

LAMPIRAN

Lampiran 1. Data Uji Emisi Gas Buang Kendaraan Bermotor di Yogyakarta

Y1 = Gas buang HC

X1 = Jenis kendaraan

X3 = Jenis Bahan Bakar kendaraan

Y2 = Gas buang CO

X2 = Kapasitas Mesin (cc)

X4 = Usia kendaraan

y1	y2	x1	x2	x3	x4
0	0	1	3	1	10
0	1	0	2	0	10
0	0	0	2	0	10
0	0	0	2	0	10
0	0	0	2	0	10
1	1	0	1	0	10
1	0	0	1	0	9
1	1	0	3	2	9
1	1	1	3	1	8
1	1	0	2	0	8
1	0	0	1	0	8
1	0	0	2	0	8
0	0	0	2	0	8
0	1	0	1	0	8
1	1	0	2	0	8
1	0	0	2	0	8
1	1	0	2	0	8
1	0	0	3	2	8
1	1	0	4	2	8
1	1	0	2	0	8
0	0	1	3	1	7
1	0	0	2	0	7
1	1	0	3	2	7
1	0	0	2	0	7
1	1	0	2	0	7
0	0	1	4	1	6
0	0	1	4	1	6
0	0	1	4	1	6
1	1	1	4	1	6
1	1	1	3	1	6
1	1	1	4	1	6
0	0	1	4	1	6
1	1	1	4	1	6

y1	y2	x1	x2	x3	x4
0	0	1	4	1	6
0	0	1	4	1	6
0	0	1	4	1	6
1	0	0	1	0	6
1	1	0	2	0	6
1	1	0	2	0	6
1	1	0	3	2	6
1	1	0	3	2	6
1	0	0	3	2	6
1	0	0	1	0	6
1	1	0	1	0	6
1	1	0	2	0	6
1	1	0	2	0	6
1	1	0	2	0	6
1	0	0	3	0	6
1	1	0	3	0	6
1	0	0	3	2	6
1	1	0	3	2	6
1	1	0	3	2	6
1	1	0	3	2	6
1	0	0	3	2	6
1	1	0	2	0	6
1	1	1	4	1	5
0	0	1	4	1	5
0	0	1	4	1	5
0	0	1	4	1	5
1	1	0	2	0	5
1	0	0	2	0	5
1	1	0	4	2	5
1	1	0	2	0	5
1	1	0	3	2	5
1	1	0	3	2	5

y1	y2	x1	x2	x3	x4
1	1	0	2	0	5
1	1	0	3	2	5
1	1	0	3	2	5
1	1	0	3	2	5
0	0	1	4	1	4
1	1	1	4	1	4
0	0	1	3	1	4
0	0	1	3	1	4
0	0	1	3	1	4
1	0	0	4	2	4
1	1	0	3	2	4
1	1	0	3	2	4
1	1	0	2	0	4
1	1	0	2	0	4
1	1	0	3	2	4
1	1	0	2	0	4
1	1	0	1	0	4
1	1	0	3	2	4
1	1	0	3	2	4
1	1	0	1	0	4
1	1	0	4	2	4
1	0	0	4	2	4
1	1	0	4	2	4
0	1	0	1	0	4
0	0	1	4	1	3
1	1	1	4	1	3
1	1	1	4	1	3
1	1	1	4	1	3
0	0	1	4	1	3
1	0	0	2	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	3	2	3
1	1	0	2	0	3
1	1	0	3	2	3

y1	y2	x1	x2	x3	x4
1	1	0	4	0	3
1	1	0	3	2	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	0	0	3	2	3
1	1	0	1	0	3
1	1	0	2	0	3
1	1	0	3	2	3
1	1	0	3	2	3
1	1	0	2	0	3
1	1	0	3	2	3
1	1	0	2	0	3
1	1	0	3	2	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	0	0	2	0	3
1	1	0	3	2	3
1	1	0	3	2	3
1	1	0	3	2	3
1	1	0	3	2	3
1	1	0	3	2	3
1	1	0	1	0	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	0	1	0	3
1	1	0	3	2	3
1	1	0	3	2	3
1	1	0	2	0	3
1	1	0	3	2	3
1	1	0	2	0	3
1	1	0	2	0	3
1	1	1	3	1	2
0	0	1	3	1	2
1	1	1	3	1	2
0	0	1	4	1	2
1	1	0	2	0	2
1	1	0	2	0	2
1	1	0	2	0	2

Lampiran 2. Tabel Normal Baku

Z TableEntries in the body of the table represents areas under the curve between $-\infty$ and z

