



LAMPIRAN

Lampiran 1

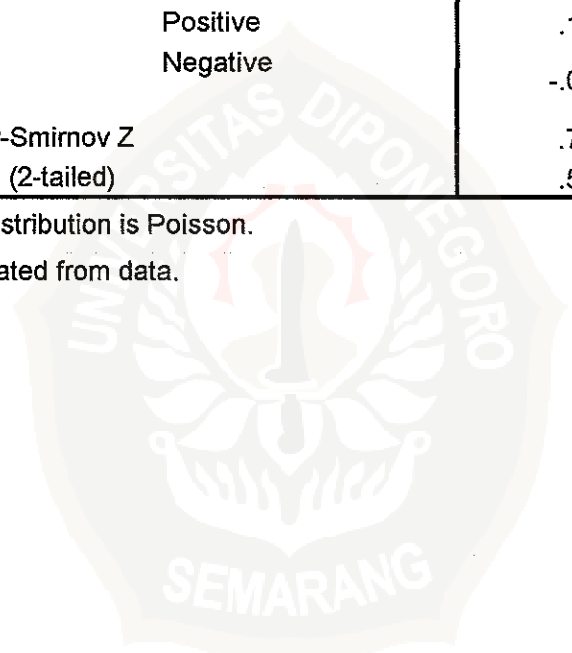
NPar Tests

One-Sample Kolmogorov-Smirnov Test

		Y_TAMBNG
N		44
Poisson Parameter ^{a,b}	Mean	2.23
Most Extreme Differences	Absolute	.119
	Positive	.119
	Negative	-.084
Kolmogorov-Smirnov Z		.792
Asymp. Sig. (2-tailed)		.557

a. Test distribution is Poisson.

b. Calculated from data.



Lampiran 2

➤ Program untuk RP penuh

```
data tambang;
input Y X1 X2 X3 X4;
cards;
2 50 70 52 1
1 230 65 42 6
.. . . .
.. . . .
3 50 88 60 20
;
proc genmod;
model Y = X1 X2 X3 X4; / dist=poi
link=log ;
run;
```

➤ Program untuk RP reduksi pertama

```
data tambang;
input Y X1 X2 X3 X4;
cards;
2 50 70 52 1
1 230 65 42 6
.. . . .
.. . . .
3 50 88 60 20
;
proc genmod;
model Y = X1 X2 X4; / dist=poi
link=log ;
run;
```

➤ Program untuk RP reduksi kedua

```
data tambang;
input Y X1 X2 X3 X4;
cards;
2 50 70 52 1
1 230 65 42 6
.. . . .
.. . . .
3 50 88 60 20
;
proc genmod;
model Y = X2 X4; / dist=poi
link=log ;
run;
```

Lampiran 3

➤ Hasil output untuk RP penuh

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The GENMOD Procedure

Model Information

Description	Value
Data Set	WORK.TAMBANG
Distribution	POISSON
Link Function	LOG
Dependent Variable	Y
Observations Used	44

Criteria For Assessing Goodness Of Fit

Criterion	DF	Value	Value/DF
Deviance	39	41.4879	1.0638
Scaled Deviance	39	41.4879	1.0638
Pearson Chi-Square	39	37.8961	0.9717
Scaled Pearson X2	39	37.8961	0.9717
Log Likelihood	.	-2.7758	.

Analysis Of Parameter Estimates

Parameter	DF	Estimate	Std Err	ChiSquare	Pr>Chi
INTERCEPT	1	-3.4085	1.0390	10.7622	0.0010
X1	1	-0.0014	0.0008	2.7770	0.0956
X2	1	0.0602	0.0125	23.1329	0.0001
X3	1	-0.0025	0.0052	0.2412	0.6234
X4	1	-0.0315	0.0164	3.6831	0.0550
SCALE	0	1.0000	0.0000	.	.

NOTE: The scale parameter was held fixed.

➤ Hasil output untuk RP reduksi pertama

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The GENMOD Procedure

Model Information

Description	Value
Data Set	WORK.TAMBANG
Distribution	POISSON
Link Function	LOG
Dependent Variable	Y
Observations Used	44

Criteria For Assessing Goodness Of Fit

Criterion	DF	Value	Value/DF
Deviance	40	41.7394	1.0435
Scaled Deviance	40	41.7394	1.0435
Pearson Chi-Square	40	38.3386	0.9585
Scaled Pearson X2	40	38.3386	0.9585
Log Likelihood	.	-2.9016	.

Analysis Of Parameter Estimates					
Parameter	DF	Estimate	Std Err	ChiSquare	Pr>Chi
INTERCEPT	1	-3.5643	0.9918	12.9141	0.0003
X1	1	-0.0015	0.0008	3.2477	0.0715
X2	1	0.0606	0.0125	23.4842	0.0001
X4	1	-0.0325	0.0165	3.8989	0.0483
SCALE	0	1.0000	0.0000	.	.

NOTE: The scale parameter was held fixed.

> Hasil output untuk RP reduksi kedua

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The GENMOD Procedure

Model Information

Description	Value
Data Set	WORK.TAMBANG
Distribution	POISSON
Link Function	LOG
Dependent Variable	Y
Observations Used	44

Criteria For Assessing Goodness Of Fit

Criterion	DF	Value	Value/DF
Deviance	41	45.3482	1.1061
Scaled Deviance	41	45.3482	1.1061
Pearson Chi-Square	41	42.3967	1.0341
Scaled Pearson X2	41	42.3967	1.0341
Log Likelihood	.	-4.7060	.

