

Lampiran 1. Data Penggunaan Benih, Urea, SP36, dan Tenaga Kerja

No.	Nama	Benih (Kg)	Urea (Kg)	SP36 (Kg)	TK (HOK)	Produksi (Kg)
1	Abu Bakar	13	100	47.5	170	4700
2	Jamaludin	15	106	46	203	4300
3	M. Sholeh	5	69	27	116	2600
4	Suwarno	90	561	261	894	26700
5	Sulkan	20	94.5	58	245	5700
6	Sutar	35	166	109	360	10600
7	Wagiman	25	217	93	285	9300
8	Sarimunah	28	226	110	306	11500
9	H. Zainik	20	142	71	273	7200
10	Sukino	37	415	140	340	13600
11	Ngatemo	15	111	50	123	4400
12	H. Karim	18	168	73	211	7700
13	Kamid	17	174	57	158	6000
14	Munandar	16	170	66	163	6000
15	H. Hariono	18	186	85	173	7400
16	M. Q. Malik	15	169	76	159	6700
17	Ismail	8	79	32	83	3200
18	Buari	14	102	50	125	4100
19	Mail	18	203	69	118	7300
20	Totok	20	232	72	132	7300

Lampiran 2. Hasil Regresi Linier Berganda dan Uji Asumsi Klasik Metode SRI

One-Sample Kolmogorov-Smirnov Test

		LnX1	LnX2	LnX3	LnX4	Lnprod
N		20	20	20	20	20
Normal	Mean	3.3171	5.4691	4.6364	5.6743	9.2081
Parameters ^{a,b}	Std. Deviation	.14492	.31823	.20315	.27004	.16268
Most Extreme	Absolute	.108	.184	.211	.148	.122
Differences	Positive	.108	.116	.211	.148	.093
	Negative	-.071	-.184	-.178	-.118	-.122
Kolmogorov-Smirnov Z		.483	.825	.944	.663	.544
Asymptotic Significance (2-tailed)		.974	.505	.335	.771	.929

a. Test Distribution is Normal

b. Calculated from data

Coefficients^a

		Unstandardized Coefficients		Standardized Coefficients	t	Significance
Model		B	Std. Error	Beta		
1	(Constant)	.005	.185		.025	.980
	LnX1	.066	.053	.373	1.252	.230
	LnX2	.014	.038	.172	.364	.721
	LnX3	-.052	.068	-.414	-.766	.455
	LnX4	-.005	.028	-.054	-.185	.856

a. Dependent Variable: RES2

Coefficients^a

		Unstandardized Coefficients		Standardized Coefficients	t	Significance
Model		B	Std. Error	Beta		
1	(Constant)	.005	.185		.025	.980

Lampiran 2. Lanjutan

Model	Unstandardized Coefficients		Standardized Coefficients	t	Significance
LnX1	.066	.053	.373	1.252	.230
LnX2	.014	.038	.172	.364	.721
LnX3	-.052	.068	-.414	-.766	.455
LnX4	-.005	.028	-.054	-.185	.856

a. Dependent Variable: RES2

Variables Entered/Removed

Model	Variables Entered	Variables Removed	Method
1	LnX4, LnX2, LnX1, LnX3 ^a		Enter

a. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.972 ^a	.944	.929	.04325	2.798

a. Predictors: (constant) LnX4, LnX2, LnX1, LnX3...

b. Dependent Variable: Lnprod

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Significance
1	Regression	.475	4	.119	63.473	.000 ^a
	Residual	.028	15	.002		
	Total	.503	19			

Lampiran 2. Lanjutan

a. Predictors: (constant) LnX4, LnX2, LnX1, LnX3...

b. Dependent Variable: Lnprod

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Significance	Collinearity Statistics	
	B	Std. Error	Beta			Tolerance	VIF
1 (Constant)	5.956	.294		20.249	.000		
LnX1	-.166	.084	-.148	-1.985	.066	.669	1.495
LnX2	.186	.060	.363	3.078	.008	.267	3.747
LnX3	.573	.108	.716	5.289	.000	.203	4.923
LnX4	.023	.044	.038	.524	.608	.704	1.421

a. Dependent Variable: Lnprod

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions				
				(Constant)	LnX1	LnX2	LnX3	LnX4
1	1	4.995	1.000	.00	.00	.00	.00	.00
	2	.003	42.071	.02	.00	.14	.01	.23
	3	.001	64.384	.03	.60	.06	.01	.31
	4	.001	77.496	.91	.25	.00	.02	.13
	5	.000	139.558	.03	.15	.79	.96	.33

