

Appendix A

1990 Input-Output Table (30 x 30)

	1	2	3	4	5	6	7	8	9	10
	Oth Agr	Rubber	Oil Palm	Forestry	Fishing	Mining	Oil & Fat	Food	Bev & Tob	Tex & Wr
1 Oth Agr	611000	21000	130000	0	0	0	41000	3809000	310000	2000
2 Rubber	0	1000	0	0	0	0	0	0	0	0
3 Oil Palm	70000	0	2000	0	0	0	2938000	162000	0	0
4 Forestry	1000	0	5000	9000	0	1000	0	2000	0	0
5 Fishing	27000	0	0	0	4000	0	0	110000	0	0
6 Mining	1000	0	3000	1000	0	15000	4000	1000	0	0
7 Oil & Fat	146000	1000	9000	0	0	8000	2774000	394000	2000	3000
8 Food	1486000	2000	11000	1000	42000	8000	6000	993000	140000	19000
9 Bev & Tob	1000	0	2000	0	0	0	0	3000	162000	2000
10 Tex & Wr	8000	0	3000	3000	6000	4000	1000	21000	2000	1423000
11 Wood	21000	4000	15000	24000	0	29000	2000	58000	43000	49000
12 Chem	463000	80000	718000	3000	1000	45000	12000	54000	6000	70000
13 Petrol	12000	5000	20000	55000	25000	59000	6000	61000	7000	28000
14 RubPro	2000	2000	3000	14000	0	6000	0	1000	0	6000
15 Non Met	4000	1000	17000	1000	0	1000	5000	23000	27000	5000
16 Metal	1000	4000	10000	2000	0	42000	11000	75000	29000	8000
17 Non Elec	4000	4000	15000	0	0	42000	2000	20000	4000	14000
18 Elec	4000	4000	13000	1000	0	44000	2000	18000	3000	13000
19 Motveh	9000	6000	23000	17000	371000	80000	7000	34000	7000	26000
20 Oth Manf	9000	1000	16000	0	0	4000	1000	6000	2000	74000
21 Electy	13000	12000	30000	2000	0	80000	11000	71000	13000	101000
22 Water	10000	1000	3000	0	0	1000	3000	10000	3000	10000
23 Cons	19000	6000	17000	3000	0	27000	0	2000	1000	1000
24 Trade	142000	12000	93000	89000	21000	81000	31000	223000	53000	204000
25 Rr & Comm	61000	18000	53000	26000	3000	281000	74000	195000	56000	66000
26 Hotel	2000	3000	8000	14000	0	9000	2000	11000	3000	13000
27 Business	29000	7000	29000	252000	0	205000	18000	142000	57000	122000
28 Prof	1000	0	0	16000	0	7000	1000	8000	3000	4000
29 Pers	2000	2000	5000	28000	0	27000	0	0	0	0
30 Govt	1000	0	0	1000	0	3000	1000	6000	1000	6000
TOT ID	3160000	197000	1253000	562000	473000	1109000	5953000	6513000	934000	2269000
DOM SERV	0	0	0	0	0	0	0	0	0	0
IMPORT	720260.4258	71413.1644	371202.5987	504395.6728	165495.4876	586783.4518	867110.9254	3266726.045	567085.0297	2681334.395
DIRPURABR	0	0	0	0	0	0	0	0	0	0
IMPORT TAX	34258.08832	5886.474507	23018.49399	35292.4176	36038.79128	19376.98584	19924.30247	69470.87848	161174.3854	184621.2448
DOM TAX	6277.013466	3234.00907	13111.73881	34823.02685	20995.02775	37915.58479	17129.24568	34063.72876	8787.791116	29628.74005
VA	5210640.119	3294642.511	3591656.737	5163927.223	1911313.86	13817625.98	1544932.882	1953558.348	1248354.794	2621438.62
TOTAL INP	9131435.647	3571976.159	5251989.569	6300438.340	2608844.167	15570702	8402097.356	11836819	2919402	7786023

NOTE : VALUE IN THOUSAND

SOURCE : Yap (1998)

Appendix A

1990 Input-Output Table (30 x 30)

	11	12	13	14	15	16	17	18	19	20
	Wood	Chem	Petror	RubPro	Non Met	Metal	Non Elec	Elec	Motveh	Oth Mnf
1 Oth Agr	0	5000	0	0	0	0	0	0	0	0
2 Rubber	24000	0	0	2607000	0	0	0	0	0	0
3 Oil Palm	5000	600000	0	0	0	0	0	0	0	0
4 Forestry	1722000	3000	1000	1000	19000	3000	0	10000	0	2000
5 Fishing	0	0	0	0	0	0	0	0	0	0
6 Mining	1000	651000	2172000	2000	160000	782000	0	0	0	0
7 Oil & Fat	18000	144000	1000	4000	4000	3000	2000	7000	1000	4000
8 Food	19000	16000	3000	3000	5000	6000	3000	15000	3000	4000
9 Bev & Tob	2000	2000	0	1000	1000	1000	0	0	1000	1000
10 Tex & Wr	32000	3000	4000	12000	8000	4000	4000	39000	12000	42000
11 Wood	969000	32000	19000	17000	63000	32000	12000	189000	31000	48000
12 Chem	404000	633000	141000	67000	103000	87000	14000	262000	90000	71000
13 Petror	53000	31000	133000	16000	45000	23000	15000	231000	9000	45000
14 RubPro	10000	4000	2000	167000	4000	3000	2000	25000	192000	2000
15 Non Met	18000	11000	3000	4000	278000	14000	5000	50000	27000	15000
16 Metal	22000	20000	13000	16000	22000	638000	96000	112000	43000	40000
17 Non Elec	45000	6000	8000	10000	18000	20000	173000	31000	4000	4000
18 Elec	38000	6000	11000	8000	15000	19000	97000	589000	20000	6000
19 Motveh	65000	11000	13000	15000	41000	36000	23000	1005000	1005000	13000
20 Ota Mnf	19000	7000	8000	4000	4000	9000	6000	41000	8000	183000
21 Electy	129000	96000	54000	44000	209000	172000	26000	236000	30000	41000
22 Water	8000	11000	2000	3000	5000	13000	2000	19000	2000	3000
23 Cons	2000	1000	1000	0	1000	1000	1000	0	1000	1000
24 Trade	291000	85000	99000	94000	111000	311000	183000	1385000	269000	278000
25 Rr & Comm	327000	34000	37000	62000	130000	112000	46000	376000	57000	57000
26 Hotel	33000	7000	6000	6000	14000	19000	12000	35000	9000	10000
27 Business	266000	81000	62000	44000	106000	155000	72000	190000	87000	89000
28 Prof	9000	3000	2000	2000	5000	5000	3000	3000	4000	4000
29 Pers	1000	0	0	0	0	0	0	0	1000	0
30 Govt	10000	2000	2000	7000	3000	10000	3000	7000	3000	3000
TOT ID	4542000	1965000	2797000	3216000	1372000	2478000	800000	3955000	1909000	966000
DOM SERV	0	0	0	0	0	0	0	0	0	0
IMPORT	1399284.112	1169571.127	1616258.446	388826.8823	469569.9943	1731105.834	1001696.291	1640081.85	2796290.839	2069841.233
DIRPURABR	0	0	0	0	0	0	0	0	0	0
IMPORT TAX	81149.59859	31140.6344	43903.26054	14204.57199	21641.27611	65699.59776	34380.25149	602795.5015	258687.3238	41157.52454
DOM TAX	701463.3016	67196.34894	378975.4905	11354.35747	23091.85371	34334.40361	17802.30543	40073.42618	34073.18838	7393.692704
VA	3081621.203	3054752.748	1072733.256	1237403.188	1555829.847	1700421.151	610870.1525	6864077.223	2377761.757	1406002.55
TOTAL INP	9805518.215	6287660.858	5908870.453	4867789	3442132.971	6009560.986	2464749	27862028	7377813.108	4490395

NOTE : VALUE IN THOUNSAND

Appendix A

1990 Input-Output Table (30 x 30)

	21	22	23	24	25	26	27	28	29	30
	Electy	Water	Cons	Trade	Tr & Comm	Hotel	Business	Prof	Pers	Govt
1 Oth Agr	2000	0	0	0	0	354000	0	2000	0	116000
2 Rubber	0	0	0	0	0	0	0	0	0	0
3 Oil Palm	0	0	0	0	0	33000	0	0	0	16000
4 Forestry	0	0	10000	0	0	0	0	0	0	1000
5 Fishing	0	0	0	0	0	106000	0	0	0	10000
6 Mining	47000	0	546000	4000	5000	1000	2000	1000	0	2000
7 Oil & Fat	1000	0	7000	4000	3000	82000	3000	2000	0	40000
8 Food	5000	0	14000	88000	10000	598000	5000	12000	1000	267000
9 Bev & Tob	1000	0	0	0	3000	112000	0	2000	0	15000
10 Tex & Wr	3000	0	14000	6000	9000	16000	2000	3000	1000	78000
11 Wood	4000	1000	2071000	358000	54000	23000	149000	31000	6000	155000
12 Chem	364000	16000	483000	6000	15000	48000	3000	68000	29000	181000
13 Petrol	61000	3000	296000	208000	238000	10000	5000	7000	2000	55000
14 RubPro	1000	0	19000	25000	78000	1000	0	0	15000	12000
15 Non Met	0	0	2004000	1000	1000	1000	0	0	0	7000
16 Metal	1000	3000	1519000	20000	4000	3000	3000	1000	5000	12000
17 Non Elec	3000	0	124000	9000	13000	15000	10000	4000	2000	26000
18 Elec	6000	3000	485000	13000	38000	12000	10000	7000	6000	40000
19 Motveh	3000	0	132000	12000	328000	17000	18000	5000	143000	47000
20 Ota Manf	5000	8000	7000	17000	13000	3000	26000	27000	2000	108000
21 Electy	15000	68000	92000	220000	108000	223000	123000	46000	20000	328000
22 Water	1000	12000	18000	25000	9000	20000	23000	7000	4000	75000
23 Cons	38000	27000	57000	264000	50000	23000	473000	36000	3000	717000
24 Trade	84000	11000	1133000	179000	138000	122000	41000	40000	37000	146000
25 Rr & Comm	46000	7000	803000	1155000	859000	128000	406000	82000	12000	517000
26 Hotel	0	2000	155000	175000	169000	30000	162000	23000	2000	327000
27 Business	38000	8000	490000	854000	408000	173000	981000	191000	48000	731000
28 Prof	22000	1000	25000	31000	13000	4000	33000	126000	1000	41000
29 Pers	1000	1000	78000	18000	48000	23000	7000	6000	1000	106000
30 Govt	3000	0	82000	50000	10000	8000	38000	8000	2000	77000
TOT ID	755000	169000	10684000	3742000	2625000	2188000	2523000	735000	340000	4254000
DOM SERV	0	0	0	0	2.815985728	8416.694168	0	1334.55442	0	0
IMPORT	575592.7955	75627.40811	5095013.354	1153051.114	2168144.275	451742.3701	616765.3062	205481.6422	251416.0975	1062473.065
DIRPURABR	0	0	0	0	0	0	0	0	0	0
IMPORT TAX	31709.92746	4045.484001	278173.9238	73445.22446	58307.80048	91052.34252	20803.09372	10798.96269	28475.75737	63162.35457
DOM TAX	42276.50863	1965.63636	134926.6549	95098.44969	196124.958	67680.37812	14058.77135	18506.59399	4586.631369	49340.72881
VA	2662847.001	357235.4339	4711496.387	10813797.6	7452646.5	1816098.797	12137526.2	1780554.247	571041.6728	10658705.85
TOTAL INP	4067426.233	607873.9624	20884610.320	15877392.388	12500226.349	4623990.582	15312163.371	2751676	1195520.159	16087682

