Lampiran 1. Data *Trend* Permintaan Jagung di Indonesia Tahun 1993-2015

Tahun	Permintaan Jagung (ton)
1993	3.362.659
1994	3.294.584
1995	5.890.178
1996	6.419.123
1997	6.114.902
1998	5.221.514
1999	4.820.013
2000	5.891.195
2001	1.907.896
2002	2.784.951
2003	2.943.782
2004	3.039.182
2005	3.730.746
2006	4.244.881
2007	4.761.539
2008	4.869.549
2009	4.677.274
2010	5.396.621
2011	5.972.498
2012	6.878.191
2013	7.255.494
2014	7.855.562
2015	8.540.000

Sumber: Pusdatin (2016) dan USDA.

Lampiran 2. Hasil Analisis *Trend* Permintaan Jagung di Indonesia Tahun 1993-2015

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,488
R Square	0,239
Adjusted R Square	0,202
Standard Error	1.544.365, 993
Observations	23

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	15.698.258.839.358,500	15.698.258.839.358,500	6,582	0,018
Residual	21	50.086.392.715. 655,100	2.385.066.319.793,100		
Total	22	65.784.651.555.013,600			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 90,0%*	*Upper 90,0%*
Intercept	5.037.927,565	322.022,570	15,645	0,000	4.368.244,970	5.707.610,160	4.483.809,513	5.592.045,617
Waktu	124.547,635	48.546,729	2,566	0,018	23.589,186	225.506,085	41.011,196	208.084,075

Sumber: Analisis data sekunder (2018).

Y = 5.037.928* + 124.547,6 X****

Lampiran 4. Proyeksi Permintaan Jagung di Indonesia Tahun 2016-2020

Tahun	*Trend* Permintaan Jagung (ton)
2016	6.532.499,190
2017	6.657.046,825
2018	6.781.594,460
2019	6.906.142,096
2020	7.030.689,731

Sumber: Analisis data sekunder (2018).

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Lampiran 3. Hasil Analisis *Residual* Permintaan Jagung di Indonesia Tahun 1993-2015

RESIDUAL OUTPUT

Observation	*Predicted* Permintaan Jagung (ton)	*Residuals*
1	3.667.903,576	-305.244,576
2	3.792.451,211	-497.867,211
3	3.916.998,847	1.973.179,153
4	4.041.546,482	2.377.576,518
5	4.166.094,118	1.948.807,882
6	4.290.641,753	930.872,247
7	4.415.189,388	404.823,612
8	4.539.737,024	1.351.457,976
9	4.664.284,659	-2.756.388,659
10	4.788.832,294	-2.003.881,294
11	4.913.379,930	-1.969.597,930
12	5.037.927,565	-1.998.745,565
13	5.162.475,201	-1.431.729,201
14	5.287.022,836	-1.042.141,836
15	5.411.570,471	-650.031,471
16	5.536.118,107	-666.569,107
17	5.660.665,742	-983.391,742
18	5.785.213,377	-388.592,377
19	5.909.761,013	62.736,987
20	6.034.308,648	843.882,352
21	6.158.856,284	1.096.637,716
22	6.283.403,919	1.572.158,081
23	6.407.951,554	2.132.048,446

Sumber: Analisis data sekunder (2018).

Lampiran 6. Hasil Analisis *Trend* Permintaan Jagung Konsumsi Rumah Tangga di Indonesia Tahun 1993-2015

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,716
R Square	0,513
Adjusted R Square	0,489
Standard Error	140.331,436
Observations	23

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	435.014.539.818,618	435.014.539.818,618	22,090	0,000
Residual	21	413.551.150.729,295	19.692.911.939,490		
Total	22	848.565.690.547,913			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 90,0%*	*Upper 90,0%*
Intercept	622.656,783	29.261,127	21,279	0,000	561.804,937	683.508,628	572.305,906	673.007,659
Waktu	-20.732,975	4.411,281	-4,700	0,000	-29.906,736	-11.559,214	-28.323,656	-13.142,295

Sumber: Analisis data sekunder (2018).

