

LAMPIRAN

Lampiran 1. Identitas Petani di Gapoktan Karyatani

Kelompok Subur Makmur		Kelompok Trubus		Kelompok Muncul Makmur	
No	Nama	No	Nama	No	Nama
1	Iskandar	1	Sujiyo	1	Misri
2	Sardik	2	Tuwari	2	Sugianto
3	Anawi	3	Rohim	3	Sadali
4	Sudir	4	Sartono	4	Ashari
5	Sukijan	5	Basuki	5	Poniran
6	Buiman	6	Nurdin	6	Demin
7	Trimo	7	Parjuki	7	Ponijan
8	Sangkot	8	Muklas	8	Marni
9	Maryoto	9	Harun	9	Paijan
10	Safarudin	10	Paiman	10	Jarno
11	Kusnadi	11	Mustamsir	11	H. Suwito
12	Suparman	12	Sumadi	12	Sodik
13	Katimah	13	Suroso	13	Sarni
14	Soekiman	14	Kasmadi	14	Nawijan
15	Yono	15	Imam N	15	Sunarto
16	Mardi	16	Suyat	16	Marwoto
17	Arli	17	Kasmuri	17	Kosnadi
18	Laksono	18	M Sidik	18	Ngatno
19	Sukarno	19	Gunawan	19	Basuki
20	Buamin	20	Jasim	20	Misdi
21	Afrizal	21	Kamiran	21	Edi Purwanto
22	Miswanto	22	Senen	22	Boimin
23	Slamet	23	Imam B	23	Misni
24	Suyet	24	Sunardi	24	Wanto
25	Poimijan	25	Sareh	25	Haryono

Kelompok Rukun Tani		Kelompok Sumber Pangan		Kelompok Bina Mitra	
No	Nama	No	Nama	No	Nama
1	Kuat	1	Suhelmi	1	Tukidi
2	Musning	2	Suyatno	2	Samani
3	Supardi	3	Sunawi	3	Edi Sriyanto
4	Sukri	4	Samino	4	Tukiyar
5	Basori	5	Samadi	5	Basirun
6	Mulyono	6	Marodi	6	Jamsari
7	Anton	7	Purwanto	7	Rusdi
8	Sutrisno	8	A Ghozali	8	Sarbini
9	Purwanto	9	Adi Suyitno	9	Tubagus Rusli
10	Sahadi	10	Wahyudi	10	Salamah
11	Supangat	11	Untung	11	Subahagia
12	Minto	12	Yasir	12	Muhidin
13	Jasman	13	Suparlan	13	M Rusli
14	Ngadiran	14	Imam	14	M Sai

15	Boniran	15	Atip	15	Sofyan
16	Sumadi	16	Mahmud	16	Rojali
17	Jumiran	17	Kemis	17	M saleh
18	Suhar	18	Bandi	18	Tugiman
19	Sahat	19	Kastu	19	Epang
20	Mishan	20	Ustman	20	Taryono
21	Kusno	21	Bandi	21	Jumangin
22	Warijan	22	Suyono	22	Asnawi
23	Patio	23	Edi	23	Asroi
24	Mantiyus	24	Kasidi	24	Ashari
25	Saminoto	25	Pairin	25	Hasimudin

Lampiran 2. Analisis Frontier

Output from the program FRONTIER (Version 4.1c)

instruction file = terminal
data file = waw.dta

Tech. Eff. Effects Frontier (see B&C 1993)
The model is a production function
The dependent variable is logged

the ols estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.60722274E+01	0.80120312E+00	0.75788864E+01
beta 1	0.61580174E+00	0.15673685E+00	0.39288893E+01
beta 2	0.12062706E+00	0.12126395E+00	0.99474787E+00
beta 3	-0.84399707E-01	0.10557923E+00	-0.79939692E+00
beta 4	0.91730010E-01	0.59451190E-01	0.15429466E+01
beta 5	0.64760022E-01	0.42437728E-01	0.15260012E+01
beta 6	-0.21384689E-01	0.50619000E-01	-0.42246367E+00
beta 7	-0.98351041E-01	0.35202369E-01	-0.27938756E+01
beta 8	0.42010484E+00	0.14744043E+00	0.28493191E+01
beta 9	0.42788153E-01	0.83984566E-01	0.50947639E+00
sigma-squared	0.68200777E-01		