NOTE : VALUE IN THOUNSAND

1990 Input-Output Table (30 x 30)

Appendix A

	TOT ID	IMP BANK	G TOT ID	Prv	Govt	Changes In Stock	Inv	Export	Tot FD	Tot Use
1	Oth Agr	5403000	0	2986517.614	0	75059.55987	316865.4732	349993	3728435.647	9131435.647
2	Rubber	2632000	0	36.62508378	0	26152.69196	316048.842	597738	939876.159	3571976.159
3	Oil Palm	3286000	0	69543.07212	0	-12879.2636	752973.7605	1158352	1965989.569	5251989.569
4	Forestry	1790000	0	72379.12762	0	2805.212483	0	4435254	4510438.34	6300438.34
5	Fishing	257000	0	174086.156	0	1454.938513	492.0726524	607091	2349844.167	2606844.167
6	Mining	4401000	0	17444.37777	0	206316.3616	3840.280615	10841701	11169702	15570702
7	Oil & Fat	3667000	0	281484.47	0	-8367.72052	32093.60657	4429887	4735097.356	8402097.356
8	Food	3785000	0	5676731.931	0	-58352.0619	32016.1313	2401423	8051819	11836819
9	Bev & Tob	312000	0	2522382.259	0	-4686.2966	6020.037768	83666	2607402	2919402
10	Tex & Wr	1761000	0	1038954.898	0	1673.962333	69625.13942	4914769	6025023	7786023
11	Wood	4509000	0	998993.7471	0	-4988.43202	92046.90096	4210466	5296518.216	9805518.216
12	Chem	4535000	0	684764.8598	0	-6551.77981	39342.779	1035105	1752660.859	6287660.859
13	Petrol	1764000	0	2753050.221	0	-3693.90372	64007.13548	1301507	4114870.453	5878870.453
14	RubPro	596000	0	713955.644	0	100762.8815	16039.47454	3441029	4271788	4867788
15	Non Met	2523000	0	109534.4788	0	-7077.42703	56979.91922	759696	919132.971	3442132.971
16	Metal	2775000	0	136402.9587	0	-33025.5266	427018.5538	2704165	3234560.986	6009560.986
17	Non Elec	630000	0	152349.2017	0	8657.374852	536520.4234	1137222	1834749	2484749
18	Elec	1531000	0	640894.379	0	-112131.816	862783.4373	24939482	26331028	27862028
19	Motveh	2610000	0	1445943.976	0	-3144.41903	1372968.551	1952045	4767813.108	7377813.108
20	Ota Monf	618000	0	233491.2787	0	-6425.10864	66318.82998	3579010	3872395	4490395
21	Electy	2611000	0	1448536.395	0	997.782291	117.2598681	27775	1477426.233	4088426.233
22	Water	304000	0	283272.7295	21.97990539	-259.338313	6656.591327	14182	303873.9624	607873.9624
23	Cons	1773000	0	10549.61652	0	928.0283901	19082916.68	17216	19111610.32	20884610.32
24	Trade	5986000	0	5019693.852	0	2267.245426	2587012.293	2282419	9891392.39	15877392.39
25	Rr & Comm	6086000	0	240981.86	0	4089.041831	163974.4481	3816347	6414226.35	12500226.35
26	Hotel	1282000	0	3304280.026	0	-2332.06728	19297.62368	20745	3341990.582	4623990.582
27	Business	5933000	0	5595266.598	0	-42.3913131	1878.251784	498156	6095258.458	15312153.37
28	Proff	377000	3283894.912	2336046.572	0	-2962.78002	12132.20829	29460	2374676	2751676
29	Pers	356000	0	832480.1923	0	-855.734677	3136.701418	4759	839520.159	1195520.159
30	Govt	347000	0	137590.8854	15592978.02	-1015.52424	3268.618767	7860	15740682	16087682
	TOT ID	74440000	3283894.912	41484761	155933000	162393.2857	26964392	81696520	168069900.3	245793795.2
	DOM SERV	9754064574.0	0	338119	0	0	0	0	338119	347873.0646
	IMPORT	50501640.2	0	16040261	0	44049.03502	9796944	2101378	27982632.04	78484272.27
	DIRPURABR	0.0	0	-2427250	0	0	0	2155006	-272244	-272244
	IMPORT TAX	2444597.5	0	1485727	0	7530.85629	461423	0	1954680.856	4399278.33
	DOM TAX	2116289.6	0	2939548	0	17386.83584	267241	3440096	6664271.836	8780561.422
	VA	116281513.8	-3283894.912	0	0	0	0	0	0	112997618.9
	TOTAL INP	9999848615	0	59861166	155933000	231360.0126	37490000	89393000	204737360	450531155.2

NOTE : VALUE IN THOUSAND

Appendix B

Sectoral Coefficients

	1	2	3	4	5	6	7	8	9	10
	Oth Agr	Rubber	Oil Palm	Forestry	Fishing	Mining	Oil & Fat	Food	Bev & Tob	Tex & Wr
1 Oth Agr	0.066911713	0.0058791	0.02475252	0	0	0	0.004879734	0.321792536	0.1061861	0.000256871
2 Rubber	0.000000000	0.00028	0	0	0	0	0	0	0	0
3 Oil Palm	0.007665826	0	0.00038081	0	0	0	0.349674596	0.013686109	0	0
4 Forestry	0.000109512	0	0.00095202	0.0014285	0	0.000064223	0	0.000168964	0	0
5 Fishing	0.002956819	0	0	0	0.00153	0	0	0.009293037	0	0
6 Mining	0.000109512	0	0.00057121	0.0001587	0	0.000963348	0.000476072	0.000084482	0	0
7 Oil & Fat	0.015988724	0.00028	0.00171364	0	0	0.000513785	0.33015566	0.033285970	0.006851	0.000385306
8 Food	0.162734542	0.0005599	0.00209444	0.0001587	0.01611	0.000513785	0.000714107	0.083890782	0.047955	0.002440270
9 Bev & Tob	0.000109512	0	0.00038081	0	0	0	0	0.000253446	0.0554908	0.000256871
10 Tex & Wr	0.000876094	0	0.00057121	0.0004762	0.0023	0.000256893	0.000119018	0.001774125	0.006851	0.182763395
11 Wood	0.002299748	0.0011198	0.00285606	0.0038093	0	0.001862472	0.000238036	0.004899965	0.014729	0.006293328
12 Chem	0.050703966	0.0223966	0.1367101	0.0004762	0.00038	0.002890043	0.001428215	0.004562036	0.0020552	0.008990469
13 Petrol	0.001314142	0.0013998	0.00380808	0.0087296	0.00959	0.003789168	0.000714107	0.005153412	0.0023978	0.003596188
14 RubPrd	0.000219024	0.0005599	0.00057121	0.0022221	0	0.000385339	0	0.000084482	0	0.000770612
15 Non Met	0.000438047	0.00028	0.00323687	0.0001587	0	0.000064223	0.000595090	0.001943090	0.0092485	0.000642176
16 Metal	0.000109512	0.0011198	0.00190404	0.0003174	0	0.002697374	0.001309197	0.006336162	0.0099335	0.001027482
17 Non Elec	0.000438047	0.0011198	0.00285606	0	0	0.002697374	0.000238036	0.001689643	0.0013701	0.001798094
18 Elec	0.000438047	0.0011198	0.00247525	0.0001587	0	0.002825820	0.000238036	0.001520679	0.0010276	0.001669659
19 Motveh	0.000985606	0.0016797	0.00437929	0.0026982	0.14232	0.005137854	0.000833125	0.002872393	0.0023978	0.0033339317
20 Oth Monf	0.000985606	0.00028	0.00304647	0	0	0.000256893	0.000119018	0.000506893	0.0006851	0.009504210
21 Electy	0.001423653	0.0033595	0.00571212	0.0003174	0	0.005137854	0.001309197	0.005998233	0.004453	0.012971963
22 Water	0.001095118	0.00028	0.00057121	0	0	0.000064223	0.000357054	0.000844822	0.0010276	0.001284353
23 Cons	0.002080724	0.0016797	0.00323687	0.0004762	0	0.001734026	0	0.000168964	0.0003425	0.000128435
24 Trade	0.015550676	0.0033595	0.01770758	0.014126	0.00806	0.005202078	0.003689555	0.018839521	0.0181544	0.026200796
25 Rr & Comm	0.00668022	0.0050392	0.01009141	0.0041267	0.00115	0.018046714	0.008807325	0.016474021	0.019182	0.008476728
26 Hotel	0.000219024	0.0008399	0.00152323	0.0022221	0	0.000578009	0.000238036	0.000929304	0.0010276	0.001669659
27 Business	0.003175842	0.0019597	0.00552172	0.0399972	0	0.013165752	0.002142322	0.011996466	0.0195245	0.015669103
28 Profit	0.000109512	0	0	0.0025395	0	0.000449562	0.000119018	0.000675857	0.0010276	0.000513741
29 Pers	0.000219024	0.0005599	0.00095202	0.0044441	0	0.001734026	0	0	0	0
30 Govt	0.000109512	0	0	0.0001587	0	0.000192670	0.000119018	0.000506893	0.0003425	0.000770612

