

LAMPIRAN

Lampiran 1. Dokumentasi Kegiatan Wawancara dengan Petani Responden



Lampiran 2. Data Responden

No	Nama Responden	Jenis Kelamin	Usia	Pendidikan	Lama Berusahatani	Pekerjaan Lain	Panen Ke-	Luasan Lahan
1	Utomo	Laki-laki	57	SD	20	Karyawan Swasta	4	7.4
2	Kusnan	Laki-laki	46	SLTP	15	Tidak Ada	5	8.5
3	Ahmat Yahya	Laki-laki	55	SD	25	Tidak Ada	5	6.5
4	Tani	Laki-laki	60	Tidak Sekolah	28	Tidak Ada	4	6.2
5	Suwardi	Laki-laki	52	SD	17	Tidak Ada	4	6.0
6	Suprihadi	Laki-laki	48	SLTA	12	Pedagang	4	6.6
7	Rusdi	Laki-laki	55	SD	21	Tidak Ada	4	12.7
8	Askar	Laki-laki	64	SLTP	30	Tidak Ada	5	6.3
9	Harsono	Laki-laki	55	Sarjana	20	Karyawan Swasta	5	6.8
10	Sucipto	Laki-laki	36	SLTA	4	Pedagang	5	9.2
11	Sariaji	Laki-laki	52	SD	17	Tidak Ada	4	8.2
12	Sudarmaji	Laki-laki	47	SLTP	15	Karyawan Swasta	4	3.2
13	Sunar	Laki-laki	48	SLTP	23	Tidak Ada	5	8.3
14	Anan	Laki-laki	51	SD	15	Tidak Ada	4	9.8
15	Sumardji utomo	Laki-laki	65	SLTA	15	Karyawan Swasta	5	5.3
16	Didit supiono	Laki-laki	42	SLTA	10	Karyawan Swasta	5	8.0
17	Sutan Heri	Laki-laki	52	Tidak Sekolah	14	Tidak Ada	4	4.0
18	Minadi	Laki-laki	59	SD	20	Tidak Ada	5	6.2
19	Inali	Laki-laki	51	SLTP	15	Karyawan Swasta	4	6.0
20	Suyanto	Laki-laki	49	SLTA	15	Karyawan Swasta	5	5.8
21	Wiyono	Laki-laki	50	SD	15	Tidak Ada	5	7.0
22	H.Sali	Laki-laki	62	SD	24	Tidak Ada	4	3.2
23	Andik Analika	Laki-laki	33	SLTA	3	Karyawan Swasta	4	4.2
24	Senan	Laki-laki	52	SD	15	Tidak Ada	4	12.5
25	Sumining	Perempuan	32	SLTA	3	PNS	4	4.5
26	Nuralim	Laki-laki	67	Tidak Tamat SD	15	Tidak Ada	5	4.8
27	Suyadi	Laki-laki	62	Tidak Sekolah	23	Tidak Ada	4	9.2
28	Suwito	Laki-laki	54	SD	15	Tidak Ada	5	7.1
29	Minarno	Laki-laki	61	SLTA	20	Karyawan Swasta	5	4.3

Lampiran 2. Lanjutan

No	Nama Responden	Jenis Kelamin	Usia	Pendidikan	Lama Berusahatani	Pekerjaan Lain	Panen Ke-	Luasan Lahan
30	Siswanto	Laki-laki	31	SLTA	3	Karyawan Swasta	4	4.9
31	Suhadi	Laki-laki	49	SLTA	12	Pedagang	5	4.8
32	M.Yayan Haris	Laki-laki	31	SD	4	PNS	4	3.5
33	Supran	Laki-laki	66	Tidak Sekolah	25	Tidak Ada	5	3.3
34	Pujiadi	Laki-laki	48	SLTA	15	Karyawan Swasta	5	3.9
35	Suwandori	Laki-laki	35	SLTA	8	Karyawan Swasta	4	3.8
36	Ach.Tohir	Laki-laki	55	SD	20	Pedagang	5	3.1

Sumber: Data Primer, 2017 (Diolah).