Analysis Of Parameter Estimates

Parameter	DF	Estimate	Std Err	ChiSquare	Pr>Chi
INTERCEPT	1	-3.3586	0.9530	12.4213	0.0004
X2	1	0.0557	0.0118	22.2665	0.0001
X4	1	-0.0388	0.0156	6.1647	0.0130
SCALE	0	1.0000	0.0000	.	.

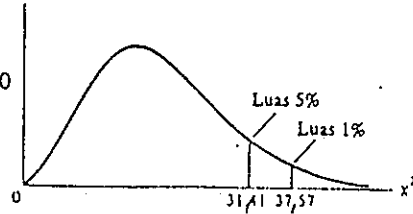
NOTE: The scale parameter was held fixed.

Lampiran 4

TABEL DISTRIBUSI CHI KUADRAT

Contoh

Pr ($\chi^2 > 23,8277$) = 0,25
 Pr ($\chi^2 > 31,4104$) = 0,05 untuk df = 20
 Pr ($\chi^2 > 37,5662$) = 0,01



df \ Pr	0,250	0,100	0,050	0,025	0,010	0,005	0,001
1	1,32130	2,70554	3,84146	5,02389	6,63490	7,87944	10,828
2	2,77259	4,60517	5,99146	7,37776	9,21034	10,5966	13,816
3	4,10834	6,25139	7,81473	9,14840	11,3449	12,8382	16,266
4	5,38527	7,77944	9,48773	11,1433	13,2767	14,8601	18,467
5	6,62568	9,23636	11,0705	12,8325	15,0863	16,7496	20,515
6	7,84080	10,6446	12,5916	14,4494	16,8119	18,5476	22,458
7	9,03715	12,0170	14,0671	16,0128	18,4753	20,2777	24,322
8	10,2189	13,3616	15,5073	17,5345	20,0902	21,9550	26,125
9	11,3888	14,6837	16,9190	19,0228	21,6660	23,5894	27,877
10	12,5489	15,9872	18,3070	20,4832	23,2093	25,1882	29,588
11	13,7007	17,2750	19,6751	21,9200	24,7250	26,7568	31,264
12	14,8454	18,5493	21,0261	23,3367	26,2170	28,2995	32,909
13	15,9839	19,8119	22,3620	24,7356	27,6882	29,8195	34,528
14	17,1169	21,0641	23,6848	26,1189	29,1412	31,3194	36,123
15	18,2451	22,3071	24,9958	27,4884	30,5779	32,8013	37,697
16	19,3689	23,5418	26,2962	28,8454	31,9999	34,2672	39,252
17	20,4887	24,7690	27,5871	30,1910	33,4087	35,7185	40,790
18	21,6049	25,9894	28,8693	31,5264	34,8053	37,1565	42,312
19	22,7178	27,2036	30,1435	32,8523	36,1909	38,5823	43,820
20	23,8277	28,4120	31,4104	34,1696	37,5652	39,9968	45,315
21	24,9348	29,6151	32,6706	35,4789	38,9322	41,4011	46,797
22	26,0393	30,8133	33,9244	36,7807	40,2894	42,7957	48,268
23	27,1413	32,0069	35,1725	38,0756	41,6384	44,1813	49,728
24	28,2412	33,1962	36,4150	39,3641	42,9798	45,5585	51,179
25	29,3389	34,3816	37,6525	40,6465	44,3141	46,9279	52,618
26	30,4346	35,5632	38,8851	41,9232	45,6417	48,2899	54,052
27	31,5284	36,7412	40,1133	43,1945	46,9629	49,6449	55,476
28	32,6205	37,9159	41,3371	44,4608	48,2782	50,9934	56,892
29	33,7109	39,0875	42,5570	45,7223	49,5879	52,3356	58,301
30	34,7997	40,2560	43,7730	46,9792	50,8922	53,6720	59,703
40	45,9896	51,8051	55,7585	59,3417	63,6907	66,7660	73,402
50	56,3336	63,1671	67,5048	71,4202	76,1539	79,4900	86,661
60	66,9815	74,3970	79,0819	83,2977	88,3794	91,9517	99,607
70	77,5767	85,5270	90,5312	95,0232	100,425	104,215	112,317
80	88,1303	96,5782	101,879	106,629	112,329	116,321	124,839
90	98,6499	107,565	113,145	118,136	124,116	128,299	137,208
100	109,141	118,498	124,342	129,561	135,807	140,169	149,449
Z†	+0,6745	+1,2816	+1,6449	+1,9600	+2,3263	+2,5758	+3,0902

† Untuk df yang lebih besar dari 100, pernyataan

$$\sqrt{2k} - \sqrt{(2k-1)} = Z$$

mengikuti distribusi normal yang distandardisasikan, di mana k menyatakan derajat kebebasan.

Sumber: Dari E. S. Pearson dan H. O. Hartley, editor, *Biometrika Tables for Statisticians*, volume 1, edisi ketiga, tabel 8, Cambridge University Press, New York, 1966. Diprodukt dengan seizin editor dan trustee *Biometrika*.