Appendix B

Sectoral Coefficients

	11	12	13	14	15	16	17	18	19	20
	Wood	Chem	Petrol	RubPrd	Non Met	Metal	Non Elec	Elec	MotVeh	Oth Mnfr
1 Oth Agr	0	0.0007952	0	0	0	0	0	0	0	0
2 Rubber	0.0024476	0	0	0.53556142	0	0	0	0	0	0
3 Oil Palm	0.0005099	0.0095425	0	0	0	0	0	0	0	0
4 Forestry	0.1756154	0.0004771	0.0001701	0.00020543	0.0055198	0.0004992	0	0.0003589	0	0.000445395
5 Fishing	0	0	0	0	0	0	0	0	0	0
6 Mining	0.000102	0.1035361	0.36945873	0.00041086	0.0464828	0.130126	0	0	0	0
7 Oil & Fat	0.0018357	0.022902	0.0001701	0.00082173	0.0011621	0.0004992	0.000811442	0.0002512	0.00013554	0.00089079
8 Food	0.0019377	0.0025447	0.0005103	0.0006163	0.0014526	0.0009984	0.001217162	0.0005384	0.00040663	0.00089079
9 Bev & Tob	0.000204	0.0003181	0	0.00020543	0.0002905	0.0001664	0	0	0.00013554	0.000222698
10 Tex & Wr	0.0032635	0.0004771	0.0006804	0.00246519	0.0017431	0.0006656	0.001622883	0.0013998	0.0016265	0.009353297
11 Wood	0.0988219	0.0050893	0.00323191	0.00349235	0.0183026	0.0053248	0.00486865	0.0067834	0.00420179	0.010689483
12 Chem	0.0412013	0.1006734	0.0239842	0.01376395	0.0299233	0.0144769	0.005680092	0.0094035	0.01219874	0.015811527
13 Petrol	0.0054051	0.0049303	0.02262339	0.00328691	0.0130733	0.0038272	0.006085812	0.0082909	0.00121987	0.01002139
14 RubPrd	0.0010198	0.0006362	0.0003402	0.03430716	0.0011621	0.0004992	0.000811442	0.0008973	0.02602397	0.000445395
15 Non Met	0.0018357	0.0017495	0.0005103	0.00082173	0.0807639	0.0023296	0.002028604	0.0017946	0.00365962	0.003340463
16 Metal	0.0022436	0.0031808	0.00221131	0.00328691	0.0063914	0.1061642	0.038949199	0.0040198	0.00582829	0.008907902
17 Non Elec	0.0045893	0.0009543	0.00136081	0.00205432	0.0052293	0.003328	0.03935492	0.0211399	0.00054217	0.00089079
18 Elec	0.0038754	0.0009543	0.00187111	0.00164346	0.0043578	0.0031616	0.070189703	0.0011126	0.00271083	0.001336185
19 MotVeh	0.0066289	0.0017495	0.00221131	0.00308148	0.0119112	0.0059905	0.009331579	0.0036968	0.13621923	0.002895068
20 Oth Mnfr	0.0019377	0.0011133	0.00136081	0.00082173	0.0011621	0.0014976	0.002434325	0.0014715	0.00108433	0.040753653
21 Electy	0.0131559	0.015268	0.00918544	0.00903901	0.0607182	0.0286211	0.010548741	0.0084703	0.00406625	0.0091306
22 Water	0.0008159	0.0017495	0.0003402	0.0006163	0.0014526	0.0021632	0.000811442	0.0006819	0.00027108	0.000668093
23 Cons	0.000204	0.000159	0.0001701	0	0.0002905	0.0001664	0.000405721	0	0.00013554	0.000222698
24 Trade	0.0296772	0.0135185	0.01683997	0.01931062	0.0322474	0.0517509	0.074246911	0.0497092	0.03646067	0.061909921
25 Rr & Comm	0.0333486	0.0054074	0.00629373	0.01273679	0.0377673	0.018637	0.018663158	0.0134951	0.00772587	0.012693761
26 Hotel	0.0033655	0.0011133	0.0010206	0.00123259	0.0040672	0.0031616	0.00486865	0.0012562	0.00121987	0.002226976
27 Business	0.0271276	0.0128824	0.01054624	0.00903901	0.0307949	0.0257922	0.029211899	0.0068193	0.01179211	0.019820083
28 Proff	0.0009179	0.0004771	0.0003402	0.00041086	0.0014526	0.000832	0.001217162	0.0001077	0.00054217	0.00089079
29 Pers	0.000102	0	0	0	0	0	0	0	0.00013554	0
30 Govt	0.0010198	0.0003181	0.0003402	0.00143803	0.0008716	0.001664	0.001217162	0.0002512	0.00040663	0.000668093

Appendix B

Sectoral coefficients

	21	22	23	24	25	26	27	28	29	30
	Electy	Water	Cons	Trade	Tr & Comm	Hotel	Busines	Profit	Pers	Govt
1 Oth Agr	0.0048919	0	0	0	0	0.076557249	0	0.00072683	0	0.007210486
2 Rubber	0	0	0	0	0	0	0	0	0	0
3 Oil Palm	0	0	0	0	0	0.007136693	0	0	0	0.00099455
4 Forestry	0	0	0.0004788210	0	0	0	0	0	0	6.21594E-05
5 Fishing	0	0	0.0000000000	0	0	0.022823922	0	0	0	0.000621594
6 Mining	0.01149587	0	0.0261436530	0.0002519310	0.0003999893	0.000216263	0.000130615	0.00036342	0	0.000124319
7 Oil & Fat	0.00024459	0	0.0003351750	0.0002519310	0.0002239986	0.0177336	0.000195923	0.00072683	0	0.002486374
8 Food	0.00122296	0	0.0006703500	0.0055424720	0.000799986	0.129325523	0.000326538	0.00436098	0.000836456	0.016596549
9 Bev & Tob	0.00024459	0	0.0000000000	0.0000000000	0.000239996	0.024221503	0	0.00072683	0	0.000932239
10 Tex & Wr	0.00073378	0	0.0006703500	0.0003778960	0.000719987	0.003460215	0.000130615	0.00109025	0.000836456	0.00484843
11 Wood	0.00097837	0.00164508	0.0991639280	0.0225477830	0.004319922	0.004974059	0.009730833	0.01126586	0.005018736	0.009634701
12 Chem	0.08903181	0.02632125	0.0231237077	0.0003778960	0.001199978	0.010380644	0.000195923	0.02398538	0.024257224	0.011250844
13 Petrol	0.01492017	0.00493523	0.0141731160	0.0131003880	0.010903966	0.002162634	0.000326538	0.0025439	0.001672912	0.003418765
14 RubPrd	0.00024459	0	0.0009097610	0.0015745660	0.006239887	0.000216263	0	0	0.01254684	0.000745912
15 Non Met	0	0	0.095958240	0.0000629830	0.000079999	0.000216263	0	0	0	0.000435116
16 Metal	0.00024459	0.00493523	0.0727329830	0.0012596530	0.000319994	0.00064879	0.000195923	0.00036342	0.00418228	0.000745912
17 Non Elec	0.00073378	0	0.0059373860	0.0005668440	0.001039981	0.003243951	0.000653076	0.00145366	0.001672912	0.001616143
18 Elec	0.00146756	0.00493523	0.0232228420	0.0008187740	0.003039945	0.002595161	0.000653076	0.0025439	0.005018736	0.002486374
19 Motveh	0.00073378	0	0.0063204440	0.0007557920	0.026239525	0.003676478	0.001175537	0.00181707	0.119613207	0.00292149
20 Oth Mnf	0.00122296	0.01313606	0.0003351750	0.0010707050	0.001039981	0.00064879	0.001697998	0.0098122	0.001672912	0.006713211
21 Electy	0.00366889	0.10857514	0.0044051580	0.01385618	0.008639844	0.048226742	0.008032835	0.01671708	0.01672912	0.02038827
22 Water	0.00024459	0.01974093	0.0008618790	0.001574566	0.000719987	0.004325266	0.001502075	0.0025439	0.003345824	0.004724111
23 Cons	0.00929453	0.0444171	0.0027279282	0.016627415	0.003999928	0.004974059	0.030890495	0.01308294	0.002509368	0.04456826
24 Trade	0.0205458	0.01809586	0.0542504740	0.011273892	0.0110398	0.026384137	0.002677612	0.0145366	0.030948872	0.009075286
25 Rr & Comm	0.01125127	0.01151555	0.0384493650	0.072744943	0.068718756	0.027681717	0.026514886	0.02980002	0.010037472	0.032136389
26 Hotel	0.00513645	0.00329016	0.0074217330	0.011021961	0.013519755	0.006487902	0.010579831	0.00835854	0.001672912	0.02032611
27 Business	0.00929453	0.01316062	0.0234622520	0.05378717	0.032639409	0.037413571	0.064066756	0.06941224	0.038476976	0.045438491
28 Profit	0.00538104	0.00164508	0.0011970540	0.001952462	0.001039981	0.000865054	0.002155151	0.04579028	0.000836456	0.002548534
29 Pers	0.00024459	0.00164508	0.0037374808	0.001133687	0.003919929	0.004974059	0.000457153	0.00218049	0.000836456	0.006588892
30 Govt	0.00073378	0	0.0039263360	0.003149132	0.000799986	0.001730107	0.002481689	0.00290732	0.001672912	0.004786271