Lampiran 3. Data Produksi dan Faktor-Faktor Produksi Tebu Lahan Kering

No	Nama Responden	Produksi Tebu (kw)	Bibit (kw)	Luas lahan (Ha)	Unsur N (kw)	Unsur P (kw)	Unsur K (kw)	Herbisida (Liter)	HOK (Unit)
1	Utomo	5,528	592	7.4	14.4	28	6	29.97	1,052
2	Kusnan	6,528	595	8.5	16.97	32.9	7.1	10.03	1,028
3	Ahmat Yahya	4,849	455	6.5	12.23	23.8	5.3	20.02	890
4	Tani	4,650	434	6.2	11.21	21.7	4.7	9.98	774
5	Suwardi	4,500	462	6.0	10.8	21	4.5	10.02	741
6	Suprihadi	4,930	462	6.6	12.65	24.5	5.3	20	917
7	Rusdi	10,185	1,016	12.7	26.54	51.8	11	35.94	1,767
8	Askar	4,700	441	6.3	11.82	23.1	5.1	10.02	886
9	Harsono	5,120	476	6.8	13.37	25.9	5.6	19.99	493
10	Sucipto	7,231	644	9.2	17.69	34.3	7.4	10.03	1,422
11	Sariaji	6,396	574	8.2	16.15	31.5	6.7	30.01	633
12	Sudarmaji	2,550	256	3.2	7.2	14	3	10.02	307
13	Sunar	6,457	581	8.3	16.55	32.2	7.1	9.96	1,003
14	Anan	7,801	784	9.8	19.75	38.5	8.2	10	1,200
15	Sumardji utomo	3,890	424	5.3	9.05	17.5	3.8	30	659
16	Didit supiono	6,264	560	8.0	15.84	30.8	6.6	10	984
17	Sutan Heri	2,920	320	4.0	9.67	18.9	4	10	388
18	Minadi	4,662	496	6.2	12.24	23.8	5.1	20.03	776
19	Inali	4,422	420	6.0	11.21	21.7	4.7	30	622
20	Suyanto	4,338	464	5.8	9.77	18.9	4.1	29.99	822
21	Wiyono	5,194	560	7.0	12.96	25.2	5.4	35.98	858
22	H.Sali	2,502	224	3.2	5.35	10.5	2.2	16	454
23	Andik Analika	3,158	336	4.2	7.92	15.4	3.3	22.01	599
24	Senan	9,375	1,000	12.5	24.89	48.3	10.4	62	1,202
25	Sumining	3,465	360	4.5	8.95	17.5	3.7	22.01	558
26	Nuralim	3,782	336	4.8	9.67	18.9	4	24	681
27	Suyadi	6,918	644	9.2	19.85	38.5	8.3	46	1,115
28	Suwito	5,226	497	7.1	15.12	29.4	6.3	36	990
29	Minarno	3,259	344	4.3	8.95	17.5	3.7	22.02	538
30	Siswanto	3,842	392	4.9	10.49	20.3	4.4	24.01	560

Lampiran 3. Lanjutan

No	Nama Responden	Produksi Tebu (kw)	Bibit (kw)	Luas lahan (Ha)	Unsur N (kw)	Unsur P (kw)	Unsur K (kw)	Herbisida (Liter)	HOK (Unit)
31	Suhadi	3,782	336	4.8	10.49	20.3	4.4	24	675
32	M.Yayan Haris	2,559	245	3.5	7.61	14.7	3.2	17.99	442
33	Supran	2,604	231	3.3	7.2	14	3	16.01	471
34	Pujiadi	2,898	273	3.9	8.64	16.8	3.6	20.01	550
35	Suwandori	2,968	266	3.8	8.33	16.1	3.5	19.99	475
36	Ach.Tohir	2,474	248	3.1	6.89	13.3	2.9	16	335

Sumber: Data Primer, 2017 (Diolah).

Lampiran 4. Efisiensi Teknis Produksi Tebu Lahan Kering di Kabupaten Jombang

No	Nama UKE	Nilai Efisiensi Teknis VRS	Keterangan
1	UKE 1	0.943	Tidak Efisien
2	UKE 2	0.995	Tidak Efisien
3	UKE 3	0.951	Tidak Efisien
4	UKE 4	1.000	Efisien
5	UKE 5	1.000	Efisien
6	UKE 6	0.952	Tidak Efisien
7	UKE 7	1.000	Efisien
8	UKE 8	0.996	Tidak Efisien
9	UKE 9	1.000	Efisien
10	UKE 10	1.000	Efisien
11	UKE 11	1.000	Efisien
12	UKE 12	1.000	Efisien
13	UKE 13	1.000	Efisien
14	UKE 14	1.000	Efisien
15	UKE 15	0.988	Tidak Efisien
16	UKE 16	1.000	Efisien
17	UKE 17	1.000	Efisien
18	UKE 18	0.948	Tidak Efisien
19	UKE 19	0.954	Tidak Efisien
20	UKE 20	1.000	Efisien
21	UKE 21	0.960	Tidak Efisien
22	UKE 22	1.000	Efisien
23	UKE 23	0.952	Tidak Efisien
24	UKE 24	1.000	Efisien
25	UKE 25	0.971	Tidak Efisien
26	UKE 26	1.000	Efisien
27	UKE 27	0.963	Tidak Efisien
28	UKE 28	0.936	Tidak Efisien
29	UKE 29	0.952	Tidak Efisien
30	UKE 30	0.983	Tidak Efisien
31	UKE 31	1.000	Efisien
32	UKE 32	0.960	Tidak Efisien
33	UKE 33	1.000	Efisien

Lampiran 4. Lanjutan

No	Nama UKE	Nilai Efisiensi Teknis VRS	Keterangan
34	UKE 34	0.942	Tidak Efisien
35	UKE 35	1.000	Efisien
36	UKE 36	1.000	Efisien
	Rata –rata		0,982
	Minimum		0,936
	Maksimum		1,000

Sumber: Data Primer, 2017 (Diolah).