log likelihood function = 0.89231569E+00

the estimates after the grid search were :

beta 0	0.61154543E+01
beta 1	0.61580174E+00
beta 2	0.12062706E+00
beta 3	-0.84399707E-01

beta 4 0.91730010E-01
 beta 5 0.64760022E-01
 beta 6 -0.21384689E-01
 beta 7 -0.98351041E-01
 beta 8 0.42010484E+00
 beta 9 0.42788153E-01
 delta 0 0.00000000E+00
 delta 1 0.00000000E+00
 delta 2 0.00000000E+00
 delta 3 0.00000000E+00
 delta 4 0.00000000E+00
 delta 5 0.00000000E+00
 sigma-squared 0.58702541E-01
 gamma 0.50000000E-01

iteration = 0 func evals = 20 llf = 0.88907536E+00
 0.61154543E+01 0.61580174E+00 0.12062706E+00-0.84399707E-01
 0.91730010E-01
 0.64760022E-01-0.21384689E-01-0.98351041E-01 0.42010484E+00
 0.42788153E-01
 0.00000000E+00 0.00000000E+00 0.00000000E+00 0.00000000E+00
 0.00000000E+00
 0.00000000E+00 0.58702541E-01 0.50000000E-01

gradient step
 iteration = 5 func evals = 43 llf = 0.12739373E+01
 0.61152153E+01 0.61624450E+00 0.12138598E+00-0.82413555E-01
 0.90580151E-01
 0.64217634E-01-0.18702198E-01-0.99565799E-01 0.41956235E+00
 0.41399647E-01
 -0.97108671E-02-0.12159224E-01 0.36427965E-01 0.15862701E-01
 0.36125351E-01
 -0.28505522E-01 0.59617633E-01 0.50866100E-01

iteration = 10 func evals = 64 llf = 0.15332227E+01
 0.60967359E+01 0.60714573E+00 0.12872679E+00-0.41928967E-01
 0.12243783E+00
 0.37856391E-01-0.26704046E-01-0.10198604E+00 0.37339159E+00
 0.22177511E-01
 -0.45998395E-01-0.16781826E-01 0.51611412E-01 0.29644042E-01
 0.56365714E-01
 -0.25164590E-01 0.60478089E-01 0.19412261E+00

iteration = 15 func evals = 83 llf = 0.25088638E+01
 0.59484785E+01 0.55597572E+00 0.14869184E+00-0.29408666E-02
 0.10835432E+00
 0.26835477E-01-0.26176312E-01-0.96690894E-01 0.36948456E+00
 0.15363243E-01
 -0.37166585E+00 0.10019535E-02 0.10032354E+00 0.51576837E-01
 0.15996189E+00
 -0.37519619E-01 0.57810507E-01 0.32901403E+00

iteration = 20 func evals = 154 llf = 0.53123273E+01
 0.59769920E+01 0.53954573E+00 0.19474628E+00-0.23770246E-01
 0.90291738E-01
 0.49803485E-01-0.10546519E-01-0.94053874E-01 0.36869490E+00
 0.35198319E-01
 -0.17066604E+01 0.26453459E+00 0.13060673E+00 0.19693736E+00
 0.19531889E+00
 -0.92216883E-01 0.58446829E-01 0.31174463E+00
 iteration = 25 func evals = 262 llf = 0.59618193E+01
 0.60354817E+01 0.55414976E+00 0.21883502E+00-0.18228653E-01
 0.98072583E-01
 0.39145737E-01-0.68713276E-02-0.10366696E+00 0.32427961E+00
 0.29271812E-01
 -0.15242450E+01 0.22442936E+00 0.11370482E+00 0.22373712E+00
 0.14705671E+00
 -0.90246156E-01 0.48960560E-01 0.90582997E-01
 pt better than entering pt cannot be found
 iteration = 26 func evals = 270 llf = 0.59618193E+01
 0.60354817E+01 0.55414976E+00 0.21883502E+00-0.18228653E-01
 0.98072583E-01
 0.39145737E-01-0.68713276E-02-0.10366696E+00 0.32427961E+00
 0.29271812E-01
 -0.15242450E+01 0.22442936E+00 0.11370482E+00 0.22373712E+00
 0.14705671E+00
 -0.90246156E-01 0.48960560E-01 0.90582997E-01

