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# LAMPIRAN

DATA OPERASIONAL MODAL INDUSTRI PAKAN TERNAK INDONESIA  
TAHUN 1986-2002  
(ribu rupiah)

Tahun	Biaya Input Tetap	Modal Tetap	Modal (biaya input tetap + modal tetap)
1986	245058697	73199351.04	318258048
1987	387992035.2	115893724.8	503885760
1988	520490432	155471168	675961600
1989	717239353.6	214240326.4	931479680
1990	517672897.3	154629566.7	672302464
1991	768957136.6	229688495.4	998645632
1992	931962662.4	278378457.6	1210341120
1993	1058536076	316186100.5	1374722176
1994	1503293496	449035719.7	1952329216
1995	1849550592	552463163.9	2402013756
1996	2178393217	650688883	2829082100
1997	2387404573	713120846.6	3100525420
1998	2793178947	834326179	3627505126
1999	2816347961	841246793.4	3657594754
2000	3172435767	947610683.5	4120046450
2001	4046201224	1208605560	5254806784
2002	4080895665	1218968835	5299864500

Sumber : Badan Pusat Statistik diolah oleh Departemen Perindustrian

Catatan :

1. Biaya input tetap terdiri dari pengeluaran untuk bahan baku, bahan bakar, tenaga listrik, jasa industri, sewa gedung, pengadaan mesin dan alat, dan jasa non industri
2. Modal tetap terdiri dari pengeluaran untuk pembelian, penambahan dan perbaikan prasarana produksi
3. Modal merupakan hasil dari Biaya input total ditambah dengan Modal tetap

**DATA INDUSTRI PAKAN TERNAK ( ISIC 31281 )**  
**1986 - 2002**  
(ribu rupiah)

Q K L IHPB LNQ LNK LNL

Obs	Q	K	L	IHPB	LNQ	LNK	LNL
1986	429182592	318258048	12373821	108.83	17.1044	17.2669	16.2464
1987	615827520	503885760	16748732	118.26	20.0707	19.8701	16.4661
1988	789900416	675961600	18447120	129.77	20.2268	20.0710	16.4698
1989	1006450368	931479680	20973056	137.98	20.4077	20.3303	16.5368
1990	872385792	672302464	24281926	146.29	20.2063	19.9457	16.6248
1991	1235850368	998645632	35444800	153.97	20.5034	20.2903	16.9518
1992	1589213312	1210341120	41542176	157.86	20.7299	20.4576	17.0856
1993	1643732608	1374722176	47766528	170.26	20.6880	20.5093	17.1496
1994	2321520128	1952329216	49956426	180.86	20.9729	20.7997	17.1341
1995	2833154805	2402013756	49984572	184.77	21.1507	20.9856	17.1132
1996	3560548900	2829082100	55278440	194.47	21.3280	21.0981	17.1627
1997	3795432212	3100525420	58513465	204.64	21.3409	21.1387	17.1686
1998	3883408465	3627505126	60324860	319.63	20.9179	20.8498	16.7532
1999	4350841764	3657594754	69542378	328.61	18.7005	20.8303	16.8677
2000	7879481498	4120046450	74967200	342.74	21.5557	20.9073	16.9007
2001	7895898405	5254806784	78956400	384.07	21.4439	21.0367	16.8387
2002	8774805321	5299864500	83780020	427.92	21.4443	20.9321	16.7899

**Keterangan :**

1. Data output (Q), Modal (K) dan Tenaga Kerja (L) menggunakan satuan ribu rupiah
2. Data yang disajikan adalah data nilai riil menurut harga konstan 1985, berarti harga tahun 1985=100

**ESTIMASI FUNGSI PRODUKSI INDUSTRI PAKAN TERNAK**

GENR RQ=(Q/IHPB)\*100

GENR RK=(K/IHPB)\*100

GENR RL=(L/IHPB)\*100

GENR LNQ=LOG(RQ)

GENR LNK=LOG(RK)

GENR LNL=LOG(RL)

LS LNQ C LNK LNL

Dependent Variable: LNQ  
 Method: Least Squares  
 Date: 07/22/05 Time: 15:17  
 Sample: 1986 2002  
 Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.057670	0.999907	0.057675	0.9548
LNK	0.910081	0.049918	18.23164	0.0000
LNL	0.117575	0.096613	1.216970	0.2437
R-squared	0.987153	Mean dependent var		20.82979
Adjusted R-squared	0.985318	S.D. dependent var		0.552473
S.E. of regression	0.066943	Akaike info criterion		-2.411160
Sum squared resid	0.062739	Schwarz criterion		-2.264122
Log likelihood	23.49486	F-statistic		537.8792
Durbin-Watson stat	1.445508	Prob(F-statistic)		0.000000