Lampiran 5. Efisiensi Skala Produksi Tebu Lahan Kering di Kabupaten Jombang

No	Nama UKE	Nilai Efisiensi Skala	Keterangan	Skala efisiensi
1	UKE 1	0,997	Tidak Efisien	DRS
2	UKE 2	1,000	Efisien	CRS
3	UKE 3	1,000	Efisien	CRS
4	UKE 4	1,000	Efisien	CRS
5	UKE 5	1,000	Efisien	CRS
6	UKE 6	1,000	Efisien	CRS
7	UKE 7	1,000	Efisien	CRS
8	UKE 8	0,967	Tidak Efisien	IRS
9	UKE 9	1,000	Efisien	CRS
10	UKE 10	1,000	Efisien	CRS
11	UKE 11	1,000	Efisien	CRS
12	UKE 12	1,000	Efisien	CRS
13	UKE 13	1,000	Efisien	CRS
14	UKE 14	1,000	Efisien	CRS
15	UKE 15	0,980	Tidak Efisien	DRS
16	UKE 16	1,000	Efisien	CRS
17	UKE 17	0,928	Tidak Efisien	IRS
18	UKE 18	0,999	Tidak Efisien	IRS
19	UKE 19	0,990	Tidak Efisien	DRS
20	UKE 20	0,963	Tidak Efisien	DRS
21	UKE 21	0,983	Tidak Efisien	DRS
22	UKE 22	1,000	Efisien	CRS
23	UKE 23	0,998	Tidak Efisien	IRS
24	UKE 24	0,954	Tidak Efisien	DRS
25	UKE 25	0,998	Tidak Efisien	IRS
26	UKE 26	1,000	Efisien	CRS
27	UKE 27	0,993	Tidak Efisien	DRS
28	UKE 28	0,997	Tidak Efisien	DRS
29	UKE 29	0,997	Tidak Efisien	IRS
30	UKE 30	1,000	Efisien	CRS
31	UKE 31	0,999	Tidak Efisien	DRS
32	UKE 32	0,968	Tidak Efisien	IRS

Lampiran 5. Lanjutan

No	Nama UKE	Nilai Efisiensi Skala	Keterangan	Skala efisiensi
33	UKE 33	1,000	Efisien	CRS
34	UKE 34	1,000	Efisien	CRS
35	UKE 35	0,993	Tidak Efisien	IRS
36	UKE 36	1,000	Efisien	CRS
	Rata -rata		0,992	
	Minimum		0,928	
	Maksimum		1,000	

Sumber: Data Primer, 2017 (Diolah).

Lampiran 6. Hasil Analisis DEAP

Results from DEAP Version 2.1

Instruction file = eg2-ins.txt

Data file = eg2-dta.txt

Input orientated DEA

Scale assumption: VRS

Slacks calculated using multi-stage method

EFFICIENCY SUMMARY:

firm crste vrste scale

1	0.940	0.943	0.997	drs
2	0.995	0.995	1.000	-
3	0.951	0.951	1.000	-
4	1.000	1.000	1.000	-
5	1.000	1.000	1.000	-
6	0.952	0.952	1.000	-
7	1.000	1.000	1.000	-
8	0.963	0.996	0.967	irs
9	1.000	1.000	1.000	-
10	1.000	1.000	1.000	-
11	1.000	1.000	1.000	-
12	1.000	1.000	1.000	-
13	1.000	1.000	1.000	-
14	1.000	1.000	1.000	-
15	0.967	0.988	0.980	drs
16	1.000	1.000	1.000	-
17	0.928	1.000	0.928	irs
18	0.947	0.948	0.999	irs
19	0.944	0.954	0.990	drs
20	0.963	1.000	0.963	drs
21	0.944	0.960	0.983	drs
22	1.000	1.000	1.000	-
23	0.950	0.952	0.998	irs
24	0.954	1.000	0.954	drs
25	0.969	0.971	0.998	irs
26	1.000	1.000	1.000	-
27	0.957	0.963	0.993	drs
28	0.934	0.936	0.997	drs
29	0.949	0.952	0.997	irs
30	0.983	0.983	1.000	-
31	0.999	1.000	0.999	drs
32	0.929	0.960	0.968	irs
33	1.000	1.000	1.000	-
34	0.942	0.942	1.000	-
35	0.993	1.000	0.993	irs

36 1.000 1.000 1.000 -

mean 0.974 0.982 0.992

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

SUMMARY OF OUTPUT SLACKS:

firm	output:	1
1		0.000
2		0.000
3		0.000
4		0.000
5		0.000
6		0.000
7		0.000
8		14.024
9		0.000
10		0.000
11		0.000
12		0.000
13		0.000
14		0.000
15		0.000
16		0.000
17		0.000
18		0.000
19		0.000
20		0.000
21		0.000
22		0.000
23		0.000
24		0.000
25		0.000
26		0.000
27		0.000
28		0.000
29		0.000
30		0.000

31	0.000
32	0.000
33	0.000
34	0.000
35	0.000
36	0.000
mean	0.390

SUMMARY OF INPUT SLACKS:

firm input:	1	2	3	4	5	6	7	
1	34.969	0.000	0.040	0.000	0.040	9.633	0.000	
2	0.000	0.101	0.252	0.375	0.000	0.000	0.000	
3	0.000	0.000	0.004	0.000	0.204	2.721	0.000	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
6	0.000	0.000	0.062	0.000	0.062	1.787	0.000	
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
8	0.000	0.000	0.373	0.934	0.294	0.000	100.287	
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
15	34.796	0.138	0.052	0.000	0.052	5.169	0.000	
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
18	12.157	0.000	0.029	0.000	0.029	5.174	0.000	
19	0.000	0.046	0.087	0.000	0.087	6.366	0.000	
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
21	37.016	0.000	0.000	0.000	0.000	11.260	0.000	
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
23	22.410	0.000	0.033	0.000	0.033	3.229	28.353	
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
25	14.384	0.000	0.022	0.073	0.000	7.119	0.000	
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
27	0.000	0.039	1.938	3.678	0.834	24.739	0.000	
28	0.000	0.000	0.634	1.311	0.241	13.904	0.000	
29	8.809	0.000	0.077	0.257	0.000	2.961	0.273	
30	0.000	0.000	0.041	0.000	0.041	10.007	0.000	
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
32	0.000	0.099	1.423	2.597	0.644	2.397	0.000	