Appendix C

A MATRIX

	1	2	3	4	5	6	7	8	9	10
	Oth Agr	Rubber	Oil Palm	Forestry	Fishing	Mining	Oil & Fat	Food	Bev & Tob	Tex & Wr
1 Oth Agr	0.066911713	0.0058791	0.02475252	0	0	0	0.004879734	0.321792536	0.1061861	0.000256871
2 Rubber	0.000000000	0.00028	0	0	0	0	0	0	0	0
3 Oil Palm	0.007665826	0	0.00038081	0	0	0	0.349674596	0.013686109	0	0
4 Forestry	0.000109512	0	0.00095202	0.0014285	0	0.000064223	0	0.000168964	0	0
5 Fishing	0.002956819	0	0	0	0.00153	0	0	0.009293037	0	0
6 Mining	0.000109512	0	0.00057121	0.0001587	0	0.000963348	0.000476072	0.000084482	0	0
7 Oil & Fat	0.015988724	0.00028	0.00171364	0	0	0.000513785	0.33015566	0.033285970	0.006851	0.000385306
8 Food	0.162734542	0.0005599	0.00209444	0.0001587	0.01611	0.000513785	0.000714107	0.083890782	0.047955	0.002440270
9 Bev & Tob	0.000109512	0	0.00038081	0	0	0	0	0.000253446	0.0554908	0.000256871
10 Tex & Wr	0.000876094	0	0.00057121	0.0004762	0.0023	0.000256893	0.000119018	0.001774125	0.0006851	0.182763395
11 Wood	0.002299748	0.0011198	0.00285606	0.0038093	0	0.001862472	0.000238036	0.004899965	0.014729	0.006293328
12 Chem	0.050703966	0.0223966	0.1367101	0.0004762	0.00038	0.002890043	0.001428215	0.004562036	0.0020552	0.008990469
13 Petrol	0.001314142	0.0013998	0.00380808	0.0087296	0.00959	0.003789168	0.000714107	0.005153412	0.0023978	0.003596188
14 RubPrd	0.000219024	0.0005599	0.00057121	0.0022221	0	0.000385339	0	0.000084482	0	0.000770612
15 Non Met	0.000438047	0.00028	0.00323687	0.0001587	0	0.000064223	0.000595090	0.001943090	0.0092485	0.000642176
16 Metal	0.000109512	0.0011198	0.00190404	0.0003174	0	0.002697374	0.001309197	0.006336162	0.0099335	0.001027482
17 Non Elec	0.000438047	0.0011198	0.00285606	0	0	0.002697374	0.000238036	0.001689643	0.0013701	0.001798094
18 Elec	0.000438047	0.0011198	0.00247525	0.0001587	0	0.002825820	0.000238036	0.001520679	0.0010276	0.001669659
19 Motveh	0.000985606	0.0016797	0.00437929	0.0026982	0.14232	0.005137854	0.000833125	0.002872393	0.0023978	0.003339317
20 Oth Mnf	0.000985606	0.00028	0.00304647	0	0	0.000256893	0.000119018	0.000506893	0.0006851	0.009504210
21 Elec	0.001423653	0.0033595	0.00571212	0.0003174	0	0.005137854	0.001309197	0.005998233	0.004453	0.012971963
22 Water	0.001095118	0.00028	0.00057121	0	0	0.000064223	0.000357054	0.000844822	0.0010276	0.001284353
23 Cons	0.002080724	0.0016797	0.00323687	0.0004762	0	0.001734026	0	0.000168964	0.0003425	0.000128435
24 Trade	0.015550676	0.0033595	0.01770758	0.014126	0.00806	0.005202078	0.003689555	0.018839521	0.0181544	0.026200796
25 Rr & Comm	0.00668022	0.0050392	0.01009141	0.0041267	0.00115	0.018046714	0.008807325	0.016474021	0.019182	0.008476728
26 Hotel	0.000219024	0.0008399	0.00152323	0.0022221	0	0.000578009	0.000238036	0.000929304	0.0010276	0.001669659
27 Business	0.003175842	0.0019597	0.00552172	0.0399972	0	0.013165752	0.002142322	0.011996466	0.0195245	0.015669103
28 Proff	0.000109512	0	0	0.0025395	0	0.000449562	0.000119018	0.000675857	0.0010276	0.000513741
29 Pers	0.000219024	0.0005599	0.00095202	0.0044441	0	0.001734026	0	0	0	0
30 Govt	0.000109512	0	0	0.0001587	0	0.000192670	0.000119018	0.000506893	0.0003425	0.000770612

Appendix C

A MATRIX

	11	12	13	14	15	16	17	18	19	20
	Wood	Chem	Petrol	RubPrd	Non Met	Metal	Non Elec	Elec	Motveh	Oth Mnfr
1 Oth Agr	0	0.0007952	0	0	0	0	0	0	0	0
2 Rubber	0.0024476	0	0	0.53556142	0	0	0	0	0	0
3 Oil Palm	0.0005099	0.0095425	0	0	0	0	0	0	0	0
4 Forestry	0.1756154	0.0004771	0.0001701	0.00020543	0.0055198	0.0004992	0	0.0003589	0	0.000445395
5 Fishing	0	0	0	0	0	0	0	0	0	0
6 Mining	0.000102	0.1035361	0.36945873	0.00041086	0.0464828	0.130126	0	0	0	0
7 Oil & Fat	0.0018357	0.022902	0.0001701	0.00082173	0.0011621	0.0004992	0.000811442	0.0002512	0.00013554	0.00089079
8 Food	0.0019377	0.0025447	0.0005103	0.0006163	0.0014526	0.0009984	0.001217162	0.0005384	0.00040663	0.00089079
9 Bev & Tob	0.000204	0.0003181	0	0.00020543	0.0002905	0.0001664	0	0	0.00013554	0.000222698
10 Tex & Wr	0.0032635	0.0004771	0.0006804	0.00246519	0.0017431	0.0006656	0.001622883	0.0013998	0.0016265	0.009353297
11 Wood	0.0988219	0.0050893	0.00323191	0.00349235	0.0183026	0.0053248	0.00486865	0.0067834	0.00420179	0.010689483
12 Chem	0.0412013	0.1006734	0.0239842	0.01376395	0.0299233	0.0144769	0.005680092	0.0094035	0.01219874	0.015811527
13 Petrol	0.0054051	0.0049303	0.02262339	0.00328691	0.0130733	0.0038272	0.006085812	0.0082909	0.00121987	0.01002139
14 RubPrd	0.0010198	0.0006362	0.0003402	0.03430716	0.0011621	0.0004992	0.000811442	0.0008973	0.02602397	0.000445395
15 Non Met	0.0018357	0.0017495	0.0005103	0.00082173	0.0807639	0.0023296	0.002028604	0.0017946	0.00365962	0.003340463
16 Metal	0.0022436	0.0031808	0.00221131	0.00328691	0.0063914	0.1061842	0.038949199	0.0040198	0.00582829	0.008907902
17 Non Elec	0.0045893	0.0009543	0.00136081	0.00205432	0.0052293	0.003328	0.070189703	0.0011126	0.00054217	0.00089079
18 Elec	0.0038754	0.0009543	0.00187111	0.00164346	0.0043578	0.0031616	0.03935492	0.0211399	0.00271083	0.001336185
19 Motveh	0.0066289	0.0017495	0.00221131	0.00308148	0.0119112	0.0059905	0.009331579	0.0036968	0.13621923	0.002895068
20 Oth Mnfr	0.0019377	0.0011133	0.00136081	0.00082173	0.0011621	0.0014976	0.002434325	0.0014715	0.00108433	0.040753653
21 Electy	0.0131559	0.015268	0.00918544	0.00903901	0.0607182	0.0286211	0.010548741	0.0084703	0.00406625	0.0091306
22 Water	0.0008159	0.0017495	0.0003402	0.0006163	0.0014526	0.0021632	0.000811442	0.0006819	0.00027108	0.000668093
23 Cons	0.000204	0.000159	0.0001701	0	0.0002905	0.0001664	0.000405721	0	0.00013554	0.000222698
24 Trade	0.0296772	0.0135185	0.01683997	0.01931062	0.0322474	0.0517509	0.074246911	0.0497092	0.03646067	0.061909921
25 Rr & Comm	0.0333486	0.0054074	0.00629373	0.01273679	0.0377673	0.018637	0.018663158	0.0134951	0.00772587	0.012693761
26 Hotel	0.0033655	0.0011133	0.0010206	0.00123259	0.0040672	0.0031616	0.00486865	0.0012562	0.00121987	0.002226976
27 Business	0.0271276	0.0128824	0.01054624	0.00903901	0.0307949	0.0257922	0.029211899	0.0068193	0.01179211	0.019820083
28 Proft	0.0009179	0.0004771	0.0003402	0.00041086	0.0014526	0.000832	0.001217162	0.0001077	0.00054217	0.00089079
29 Pers	0.000102	0	0	0	0	0	0	0	0.00013554	0
30 Govt	0.0010198	0.0003181	0.0003402	0.00143803	0.0008716	0.001664	0.001217162	0.0002512	0.00040663	0.000668093