Y = 622.657* - 20.733 X*** **

Lampiran 5. Data *Trend* Permintaan Jagung Konsumsi Rumah Tangga di Indonesia Tahun 1993-2015

Tahun	Konsumsi Rumah Tangga (ton)
1993	1.104.647
1994	893.553
1995	720.608
1996	584.058
1997	616.228
1998	650.042
1999	682.539
2000	675.835
2001	682.896
2002	689.951
2003	575.212
2004	654.182
2005	615.746
2006	644.881
2007	911.539
2008	819.549
2009	577.274
2010	411.621
2011	322.498
2012	401.191
2013	355.494
2014	391.562
2015	340.000

Sumber: Pusdatin (2016) dan USDA.

Lampiran 8. Proyeksi Permintaan Jagung Konsumsi Rumah Tangga di Indonesia Tahun 2016-2020

Tahun	*Trend* Konsumsi Rumah Tangga (ton)
2016	373.861,079
2017	353.128,104
2018	332.395,128
2019	311.662,153
2020	290.929,178

Sumber: Analisis data sekunder (2018).

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Lampiran 7. Hasil Analisis *Residual* Permintaan Jagung Konsumsi Rumah Tangga di Indonesia Tahun 1993-2015

RESIDUAL OUTPUT

Observation	*Predicted* Konsumsi Rumah Tangga (ton)	*Residuals*
1	850.719,511	253.927,489
2	829.986,536	63.566,464
3	809.253,560	-88.645,560
4	788.520,585	-204.462,585
5	767.787,610	-151.559,610
6	747.054,634	-97.012,634
7	726.321,659	-43.782,659
8	705.588,684	-29.753,684
9	684.855,708	-1.959,708
10	664.122,733	25.828,267
11	643.389,758	-68.177,758
12	622.656,783	31.525,217
13	601.923,807	13.822,193
14	581.190,832	63.690,168
15	560.457,857	351.081,143
16	539.724,881	279.824,119
17	518.991,906	58.282,094
18	498.258,931	-86.637,931
19	477.525,956	-155.027,956
20	456.792,980	-55.601,980
21	436.060,005	-80.566,005
22	415.327,030	-23.765,030
23	394.594,054	-54.594,054

Sumber: Analisis data sekunder (2018).

Lampiran 9. Data *Trend* Permintaan Jagung Industri Pakan di Indonesia Tahun 1993-2015

Tahun	Permintaan Industri Pakan (ton)
1993	1.104.647
1994	893.553
1995	720.608
1996	584.058
1997	616.228
1998	650.042
1999	682.539
2000	675.835
2001	682.896
2002	689.951
2003	575.212
2004	654.182
2005	615.746
2006	644.881
2007	911.539
2008	819.549
2009	577.274
2010	411.621
2011	322.498
2012	401.191
2013	355.494
2014	391.562
2015	340.000

Sumber: Pusdatin (2016) dan USDA.

Lampiran 15. Data Transformasi logaritma natural Faktor-Faktor yang Berpengaruh terhadap Permintaan Jagung di Indonesia Tahun 1993-2015

Tahun	ln Y	ln X_1	ln X_2	ln X_3	ln X_4	ln X_5	ln X_6
1993	15,03	7,31	8,53	19,05	15,64	10,86	13,11
1994	15,01	7,38	8,51	19,06	15,70	10,44	13,92
1995	15,59	7,48	8,43	19,07	15,77	11,22	13,78
1996	15,67	7,47	8,40	19,09	15,83	10,20	13,33
1997	15,63	7,41	8,37	19,10	15,86	9,85	13,91
1998	15,47	7,32	8,46	19,12	15,70	13,36	12,66
1999	15,39	7,35	8,43	19,13	15,70	11,48	13,33
2000	15,59	7,50	8,37	19,14	15,73	10,24	14,05
2001	14,46	7,59	8,36	19,16	15,75	11,41	13,85
2002	14,84	7,60	8,36	19,17	15,77	9,70	13,96
2003	14,90	7,55	8,33	19,19	15,81	10,42	14,11
2004	14,93	7,50	8,36	19,20	15,84	10,39	13,90
2005	15,13	7,49	8,30	19,22	15,88	10,90	12,13
2006	15,26	7,51	8,23	19,23	15,92	10,24	14,39
2007	15,38	7,56	8,17	19,24	15,97	11,53	13,46
2008	15,40	7,58	8,36	19,26	16,01	11,58	12,49
2009	15,36	7,57	8,36	19,27	16,05	11,23	12,73
2010	15,50	7,56	8,32	19,29	16,09	10,64	14,24
2011	15,60	7,61	8,30	19,30	16,14	9,43	14,98
2012	15,74	7,65	8,33	19,31	16,18	10,59	14,41
2013	15,80	7,64	8,29	19,33	16,22	9,34	14,98
2014	15,88	7,71	8,20	19,34	16,26	10,54	14,97
2015	15,96	7,62	8,30	19,36	16,29	12,43	15,07

Sumber: Analisis data sekunder (2018).