**UJI HETEROKEDASTISITAS**

GENR RES=RESID

GENR ABSRES=ABS(RES)

LS ABSRES C LNK

Dependent Variable: ABSRES  
 Method: Least Squares  
 Date: 07/22/05 Time: 15:21  
 Sample: 1986 2002  
 Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.149264	0.293202	-0.509084	0.6181
LNK	0.009762	0.014198	0.687557	0.5022
R-squared	0.030553	Mean dependent var		0.052256
Adjusted R-squared	-0.034077	S.D. dependent var		0.031935
S.E. of regression	0.032475	Akaike info criterion		-3.906560
Sum squared resid	0.015819	Schwarz criterion		-3.808535
Log likelihood	35.20576	F-statistic		0.472734
Durbin-Watson stat	2.075202	Prob(F-statistic)		0.502226

LS ABSRES C LNL

Dependent Variable: ABSRES  
 Method: Least Squares  
 Date: 07/22/05 Time: 15:22  
 Sample: 1986 2002  
 Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.309363	0.466623	0.662982	0.5174
LNL	-0.015227	0.027631	-0.551075	0.5897
R-squared	0.019844	Mean dependent var		0.052256
Adjusted R-squared	-0.045500	S.D. dependent var		0.031935
S.E. of regression	0.032654	Akaike info criterion		-3.895575
Sum squared resid	0.015994	Schwarz criterion		-3.797549
Log likelihood	35.11238	F-statistic		0.303683
Durbin-Watson stat	1.944485	Prob(F-statistic)		0.589697

@UJI MULTIKOLINEARITAS

LS LNK C LNL

Dependent Variable: LNK  
 Method: Least Squares  
 Date: 07/22/05 Time: 15:24  
 Sample: 1986 2002  
 Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-5.830264	4.948096	-1.178284	0.2570
LNL	1.567854	0.293003	5.350978	0.0001
R-squared	0.656223	Mean dependent var		20.64307
Adjusted R-squared	0.633305	S.D. dependent var		0.571813
S.E. of regression	0.346263	Akaike info criterion		0.826897
Sum squared resid	1.798475	Schwarz criterion		0.924922
Log likelihood	-5.028625	F-statistic		28.63297
Durbin-Watson stat	0.334586	Prob(F-statistic)		0.000081

LS LNL C LNK

Dependent Variable: LNL  
 Method: Least Squares  
 Date: 07/22/05 Time: 15:25  
 Sample: 1986 2002  
 Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	8.244946	1.615265	5.104391	0.0001
LNK	0.418549	0.078219	5.350978	0.0001
R-squared	0.656223	Mean dependent var		16.88508
Adjusted R-squared	0.633305	S.D. dependent var		0.295443
S.E. of regression	0.178907	Akaike info criterion		-0.493773
Sum squared resid	0.480114	Schwarz criterion		-0.395748
Log likelihood	6.197070	F-statistic		28.63297
Durbin-Watson stat	0.359961	Prob(F-statistic)		0.000081

@UJI WALD

LS LNQ C LNK LNL

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.057670	0.999907	0.057675	0.9548
LNK	0.910081	0.049918	18.23164	0.0000
LNL	0.117575	0.096613	1.216970	0.2437
R-squared	0.987153	Mean dependent var	20.82979	
Adjusted R-squared	0.985318	S.D. dependent var	0.552473	
S.E. of regression	0.066943	Akaike info criterion	-2.411160	
Sum squared resid	0.062739	Schwarz criterion	-2.264122	
Log likelihood	23.49486	F-statistic	537.8792	
Durbin-Watson stat	1.445508	Prob(F-statistic)	0.000000	

TEST(W) C(2)+C(3)=1

Wald Test:  
Equation: Untitled

Test Statistic	Value	df	Probability
F-statistic	0.190617	(1, 14)	0.6691
Chi-square	0.190617	1	0.6624

Null Hypothesis Summary:

Normalized Restriction (= 0)	Value	Std. Err.
-1 + C(2) + C(3)	0.027655	0.063343

Restrictions are linear in coefficients.