33	0.000	0.000	0.000	0.000	0.000	0.000	0.000
34	0.000	0.000	0.132	0.279	0.049	0.938	0.000
35	0.000	0.001	1.681	3.075	0.759	2.331	0.000
36	0.000	0.000	0.000	0.000	0.000	0.000	0.000
mean	4.571	0.012	0.191	0.349	0.094	3.048	3.581

SUMMARY OF PEERS:

firm peers:

1 14 7 10 22
 2 14 16 11 10 13
 3 26 11 10 22
 4 4
 5 5
 6 11 10 26 22
 7 7
 8 4 13
 9 9
 10 10
 11 11
 12 12
 13 13
 14 14
 15 22 11 20
 16 16
 17 17
 18 7 36 14 22
 19 20 10 11 22
 20 20
 21 20 11 10 14 22
 22 22
 23 7 22 36
 24 24
 25 7 22 14 12
 26 26
 27 11 10 7
 28 31 11 10
 29 22 36 7
 30 36 14 12 7
 31 31
 32 11 12 22
 33 33
 34 33 31 11

35 11 12 22
 36 36

SUMMARY OF PEER WEIGHTS:

(in same order as above)

firm peer weights:

1 0.076 0.216 0.205 0.504
 2 0.072 0.239 0.000 0.026 0.662
 3 0.071 0.138 0.364 0.428
 4 1.000
 5 1.000
 6 0.114 0.359 0.225 0.303
 7 1.000
 8 0.965 0.035
 9 1.000
 10 1.000
 11 1.000
 12 1.000
 13 1.000
 14 1.000
 15 0.396 0.135 0.469
 16 1.000
 17 1.000
 18 0.009 0.215 0.396 0.380
 19 0.055 0.047 0.410 0.488
 20 1.000
 21 0.372 0.241 0.128 0.088 0.171
 22 1.000
 23 0.086 0.700 0.214
 24 1.000
 25 0.060 0.449 0.091 0.399
 26 1.000
 27 0.450 0.529 0.021
 28 0.557 0.100 0.343
 29 0.275 0.624 0.101
 30 0.434 0.197 0.331 0.038
 31 1.000
 32 0.012 0.217 0.771
 33 1.000
 34 0.767 0.226 0.007
 35 0.120 0.003 0.877
 36 1.000

PEER COUNT SUMMARY:

(i.e., no. times each firm is a peer for another)

firm peer count:

1	0
2	0
3	0
4	1
5	0
6	0
7	7
8	0
9	0
10	8
11	11
12	4
13	2
14	6
15	0
16	1
17	0
18	0
19	0
20	3
21	0
22	12
23	0
24	0
25	0
26	2
27	0
28	0
29	0
30	0
31	2
32	0
33	1
34	0
35	0
36	4

SUMMARY OF OUTPUT TARGETS:

firm output:	1
1	5528.000
2	6528.000
3	4849.000
4	4650.000
5	4500.000
6	4930.000
7	10185.000
8	4714.024
9	5120.000
10	7231.000
11	6396.000
12	2550.000
13	6457.000
14	7801.000
15	3890.000
16	6264.000
17	2920.000
18	4662.000
19	4422.000
20	4338.000
21	5194.000
22	2502.000
23	3158.000
24	9375.000
25	3465.000
26	3782.000
27	6918.000
28	5226.000
29	3259.000
30	3842.000
31	3782.000
32	2559.000
33	2604.000
34	2898.000
35	2968.000
36	2474.000

SUMMARY OF INPUT TARGETS:

firm input:	1	2	3	4	5	6	7
1	523.152	6.977	13.536	26.398	5.616	18.622	991.796
2	592.286	8.360	16.641	32.375	7.068	9.984	1023.310

3	432.900	6.184	11.632	22.644	4.839	16.327	846.771
4	434.000	6.200	11.210	21.700	4.700	9.980	774.000
5	462.000	6.000	10.800	21.000	4.500	10.020	741.000
6	439.735	6.282	11.979	23.319	4.983	17.250	872.807
7	1016.000	12.700	26.540	51.800	11.000	35.940	1767.000
8	439.208	6.274	11.399	22.072	4.785	9.979	782.114
9	476.000	6.800	13.370	25.900	5.600	19.990	493.000
10	644.000	9.200	17.690	34.300	7.400	10.030	1422.000
11	574.000	8.200	16.150	31.500	6.700	30.010	633.000
12	256.000	3.200	7.200	14.000	3.000	10.020	307.000
13	581.000	8.300	16.550	32.200	7.100	9.960	1003.000
14	784.000	9.800	19.750	38.500	8.200	10.000	1200.000
15	383.909	5.096	8.884	17.281	3.700	24.456	650.770
16	560.000	8.000	15.840	30.800	6.600	10.000	984.000
17	320.000	4.000	9.670	18.900	4.000	10.000	388.000
18	457.896	5.876	11.571	22.555	4.804	13.808	735.405
19	400.483	5.675	10.602	20.692	4.394	22.240	593.096
20	464.000	5.800	9.770	18.900	4.100	29.990	822.000
21	500.549	6.720	12.441	24.190	5.184	23.279	823.626
22	224.000	3.200	5.350	10.500	2.200	16.000	454.000
23	297.364	3.997	7.505	14.656	3.108	17.718	541.721
24	1000.000	12.500	24.890	48.300	10.400	62.000	1202.000
25	335.328	4.371	8.672	16.927	3.594	14.262	542.053
26	336.000	4.800	9.670	18.900	4.000	24.000	681.000
27	620.408	8.824	17.185	33.412	7.162	19.576	1074.154
28	465.407	6.649	13.525	26.220	5.659	19.807	927.068
29	318.810	4.095	8.447	16.410	3.524	18.010	512.108
30	385.463	4.818	10.274	19.961	4.286	13.603	550.662
31	336.000	4.800	10.490	20.300	4.400	24.000	675.000
32	235.138	3.260	5.881	11.511	2.428	14.868	424.207
33	231.000	3.300	7.200	14.000	3.000	16.010	471.000
34	257.242	3.675	8.009	15.552	3.343	17.917	518.254
35	265.972	3.798	6.648	13.023	2.741	17.657	474.951
36	248.000	3.100	6.890	13.300	2.900	16.000	335.000