Lampiran 10. Hasil Analisis *Trend* Permintaan Jagung Industri Pakan di Indonesia Tahun 1993-2015

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,531
R Square	0,281
Adjusted R Square	0,247
Standard Error	1.611.333,657
Observations	23

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	21.359.733.307.257,400	21.359.733.307.257,400	8,227	0,009
Residual	21	54.524.319.240.774,500	2.596.396.154.322,600		
Total	22	75.884.052.548.031,900			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 90,0%*	*Upper 90,0%*
Intercept	4.415.270,783	335.986,293	13,141	0,000	3.716.549,035	5.113.992,530	3.837.124,753	4.993.416,812
Waktu	145.280,611	50.651,840	2,868	0,009	39.944,344	250.616,877	58.121,817	232.439,404

Sumber: Analisis data sekunder (2018).

Y = 4.415.271* + 145.280,6 X*** **

Lampiran 11. Hasil Analisis *Residual* Permintaan Jagung Industri Pakan di Indonesia Tahun 1993-2015

RESIDUAL OUTPUT

Observation	*Predicted* Industri Pakan (ton)	*Residuals*
1	2.817.184,065	-559.172,065
2	2.962.464,676	-561.433,676
3	3.107.745,287	2.061.824,713
4	3.253.025,897	2.582.039,103
5	3.398.306,508	2.100.367,492
6	3.543.587,119	1.027.884,881
7	3.688.867,729	448.606,271
8	3.834.148,340	1.381.211,660
9	3.979.428,951	-2.754.428,951
10	4.124.709,561	-2.029.709,561
11	4.269.990,172	-1.901.420,172
12	4.415.270,783	-2.030.270,783
13	4.560.551,393	-1.445.551,393
14	4.705.832,004	-1.105.832,004
15	4.851.112,615	-1.001.112,615
16	4.996.393,225	-946.393,225
17	5.141.673,836	-1.041.673,836
18	5.286.954,447	-301.954,447
19	5.432.235,057	217.764,943
20	5.577.515,668	899.484,332
21	5.722.796,279	1.177.203,721
22	5.868.076,889	1.595.923,111
23	6.013.357,500	2.186.642,500

Sumber: Analisis data sekunder (2018).

Lampiran 12. Proyeksi Permintaan Jagung Industri Pakan di Indonesia Tahun 2016-2020

Tahun	*Trend* Permintaan Industri Pakan (ton)
2016	6.158.638,111
2017	6.303.918,721
2018	6.449.199,332
2019	6.594.479,943
2020	6.739.760,553

Sumber: Analisis data sekunder (2018).

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Lampiran 13. Perkembangan dan *Trend* Permintaan Jagung di Indonesia Tahun 1993-2020

Lampiran 14. Data Faktor-Faktor yang Berpengaruh terhadap Permintaan Jagung di Indonesia Tahun 1993-2015