A MATRIX

	21	22	23	24	25	26	27	28	29	30
	Electy	Water	Cons	Trade	Tr & Comm	Hotel	Busines	Profit	Pers	Govt
1 Oth Agr	0.00048919	0	0	0	0	0.076557249	0	0.00072683	0	0.007210486
2 Rubber	0	0	0	0	0	0	0	0	0	0
3 Oil Palm	0	0	0	0	0	0.007136693	0	0	0	0.00099455
4 Forestry	0	0	0.0004788210	0	0	0	0	0	0	6.21594E-05
5 Fishing	0	0	0.0000000000	0	0	0.022823922	0	0	0	0.000621594
6 Mining	0.01149587	0	0.0261436530	0.0002519310	0.000399983	0.000216263	0.000130615	0.00036342	0	0.000124319
7 Oil & Fat	0.00024459	0	0.0003351750	0.0002519310	0.000239986	0.0177336	0.000195923	0.00072683	0	0.002486374
8 Food	0.00122296	0	0.0006703500	0.0055424720	0.000799986	0.129325523	0.000326538	0.00436098	0.000836456	0.018596549
9 Bev & Tob	0.00024459	0	0.0000000000	0.0000000000	0.000239986	0.024221503	0	0.00072683	0	0.00093239
10 Tex & Wf	0.00073378	0	0.0006703500	0.0003778960	0.000719887	0.003460215	0.000130615	0.00109025	0.000836456	0.00484843
11 Wood	0.00097837	0.00164508	0.0991639280	0.0225477830	0.004319922	0.004974059	0.009730833	0.01126586	0.005018736	0.009634701
12 Chem	0.08903181	0.02632125	0.0231237077	0.0003778960	0.001198978	0.010380644	0.000195923	0.02398538	0.024257224	0.011250844
13 Petror	0.01492017	0.00493523	0.0141731160	0.0131003880	0.010903966	0.002162634	0.000326538	0.0025439	0.001672912	0.003418765
14 RubPrd	0.00024459	0	0.0009097610	0.0015745660	0.006239887	0.000216263	0	0	0.01254684	0.000745912
15 Non Met	0	0	0.0959558240	0.0000629830	0.000079989	0.000216263	0	0	0	0.000435116
16 Metal	0.00024459	0.00493523	0.0727329830	0.0012596530	0.000319994	0.00064879	0.000195923	0.00036342	0.00418228	0.000745912
17 Non Elec	0.00073378	0	0.0059373860	0.0005668440	0.001039981	0.003243951	0.000653076	0.00145366	0.001672912	0.001616143
18 Elec	0.00146756	0.00493523	0.0232228420	0.0008187740	0.003039945	0.002595161	0.000653076	0.0025439	0.005018736	0.002486374
19 Motveh	0.00073378	0	0.0063204440	0.0007557920	0.026239525	0.003676478	0.001175537	0.00181707	0.119613207	0.00292149
20 Oth Mnf	0.00122296	0.01313606	0.0003351750	0.0010707050	0.001039981	0.00064879	0.001697988	0.0098122	0.001672912	0.006713211
21 Electy	0.00366889	0.10857514	0.0044051580	0.01385618	0.008639844	0.048226742	0.008032835	0.01671708	0.01672912	0.02038827
22 Water	0.00024459	0.01974093	0.0008618790	0.001574566	0.000719987	0.004325268	0.001502075	0.0025439	0.003345824	0.004724111
23 Cons	0.00929453	0.0444171	0.0027279282	0.016627415	0.003999928	0.004974059	0.030890495	0.01308294	0.002509368	0.04456826
24 Trade	0.0205458	0.01809586	0.0542504740	0.011273892	0.0110398	0.026384137	0.002677612	0.0145366	0.030948872	0.009075266
25 Rr & Comm	0.01125127	0.01151555	0.0384493650	0.072744943	0.068718756	0.027681717	0.026514886	0.02980002	0.010037472	0.032136389
26 Hotel	0.00513645	0.00329016	0.0074217330	0.011021961	0.013519755	0.006487902	0.010579831	0.00835854	0.001672912	0.02032611
27 Business	0.00929453	0.01316062	0.0234622520	0.05378717	0.032839409	0.037413571	0.064066756	0.06941224	0.038476976	0.045438491
28 Proff	0.00538104	0.00164508	0.0011970540	0.001952462	0.001039981	0.000865054	0.002155151	0.04579028	0.000836456	0.002548534
29 Pers	0.00024459	0.00164508	0.0037374808	0.001133687	0.003919929	0.004974059	0.000457153	0.00218049	0.000836456	0.006588892
30 Govt	0.00073378	0	0.0039263360	0.003149132	0.000799986	0.001730107	0.002481689	0.00290732	0.001672912	0.004786271

Appendix D

[I-A] MATRIX

	1	2	3	4	5	6	7	8	9	10
	Oth Agr	Rubber	Oil Palm	Forestry	Fishing	Mining	Oil & Fat	Food	Bev & Tob	Tex & Wr
1 Oth Agr	0.933308829	-0.0058791	-0.0247525	0	0	0	-0.004879734	-0.321792536	-0.10618613	-0.000256871
2 Rubber	0.000000000	0.99972004	0	0	0	0	0	0	0	0
3 Oil Palm	-0.007665826	0	0.99861919	0	0	0	-0.349674596	-0.013686109	0	0
4 Forestry	-0.000109512	0	-0.000952	0.985715	0	-0.000064223	0	-0.000168964	0	0
5 Fishing	-0.002956819	0	0	0	0.9984656	0	0	-0.009293037	0	0
6 Mining	-0.000109512	0	-0.0005712	-0.0001587	0	0.99903665	-0.000476072	-0.000084482	0	0
7 Oil & Fat	-0.015988724	-0.00027996	-0.0017136	0	0	-0.000513785	0.66984434	-0.033285970	-0.006885072	-0.000385306
8 Food	-0.162734542	-0.00055991	-0.0020944	-0.0001587	-0.0161114	-0.000513785	-0.00071411	0.91610922	-0.047955026	-0.002440270
9 Bev & Tob	-0.000109512	0	-0.0003808	0	0	0	0	-0.000253446	0.94450818	-0.000256871
10 Tex & Wr	-0.000876094	0	-0.0005712	-0.0004762	-0.0023016	-0.000256893	-0.000119018	-0.001774125	-0.000685072	0.81723661
11 Wood	-0.002299748	-0.00111983	-0.0028561	-0.0038093	0	-0.001862472	-0.000238036	-0.004899965	-0.014728044	-0.006293328
12 Chem	-0.050703966	-0.02239657	-0.1367101	-0.0004762	-0.0003836	-0.002890043	-0.001428215	-0.004562036	-0.002055215	-0.008990469
13 Petror	-0.001314142	-0.00139979	-0.0038081	-0.0087296	-0.0095901	-0.003789168	-0.000714107	-0.005153412	-0.002397751	-0.003596188
14 RubPrd	-0.000219024	-0.00055991	-0.0005712	-0.0022221	0	-0.000385339	0	-0.000084482	0	-0.000770612
15 Non Met	-0.000438047	-0.00027996	-0.0032369	-0.0001587	0	-0.000064223	-0.000595090	-0.001943090	-0.009248469	-0.000642176
16 Metal	-0.000109512	-0.00111983	-0.001904	-0.0003174	0	-0.002697374	-0.001309197	-0.006336162	-0.009933541	-0.001027482
17 Non Elec	-0.000438047	-0.00111983	-0.0028561	0	0	-0.002697374	-0.000238036	-0.001689643	-0.001370144	-0.001798094
18 Elec	-0.000438047	-0.00111983	-0.0024753	-0.0001587	0	-0.002825820	-0.000238036	-0.001520679	-0.001027608	-0.001669659
19 Motveh	-0.000985606	-0.00167974	-0.0043793	-0.0026982	-0.1423177	-0.005137854	-0.000833125	-0.002872393	-0.002397751	-0.003339317
20 Oth Mnf	-0.000985606	-0.00027996	-0.0030465	0	0	-0.000256893	-0.000119018	-0.000506893	-0.000685072	-0.009504210
21 Electy	-0.001423653	-0.00335949	-0.0057121	-0.0003174	0	-0.005137854	-0.001309197	-0.005998233	-0.004452967	-0.012971963
22 Water	-0.001095118	-0.00027996	-0.0005712	0	0	-0.000064223	-0.000357054	-0.000844822	-0.001027608	-0.001284353
23 Cons	-0.002080724	-0.00167974	-0.0032369	-0.0004762	0	-0.001734026	0	-0.000168964	-0.000342536	-0.000128435
24 Trade	-0.015550676	-0.00335949	-0.0177076	-0.014126	-0.0080557	-0.005202078	-0.003689555	-0.018839521	-0.018154403	-0.026200796
25 Rr & Comm	-0.00668022	-0.00503923	-0.0100914	-0.0041267	-0.0011508	-0.018046714	-0.008807325	-0.016474021	-0.019182011	-0.008476728
26 Hotel	-0.000219024	-0.00083987	-0.0015232	-0.0022221	0	-0.000578009	-0.000238036	-0.000929304	-0.001027608	-0.001669659
27 Business	-0.003175842	-0.0019597	-0.0055217	-0.0399972	0	-0.013165752	-0.002142322	-0.011996466	-0.019524546	-0.015669103
28 Proftr	-0.000109512	0	0	-0.0025395	0	-0.000449562	-0.000119018	-0.000675857	-0.001027608	-0.000513741
29 Pers	-0.000219024	-0.00055991	-0.000952	-0.0044441	0	-0.001734026	0	0	0	0
30 Govt	-0.000109512	0	0	-0.0001587	0	-0.000192670	-0.000119018	-0.000506893	-0.000342536	-0.000770612