the final mle estimates are :

	coefficient	standard-error	t-ratio
beta 0	0.60354817E+01	0.94951818E+00	0.63563625E+01
beta 1	0.55414976E+00	0.17771397E+00	0.31182116E+01
beta 2	0.21883502E+00	0.11175222E+00	0.19582162E+01
beta 3	-0.18228653E-01	0.10182178E+00	-0.17902508E+00
beta 4	0.98072583E-01	0.52741758E-01	0.18594864E+01
beta 5	0.39145737E-01	0.38729833E-01	0.10107386E+01
beta 6	-0.68713276E-02	0.48951090E-01	-0.14037129E+00
beta 7	-0.10366696E+00	0.32135499E-01	-0.32259327E+01
beta 8	0.32427961E+00	0.15211229E+00	0.21318435E+01
beta 9	0.29271812E-01	0.75200953E-01	0.38924789E+00
delta 0	-0.15242450E+01	0.16105664E+01	-0.94640307E+00
delta 1	0.22442936E+00	0.49313706E+00	0.45510545E+00
delta 2	0.11370482E+00	0.13201770E+00	0.86128467E+00
delta 3	0.22373712E+00	0.99209761E-01	0.22551927E+01
delta 4	0.14705671E+00	0.12572621E+00	0.11696583E+01
delta 5	-0.90246156E-01	0.80128789E-01	-0.11262638E+01
sigma-squared	0.48960560E-01	0.13759244E-01	0.35583756E+01
gamma	0.90582997E-01	0.41320715E+00	0.21921934E+00

log likelihood function = 0.59618193E+01

LR test of the one-sided error = 0.10139007E+02

with number of restrictions = 7

[note that this statistic has a mixed chi-square distribution]

number of iterations = 26

(maximum number of iterations set at : 100)

number of cross-sections = 60

number of time periods = 1

total number of observations = 60

thus there are: 0 obsns not in the panel

covariance matrix :

```

0.90158477E+00 0.15506650E+00 -0.56684097E-01 -0.51313323E-01 -
0.40375816E-02
0.40786512E-02 0.25594411E-01 -0.60410131E-02 -0.11056184E+00 -
0.47218633E-02
-0.80490269E-01 0.30662650E-01 -0.12972470E-01 -0.13482978E-02 -
0.31223148E-02
0.88422757E-02 -0.13263385E-02 -0.15763237E-01
0.15506650E+00 0.31582254E-01 -0.11188429E-01 -0.94194465E-02 -
0.14563355E-02
0.17785743E-03 0.35215534E-02 -0.16102440E-02 -0.15590052E-01 -
0.14206112E-02
0.38886136E-02 0.24672386E-03 -0.19077282E-02 0.22532657E-03 -
0.22836123E-02
0.12647930E-02 -0.35045058E-03 -0.86194980E-02
-0.56684097E-01 -0.11188429E-01 0.12488560E-01 0.97552977E-03 -
0.10923889E-02
-0.93892446E-03 -0.14468260E-02 -0.52655160E-03 0.34264858E-02
0.22912770E-02
0.32032344E-01 -0.12735246E-01 0.41826078E-02 0.26961754E-02 -
0.31787538E-03
-0.17767185E-02 -0.23567971E-03 -0.13659277E-01
-0.51313323E-01 -0.94194465E-02 0.97552977E-03 0.10367675E-01 -
0.11223910E-02
-0.11933761E-02 -0.68074873E-03 0.61560322E-03 0.14595626E-02 -
0.40409162E-03
0.12359927E-01 -0.34090237E-02 0.95714002E-03 -0.70664047E-03
0.26069746E-02