FIRM BY FIRM RESULTS:

Results for firm: 1

Technical efficiency = 0.943

Scale efficiency = 0.997 (drs)

PROJECTION SUMMARY:

variable	original	radial	slack	projected
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		value	movement	movement	value
output	1	5528.000	0.000	0.000	5528.000
input	1	592.000	-33.879	-34.969	523.152
input	2	7.400	-0.423	0.000	6.977
input	3	14.400	-0.824	-0.040	13.536
input	4	28.000	-1.602	0.000	26.398
input	5	6.000	-0.343	-0.040	5.616
input	6	29.970	-1.715	-9.633	18.622
input	7	1052.000	-60.204	0.000	991.796

LISTING OF PEERS:

peer	lambda	weight
14	0.076	
7	0.216	
10	0.205	
22	0.504	

Results for firm: 2

Technical efficiency = 0.995

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	6528.000	0.000	0.000	6528.000
input	1	595.000	-2.714	0.000	592.286
input	2	8.500	-0.039	-0.101	8.360
input	3	16.970	-0.077	-0.252	16.641
input	4	32.900	-0.150	-0.375	32.375
input	5	7.100	-0.032	0.000	7.068
input	6	10.030	-0.046	0.000	9.984
input	7	1028.000	-4.690	0.000	1023.310

LISTING OF PEERS:

peer	lambda	weight
14	0.072	
16	0.239	
11	0.000	
10	0.026	
13	0.662	

Results for firm: 3

Technical efficiency = 0.951

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
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		value	movement	movement	value
output	1	4849.000	0.000	0.000	4849.000
input	1	455.000	-22.100	0.000	432.900
input	2	6.500	-0.316	0.000	6.184
input	3	12.230	-0.594	-0.004	11.632
input	4	23.800	-1.156	0.000	22.644
input	5	5.300	-0.257	-0.204	4.839
input	6	20.020	-0.972	-2.721	16.327
input	7	890.000	-43.229	0.000	846.771

LISTING OF PEERS:

peer	lambda	weight
26	0.071	
11	0.138	
10	0.364	
22	0.428	

Results for firm: 4

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	4650.000	0.000	0.000	4650.000
input	1	434.000	0.000	0.000	434.000
input	2	6.200	0.000	0.000	6.200
input	3	11.210	0.000	0.000	11.210
input	4	21.700	0.000	0.000	21.700
input	5	4.700	0.000	0.000	4.700
input	6	9.980	0.000	0.000	9.980
input	7	774.000	0.000	0.000	774.000

LISTING OF PEERS:

peer	lambda	weight
4	1.000	

Results for firm: 5

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	4500.000	0.000	0.000	4500.000
input	1	462.000	0.000	0.000	462.000
input	2	6.000	0.000	0.000	6.000

input	3	10.800	0.000	0.000	10.800
input	4	21.000	0.000	0.000	21.000
input	5	4.500	0.000	0.000	4.500
input	6	10.020	0.000	0.000	10.020
input	7	741.000	0.000	0.000	741.000

LISTING OF PEERS:

peer	lambda	weight
5	1.000	

Results for firm: 6

Technical efficiency = 0.952

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	4930.000	0.000	0.000	4930.000
input	1	462.000	-22.265	0.000	439.735
input	2	6.600	-0.318	0.000	6.282
input	3	12.650	-0.610	-0.062	11.979
input	4	24.500	-1.181	0.000	23.319
input	5	5.300	-0.255	-0.062	4.983
input	6	20.000	-0.964	-1.787	17.250
input	7	917.000	-44.193	0.000	872.807

LISTING OF PEERS:

peer	lambda	weight
11	0.114	
10	0.359	
26	0.225	
22	0.303	

Results for firm: 7

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	10185.000	0.000	0.000	10185.000
input	1	1016.000	0.000	0.000	1016.000
input	2	12.700	0.000	0.000	12.700
input	3	26.540	0.000	0.000	26.540
input	4	51.800	0.000	0.000	51.800
input	5	11.000	0.000	0.000	11.000
input	6	35.940	0.000	0.000	35.940

input 7 1767.000 0.000 0.000 1767.000

LISTING OF PEERS:

peer lambda weight
7 1.000

Results for firm: 8

Technical efficiency = 0.996

Scale efficiency = 0.967 (irs)

PROJECTION SUMMARY:

variable		original value	radial movement	slack movement	projected value
output	1	4700.000	0.000	14.024	4714.024
input	1	441.000	-1.792	0.000	439.208
input	2	6.300	-0.026	0.000	6.274
input	3	11.820	-0.048	-0.373	11.399
input	4	23.100	-0.094	-0.934	22.072
input	5	5.100	-0.021	-0.294	4.785
input	6	10.020	-0.041	0.000	9.979
input	7	886.000	-3.600	-100.287	782.114