Appendix D

[I-A] MATRIX

	11	12	13	14	15	16	17	18	19	20
	Wood	Chem	Petror	RubPrd	Non Metal	Metal	Non Elec	Elec	Motveh	Oth Mnfr
1 Oth Agr	0	-0.00079521	0	0	0	0	0	0	0	0
2 Rubber	-0.0024476	0	0	-0.5355614	0	0	0	0	0	0
3 Oil Palm	-0.00050992	-0.0095425	0	0	0	0	0	0	0	0
4 Forestry	-0.1756154	-0.00047713	-0.0001701	-0.0002054	-0.0055198	-0.0005	0	-0.0003589	0	-0.0004454
5 Fishing	0	0	0	0	0	0	0	0	0	0
6 Mining	-0.00010198	-0.10353612	-0.36945873	-0.0004109	-0.0464828	-0.13013	0	0	0	0
7 Oil & Fat	-0.0018357	-0.022902	-0.0001701	-0.0008217	-0.0011621	-0.0005	-0.000811	-0.0002512	-0.0001355	-0.0008908
8 Food	-0.00193768	-0.00254467	-0.0005103	-0.0006163	-0.0014526	-0.001	-0.001217	-0.0005384	-0.0004066	-0.0008908
9 Bev & Tob	-0.00020397	-0.00031808	0	-0.0002054	-0.0002905	-0.00017	0	0	-0.0001355	-0.0002227
10 Tex & Wr	-0.00326347	-0.00047713	-0.0006804	-0.0024652	-0.0017431	-0.00067	-0.001623	-0.0013998	-0.0016265	-0.0083533
11 Wood	0.90117809	-0.00508933	-0.00323191	-0.0034923	-0.0183026	-0.00532	-0.004869	-0.0067834	-0.0042018	-0.0106895
12 Chem	-0.04120129	0.89932663	-0.0239842	-0.0137639	-0.0299233	-0.01448	-0.00568	-0.0094035	-0.0121887	-0.0158115
13 Petror	-0.00540512	-0.00493029	0.97737661	-0.0032869	-0.0130733	-0.00383	-0.006086	-0.0082909	-0.0012199	-0.0100214
14 RubPrd	-0.00101983	-0.00063617	-0.0003402	0.96569284	-0.0011621	-0.0005	-0.000811	-0.0008973	-0.026024	-0.0004454
15 Non Met	-0.0018357	-0.00174946	-0.0005103	-0.0008217	0.91923612	-0.00233	-0.002029	-0.0017946	-0.0036596	-0.0033405
16 Metal	-0.00224364	-0.00318083	-0.00221131	-0.0032869	-0.0063914	0.893836	-0.038949	-0.0040198	-0.0058283	-0.0089079
17 Non Elec	-0.00458925	-0.00095425	-0.00136081	-0.0020543	-0.0052293	-0.00333	0.92981	-0.0011126	-0.0005422	-0.0008908
18 Elec	-0.00387537	-0.00095425	-0.00187111	-0.0016435	-0.0043578	-0.00316	-0.039355	0.9788602	-0.0027108	-0.0013362
19 Motveh	-0.00662892	-0.00174946	-0.00221131	-0.0030815	-0.0119112	-0.00599	-0.009332	-0.0036968	0.8637808	-0.0028951
20 Oth Mnfr	-0.00193768	-0.00111329	-0.00136081	-0.0008217	-0.0011621	-0.0015	-0.002434	-0.0014715	-0.0010843	0.9592464
21 Electy	-0.01315586	0.015268	-0.00918544	-0.009039	-0.0607182	-0.02862	-0.010549	-0.0084703	-0.0040662	-0.0091306
22 Water	-0.00081587	-0.00174946	-0.0003402	-0.0006163	-0.0014526	-0.00216	-0.000811	-0.0006819	-0.0002711	-0.0006681
23 Cons	-0.00020397	-0.00015904	-0.0001701	0	-0.0002905	-0.00017	-0.000406	0	-0.0001355	-0.0002227
24 Trade	-0.02967717	0.01351854	-0.01683997	-0.0193106	-0.0322474	-0.05175	-0.074247	-0.0497092	-0.0364607	-0.0619099
25 Rr & Comm	-0.03334857	-0.00540742	-0.00629373	-0.0127368	-0.0377673	-0.01864	-0.018663	-0.0134951	-0.0077259	-0.0126938
26 Hotel	-0.00336545	-0.00111329	-0.0010206	-0.0012326	-0.0040672	-0.00316	-0.004869	-0.0012562	-0.0012199	-0.002227
27 Business	-0.02712758	-0.01288237	-0.01054624	-0.009039	-0.0307949	-0.02579	-0.029212	-0.0068193	-0.0117921	-0.0198201
28 Proff	-0.00091785	-0.00047713	-0.0003402	-0.0004109	-0.0014526	-0.00083	-0.001217	-0.0001077	-0.0005422	-0.0008908
29 Pers	-0.00010198	0	0	0	0	0	0	0	-0.0001355	0
30 Govt	-0.00101983	-0.00031808	-0.0003402	-0.001438	-0.0008716	-0.00166	-0.001217	-0.0002512	-0.0004066	-0.0006681

Appendix D

[I-A] MATRIX

	21	22	23	24	25	26	27	28	29	30
	Elec	Water	Cons	Trade	Tr & Comm	Hotel	Business	Proff	Pers	Govt
1 Oth Agr	-0.00048919	0	0	0	0	-0.07655725	0	-0.00072683	0	-0.00721049
2 Rubber	0	0	0	0	0	0	0	0	0	0
3 Oil Palm	0	0	0	0	0	-0.00713669	0	0	0	-0.00099455
4 Forestry	0	0	-0.0004788210	0	0	0	0	0	0	-6.2159E-05
5 Fishing	0	0	0.0000000000	0	0	-0.02282392	0	0	0	-0.00062159
6 Mining	-0.01149587	0	-0.0261436530	-0.0002519310	-0.00039989	-0.00021626	-0.00013062	-0.00036342	0	-0.00012432
7 Oil & Fat	-0.00024459	0	-0.0003351750	-0.0002519310	-0.00024	-0.0177336	-0.00019592	-0.00072683	0	-0.00248637
8 Food	-0.00122286	0	-0.0006703500	-0.0055424720	-0.00079999	-0.12932552	-0.00032854	-0.00436098	-0.000836456	-0.01659655
9 Bev & Tob	-0.00024459	0	0.0000000000	0.0000000000	-0.00024	-0.0242215	0	-0.00072683	0	-0.00093239
10 Tex & Wr	-0.00073378	0	-0.0006703500	-0.0003778960	-0.00071999	-0.00346022	-0.00013062	-0.00109025	-0.000836456	-0.00484843
11 Wood	-0.00097837	-0.00164508	-0.0991639280	-0.0225477830	-0.00431992	-0.00497406	-0.00973083	-0.01126586	-0.005018736	-0.0096347
12 Chem	-0.09903181	-0.02632125	-0.0231237077	-0.0003778960	-0.00119998	-0.01038064	-0.00019592	-0.02398538	-0.024257224	-0.01125084
13 Petrol	-0.01492017	-0.00493523	-0.0141731160	-0.0131003880	-0.01090397	-0.00216263	-0.00032854	-0.0025439	-0.001672912	-0.00341877
14 RubPrd	-0.00024459	0	-0.0009097610	-0.0015745660	-0.00623989	-0.00021626	0	0	-0.01254684	-0.00074591
15 Non Met	0	0	-0.0959558240	-0.000629830	-7.9999E-05	-0.00021626	0	0	0	-0.00043512
16 Metal	-0.00024459	-0.00493523	-0.0727329830	-0.0012596530	-0.00031999	-0.00064879	-0.00019592	-0.00036342	-0.00418228	-0.00074591
17 Non Elec	-0.00073378	0	-0.0059373860	-0.0005668440	-0.00103998	-0.00324395	-0.00065308	-0.00145366	-0.001672912	-0.00161614
18 Elec	-0.00148756	-0.00493523	-0.0232228420	-0.0008187740	-0.00303995	-0.00259516	-0.00065308	-0.0025439	-0.005018736	-0.00248637
19 Motveh	-0.00073378	0	-0.0063204440	-0.0007557920	-0.02623953	-0.00367648	-0.00117554	-0.00181707	-0.119613207	-0.00292149
20 Oth Mnfr	-0.00122286	-0.01313606	-0.0003351750	-0.0010707050	-0.00103998	-0.00064879	-0.001698	-0.0098122	-0.001672912	-0.00671321
21 Electy	0.99633111	-0.10857514	-0.0044051580	-0.01385618	-0.00863984	-0.04822674	-0.00803284	-0.01671708	-0.01672912	-0.02038827
22 Water	-0.00024459	0.98025907	-0.0008618790	-0.001574566	-0.00071999	-0.00432527	-0.00150208	-0.0025439	-0.003345824	-0.00472411
23 Cons	-0.00928453	-0.0444171	0.9972707200	-0.016627415	-0.00399993	-0.00497406	-0.0308905	-0.01308294	-0.002509368	-0.04456826
24 Trade	-0.0205458	-0.01809586	-0.0542504740	0.98872611	-0.0110398	-0.02638414	-0.00267761	-0.0145366	-0.030948872	-0.00907527
25 Rr & Comm	-0.01125127	-0.01151555	-0.0384493650	-0.072744943	0.93128124	-0.02768172	-0.02651489	-0.02980002	-0.010037472	-0.03213639
26 Hotel	-0.00513645	-0.00329016	-0.0074217330	-0.011021961	-0.01351976	0.9935121	-0.01057983	-0.00835854	-0.001672912	-0.02032611
27 Business	-0.00929453	-0.01316062	-0.0234622520	-0.05378717	-0.03263941	-0.03741357	0.93593324	-0.06941224	-0.038476976	-0.04543849
28 Proff	-0.00538104	-0.00164508	-0.0011970540	-0.001952462	-0.00103998	-0.00086505	-0.00215515	0.95420973	-0.000836456	-0.00254853
29 Pers	-0.00024459	-0.00164508	-0.0037374808	-0.001133687	-0.00391993	-0.00497406	-0.00045715	-0.00218049	0.99916354	-0.00658889
30 Govt	-0.00073378	0	-0.0039263360	-0.003149132	-0.00079999	-0.00173011	-0.00248169	-0.0290732	-0.001672912	0.99521373

