	Jumlah sampel RT	*Standard Error* TPT dengan Pendugaan Langsung
1	Kabupaten Selayar	1,17	480	0,00022
2	Bulukumba	3,31	600	0,00030
3	Bantaeng	3,98	520	0,00038
4	Jeneponto	2,12	600	0,00024
5	Takalar	4,13	560	0,00036
6	Gowa	4,87	680	0,00032
7	Sinjai	2,28	520	0,00029
8	Maros	4,71	600	0,00035
9	Pangkep	5,41	600	0,00038
10	Barru	5,79	520	0,00045
11	Bone	3,25	720	0,00025
12	Soppeng	3,53	560	0,00033
13	Wajo	3,3	600	0,00030
14	Sidrap	4,75	600	0,00035
15	Pinrang	3,11	600	0,00029
16	Enrekang	2,4	520	0,00029
17	Luwu	4,66	600	0,00035
18	Tana Toraja	2,74	520	0,00031
19	Luwu Utara	3,04	560	0,00031
20	Luwu Timur	4,08	560	0,00035
21	Toraja Utara	3	520	0,00033
22	Makassar	10,39	840	0,00036
23	Pare Pare	6,42	480	0,00051
24	Palopo	10,32	480	0,00063

Lampiran 2. Variabel Prediktor

Kepadatan Penduduk per km2	Persentase Penduduk Bekerja di Sektor Pertanian	Rata-Rata Lama Sekolah	PDRB (triliyun)
150	35,71	7,63	3,684739259
364	22,35	7,43	8,567455137
474	40,74	6,48	5,621523484
403	42,19	6,48	6,685623034
527	36,93	7,18	6,616253756
410	25,42	7,97	13,78311487
298	45,88	7,48	7,090283644
218	36,3	7,46	13,72628266
302	18,13	7,6	17,20516539
148	25,53	7,96	4,797429678
166	39,74	6,98	22,10803847
167	34,12	7,74	6,9935131
159	23,2	6,8	12,85844969
160	17,9	7,83	8,450694487
192	27,95	7,85	12,77007859
116	54,66	8,89	4,535550622
121	40,69	8,15	9,728969447
114	64,74	8,02	4,558139572
42	33,91	7,78	8,221198575
43	36,48	8,54	16,02294519
201	66,14	7,92	5,140012285
8686	0	11,2	122,4658291
1462	0	10,3	4,94779035
746	9,26	10,75	5,447357001

Lampiran 3. Output Hasil Statistika Deskriptif Data dan Korelasi Pearson

Descriptive Statistics: Y, X1, X2, X3, X4

Variable	N	N*	Mean	StDev	CoefVar	Minimum	Maximum
Y	24	0	4.282	2.239	52.30	1.170	10.390
X1	24	0	653	1737	266.02	42	8686
X2	24	0	32.42	16.90	52.13	0.00	66.14
X3	24	0	8.018	1.204	15.01	6.480	11.200
X4	24	0	13.83	23.63	170.77	3.68	122.47

Correlation: Y; X1; X2; X3; X4

	Y	X1	X2	X3
X1	0,646			
	0,001			
X2	-0,717	-0,491		
	0,000	0,015		
X3	0,775	0,627	-0,522	
	0,000	0,001	0,009	
X4	0,573	0,956	-0,431	0,508
	0,003	0,000	0,035	0,011

Cell Contents: Pearson correlation
P-Value

Lampiran 4. Uji Kolmogorov-Smirnov Data Tingkat Pengangguran Terbuka

Goodness of Fit - Details [hide]

Lognormal [#41]					
Kolmogorov-Smirnov					
Sample Size Statistic P-Value Rank	24 0,09593 0,96481 12				
α	0,2	0,1	0,05	0,02	0,01
Critical Value	0,21205	0,24242	0,26931	0,30104	0,32286
Reject?	No	No	No	No	No
Anderson-Darling					
Sample Size Statistic Rank	24 0,32739 13				
α	0,2	0,1	0,05	0,02	0,01
Critical Value	1,3749	1,9286	2,5018	3,2892	3,9074
Reject?	No	No	No	No	No
Chi-Squared					
Deg. of freedom Statistic P-Value Rank	1 0,37993 0,53764 18				
α	0,2	0,1	0,05	0,02	0,01
Critical Value	1,6424	2,7055	3,8415	5,4119	6,6349
Reject?	No	No	No	No	No