@INTENSITAS PEMAKAIAN PRODUKSI DAN KEMAJUAN TEKNOLOGI

SMPL 1986 2002

LS LNQ C LNK

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/22/05 Time: 15:33  
Sample: 1986 2002  
Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.027067	0.614013	1.672712	0.1151
LNK	0.959291	0.029734	32.26295	0.0000
R-squared	0.985794	Mean dependent var	20.82979	
Adjusted R-squared	0.984847	S.D. dependent var	0.552473	
S.E. of regression	0.068008	Akaike info criterion	-2.428250	
Sum squared resid	0.069376	Schwarz criterion	-2.330225	
Log likelihood	22.64013	F-statistic	1040.898	
Durbin-Watson stat	1.482047	Prob(F-statistic)	0.000000	

LS LNQ C LNL

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/22/05 Time: 15:33  
Sample: 1986 2002  
Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-5.248340	4.597022	-1.141683	0.2715
LNL	1.544448	0.272214	5.673648	0.0000
R-squared	0.682138	Mean dependent var		20.82979
Adjusted R-squared	0.660947	S.D. dependent var		0.552473
S.E. of regression	0.321696	Akaike info criterion		0.679709
Sum squared resid	1.552321	Schwarz criterion		0.777734
Log likelihood	-3.777525	F-statistic		32.19029
Durbin-Watson stat	0.275187	Prob(F-statistic)		0.000044

SMPL 1986 1994

LS LNQ C LNK

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/22/05 Time: 15:30  
Sample: 1986 1994  
Included observations: 9

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.813812	1.171013	1.548925	0.1653
LNK	0.920263	0.057971	15.87445	0.0000
R-squared	0.972973	Mean dependent var		20.39987
Adjusted R-squared	0.969112	S.D. dependent var		0.366657
S.E. of regression	0.064440	Akaike info criterion		-2.453027
Sum squared resid	0.029068	Schwarz criterion		-2.409199
Log likelihood	13.03862	F-statistic		251.9980
Durbin-Watson stat	1.584567	Prob(F-statistic)		0.000001

LS LNQ C LNL

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/22/05 Time: 15:30  
Sample: 1986 1994  
Included observations: 9

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.596585	2.404815	1.495576	0.1784
LNL	1.003745	0.143625	6.988644	0.0002
R-squared	0.874644	Mean dependent var		20.39987
Adjusted R-squared	0.856736	S.D. dependent var		0.366657
S.E. of regression	0.138780	Akaike info criterion		-0.918717
Sum squared resid	0.134820	Schwarz criterion		-0.874890
Log likelihood	6.134228	F-statistic		48.84115
Durbin-Watson stat	1.738980	Prob(F-statistic)		0.000214

SMPL 1995 2002

LS LNQ C LNK

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/22/05 Time: 15:31  
Sample: 1995 2002  
Included observations: 8



Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-3.121275	3.594652	-0.868311	0.4186
LNK	1.155551	0.169992	6.797693	0.0005
R-squared	0.885076	Mean dependent var		21.31345
Adjusted R-squared	0.865923	S.D. dependent var		0.197588
S.E. of regression	0.072350	Akaike info criterion		-2.202283
Sum squared resid	0.031407	Schwarz criterion		-2.182423
Log likelihood	10.80913	F-statistic		46.20864
Durbin-Watson stat	1.276943	Prob(F-statistic)		0.000496

LS LNQ C LNL

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/22/05 Time: 15:32  
Sample: 1995 2002  
Included observations: 8

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	12.78096	13.98658	0.913801	0.3961
LNL	0.500509	0.820431	0.610057	0.5642
R-squared	0.058405	Mean dependent var		21.31345
Adjusted R-squared	-0.098527	S.D. dependent var		0.197588
S.E. of regression	0.207093	Akaike info criterion		-0.098975
Sum squared resid	0.257326	Schwarz criterion		-0.079115
Log likelihood	2.395901	F-statistic		0.372169
Durbin-Watson stat	0.927246	Prob(F-statistic)		0.564199

@EFISIENSI PRODUKSI DAN UJI CHOW

SMPL 1986 2002

LS LNQ C LNK LNL

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/22/05 Time: 15:35  
Sample: 1986 2002  
Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.057670	0.999907	0.057675	0.9548
LNK	0.910081	0.049918	18.23164	0.0000
LNL	0.117575	0.096613	1.216970	0.2437
R-squared	0.987153	Mean dependent var		20.82979
Adjusted R-squared	0.985318	S.D. dependent var		0.552473
S.E. of regression	0.066943	Akaike info criterion		-2.411160
Sum squared resid	0.062739	Schwarz criterion		-2.264122
Log likelihood	23.49486	F-statistic		537.8792
Durbin-Watson stat	1.445508	Prob(F-statistic)		0.000000