Tahun	Y (*)	X_1 (*)	X_2 (*)	X_3 (**)	X_4 (***)	X_5 (*)	X_6 (*)
1993	3.362.659	1.497	5.087	187.054.187	6.215.565	52.088	494.446
1994	3.294.584	1.601	4.962	189.684.898	6.591.514	34.091	1.109.253
1995	5.890.178	1.770	4.585	192.352.608	7.034.415	74.880	969.145
1996	6.419.123	1.746	4.439	195.057.835	7.479.178	26.830	616.942
1997	6.114.902	1.653	4.318	197.801.109	7.722.090	18.957	1.098.354
1998	5.221.514	1.505	4.705	200.582.964	6.615.392	632.515	313.463
1999	4.820.013	1.550	4.570	203.403.942	6.575.257	96.647	618.060
2000	5.891.195	1.813	4.301	206.264.595	6.803.084	28.066	1.264.575
2001	1.907.896	1.969	4.281	209.206.135	6.938.922	90.474	1.035.797
2002	2.784.951	2.002	4.283	212.189.624	7.093.732	16.306	1.154.063
2003	2.943.782	1.910	4.139	215.215.661	7.328.330	33.691	1.345.452
2004	3.039.182	1.813	4.258	218.284.853	7.588.785	32.679	1.088.928
2005	3.730.746(^)	1.799	4.012	221.397.814	7.908.006	54.009	185.597
2006	4.244.881(^)	1.820	3.761	224.555.169	8.225.714	28.074	1.775.321
2007	4.761.539(^)	1.916	3.530	227.757.551	8.624.642	101.459	701.953
2008	4.869.549(^)	1.955	4.262	231.005.602	9.014.743	107.001	264.665
2009	4.677.274(^)	1.947	4.292	234.299.973	9.299.408	75.283	338.798
2010	5.396.621(^)	1.928	4.086	237.641.326	9.739.294	41.954	1.527.516
2011	5.972.498(^)	2.019	4.042	241.030.330	10.194.800	12.472	3.207.657
2012	6.878.191(^)	2.104	4.127	244.467.664	10.657.564	39.817	1.805.392
2013	7.255.494(^)	2.073	3.996	247.954.018	11.091.655	11.418	3.194.419
2014	7.855.562(^)	2.236	3.654	251.490.091	11.483.215	37.889	3.175.362
2015	8.540.000(^)	2.032	4.012	255.076.592	11.873.833	250.831	3.500.104

Sumber: (*) Pusdatin (2016) dan USDA
(**) BPS (2012)
(***) Bank Indonesia
(^) USDA

di mana:
Y = permintaan jagung (ton)
X_1 = harga jagung (Rp/kg)
X_2 = harga kedelai (Rp/kg)
X_3 = jumlah penduduk (jiwa)
X_4 = pendapatan per kapita (Rp)
X_5 = ekspor jagung (ton)
X_6 = impor jagung (ton)

Lampiran 16. Hasil Regresi Fungsi Permintaan Jagung di Indonesia

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,830
R Square	0,689
Adjusted R Square	0,573
Standard Error	0,246
Observations	23

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	6	2,143	0,357	5,913	0,002
Residual	16	0,966	0,060		
Total	22	3,109			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 90,0%*	*Upper 90,0%*
Intercept	58,292	30,874	1,888	0,077	-7,159	123,743	4,389	112,195
Harga Jagung	-1,731	1,012	-1,710	0,107	-3,876	0,414	-3,498	0,036
Harga Kedelai	-0,772	0,995	-0,776	0,449	-2,881	1,337	-2,509	0,965
Jumlah Penduduk	-4,212	1,970	-2,138	0,048	-8,388	-0,035	-7,652	-0,772
Pendapatan per kapita	3,541	0,793	4,467	0,000	1,861	5,211	2,157	4,925
Ekspor	0,043	0,068	0,636	0,534	-0,101	0,188	-0,076	0,163
Impor	0,042	0,086	0,486	0,634	-0,140	0,233	-0,108	0,191

Sumber: Analisis data sekunder (2018).

Lampiran 17. Hasil Regresi Fungsi Permintaan Jagung Konsumsi Rumah Tangga di Indonesia

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,867
R Square	0,752
Adjusted R Square	0,659
Standard Error	0,193
Observations	23

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	6	1,800	0,300	8,095	0,000
Residual	16	0,593	0,037		
Total	22	2,393			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 90,0%*	*Upper 90,0%*
Intercept	59,715	24,185	2,469	0,025	8,444	110,985	17,490	101,940
Harga Jagung	0,339	0,793	0,427	0,675	-1,342	2,019	-1,045	1,723
Harga Kedelai	-0,836	0,779	-1,073	0,299	-2,488	0,816	-2,197	0,524
Jumlah Penduduk	-1,464	1,543	-0,949	0,357	-4,736	1,808	-4,159	1,231
Pendapatan per Kapita	-0,770	0,621	-1,240	0,233	-2,086	0,547	-1,854	0,314
Ekspor	0,021	0,054	0,400	0,694	-0,092	0,135	-0,072	0,115
Impor	-0,134	0,067	-2,000	0,063	-0,277	0,008	-0,252	-0,017

Sumber: Analisis data sekunder (2018).