Lampiran 5. *Syntax* Program WinBUGS

```
model
{
# Mendeklarasikan parameter fungsi likelihood
for( i in 1 : n ) {
        logy[i] <- log(y[i])
        logy[i] ~ dnorm(mu[i],tau)
        mu[i]<- log(theta[i])
        log(theta[i])<- beta0 + beta[1]*x1[i] + beta[2]*x2[i] + beta[3]*x3[i] + beta[4]*x4[i] + v[i]
        v[i] ~ dnorm(0.0, tauV)
        }
# Priors
        beta0~ dnorm(0.001,1.0E-6)
        beta[1] ~ dnorm(0.001,1.0E-6)
        beta[2] ~ dnorm(0.001,1.0E-6)
        beta[3] ~ dnorm(0.001,1.0E-6)
        beta[4] ~ dnorm(0.001,1.0E-6)

        tau ~ dgamma(0.1,0.01)
        tauV ~ dgamma(0.1,0.01)
        sigma<- 1/sqrt(tau)
        sigmaV<- 1/sqrt(tauV)
 }
# Data
list(n=24,
x1=c(150,364,474,403,527,410,298,218,302,148,166,167,159,160,192,116,121,114,42,43,201,868
6,1462,746),
x2=c(35.71,22.35,40.74,42.19,36.93,25.42,45.88,36.3,18.13,25.53,39.74,34.12,23.2,17.9,27.95,54.
66,40.69,64.74,33.91,36.48,66.14,0,0,9.26),
x3=c(7.63,7.43,6.48,6.48,7.18,7.97,7.48,7.46,7.60,7.96,6.98,7.74,6.80,7.83,7.85,8.89,8.15,8.02,7.7
8,8.54,7.92,11.20,10.30,10.75),
x4=c(3.68474,8.56746,5.62152,6.68562,6.61625,13.7831,7.09028,13.7263,17.2052,4.79743,22.10
8,6.99351,12.8584,8.45069,12.7701,4.53555,9.72897,4.55814,8.2212,16.0229,5.14001,122.466,4.
94779,5.44736),
y=c(0.0117,0.0331,0.0398,0.0212,0.0413,0.0487,0.0228,0.0471,0.0541,0.0579,0.0325,0.0353,0.03
3,0.0475,0.0311,0.024,0.0466,0.0274,0.0304,0.0408,0.03,0.1039,0.0642,0.1032)
)
# Initial
list(beta0=0, beta=c(0,0,0,0), tau=1, tauV=1, v=c(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0))
```

Lampiran 6. Hasil Pendugaan Parameter Area Kecil dengan Pendekatan Bayesian Hierarki

node	mean	sd	MC error	2.50%	median	97.50%	start	sample
beta[1]	-1.12E-04	1.86E-04	1.74E-06	-4.88E-04	-1.12E-04	2.59E-04	1004	19997
beta[2]	-0.01302	0.005645	4.21E-05	-0.02435	-0.01302	-0.00187	1004	19997
beta[3]	0.172	0.09461	0.001059	-0.01504	0.1719	0.3573	1004	19997
beta[4]	0.008881	0.0123	1.09E-04	-0.01559	0.0089	0.03344	1004	19997
beta0	-4.27	0.8396	0.009371	-5.912	-4.276	-2.612	1004	19997
tau	34.14	46.91	0.3488	5.147	16.64	170.6	1004	19997
tauV	33.62	46.68	0.3293	5.036	16.36	166.6	1004	19997
v[1]	-0.5237	0.3495	0.002541	-1.129	-0.5213	0.04431	1004	19997
v[2]	-0.079	0.1707	0.001262	-0.4313	-0.07369	0.2504	1004	19997
v[3]	0.2321	0.2313	0.001886	-0.1563	0.209	0.7194	1004	19997
v[4]	-0.08213	0.1863	0.001412	-0.474	-0.07131	0.2736	1004	19997
v[5]	0.1654	0.1949	0.001438	-0.1876	0.1529	0.5652	1004	19997
v[6]	0.06732	0.1649	0.001232	-0.2547	0.06297	0.4057	1004	19997
v[7]	-0.1141	0.1748	0.001251	-0.4698	-0.1064	0.2141	1004	19997
v[8]	0.1537	0.186	0.001269	-0.1917	0.1453	0.5282	1004	19997
v[9]	0.08082	0.1807	0.001362	-0.2621	0.07226	0.4613	1004	19997
v[10]	0.1791	0.1915	0.001391	-0.1691	0.1705	0.5613	1004	19997
v[11]	-0.00595	0.1829	0.001304	-0.3796	-0.00392	0.3641	1004	19997
v[12]	-0.00124	0.1565	0.001036	-0.3176	-2.94E-04	0.3119	1004	19997
v[13]	-0.05306	0.1744	0.001136	-0.4105	-0.04714	0.291	1004	19997
v[14]	0.02589	0.1674	0.00111	-0.305	0.02224	0.3678	1004	19997
v[15]	-0.14	0.1807	0.001297	-0.5047	-0.1297	0.1942	1004	19997
v[16]	-0.1538	0.2064	0.001579	-0.5909	-0.1368	0.2128	1004	19997
v[17]	0.1319	0.1782	0.001257	-0.2033	0.1232	0.4997	1004	19997
v[18]	0.05526	0.1909	0.001313	-0.3167	0.04641	0.4582	1004	19997
v[19]	-0.09616	0.1671	0.001219	-0.4355	-0.09129	0.2245	1004	19997
v[20]	-0.02863	0.1839	0.001583	-0.4079	-0.02457	0.3367	1004	19997
v[21]	0.1204	0.2026	0.001386	-0.244	0.1031	0.5591	1004	19997
v[22]	-0.01656	0.2687	0.001819	-0.5864	-0.01241	0.5324	1004	19997
v[23]	-0.0646	0.2206	0.001516	-0.5355	-0.05004	0.3593	1004	19997
v[24]	0.1534	0.2251	0.001672	-0.2416	0.128	0.6423	1004	19997