LISTING OF PEERS:

peer lambda weight
4 0.965
13 0.035

Results for firm: 9

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original value	radial movement	slack movement	projected value
output	1	5120.000	0.000	0.000	5120.000
input	1	476.000	0.000	0.000	476.000
input	2	6.800	0.000	0.000	6.800
input	3	13.370	0.000	0.000	13.370
input	4	25.900	0.000	0.000	25.900
input	5	5.600	0.000	0.000	5.600
input	6	19.990	0.000	0.000	19.990
input	7	493.000	0.000	0.000	493.000

LISTING OF PEERS:

peer lambda weight
9 1.000

Results for firm: 10

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	7231.000	0.000	0.000	7231.000
input	1	644.000	0.000	0.000	644.000
input	2	9.200	0.000	0.000	9.200
input	3	17.690	0.000	0.000	17.690
input	4	34.300	0.000	0.000	34.300
input	5	7.400	0.000	0.000	7.400
input	6	10.030	0.000	0.000	10.030
input	7	1422.000	0.000	0.000	1422.000

LISTING OF PEERS:

peer	lambda	weight
10	1.000	

Results for firm: 11

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	6396.000	0.000	0.000	6396.000
input	1	574.000	0.000	0.000	574.000
input	2	8.200	0.000	0.000	8.200
input	3	16.150	0.000	0.000	16.150
input	4	31.500	0.000	0.000	31.500
input	5	6.700	0.000	0.000	6.700
input	6	30.010	0.000	0.000	30.010
input	7	633.000	0.000	0.000	633.000

LISTING OF PEERS:

peer	lambda	weight
11	1.000	

Results for firm: 12

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	2550.000	0.000	0.000	2550.000

input	1	256.000	0.000	0.000	256.000
input	2	3.200	0.000	0.000	3.200
input	3	7.200	0.000	0.000	7.200
input	4	14.000	0.000	0.000	14.000
input	5	3.000	0.000	0.000	3.000
input	6	10.020	0.000	0.000	10.020
input	7	307.000	0.000	0.000	307.000

LISTING OF PEERS:

peer	lambda	weight
12	1.000	

Results for firm: 13

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	6457.000	0.000	0.000	6457.000
input	1	581.000	0.000	0.000	581.000
input	2	8.300	0.000	0.000	8.300
input	3	16.550	0.000	0.000	16.550
input	4	32.200	0.000	0.000	32.200
input	5	7.100	0.000	0.000	7.100
input	6	9.960	0.000	0.000	9.960
input	7	1003.000	0.000	0.000	1003.000

LISTING OF PEERS:

peer	lambda	weight
13	1.000	

Results for firm: 14

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	7801.000	0.000	0.000	7801.000
input	1	784.000	0.000	0.000	784.000
input	2	9.800	0.000	0.000	9.800
input	3	19.750	0.000	0.000	19.750
input	4	38.500	0.000	0.000	38.500
input	5	8.200	0.000	0.000	8.200
input	6	10.000	0.000	0.000	10.000
input	7	1200.000	0.000	0.000	1200.000

LISTING OF PEERS:

peer lambda weight
14 1.000

Results for firm: 15

Technical efficiency = 0.988

Scale efficiency = 0.980 (drs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	3890.000	0.000	0.000	3890.000
input	1	424.000	-5.295	-34.796	383.909
input	2	5.300	-0.066	-0.138	5.096
input	3	9.050	-0.113	-0.052	8.884
input	4	17.500	-0.219	0.000	17.281
input	5	3.800	-0.047	-0.052	3.700
input	6	30.000	-0.375	-5.169	24.456
input	7	659.000	-8.230	0.000	650.770

LISTING OF PEERS:

peer lambda weight
22 0.396
11 0.135
20 0.469

Results for firm: 16

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	6264.000	0.000	0.000	6264.000
input	1	560.000	0.000	0.000	560.000
input	2	8.000	0.000	0.000	8.000
input	3	15.840	0.000	0.000	15.840
input	4	30.800	0.000	0.000	30.800
input	5	6.600	0.000	0.000	6.600
input	6	10.000	0.000	0.000	10.000
input	7	984.000	0.000	0.000	984.000

LISTING OF PEERS:

peer lambda weight
16 1.000

Results for firm: 17

Technical efficiency = 1.000

Scale efficiency = 0.928 (irs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	2920.000	0.000	0.000	2920.000
input	1	320.000	0.000	0.000	320.000
input	2	4.000	0.000	0.000	4.000
input	3	9.670	0.000	0.000	9.670
input	4	18.900	0.000	0.000	18.900
input	5	4.000	0.000	0.000	4.000
input	6	10.000	0.000	0.000	10.000
input	7	388.000	0.000	0.000	388.000

LISTING OF PEERS:

peer	lambda	weight
17	1.000	

Results for firm: 18

Technical efficiency = 0.948

Scale efficiency = 0.999 (irs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	4662.000	0.000	0.000	4662.000
input	1	496.000	-25.947	-12.157	457.896
input	2	6.200	-0.324	0.000	5.876
input	3	12.240	-0.640	-0.029	11.571
input	4	23.800	-1.245	0.000	22.555
input	5	5.100	-0.267	-0.029	4.804
input	6	20.030	-1.048	-5.174	13.808
input	7	776.000	-40.595	0.000	735.405