```

-0.11389618E-02 0.10781111E-03 0.23192504E-02
-0.40375816E-02 -0.14563355E-02 -0.10923889E-02 -0.11223910E-02
0.27816931E-02
0.25061012E-03 -0.31416975E-03 0.48463141E-03 0.31838597E-03
0.71750887E-04
-0.23714363E-01 0.78892393E-02 -0.19669566E-02 -0.55870504E-03 -
0.78412491E-03
0.16479984E-02 0.64701824E-04 0.44614108E-02
0.40786512E-02 0.17785743E-03 -0.93892446E-03 -0.11933761E-02
0.25061012E-03
0.15000000E-02 -0.69272976E-04 0.16748500E-03 -0.10129383E-03 -
0.57195446E-04
-0.16904489E-01 0.50566058E-02 -0.11402833E-02 0.67893048E-04 -
0.62304904E-03
0.57354939E-03 0.45701421E-05 0.20518506E-02
0.25594411E-01 0.35215534E-02 -0.14468260E-02 -0.68074873E-03 -
0.31416975E-03
-0.69272976E-04 0.23962092E-02 -0.21131635E-03 -0.39025294E-02
0.37584999E-04
0.34785662E-02 -0.11016432E-02 0.10455162E-03 0.19400863E-03
0.84847754E-03
0.14325753E-03 -0.83770164E-04 -0.15663481E-02
-0.60410131E-02 -0.16102440E-02 -0.52655160E-03 0.61560322E-03
0.48463141E-03
0.16748500E-03 -0.21131635E-03 0.10326903E-02 0.89280543E-03 -
0.48248025E-04
-0.13735739E-01 0.41272236E-02 -0.65656937E-03 -0.37920645E-03
0.47284658E-03
0.50299472E-03 0.83343608E-04 0.45148915E-02
-0.11056184E+00 -0.15590052E-01 0.34264858E-02 0.14595626E-02
0.31838597E-03
-0.10129383E-03 -0.39025294E-02 0.89280543E-03 0.23138150E-01 -
0.59083202E-03
-0.90554702E-02 0.27990576E-02 0.70831615E-04 -0.13720738E-02
0.50881583E-03
-0.29734044E-03 0.44946087E-03 0.12934138E-01
-0.47218633E-02 -0.14206112E-02 0.22912770E-02 -0.40409162E-03
0.71750887E-04
-0.57195446E-04 0.37584999E-04 -0.48248025E-04 -0.59083202E-03
0.56551834E-02
-0.39571688E-01 0.12382953E-01 -0.27302967E-02 -0.37442145E-03 -
0.63110906E-03
0.12576117E-02 0.10566357E-03 0.84139371E-02
-0.80490269E-01 0.38886136E-02 0.32032344E-01 0.12359927E-01 -
0.23714363E-01
-0.16904489E-01 0.34785662E-02 -0.13735739E-01 -0.90554702E-02 -
0.39571688E-01

0.25939241E+01 -0.77463401E+00 0.15271238E+00 0.70058753E-02 -
0.11580464E-01
-0.76640908E-01 -0.63799107E-02 -0.44023629E+00
0.30662650E-01 0.24672386E-03 -0.12735246E-01 -0.34090237E-02
0.78892393E-02
0.50566058E-02 -0.11016432E-02 0.41272236E-02 0.27990576E-02
0.12382953E-01
-0.77463401E+00 0.24318416E+00 -0.54797105E-01 -0.10854202E-01
0.40938079E-03
0.26862137E-01 0.17701593E-02 0.13394326E+00
-0.12972470E-01 -0.19077282E-02 0.41826078E-02 0.95714002E-03 -
0.19669566E-02
-0.11402833E-02 0.10455162E-03 -0.65656937E-03 0.70831615E-04 -
0.27302967E-02
0.15271238E+00 -0.54797105E-01 0.17428673E-01 0.53572582E-02
0.44314584E-02
-0.80691773E-02 -0.61487896E-04 -0.19921172E-01
-0.13482978E-02 0.22532657E-03 0.26961754E-02 -0.70664047E-03 -
0.55870504E-03
0.67893048E-04 0.19400863E-03 -0.37920645E-03 -0.13720738E-02 -
0.37442145E-03
0.70058753E-02 -0.10854202E-01 0.53572582E-02 0.98425766E-02 -
0.30518988E-02
-0.27422063E-02 -0.30882065E-03 -0.18399975E-01
-0.31223148E-02 -0.22836123E-02 -0.31787538E-03 0.26069746E-02 -
0.78412491E-03
-0.62304904E-03 0.84847754E-03 0.47284658E-03 0.50881583E-03 -
0.63110906E-03
-0.11580464E-01 0.40938079E-03 0.44314584E-02 -0.30518988E-02
0.15807080E-01
-0.11737149E-02 0.68233282E-03 0.28382769E-01
0.88422757E-02 0.12647930E-02 -0.17767185E-02 -0.11389618E-02
0.16479984E-02
0.57354939E-03 0.14325753E-03 0.50299472E-03 -0.29734044E-03
0.12576117E-02
-0.76640908E-01 0.26862137E-01 -0.80691773E-02 -0.27422063E-02 -
0.11737149E-02
0.64206228E-02 0.13413975E-03 0.14371734E-01
-0.13263385E-02 -0.35045058E-03 -0.23567971E-03 0.10781111E-03
0.64701824E-04
0.45701421E-05 -0.83770164E-04 0.83343608E-04 0.44946087E-03
0.10566357E-03
-0.63799107E-02 0.17701593E-02 -0.61487896E-04 -0.30882065E-03
0.68233282E-03
0.13413975E-03 0.18931681E-03 0.35780693E-02
-0.15763237E-01 -0.86194980E-02 -0.13659277E-01 0.23192504E-02
0.44614108E-02