a. Dependent Variable: Lnprod

Lampiran 2. Lanjutan

Casewise Diagnostics^a

Case Number	Standardized Residual	Lnprod	Unstandardized Predicted Value	Unstandardized Residual
1	.139	9.15	9.1424	.00602
2	-1.307	9.06	9.1160	-.05653
3	-.016	9.47	9.4734	-.00070
4	.950	9.09	9.0527	.04107
5	.644	9.00	8.9770	.02787
6	-.670	8.86	8.8921	-.02896
7	-.234	9.14	9.1479	-.01010
8	.279	9.09	9.0756	.01207
9	.370	9.10	9.0890	.01602
10	-1.790	9.11	9.1898	-.07740
11	.173	9.31	9.2982	.00750
12	.626	9.17	9.1450	.02708
13	.439	9.21	9.1913	.01900
14	-.045	9.39	9.3946	-.00195
15	-.059	9.42	9.4226	-.00256
16	-.482	9.41	9.4285	-.02084
17	1.967	9.46	9.3721	.08506
18	-1.580	9.24	9.3034	-.06834
19	.862	9.25	9.2150	.03726
20	-.267	9.22	9.2357	-.01157

a. Dependent Variable: Lnprod

Lampiran 2. Lanjutan

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Unstandardized Predicted Value	8.8921	9.4734	9.2081	.15808	20
Standardized Predicted Value	-1.999	1.678	.000	1.000	20
Standard Error of Predicted Value	.012	.035	.021	.005	20
Adjusted Predicted Value	8.9135	9.4748	9.2099	.15797	20
Unstandardized Residual	-.07740	.08506	.00000	.03842	20
Standardized Residual	-1.790	1.967	.000	.889	20
Studentized Residual	-1.997	2.109	-.018	1.008	20
Deleted Residual	-.09638	.09775	-.00181	.04966	20
Studentized Deleted Residual	-2.252	2.429	-.029	1.093	20
Mahalanobis Distance	.567	11.590	3.800	2.484	20
Cook's Distance	.000	.226	.058	.077	20
Centered Leverage Value	.030	.610	.200	.131	20

a. Dependent Variable: Lnprod

Lampiran 3. Data Penggunaan Benih, Urea, SP36, dan TK Metode Non SRI

No.	Nama	BENIH	UREA	SP36	TK	PROD
1	Kusno	45	575	195	221	12000
2	Cokro	32	400	160	163	9500
3	Abd.Karim	30	395	158	162	9000
4	Buari	16	235	85	125	4000
5	Mursidi	15.5	157	55	107	3000
6	Mujiono	17.5	245	87	105	4500
7	Napi	18	235	90	124	4700
8	Mustakim	25	325	110	177	7500
9	Ismail	19	250	93	126	5000
10	Karimun	18.5	243	95	115	4800
11	Sholeh	20	265	100	120	5300
12	Tamaji	19.5	245	100	129	5000
13	Muhid	22	280	105	133	7000
14	Slamet	26.5	290	100	165	8000
15	Topo	27	350	125	186	8100
16	Idarto	37	475	155	202	10000
17	Safi'i	12	105	35	83	2000
18	Ali	21.5	300	100	204	6700
19	Mustari	25	335	130	198	7500
20	A. Baiti	32.5	450	150	204	9600
21	Usman	21	275	100	154	6300
22	Fanani	27.5	365	130	179	8500
23	Rasuki	19	250	105	126	5000
24	Kamsiya	10	110	50	84	2000
25	Rakim	5	85	20	73	1300
26	Uripa	7	100	30	73	1800
27	Khapsa	19.5	255	100	126	5100
28	Sulaiman	21	260	95	122	5500
29	Sukaina	13	195	40	81	3700
30	Suro	47	550	185	214	12000
31	Nasihin	18	235	100	119	4800
32	Rahmat	21	250	90	127	5300
33	Kodir	25	345	100	194	7600
34	M. Soleh	20	245	95	123	5000
35	Bari	26	300	130	174	8000

Lampiran 4. Hasil Regresi Linier Berganda dan Uji Asumsi Klasik Metode Non SRI

One-Sample Kolmogorov-Smirnov Test

		Ln _{x1}	Ln _{x2}	Ln _{x3}	Ln _{x4}	Ln _{prod}
N		35	35	35	35	35
Normal Parameters ^{a, b}	Mean	3.2806	5.8313	4.7982	5.1851	8.8722
	Std. Deviation	.14398	.15744	.12829	.27301	.12703
Most Extreme Differences	Absolute	.090	.212	.099	.226	.123
	Positive	.090	.212	.091	.226	.123
	Negative	-.061	-.138	-.099	-.083	-.098
Kolmogorov-Smirnov Z		.531	1.253	.585	1.335	.729
Asymptotic Significance (2-tailed)		.940	.087	.883	.057	.663