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990

Lampiran 3. Output Hasil Analisis

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1 . (6 vars, 221 obs pasted into editor)
   biprobit y1 y2 x1 x2 x3 x4, shownrtolerance technique(nr)

Fitting comparison equation 1:

Iteration 0:   log likelihood =   -143.48389
Iteration 1:   log likelihood =   -124.90439
Iteration 2:   log likelihood =   -124.58866
Iteration 3:   log likelihood =   -124.58789

Fitting comparison equation 2:

Iteration 0:   log likelihood =   -113.03891
Iteration 1:   log likelihood =   -79.001687
Iteration 2:   log likelihood =   -77.928429
Iteration 3:   log likelihood =   -77.915753
Iteration 4:   log likelihood =   -77.91575

Comparison:    log likelihood =   -202.50364

Fitting full model:

Iteration 0:   log likelihood =   -202.50364
Iteration 1:   log likelihood =   -196.78359
Iteration 2:   log likelihood =   -196.73563
Iteration 3:   log likelihood =   -196.73561
               g inv(H) g'      =    1.051e-11

Bivariate probit regression               Number of obs   =           221
Log likelihood =   -196.73561             Wald chi2(      8)   =           83.58
                                           Prob > chi2        =           0.0000

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		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
y1	x1	-1.071501	.3690613	-2.90	0.004	-1.794848 - .3481537
	x2	-.1575583	.2213539	-0.71	0.477	-.5914039 .2762873
	x3	.4502638	.1838361	2.45	0.014	.0899518 .8105759
	x4	.1499581	.0412688	3.63	0.000	.0690728 .2308435
	_cons	.1480862	.4629277	0.32	0.749	-.7592355 1.055408
y2	x1	-1.205771	.3940426	-3.06	0.002	-1.97808 - .4334612
	x2	-.1630661	.2502593	-0.65	0.515	-.6535654 .3274331
	x3	.0831203	.2103673	0.40	0.693	-.329192 .4954327
	x4	-.2353199	.0472503	-4.98	0.000	-.3279287 -.1427111
	_cons	2.41291	.5555083	4.34	0.000	1.324134 3.501686
	/athrho	.5623117	.1695229	3.32	0.001	.2300529 .8945704
	rho	.5096906	.1254835			.2260786 .7136438

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Likelihood-ratio test of rho=0:      chi2(  1) =   11.5361      Prob > chi2 =   0.0007

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Lampiran 4. Peraturan Menteri Lingkungan Hidup No. 05 tahun 2006

Lampiran I : Peraturan Menteri Negara
Lingkungan Hidup
Nomor : 05 Tahun 2006
Tentang : Ambang Batas Emisi Gas Buang
Kendaraan Bermotor Lama
Tanggal : 1 Agustus 2006

A. KENDARAAN BERMOTOR KATEGORI L

Kategori	Tahun Pembuatan	Parameter		Metode uji
		CO (%)	HC (ppm)	
Sepeda motor 2 langkah	< 2010	4.5	12000	Idle
Sepeda motor 4 langkah	< 2010	5.5	2400	Idle
Sepeda motor (2 langkah dan 4 langkah)	≥ 2010	4.5	2000	Idle

B. KENDARAAN BERMOTOR KATEGORI M, N DAN O

Kategori	Tahun Pembuatan	Parameter			Metoda uji
		CO (%)	HC (ppm)	Opasitas (% HSU) *	
Berpenggerak motor bakar cetus api (bensin)	< 2007 ≥ 2007	4.5 1.5	1200 200		Idle
Berpenggerak motor bakar penyalan kompresi (diesel)					Percapatan Bebas
- GVW ≤ 3.5 ton	< 2010 ≥ 2010			70 40	
- GVW > 3.5 ton	< 2010 ≥ 2010			70 50	

Catatan :

Untuk kendaraan bermotor berpenggerak
motor bakar cetus api kategori M, N dan O
- < 2007 : berlaku sampai dengan 31 Desember 2006
- ≥ 2007 : berlakumulai tanggal 1 Januari 2007

Untuk kendaraan bermotor kategori L
dan kendaraan bermotor berpenggerak motor
bakar penyalan kompresi
- < 2010 : berlaku sampai dengan 31 Desember 2009
- ≥ 2010 : berlakumulai tanggal 1 Januari 2010
* atau ekuivalen % bosch

Menteri Negara
Lingkungan Hidup,
ttd
Ir. Rachmat Witoelar

Salinan sesuai dengan aslinya