Appendix E

Leontief Inverse Matrix

	1	2	3	4	5	6	7	8	9	10
	Oth Agr	Rubber	Oil Palm	Forestry	Fishing	Mining	Oil & Fat	Food	Bev & Tob	Tex & Wtr
1 Oth Agr	1.143128817	0.007215178	0.030138575	0.000588378	0.008883351	0.000482985	0.024835338	0.403385528	0.149470554	0.002272459
2 Rubber	0.00348435	1.006795688	0.000585028	0.001383577	0.002434885	0.000428037	0.000407824	0.000428808	0.000318449	0.000747714
3 Oil Palm	0.026241319	0.000823650	1.005479110	0.000150030	0.000822580	0.000442811	0.525213223	0.043580419	0.005772835	0.000863780
4 Forestry	0.001274389	0.000380245	0.002088808	1.002424744	0.000280502	0.000605128	0.001258853	0.002018232	0.003854282	0.001870191
5 Fishing	0.005312719	0.000067384	0.000227817	0.000091875	1.001747472	0.000038538	0.000189838	0.012080021	0.001270372	0.000121480
6 Mining	0.009814832	0.003798338	0.018942971	0.004053791	0.004579884	1.003798984	0.012488832	0.008923883	0.005811185	0.004457673
7 Oil & Fat	0.040004172	0.001659134	0.009223384	0.000258885	0.001331574	0.001081885	1.488223712	0.088083557	0.009493707	0.001704209
8 Food	0.203887058	0.002180843	0.008717053	0.000805215	0.018111047	0.000948724	0.007487820	1.184418727	0.082742484	0.004522219
9 Bev & Tob	0.000285101	0.000043853	0.000540859	0.000088627	0.000050461	0.000044042	0.000310572	0.000472893	1.058885028	0.000438080
10 Tex & Wtr	0.001882511	0.000078781	0.001018804	0.00089438	0.003258200	0.000416125	0.000811734	0.003241702	0.001472088	1.223853583
11 Wood	0.005918734	0.001828282	0.005827528	0.005508452	0.001584328	0.003014283	0.003811419	0.008604150	0.020119454	0.010485484
12 Chem	0.070847423	0.028287887	0.009888803	0.001778947	0.004065129	0.004841882	0.085328734	0.037909380	0.015085179	0.015848809
13 Petrol	0.004120403	0.001880879	0.001084085	0.008510567	0.010594155	0.004684034	0.004742488	0.008732081	0.004811436	0.008040728
14 RubPrd	0.000525233	0.000736980	0.004425474	0.002575728	0.004538181	0.000787087	0.000743588	0.000758558	0.000468780	0.001347821
15 Non Met	0.001652285	0.000604540	0.003572581	0.000482480	0.000780314	0.000415018	0.003380888	0.003327878	0.011323786	0.001222818
16 Metal	0.002471938	0.001658858	0.003518885	0.000721882	0.001388744	0.003520752	0.004201811	0.008248073	0.013033838	0.00288177
17 Non Elec	0.001238514	0.001315034	0.003232742	0.000164872	0.000232375	0.00308281	0.002288480	0.002780507	0.002185785	0.002805007
18 Elec	0.001302427	0.001361135	0.003518885	0.000413802	0.000818874	0.003253025	0.002180078	0.002881448	0.001868714	0.002527342
19 Motveh	0.003888817	0.002438888	0.003232742	0.004258327	0.185447213	0.007078788	0.005488088	0.008071007	0.005208708	0.005887653
20 Oth Mnf	0.001813872	0.000388231	0.003582414	0.000189421	0.000308846	0.000404288	0.002136884	0.001488824	0.001272042	0.012378057
21 Electy	0.005440151	0.004272822	0.008874482	0.001807942	0.001543311	0.008124208	0.007772138	0.010842481	0.008435480	0.018007088
22 Water	0.001714818	0.000382833	0.001035546	0.000181157	0.000135830	0.000167250	0.001148828	0.001755185	0.001588856	0.001808583
23 Cons	0.003513200	0.002000771	0.004384234	0.002288888	0.000484002	0.002558803	0.002702410	0.002807116	0.002408114	0.001952285
24 Trade	0.025075828	0.004800228	0.023308822	0.015701628	0.015581375	0.007120415	0.018877842	0.033038135	0.028974133	0.035834318
25 Rr & Comm	0.016138170	0.006841031	0.015883854	0.007825231	0.004841485	0.021219180	0.023588203	0.028608804	0.028638751	0.016278244
26 Hotel	0.001297202	0.001113808	0.002484888	0.003111584	0.000561719	0.001225501	0.002036717	0.002483743	0.002480870	0.003131158
27 Business	0.010716284	0.003515380	0.011808200	0.045138788	0.003984341	0.016175423	0.010848100	0.021872157	0.028738886	0.024983484
28 Proff	0.000478831	0.000081501	0.000284238	0.002848818	0.000182278	0.000811285	0.000411983	0.001187187	0.001505428	0.000973853
29 Pers	0.000423507	0.000620370	0.001140181	0.004570473	0.000080873	0.001888384	0.000880508	0.000357362	0.000281556	0.000175732
30 Govt	0.000420482	0.00065171	0.000241589	0.000379013	0.000186233	0.000318282	0.000387885	0.000813375	0.000888421	0.001208355

Appendix E

Leontief Inverse Matrix

	11	12	13	14	15	16	17	18	19	20
	Wood	Chem	Petrol	RubPrd	Non Met	Metal	Non Elec	Elec	Motveh	Oth Mnfr
1 Oth Agr	0.002224700	0.003576513	0.000790420	0.004772915	0.002085482	0.001846965	0.002003951	0.000795400	0.000918993	0.001314641
2 Rubber	0.004013230	0.000585361	0.000484582	0.555145860	0.001334636	0.000726672	0.000965182	0.000754999	0.016875161	0.000547990
3 Oil Palm	0.003123907	0.024384328	0.000974300	0.001460357	0.002020782	0.001108936	0.001047718	0.000555280	0.000634084	0.001174453
4 Forestry	0.195862655	0.001973566	0.001265738	0.001358731	0.010512265	0.002373879	0.001857193	0.002114031	0.001384825	0.003218656
5 Fishing	0.000186544	0.000100406	0.000066573	0.000101350	0.000192979	0.000160498	0.000215710	0.000073519	0.000076214	0.000119067
6 Mining	0.010610269	0.119756527	0.381449432	0.006857863	0.064376717	0.151848743	0.011511379	0.006104530	0.004479963	0.008859131
7 Oil & Fat	0.005857359	0.038853760	0.001816153	0.003010272	0.004135935	0.002230062	0.002318429	0.001084350	0.001162140	0.002529659
8 Food	0.004257250	0.004433939	0.001538362	0.002653037	0.003793937	0.003044778	0.003692899	0.001559116	0.001515665	0.002491231
9 Bev & Tob	0.000442798	0.000456501	0.000078743	0.000322686	0.000567482	0.000374650	0.000231608	0.000082704	0.000258937	0.000378533
10 Tex & Wr	0.004836420	0.000868006	0.001125656	0.003305232	0.002782286	0.001646965	0.002541599	0.000082704	0.000258937	0.000378533
11 Wood	1.113385443	0.007884108	0.005917894	0.006326860	0.025318444	0.010042819	0.010159131	0.009782560	0.002558853	0.012166973
12 Chem	0.054892274	1.119329976	0.030705309	0.032513950	0.046605189	0.023879692	0.011546964	0.013144963	0.007582198	0.015394735
13 Petrol	0.010317429	0.007285009	1.025838122	0.005671446	0.018312132	0.007518714	0.009769542	0.010271683	0.018520137	0.021791287
14 RubPrd	0.002403054	0.001056649	0.000877512	1.036248939	0.002375625	0.001310565	0.001755254	0.001364630	0.002990308	0.012785232
15 Non Met	0.002821939	0.002519170	0.000952165	0.001484555	1.088567582	0.003384303	0.003126689	0.002271985	0.031465818	0.000952564
16 Metal	0.003946063	0.004881817	0.004247917	0.005162742	0.009203044	1.120136402	0.047879968	0.005093990	0.004938585	0.004237093
17 Non Elec	0.005857359	0.001760386	0.002784565	0.003193406	0.006816590	0.004766720	1.076084884	0.001460213	0.008159217	0.011090366
18 Elec	0.005225369	0.001839698	0.003436713	0.002838947	0.006060490	0.004750023	0.043956506	1.021985223	0.001001556	0.001380291
19 Motveh	0.011417688	0.003893678	0.005854326	0.005909490	0.017940072	0.010305206	0.013756848	0.005423240	0.003617225	0.001964836
20 Oth Mnfr	0.002702852	0.001618632	0.001761129	0.001314466	0.001915950	0.002205476	0.003269730	0.001805222	1.158791849	0.004877962
21 Electy	0.018265926	0.019459556	0.013080188	0.013312840	0.070535876	0.036115113	0.018449509	0.010814632	0.007306283	1.042934487
22 Water	0.001298579	0.002164909	0.000564197	0.001018378	0.002021230	0.002802453	0.001372522	0.000911874	0.000559145	0.001029438
23 Cons	0.003070503	0.001797396	0.002112821	0.002215873	0.003685708	0.003523318	0.003811110	0.001583215	0.001793854	0.002673931
24 Trade	0.040658549	0.018733853	0.021834710	0.024977277	0.042747630	0.063314254	0.088617342	0.053670580	0.045643222	0.068833662
25 Rr & Comm	0.047334259	0.012735695	0.017726220	0.021081802	0.053538032	0.033482896	0.032367555	0.020687502	0.015595180	0.022574928
26 Hotel	0.006069972	0.002099164	0.002118131	0.002677100	0.006559425	0.005480765	0.007588101	0.002453012	0.002565300	0.003976494
27 Business	0.047287898	0.020173360	0.020218032	0.015195348	0.045376336	0.040148116	0.043589348	0.012774167	0.019640476	0.029349941
28 Profit	0.002023250	0.000873400	0.000776248	0.000693860	0.002472018	0.001585129	0.001898495	0.000390931	0.000920230	0.001363516
29 Pers	0.001326979	0.000353897	0.000802319	0.000490215	0.000527905	0.000572684	0.000359054	0.000197439	0.000333503	0.000258669
30 Govt	0.001558707	0.000565256	0.000616939	0.001700411	0.001434605	0.002326975	0.001907052	0.000535774	0.000785106	0.001109059