a. Test Distribution is Normal

b. Calculated from data

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Significance
		B	Std. Error	Beta		
1	(Constant)	.848	.452		1.876	.070
	Ln _{x1}	.141	.104	.340	1.359	.184
	Ln _{x2}	-.187	.103	-.493	-1.823	.078
	Ln _{x3}	-.095	.087	-.205	-1.100	.280
	Ln _{x4}	.058	.052	.266	1.118	.272

a. Dependent Variable: res2

Variables Entered/Removed

Model	Variables Entered	Variables Removed	Method
1	Ln _{x4} , Ln _{x3} , Ln _{x1} , Ln _{x2} ^a		Enter

a. All requested variables entered.

Lampiran 4. Lanjutan

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.717 ^a	.514	.449	.09427	1.150

a. Predictors: (constant) ln_{x4}, ln_{x3}, ln_{x1}, ln_{x2}...

b. Dependent Variable: Inprod

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Significance
1	Regression	.282	4	.071	7.936	.000 ^a
	Residual	.267	30	.009		
	Total	.549	34			

a. Predictors: (constant) ln_{x4}, ln_{x3}, ln_{x1}, ln_{x2}...

b. Dependent Variable: Inprod

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Significance	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	5.929	.735		8.066	.000		
	ln _{x1}	.126	.169	.143	.748	.460	.444	2.254
	ln _{x2}	.693	.167	.858	4.155	.000	.379	2.635
	ln _{x3}	-.142	.141	-.144	-1.010	.320	.802	1.246
	ln _{x4}	-.160	.084	-.343	-1.891	.068	.492	2.033

a. Dependent Variable: Inprod

Lampiran 4. Lanjutan

Model Dimension		Eigenvalue	Condition Index	Variance Proportions				
				(Constant)	lnx1	lnx2	lnx3	lnx4
1	1	4.997	1.000	.00	.00	.00	.00	.00
	2	.002	53.714	.06	.03	.00	.06	.41
	3	.001	80.890	.04	.75	.00	.00	.41
	4	.000	117.949	.38	.00	.07	.93	.04
	5	.000	157.116	.52	.22	.93	.00	.15

a. Dependent Variable: Inprod



Lampiran 5. Hasil Analisis Efisiensi Teknis Metode SRI Menggunakan *Software* DEAP

Results from DEAP Version 2.1

Instruction file = Eg1-ins.txt

Data file = eg1-dta.txt

Output orientated DEA

Scale assumption: VRS

Slacks calculated using multi-stage method

EFFICIENCY SUMMARY:

firm crste vrste scale

1	0.947	0.976	0.971	drs
2	0.884	0.886	0.998	drs
3	1.000	1.000	1.000	-
4	0.977	0.977	0.999	irs
5	0.998	1.000	0.998	drs
6	1.000	1.000	1.000	-
7	0.945	0.950	0.995	drs
8	1.000	1.000	1.000	-
9	0.979	0.995	0.984	drs
10	0.916	0.921	0.995	irs
11	0.858	0.935	0.917	drs
12	1.000	1.000	1.000	-
13	0.989	0.992	0.998	irs
14	0.880	0.942	0.934	drs
15	0.967	1.000	0.967	drs
16	1.000	1.000	1.000	-

Lampiran 5. Lanjutan

17	0.945	1.000	0.945	drs
18	0.829	0.916	0.905	drs
19	1.000	1.000	1.000	-
20	0.953	0.959	0.994	drs
mean	0.953	0.972	0.980	

Note: crste = technical efficiency from CRS DEA

vrste = technical efficiency from VRS DEA

scale = scale efficiency = crste/vrste

Note also that all subsequent tables refer to VRS results

Lampiran 6. Hasil Analisis Efisiensi Teknis Metode Non SRI Menggunakan DEA

Results from DEAP Version 2.1

Instruction file = eg9-ins.txt

Data file = eg9-dta.txt

Output orientated DEA

Scale assumption: VRS

Two-stage DEA method

EFFICIENCY SUMMARY:

firm crste vrste scale

1	0.974	1.000	0.974	drs
2	1.000	1.000	1.000	-
3	1.000	1.000	1.000	-
4	0.812	0.826	0.982	irs
5	1.000	1.000	1.000	-
6	0.851	0.861	0.988	irs
7	0.865	0.876	0.987	irs
8	1.000	1.000	1.000	-
9	0.885	0.885	0.999	irs
10	0.869	0.880	0.987	irs
11	0.914	0.927	0.985	drs