LISTING OF PEERS:

peer	lambda	weight
7	0.009	
36	0.215	
14	0.396	
22	0.380	

Results for firm: 19

Technical efficiency = 0.954

Scale efficiency = 0.990 (drs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	4422.000	0.000	0.000	4422.000
input	1	420.000	-19.517	0.000	400.483
input	2	6.000	-0.279	-0.046	5.675
input	3	11.210	-0.521	-0.087	10.602
input	4	21.700	-1.008	0.000	20.692
input	5	4.700	-0.218	-0.087	4.394
input	6	30.000	-1.394	-6.366	22.240
input	7	622.000	-28.904	0.000	593.096

LISTING OF PEERS:

peer	lambda	weight
20	0.055	
10	0.047	
11	0.410	
22	0.488	

Results for firm: 20

Technical efficiency = 1.000

Scale efficiency = 0.963 (drs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	4338.000	0.000	0.000	4338.000
input	1	464.000	0.000	0.000	464.000
input	2	5.800	0.000	0.000	5.800
input	3	9.770	0.000	0.000	9.770
input	4	18.900	0.000	0.000	18.900
input	5	4.100	0.000	0.000	4.100
input	6	29.990	0.000	0.000	29.990
input	7	822.000	0.000	0.000	822.000

LISTING OF PEERS:

peer	lambda	weight
20	1.000	

Results for firm: 21

Technical efficiency = 0.960

Scale efficiency = 0.983 (drs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	5194.000	0.000	0.000	5194.000
input	1	560.000	-22.435	-37.016	500.549

input	2	7.000	-0.280	0.000	6.720
input	3	12.960	-0.519	0.000	12.441
input	4	25.200	-1.010	0.000	24.190
input	5	5.400	-0.216	0.000	5.184
input	6	35.980	-1.441	-11.260	23.279
input	7	858.000	-34.374	0.000	823.626

LISTING OF PEERS:

peer	lambda	weight
20	0.372	
11	0.241	
10	0.128	
14	0.088	
22	0.171	

Results for firm: 22

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	2502.000	0.000	0.000	2502.000
input	1	224.000	0.000	0.000	224.000
input	2	3.200	0.000	0.000	3.200
input	3	5.350	0.000	0.000	5.350
input	4	10.500	0.000	0.000	10.500
input	5	2.200	0.000	0.000	2.200
input	6	16.000	0.000	0.000	16.000
input	7	454.000	0.000	0.000	454.000

LISTING OF PEERS:

peer	lambda	weight
22	1.000	

Results for firm: 23

Technical efficiency = 0.952

Scale efficiency = 0.998 (irs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	3158.000	0.000	0.000	3158.000
input	1	336.000	-16.225	-22.410	297.364
input	2	4.200	-0.203	0.000	3.997
input	3	7.920	-0.382	-0.033	7.505
input	4	15.400	-0.744	0.000	14.656

input	5	3.300	-0.159	-0.033	3.108
input	6	22.010	-1.063	-3.229	17.718
input	7	599.000	-28.926	-28.353	541.721

LISTING OF PEERS:

peer	lambda	weight
7	0.086	
22	0.700	
36	0.214	

Results for firm: 24

Technical efficiency = 1.000

Scale efficiency = 0.954 (drs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	9375.000	0.000	0.000	9375.000
input	1	1000.000	0.000	0.000	1000.000
input	2	12.500	0.000	0.000	12.500
input	3	24.890	0.000	0.000	24.890
input	4	48.300	0.000	0.000	48.300
input	5	10.400	0.000	0.000	10.400
input	6	62.000	0.000	0.000	62.000
input	7	1202.000	0.000	0.000	1202.000

LISTING OF PEERS:

peer	lambda	weight
24	1.000	

Results for firm: 25

Technical efficiency = 0.971

Scale efficiency = 0.998 (irs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	3465.000	0.000	0.000	3465.000
input	1	360.000	-10.289	-14.384	335.328
input	2	4.500	-0.129	0.000	4.371
input	3	8.950	-0.256	-0.022	8.672
input	4	17.500	-0.500	-0.073	16.927
input	5	3.700	-0.106	0.000	3.594
input	6	22.010	-0.629	-7.119	14.262
input	7	558.000	-15.947	0.000	542.053

LISTING OF PEERS:

peer	lambda	weight
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7 0.060
 22 0.449
 14 0.091
 12 0.399

Results for firm: 26

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	3782.000	0.000	0.000	3782.000
input	1	336.000	0.000	0.000	336.000
input	2	4.800	0.000	0.000	4.800
input	3	9.670	0.000	0.000	9.670
input	4	18.900	0.000	0.000	18.900
input	5	4.000	0.000	0.000	4.000
input	6	24.000	0.000	0.000	24.000
input	7	681.000	0.000	0.000	681.000

LISTING OF PEERS:

peer	lambda	weight
26	1.000	

Results for firm: 27

Technical efficiency = 0.963

Scale efficiency = 0.993 (drs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	6918.000	0.000	0.000	6918.000
input	1	644.000	-23.592	0.000	620.408
input	2	9.200	-0.337	-0.039	8.824
input	3	19.850	-0.727	-1.938	17.185
input	4	38.500	-1.410	-3.678	33.412
input	5	8.300	-0.304	-0.834	7.162
input	6	46.000	-1.685	-24.739	19.576
input	7	1115.000	-40.846	0.000	1074.154

LISTING OF PEERS:

peer	lambda	weight
11	0.450	
10	0.529	
7	0.021	

Results for firm: 28

Technical efficiency = 0.936

Scale efficiency = 0.997 (drs)