Appendix E

Leontief Inverse Matrix

	21	22	23	24	25	26	27	28	29	30
	Electy	Water	Cons	Trade	Tr & Comm	Hotel	Business	Prof	Pers	Govt
1 Oth Agr	0.001660197	0.001073289	0.002542339	0.004422688	0.002780765	0.145533337	0.002073769	0.004695554	0.001186833	0.018713691
2 Rubber	0.000321771	0.000242967	0.001542658	0.001384008	0.004314141	0.000616439	0.000280682	0.000339824	0.009145939	0.000852600
3 Oil Palm	0.002477019	0.001162347	0.001718988	0.000923218	0.000707143	0.024950106	0.000567752	0.001675142	0.000909498	0.004279239
4 Forestry	0.000785966	0.001690042	0.021738190	0.0005182300	0.001308904	0.001980912	0.002867498	0.0003102912	0.001618058	0.003365022
5 Fishing	0.000051104	0.000127469	0.000304661	0.000412851	0.000402265	0.025179123	0.000319352	0.000340086	0.000101727	0.001435715
6 Mining	0.029107573	0.012100470	0.054240652	0.008217686	0.009582823	0.007458169	0.002957361	0.006820009	0.006092495	0.007258449
7 Oil & Fat	0.004135429	0.001918012	0.003183002	0.001694087	0.001332764	0.039976435	0.001077216	0.003220108	0.001505048	0.006921817
8 Food	0.002372992	0.001484211	0.004136956	0.009212594	0.003923659	0.170712509	0.002777838	0.007901032	0.002177465	0.025267787
9 Bev & Tob	0.000337121	0.000185818	0.000404442	0.000394669	0.000690797	0.025985554	0.000344284	0.001129154	0.000139130	0.001621790
10 Tex & Wv	0.001109454	0.000489224	0.001980076	0.000886854	0.001248946	0.005191706	0.000446212	0.001839716	0.001565498	0.006504193
11 Wood	0.004060738	0.009092973	0.117073159	0.029267061	0.007326740	0.010662312	0.016057200	0.017370029	0.008985682	0.018296364
12 Chem	0.102117439	0.044358644	0.040372192	0.005769433	0.005243617	0.031819012	0.003886224	0.032922299	0.032849925	0.020677670
13 Petrol	0.017058770	0.009081952	0.020510179	0.016385352	0.021875598	0.006545702	0.002123992	0.005058168	0.003710788	0.006530639
14 RubPrd	0.000582085	0.000411984	0.002344601	0.002449740	0.008019622	0.001101963	0.000413226	0.000554958	0.017031446	0.001507912
15 Non Met	0.001375222	0.005222938	0.105765656	0.002309542	0.000972564	0.002132852	0.003640515	0.002051118	0.001271069	0.005755246
16 Metal	0.001836994	0.010142582	0.084130182	0.003505061	0.001491576	0.003731952	0.003277180	0.002550056	0.006552939	0.005563776
17 Non Elec	0.001198708	0.000714244	0.008414993	0.001223963	0.001536151	0.004412195	0.001220023	0.002148249	0.0022229990	0.002569621
18 Elec	0.002194991	0.006836109	0.026112505	0.002016092	0.0039333643	0.004006698	0.001888455	0.003726088	0.006096977	0.004427619
19 Motveh	0.002142678	0.001972789	0.013838525	0.001739286	0.033952877	0.012032102	0.003294362	0.004650677	0.139795064	0.007130778
20 Oth Mnf	0.001639125	0.014427086	0.001397182	0.001597587	0.001467859	0.001549901	0.002123998	0.011193468	0.002292788	0.007609899
21 Electy	1.006759603	0.114270835	0.019283970	0.017594259	0.011798670	0.053635083	0.010843984	0.021267189	0.020424990	0.025367541
22 Water	0.000576655	1.020480994	0.001780400	0.001981704	0.001041755	0.005140403	0.001837933	0.003123377	0.003757157	0.005320917
23 Cons	0.010626122	0.047866335	1.006374212	0.019877193	0.006238019	0.008727916	0.033932292	0.017464340	0.005302856	0.047895585
24 Trade	0.024666492	0.027512515	0.072660695	1.016936428	0.016202722	0.038686231	0.007324918	0.020871758	0.040072921	0.017784316
25 Rr & Comm	0.017050456	0.020723097	0.061959672	0.084905316	1.078599998	0.042242812	0.034346014	0.040745943	0.018560113	0.043313625
26 Hotel	0.001022687	0.004797863	0.011133758	0.013578253	0.015540511	1.008653549	0.012436414	0.010908108	0.003337616	0.022614815
27 Business	0.015344363	0.021617596	0.045279571	0.065042259	0.041319315	0.050400485	1.073050570	0.083757327	0.048141326	0.056739399
28 Prof	0.005917383	0.002681831	0.002207028	0.002548044	0.001458967	0.001720134	0.002647386	1.048510439	0.001362588	0.003234819
29 Pers	0.000472503	0.002073961	0.004415473	0.001739286	0.004416433	0.005407632	0.000874705	0.002694180	1.001085944	0.007198751
30 Govt	0.000998261	0.000516774	0.004828927	0.003636138	0.001148395	0.002291674	0.002934992	0.003537182	0.002115080	1.005390167

Appendix F

Output Linkages

	Forward Uj	Linkages Vi	Rank	Backward Uj	Linkages Vi	Rank	Total U	Linkages V	Rank
1 Oth Agr	1.3685986	0.4398377	2	1.10372499	0.39065192	7	2.4723235	0.830490	3
2 Rubber	1.1156722	0.3928705	11	0.74865799	0.32471764	30	1.8643302	0.717588	20
3 Oil Palm	1.1691561	0.4028022	9	0.82312478	0.33854577	27	1.9922809	0.741348	15
4 Forestry	0.8889484	0.3507689	16	0.77695421	0.32997211	28	1.6659026	0.680741	28
5 Fishing	0.7291823	0.3211011	28	0.87230277	0.3476779	24	1.6014851	0.668779	30
6 Mining	1.3785396	0.4416837	1	0.76064616	0.32694378	29	2.1391857	0.768627	9
7 Oil & Fat	1.2209457	0.4124193	7	1.56347261	0.47602491	1	2.7844183	0.888444	1
8 Food	1.2166916	0.4116293	8	1.31588923	0.43004983	2	2.5325808	0.841679	2
9 Bev & Tob	0.7600204	0.3268276	25	1.03856934	0.37855282	11	1.7985897	0.705380	22
10 Tex & Wr	0.8961721	0.3521103	15	0.97477429	0.36670638	14	1.8709464	0.718817	19
11 Wood	1.0530507	0.3812419	13	1.11916995	0.39351998	6	2.1722206	0.774762	8
12 Chem	1.3601029	0.4382601	4	0.98925999	0.36939631	13	2.3493629	0.807656	4
13 Petrol	0.8851924	0.3500714	17	1.07653043	0.38560202	8	1.9617228	0.735673	17
14 RubPrd	0.7847843	0.3314261	23	1.22304588	0.41280926	3	2.0078302	0.744235	14
15 Non Met	0.8820932	0.3494959	18	1.07098201	0.3845717	9	1.9530752	0.734068	18
16 Metal	0.9603922	0.3640357	14	1.07028638	0.38444253	10	2.0306785	0.748478	12
17 Non Elec	0.7976467	0.3338146	22	1.00347026	0.37203509	12	1.8011170	0.705850	21
18 Elec	0.8162574	0.3372705	20	0.8266956	0.33920886	26	1.6429530	0.676479	29
19 Motveh	1.1582533	0.4007776	10	0.94599736	0.36136264	19	2.1042507	0.762140	10
20 Oth Mnf	0.7840348	0.3312869	24	0.89783056	0.35241829	21	1.6818653	0.683705	27
21 Elecky	1.1052035	0.3909265	12	0.87409173	0.3480101	23	1.9792952	0.738937	16
22 Water	0.7413691	0.3233641	27	0.96099938	0.36414844	17	1.7023685	0.687513	24
23 Cons	0.8710952	0.3474537	19	1.20824102	0.41006006	5	2.0793362	0.757514	11
24 Trade	1.3580624	0.4378812	5	0.92044152	0.35661704	20	2.2785039	0.794498	5
25 Rr & Comm	1.3126549	0.4294492	6	0.89481904	0.35185906	22	2.2074740	0.781308	7
26 Hotel	0.8085822	0.3358453	21	1.20880659	0.41016509	4	2.0173888	0.746010	13
27 Business	1.3682507	0.4397731	3	0.85456094	0.34438332	25	2.2228116	0.784156	6
28 Proff	0.7588219	0.3266050	26	0.9477087	0.36168043	18	1.7065306	0.688285	23
29 Pers	0.7254811	0.3204138	29	0.96387278	0.36468202	16	1.6893539	0.685096	26
30 Govt	0.7247442	0.3202770	30	0.96507348	0.36490499	15	1.6898177	0.685182	25

Appendix G

Employment Linkages

	Sectors	Backward		Linkages		Rank		Forward		Linkages		Rank		Total		Linkages		Rank
		Euj		Euj	Evj			Eui		Evi				EU		EV		
1	Oth Agr	3.0802690		0.7576869		1		5.0554145		1.1244622		1		8.13568354		1.882149183		1
2	Rubber	0.5648811		0.2905911		18		0.8052512		0.3352267		13		1.370132313		0.62581786		16
3	Oil Palm	0.5639138		0.2904115		19		0.6724987		0.3105752		15		1.236412498		0.600986713		19
4	Forestry	0.5929657		0.2958063		16		0.6555807		0.3074336		17		1.248546392		0.603239921		18
5	Fishing	0.5063100		0.2797147		21		0.4383283		0.2670909		20		0.944638304		0.546805606		21
6	Mining	0.0942245		0.2031924		30		0.0858386		0.2016352		27		0.180063142		0.404827562		30
7	Oil & Fat	0.4385700		0.2671357		23		0.0677970		0.1982849		29		0.506366994		0.465420667		24
8	Food	1.3262019		0.4319649		8		0.2022488		0.2232520		22		1.52845078		0.655216861		13
9	Bev & Tob	1.1666525		0.4023373		11		0.6621120		0.3086465		16		1.828764534		0.710983725		11
10	Tex & Wr	0.4489784		0.2690685		22		0.0168782		0.1888295		30		0.465856563		0.457898068		25
11	Wood	0.5797095		0.2933447		17		0.7184934		0.3191162		14		1.298202815		0.612460887		17
12	Chem	0.8183659		0.3376621		14		1.2582719		0.4193506		9		2.076637707		0.757012618		10
13	Petror	1.3273084		0.4321703		7		1.5334819		0.4704558		7		2.860790248		0.902626089		7
14	RubPtd	2.6793383		0.6832360		2		2.5091918		0.6516406		4		5.188530086		1.334876525		3
15	Non Met	2.5946995		0.6675189		3		2.7818969		0.7022806		2		5.376596417		1.369799566		2
16	Metal	1.3225740		0.4312912		7		1.4031225		0.4462486		8		2.725696508		0.877539811		8
17	Non Elec	0.3839063		0.2569850		25		0.1255964		0.2090180		25		0.509502694		0.466002951		23
18	Elec	0.2807425		0.2378279		26		0.1670230		0.2167107		24		0.447765455		0.454538634		27
19	Motveh	0.2803752		0.2377597		27		0.1111792		0.2063408		26		0.391554399		0.444100503		28
20	Oth Mnf	0.2688363		0.2356170		29		0.0833463		0.2011724		28		0.352182603		0.436789344		29
21	Electy	0.2778002		0.2372815		28		0.1864853		0.2203248		23		0.464285554		0.457606339		26
22	Water	0.5121381		0.2807970		20		0.3585984		0.2522854		21		0.870736487		0.533082383		22
23	Cons	0.9781996		0.3673424		12		0.4628232		0.2716395		19		1.44102286		0.638981904		15
24	Trade	1.5571106		0.4748435		6		2.6869118		0.6846423		3		4.244022374		1.159485846		4
25	Rr & Comm	0.6145449		0.2998135		15		0.8302081		0.3398611		11		1.44475293		0.63967456		14
26	Hotel	2.1501190		0.5849624		4		1.7906658		0.5182136		6		3.940784834		1.103176049		5
27	Business	0.4239424		0.2644195		24		0.6033786		0.2977399		18		1.027321066		0.562159409		20
28	Proff	0.9502848		0.3621588		13		0.8205787		0.3380730		12		1.770863535		0.700231779		12
29	Pers	2.0101819		0.5589767		5		1.9033873		0.5391455		5		3.913569174		1.098122228		5
30	Govt	1.2068585		0.4098033		10		1.0034142		0.3720247		10		2.210272713		0.781828015		9