Lampiran 6. Lanjutan

12	0.883	0.885	0.999	irs
13	1.000	1.000	1.000	-
14	1.000	1.000	1.000	-
15	0.971	0.977	0.994	drs
16	0.937	0.991	0.945	drs
17	1.000	1.000	1.000	-
18	0.986	0.986	0.999	irs
19	0.955	0.959	0.995	drs
20	0.947	1.000	0.947	drs
21	0.968	0.969	0.999	irs
22	1.000	1.000	1.000	-
23	0.885	0.885	0.999	irs
24	1.000	1.000	1.000	-
25	0.914	1.000	0.914	irs

Lampiran 6. Lanjutan

26	0.973	1.000	0.973	irs
27	0.886	0.891	0.995	drs
28	0.953	0.962	0.991	drs
29	1.000	1.000	1.000	-
30	1.000	1.000	1.000	-
31	0.847	0.854	0.992	irs
32	0.928	0.928	1.000	-
33	0.995	0.995	1.000	-
34	0.821	0.836	0.981	irs
35	1.000	1.000	1.000	-

mean 0.943 0.954 0.989

Note: crste = technical efficiency from CRS DEA

vrste = technical efficiency from VRS DEA

scale = scale efficiency = crste/vrste

Note also that all subsequent tables refer to VRS results

technical efficiency estimates :

firm	eff.-est.
1	0.85467567E+00
2	0.81492496E+00
3	0.81167809E+00
4	0.70113422E+00
5	0.93698226E+00
6	0.96030340E+00
7	0.90186377E+00
8	0.95832152E+00
9	0.94764910E+00
10	0.81724919E+00
11	0.73102828E+00
12	0.94933435E+00
13	0.78851318E+00
14	0.71257051E+00
15	0.69329142E+00
16	0.77013823E+00
17	0.77364802E+00
18	0.74437754E+00

Lampiran 6. Lanjutan

19	0.88245099E+00
20	0.87557065E+00
21	0.80752729E+00
22	0.91051300E+00
23	0.90700852E+00
24	0.85607532E+00
25	0.84743477E+00
26	0.89816186E+00
27	0.89898955E+00
28	0.91042399E+00
29	0.89784018E+00
30	0.90139492E+00
31	0.90199596E+00
32	0.89135532E+00
33	0.94752390E+00
34	0.94017344E+00
35	0.90284266E+00
36	0.83681917E+00
37	0.85602637E+00
38	0.90238610E+00
39	0.88982082E+00
40	0.86595505E+00
41	0.92355712E+00
42	0.91213762E+00
43	0.89468614E+00
44	0.88215324E+00
45	0.93793794E+00
46	0.94540433E+00
47	0.89443478E+00
48	0.90848947E+00
49	0.94946964E+00
50	0.81197843E+00
51	0.90824137E+00
52	0.89886226E+00
53	0.89877845E+00
54	0.89195032E+00
55	0.93203505E+00

mean efficiency = 0.87247436E+00

Lampiran 7. Hasil Analisis Efisiensi Teknis Metode SRI dan Non SRI
Menggunakan Metode *Stochastic Frontier*

technical efficiency estimates :

firm	eff.-est.
1	0.85467567E+00
2	0.81492496E+00
3	0.81167809E+00
4	0.70113422E+00
5	0.93698226E+00
6	0.96030340E+00
7	0.90186377E+00
8	0.95832152E+00
9	0.94764910E+00
10	0.81724919E+00
11	0.73102828E+00
12	0.94933435E+00
13	0.78851318E+00
14	0.71257051E+00
15	0.69329142E+00
16	0.77013823E+00
17	0.77364802E+00
18	0.74437754E+00
19	0.88245099E+00
20	0.87557065E+00
21	0.80752729E+00
22	0.91051300E+00
23	0.90700852E+00
24	0.85607532E+00
25	0.84743477E+00
26	0.89816186E+00
27	0.89898955E+00
28	0.91042399E+00
29	0.89784018E+00
30	0.90139492E+00
31	0.90199596E+00
32	0.89135532E+00
33	0.94752390E+00
34	0.94017344E+00
35	0.90284266E+00
36	0.83681917E+00
37	0.85602637E+00
38	0.90238610E+00

Lampiran 7. Lanjutan

39	0.88982082E+00
40	0.86595505E+00
41	0.92355712E+00
42	0.91213762E+00
43	0.89468614E+00
44	0.88215324E+00
45	0.93793794E+00
46	0.94540433E+00
47	0.89443478E+00
48	0.90848947E+00
49	0.94946964E+00
50	0.81197843E+00
51	0.90824137E+00
52	0.89886226E+00
53	0.89877845E+00
54	0.89195032E+00
55	0.93203505E+00

mean efficiency = 0.87247436E+00