0.20518506E-02 -0.15663481E-02 0.45148915E-02 0.12934138E-01
 0.84139371E-02
 -0.44023629E+00 0.13394326E+00 -0.19921172E-01 -0.18399975E-01
 0.28382769E-01
 0.14371734E-01 0.35780693E-02 0.17074014E+00

technical efficiency estimates :

firm	year	eff.-est.
1	1	0.71847656E+00
2	1	0.98259739E+00
3	1	0.93034544E+00
4	1	0.91613489E+00
5	1	0.87921625E+00
6	1	0.96234320E+00
7	1	0.95744509E+00
8	1	0.81414687E+00
9	1	0.73509476E+00
10	1	0.99147062E+00
11	1	0.91929972E+00
12	1	0.98137112E+00
13	1	0.88997136E+00
14	1	0.94513215E+00
15	1	0.74082083E+00
16	1	0.86600449E+00
17	1	0.86177702E+00
18	1	0.74608158E+00
19	1	0.91390198E+00
20	1	0.80747738E+00
21	1	0.94012007E+00
22	1	0.94440296E+00
23	1	0.91291520E+00
24	1	0.77506331E+00
25	1	0.91324854E+00
26	1	0.97977785E+00
27	1	0.81917962E+00
28	1	0.94546981E+00
29	1	0.96399441E+00
30	1	0.89270405E+00
31	1	0.83461919E+00
32	1	0.92939039E+00
33	1	0.91805282E+00
34	1	0.97649730E+00
35	1	0.95978997E+00
36	1	0.76415977E+00
37	1	0.87103026E+00
38	1	0.93495962E+00

```

39 1 0.88350742E+00
40 1 0.79099446E+00
41 1 0.70047469E+00
42 1 0.82791720E+00
43 1 0.76911592E+00
44 1 0.93906963E+00
45 1 0.63640321E+00
46 1 0.63373452E+00
47 1 0.93410860E+00
48 1 0.95169032E+00
49 1 0.97463397E+00
50 1 0.83649388E+00
51 1 0.95594222E+00
52 1 0.96088262E+00
53 1 0.78742320E+00
54 1 0.91342816E+00
55 1 0.84421259E+00
56 1 0.78068134E+00
57 1 0.89483614E+00
58 1 0.74912321E+00
59 1 0.79455293E+00
60 1 0.73184076E+00

```

mean efficiency = 0.86875918E+00

Lampiran 3. Analisis One Sample T-Test

T-TEST

/TESTVAL = 0

/MISSING = ANALYSIS

/VARIABLES = klahan kbenih kpupukN kpupukP kpespdt

kTK

/CRITERIA = CI (.95) .

T-Test

[DataSet1]

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
klahan	60	1,5577	,88807	,11465
kbenih	60	1,0854	,65480	,08453
kpupukN	60	-1,8086	,78935	,10190
kpupukP	60	32,1756	47,64844	6,15139
kpespdt	60	-19,5135	46,77723	6,03891
kTK	60	,1192	,05820	,00751

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
klahan	13,586	59	,000	1,55767	1,3283	1,7871
kbenih	12,840	59	,000	1,08542	,9163	1,2546
kpupukN	-17,748	59	,000	-1,80858	-2,0125	-1,6047
kpupukP	5,231	59	,000	32,17565	19,8668	44,4845
kpespt	-3,231	59	,002	-19,51352	-31,5974	-7,4297
kTK	15,861	59	,000	,11916	,1041	,1342