PROJECTION SUMMARY:

variable		original value	radial movement	slack movement	projected value
output	1	5226.000	0.000	0.000	5226.000
input	1	497.000	-31.593	0.000	465.407
input	2	7.100	-0.451	0.000	6.649
input	3	15.120	-0.961	-0.634	13.525
input	4	29.400	-1.869	-1.311	26.220
input	5	6.300	-0.400	-0.241	5.659
input	6	36.000	-2.288	-13.904	19.807
input	7	990.000	-62.932	0.000	927.068

LISTING OF PEERS:

peer	lambda	weight
31	0.557	
11	0.100	
10	0.343	

Results for firm: 29

Technical efficiency = 0.952

Scale efficiency = 0.997 (irs)

PROJECTION SUMMARY:

variable		original value	radial movement	slack movement	projected value
output	1	3259.000	0.000	0.000	3259.000
input	1	344.000	-16.381	-8.809	318.810
input	2	4.300	-0.205	0.000	4.095
input	3	8.950	-0.426	-0.077	8.447
input	4	17.500	-0.833	-0.257	16.410
input	5	3.700	-0.176	0.000	3.524
input	6	22.020	-1.049	-2.961	18.010
input	7	538.000	-25.619	-0.273	512.108

LISTING OF PEERS:

peer	lambda	weight
22	0.275	
36	0.624	
7	0.101	

Results for firm: 30

Technical efficiency = 0.983

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	3842.000	0.000	0.000	3842.000
input	1	392.000	-6.537	0.000	385.463
input	2	4.900	-0.082	0.000	4.818
input	3	10.490	-0.175	-0.041	10.274
input	4	20.300	-0.339	0.000	19.961
input	5	4.400	-0.073	-0.041	4.286
input	6	24.010	-0.400	-10.007	13.603
input	7	560.000	-9.338	0.000	550.662

LISTING OF PEERS:

peer	lambda	weight
36	0.434	
14	0.197	
12	0.331	
7	0.038	

Results for firm: 31

Technical efficiency = 1.000

Scale efficiency = 0.999 (drs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	3782.000	0.000	0.000	3782.000
input	1	336.000	0.000	0.000	336.000
input	2	4.800	0.000	0.000	4.800
input	3	10.490	0.000	0.000	10.490
input	4	20.300	0.000	0.000	20.300
input	5	4.400	0.000	0.000	4.400
input	6	24.000	0.000	0.000	24.000
input	7	675.000	0.000	0.000	675.000

LISTING OF PEERS:

peer	lambda	weight
31	1.000	

Results for firm: 32

Technical efficiency = 0.960

Scale efficiency = 0.968 (irs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value

output	1	2559.000	0.000	0.000	2559.000
input	1	245.000	-9.862	0.000	235.138
input	2	3.500	-0.141	-0.099	3.260
input	3	7.610	-0.306	-1.423	5.881
input	4	14.700	-0.592	-2.597	11.511
input	5	3.200	-0.129	-0.644	2.428
input	6	17.990	-0.724	-2.397	14.868
input	7	442.000	-17.793	0.000	424.207

LISTING OF PEERS:

peer	lambda	weight
11	0.012	
12	0.217	
22	0.771	

Results for firm: 33

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	2604.000	0.000	0.000	2604.000
input	1	231.000	0.000	0.000	231.000
input	2	3.300	0.000	0.000	3.300
input	3	7.200	0.000	0.000	7.200
input	4	14.000	0.000	0.000	14.000
input	5	3.000	0.000	0.000	3.000
input	6	16.010	0.000	0.000	16.010
input	7	471.000	0.000	0.000	471.000

LISTING OF PEERS:

peer	lambda	weight
33	1.000	

Results for firm: 34

Technical efficiency = 0.942

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	2898.000	0.000	0.000	2898.000
input	1	273.000	-15.758	0.000	257.242
input	2	3.900	-0.225	0.000	3.675
input	3	8.640	-0.499	-0.132	8.009
input	4	16.800	-0.970	-0.279	15.552

input	5	3.600	-0.208	-0.049	3.343
input	6	20.010	-1.155	-0.938	17.917
input	7	550.000	-31.746	0.000	518.254

LISTING OF PEERS:

peer	lambda	weight
33	0.767	
31	0.226	
11	0.007	

Results for firm: 35

Technical efficiency = 1.000

Scale efficiency = 0.993 (irs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	2968.000	0.000	0.000	2968.000
input	1	266.000	-0.028	0.000	265.972
input	2	3.800	0.000	-0.001	3.798
input	3	8.330	-0.001	-1.681	6.648
input	4	16.100	-0.002	-3.075	13.023
input	5	3.500	0.000	-0.759	2.741
input	6	19.990	-0.002	-2.331	17.657
input	7	475.000	-0.049	0.000	474.951

LISTING OF PEERS:

peer	lambda	weight
11	0.120	
12	0.003	
22	0.877	

Results for firm: 36

Technical efficiency = 1.000

Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable		original	radial	slack	projected
		value	movement	movement	value
output	1	2474.000	0.000	0.000	2474.000
input	1	248.000	0.000	0.000	248.000
input	2	3.100	0.000	0.000	3.100
input	3	6.890	0.000	0.000	6.890
input	4	13.300	0.000	0.000	13.300
input	5	2.900	0.000	0.000	2.900
input	6	16.000	0.000	0.000	16.000
input	7	335.000	0.000	0.000	335.000

LISTING OF PEERS:

peer	lambda	weight
36	1.000	