Lampiran 18. Hasil Regresi Fungsi Permintaan Jagung Industri Pakan di Indonesia

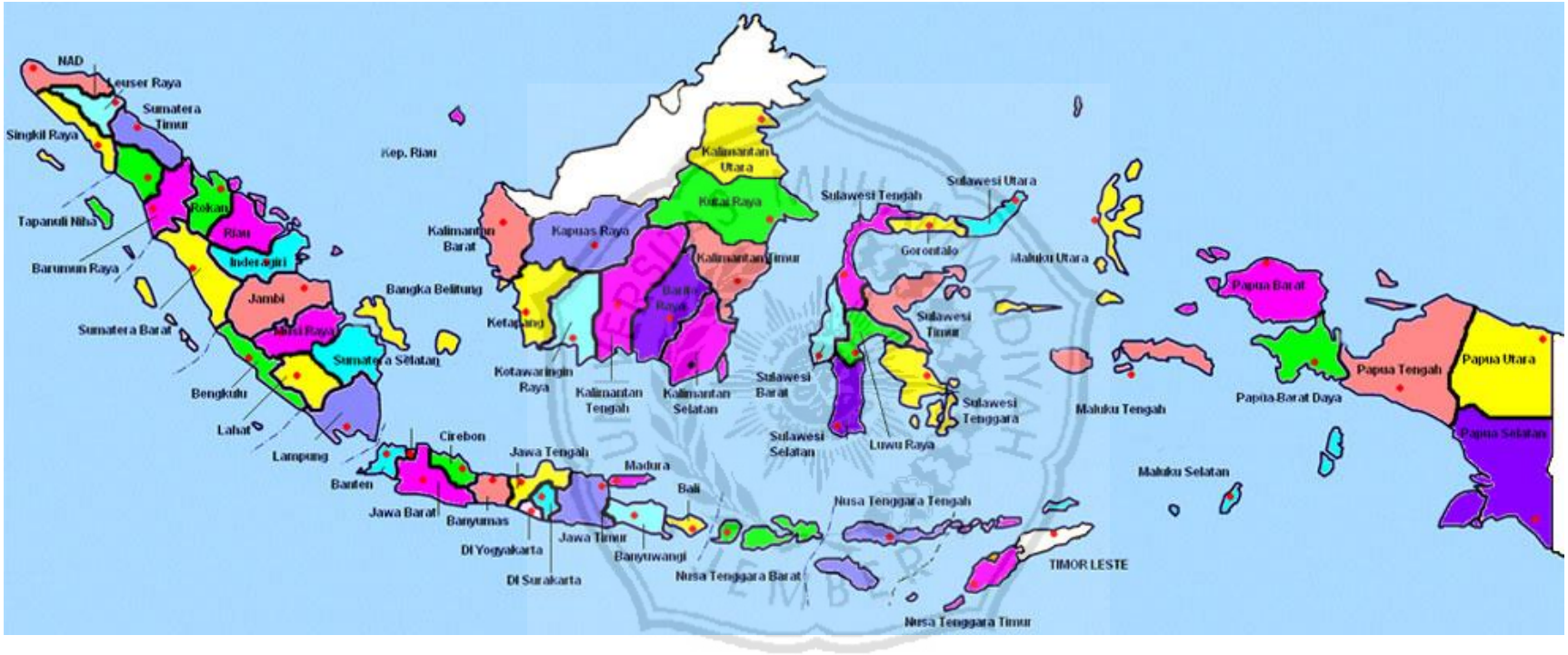
SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,820
R Square	0,672
Adjusted R Square	0,549
Standard Error	0,321
Observations	23

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	6	3,377	0,563	5,468	0,003
Residual	16	1,647	0,103		
Total	22	5,025			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 90,0%*	*Upper 90,0%*
Intercept	61,638	40,312	1,529	0,146	-23,818	147,095	-8,741	132,017
Harga Jagung	-2,265	1,321	-1,714	0,106	-5,066	0,536	-4,572	0,042
Harga Kedelai	-1,034	1,299	-0,796	0,438	-3,788	1,720	-3,302	1,234
Jumlah Penduduk	-4,669	2,573	-1,815	0,088	-10,122	0,785	-9,160	-0,177
Pendapatan per kapita	4,263	1,035	4,119	0,001	2,069	6,457	2,456	6,070
Ekpor	0,037	0,089	0,417	0,682	-0,152	0,226	-0,119	0,193
Impor	0,045	0,112	0,399	0,695	-0,193	0,282	-0,151	0,240

Sumber: Analisis data sekunder (2018).

Lampiran 19. Peta Lokasi Penelitian