SMPL 1986 1994

LS LNQ C LNK LNL

Dependent Variable: LNQ

Method: Least Squares  
 Date: 07/22/05 Time: 15:36  
 Sample: 1986 1994  
 Included observations: 9

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.421668	0.698738	2.034624	0.0881
LNK	0.679249	0.072711	9.341823	0.0001
LNL	0.314193	0.083646	3.756243	0.0094
R-squared	0.991936	Mean dependent var		20.39987
Adjusted R-squared	0.989248	S.D. dependent var		0.366657
S.E. of regression	0.038020	Akaike info criterion		-3.440231
Sum squared resid	0.008673	Schwarz criterion		-3.374489
Log likelihood	18.48104	F-statistic		369.0203
Durbin-Watson stat	3.274700	Prob(F-statistic)		0.000001

SMPL 1995 2002

LS LNQ C LNK LNL

Dependent Variable: LNQ  
 Method: Least Squares  
 Date: 07/22/05 Time: 15:37  
 Sample: 1995 2002  
 Included observations: 8

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-8.953513	5.516574	-1.623021	0.1655
LNK	1.140037	0.160228	7.115072	0.0009
LNL	0.361358	0.270163	1.337555	0.2387
R-squared	0.915361	Mean dependent var		21.31345
Adjusted R-squared	0.881506	S.D. dependent var		0.197588
S.E. of regression	0.068016	Akaike info criterion		-2.258157
Sum squared resid	0.023131	Schwarz criterion		-2.228366
Log likelihood	12.03263	F-statistic		27.03726
Durbin-Watson stat	1.601556	Prob(F-statistic)		0.002084

**PERHITUNGAN MPK, MPL, APK, APL**

GENR DQ=D(LNQ)  
 GENR DK=D(LNK)  
 GENR DL=D(LNL)  
 GENR MPK=DQ/DK  
 GENR MPL=DQ/DL  
 SMPL 1987 2002

Date:  
 07/22/05  
 Time: 20:42  
 Sample: 1987 2002

	MPK	MPL
Mean	2.934019	2.162368
Median	0.819587	1.406880
Maximum	40.54539	42.09193
Minimum	-4.167050	-18.29451
Std. Dev.	10.12012	12.19792
Skewness	3.498801	2.042964
Kurtosis	13.58711	8.778522
Jarque-Bera Probability	107.3689 0.000000	33.39075 0.000000
Sum	46.94431	34.59789
Sum Sq. Dev.	1536.253	2231.840
Observations	16	16

COVARIANCE

	MPK	MPL
MPK	96.01581	17.04737
MPL	17.04737	139.4900

CORRELATION

	MPK	MPL
MPK	1.000000	0.147304
MPL	0.147304	1.000000

SMPL 1987 1994

Date:  
 07/22/05  
 Time: 20:37  
 Sample: 1987 1994

	MPK	MPL
Mean	0.640576	3.427819
Median	0.757671	1.087017
Maximum	1.353974	42.09193
Minimum	-0.809715	-18.29451
Std. Dev.	0.634983	17.03222

Skewness	-1.571753	1.460849
Kurtosis	4.719557	4.770212
Jarque-Bera Probability	4.279504 0.117684	3.889991 0.142988
Sum	5.124606	27.42255
Sum Sq. Dev.	2.822426	2030.677
Observations	8	8

COVARIANCE

	MPK	MPL
MPK	0.352803	0.301229
MPL	0.301229	253.8346

CORRELATIONS

	MPK	MPL
MPK	1.000000	0.031831
MPL	0.031831	1.000000

SMPL 1995 2002

Date:  
07/22/05  
Time: 20:40  
Sample: 1995 2002

	MPK	MPL
Mean	5.227463	0.896918
Median	0.957014	1.868147
Maximum	40.54539	8.340322
Minimum	-4.167050	-8.536735
Std. Dev.	14.38885	5.007722
Skewness	2.190003	-0.552862
Kurtosis	5.964471	2.936887
Jarque-Bera Probability	9.324182 0.009447	0.408869 0.815108
Sum	41.81970	7.175342
Sum Sq. Dev.	1449.272	175.5410
Observations	8	8

COVARIANCE

	MPK	MPL
MPK	181.1590	39.59800
MPL	39.59800	21.94262

CORRELATION

	MPK	MPL
MPK	1.000000	0.628057
MPL	0.628057	1.000000

SMPL 1986 2002

GENR APK=LNQ/LNK

GENR APL=LNQ/LNL

Date:

07/22/05

Time: 20:45

Sample: 1986 2002

	APK	APL
Mean	1.009082	1.233529
Median	1.009567	1.234081
Maximum	1.015339	1.267523
Minimum	1.002376	1.206325
Std. Dev.	0.003499	0.019152
Skewness	-0.367041	0.318618
Kurtosis	2.696434	1.947787
Jarque-Bera Probability	0.446979 0.799723	1.071865 0.585123
Sum	17.15439	20.97000
Sum Sq. Dev.	0.000196	0.005869
Observations	17	17

COVARIANCE

	APK	APL
APK	1.15E-05	-2.02E-05
APL	-2.02E-05	0.000345

CORRELATION

	APK	APL
APK	1.000000	-0.320293
APL	-0.320293	1.000000

SMPL 1986 1994

Date:

07/22/05

Time: 20:48

Sample: 1986 1994

	APK	APL
Mean	1.010102	1.218666
Median	1.010096	1.218281
Maximum	1.015339	1.234081
Minimum	1.003808	1.206325
Std. Dev.	0.003479	0.008885
Skewness	-0.213743	0.345025
Kurtosis	2.446472	2.176259
Jarque-Bera Probability	0.183427 0.912367	0.433020 0.805325
Sum	9.090922	10.96799
Sum Sq. Dev.	9.68E-05	0.000632
Observations	9	9

COVARIANCE

	APK	APL
APK	1.08E-05	-1.60E-05
APL	-1.60E-05	7.02E-05

CORRELATION

	APK	APL
APK	1.000000	-0.582599
APL	-0.582599	1.000000

SMPL 1995 2002

Date:  
07/22/05  
Time: 20:49  
Sample: 1995 2002

	APK	APL
Mean	1.007934	1.250251
Median	1.008988	1.247756
Maximum	1.011330	1.267523
Minimum	1.002376	1.235924
Std. Dev.	0.003363	0.012022
Skewness	-0.792464	0.217389
Kurtosis	2.112859	1.511016
Jarque-Bera Probability	1.099672 0.577044	0.802035 0.669638
Sum	8.063473	10.00201
Sum Sq. Dev.	7.92E-05	0.001012
Observations	8	8

COVARIANCE

	APK	APL
APK	9.90E-06	1.13E-05
APL	1.13E-05	0.000126

CORRELATION

	APK	APL
APK	1.000000	0.320424
APL	0.320424	1.000000

SAVE

EXIT

SMPL 1986 2002

LS LNQ C LNK LNL

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/25/05 Time: 12:07  
Sample: 1986 2002  
Included observations: 17

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.057670	0.999907	0.057675	0.9548
LNK	0.910081	0.049918	18.23164	0.0000
LNL	0.117575	0.096613	1.216970	0.2437
R-squared	0.987153	Mean dependent var		20.82979

Adjusted R-squared	0.985318	S.D. dependent var	0.552473
S.E. of regression	0.066943	Akaike info criterion	-2.411160
Sum squared resid	0.062739	Schwarz criterion	-2.264122
Log likelihood	23.49486	F-statistic	537.8792
Durbin-Watson stat	1.445508	Prob(F-statistic)	0.000000

SMPL 1986 1994

LS LNQ LNK LNL

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/25/05 Time: 12:09  
Sample: 1986 1994  
Included observations: 9

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.421668	0.698738	2.034624	0.0881
LNK	0.679249	0.072711	9.341823	0.0001
LNL	0.314193	0.083646	3.756243	0.0094
R-squared	0.991936	Mean dependent var	20.39987	
Adjusted R-squared	0.989248	S.D. dependent var	0.366657	
S.E. of regression	0.038020	Akaike info criterion	-3.440231	
Sum squared resid	0.008673	Schwarz criterion	-3.374489	
Log likelihood	18.48104	F-statistic	369.0203	
Durbin-Watson stat	3.274700	Prob(F-statistic)	0.000001	

SMPL 1995 2002

LS LNQ C LNK LNL

Dependent Variable: LNQ  
Method: Least Squares  
Date: 07/25/05 Time: 12:10  
Sample: 1995 2002  
Included observations: 8

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-8.953513	5.516574	-1.623021	0.1655
LNK	1.140037	0.160228	7.115072	0.0009
LNL	0.361358	0.270163	1.337555	0.2387
R-squared	0.915361	Mean dependent var	21.31345	
Adjusted R-squared	0.881506	S.D. dependent var	0.197588	
S.E. of regression	0.068016	Akaike info criterion	-2.258157	
Sum squared resid	0.023131	Schwarz criterion	-2.228366	
Log likelihood	12.03263	F-statistic	27.03726	
Durbin-Watson stat	1.601556	Prob(F-statistic)	0.002084	