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THE DISTRIBUTION OF SECTORAL VALUE ADDED AND EMPLOYMENT BY FACTOR TYPES IN INDONESIA

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## THE DISTRIBUTION OF SECTORAL VALUE ADDED AND EMPLOYMENT BY FACTOR TYPES IN INDONESIA\* Steven J. Keuning and Roger A. Downey

Indonesia's Gross Domestic Product (GDP) at factor costs is broken down in table 1. In order to maintain a link the aggregated Social Accounting Matrix for Indonesia which has been discussed in a previous paper [Downey and Keuning, 1985], the aggregated SAM account numbers are included in the headings. They show to which consolidated account of the aggregated SAM the detailed groupings in this and following tables belong. In this way it should be possible not to lose sight of the whole when scrutinizing this part of the Indonesian SAM [BPS, 1982].

The subdivision of production activities may be clear enough from the table headings. At the right side of this matrix not only grand totals are given but also a bipartition into total agriculture (adding columns a-e: food crops cultivation, estate crops cultivation, livestock production, forestry and hunting, and fushing) and total non-agriculture (adding columns f-v: all other activities, including food

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TABLE 1: A DECOMPOSITION OF FACTOR INCOMES

processing).

Three broad categories of factor income exist: a) wages and salaries, in kind as well as cash, earned by employees (paid workers), b) labor income imputed, in proportion to hours worked, to employers, self-employed and family workers (unpaid workers), and c) rents on the provision of means of production and on the depletion of natural resources (capital income).

Both labor types mentioned above are further subdivided by location (rural/urban) and occupation: agricultural worker (ISCO 6), non-agricultural manual worker (ISCO 7/8/9), clerical sales and services worker (ISCO 3/4/5), and professional, managerial and non-cilivian worker (ISCO 0/1/2/00). Capital income is broken down into four types of unincorporated capital (agricultural, housing, other rural and other urban) and three types of incorporated capital (private domestic, public and foreign).

Total value added by activity is also part of inputoutput tables, but apart from indirect taxes, usually only
aggregated wages and salaries and a rather ambiguous residual
category, called operating surplus, are differentiated.
Sometimes, depreciation is given separately. Operating
surplus then combines returns on invested capital and the
remuneration of the self-employed. Explicitly estimating
the share of unincorporated profits and subsequently the
labor component thereof allows one to compare the relative
importance of these "unmarketed" workers' incomes with wage
and salary incomes. Moreover, an estimation of much neglected
unincorporated capital incomes may yield interesting insights
in differences in rates of return and choice of technology
between corporate and unincorporated business.

The subdivision of operating surplus in each activity into unincorporated, private domestic corporate, public and foreign is based on <u>legal status</u> and <u>capital ownership</u> of the enterprise. The records of joint ventures are segregated in accordance with the distribution of share-holding

between the two (or more) parties. Operating surplus of corporate owners equals their capital income, but operating surplus of non-corporate owners consists of two parts: imputed labor income which is estimated separately, and capital income which is computed as a residual.

Unpaid labor income is arrived at by multiplying the number of hours worked by each type of own-account workers by a wage rate which is derived from the salary of similarly placed employees: the same type of occupation, sex, age group, location, importance of the job (primary/secondary).

Examining total incomes of workers on the right hand side of table 1, it becomes clear that, overall, imputed "unpaid" labor income almost equals "paid" labor income, and that among agricultural workers and (rural) clerical, sales and services workers, the former category even dominates.

Computation of column percentages from table 1 yields the factorial distribution of income by sector of activity.4 This is presented in table 2 which also relates total factor income to cost of production at producer's prices (see the bottom row). The latter ratio is low in the manufacturing sectors (notably in food processing) and restaurants. a dependence on intermediate inputs indicates the existence of important backward linkages (provided that the orders are not placed abroad), which should be kept in mind when reviewing for instance sectoral employment. Even if the just mentioned sectors do not generate much direct employment, substantial indirect employment may be created with suppliers. assessment of these indirect effects requires the computation of the inverse Social Accounting Matrix, or even a full-fledged model if production capacity is fully utilized in some sectors.

Continuing with the functional distribution of income, it is striking that a very high share of Indonesia's GDP accrues to capital (60.8%). Moreover, merely unincorporated capital already accounts for more than a quarter (26.5%). This demonstrates that it is wrong to identify capital income

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Value Added/Total Cost of Production (%)	Total Factor Income	Total Capital	Total Unpaid workers	Total Paid workers	Foreign	Public	Private Domestic		Unincor- Bousing	Agricultural	Professional Unpaid U		Professional Paid	Clerical Umpaid U	Clerical Paid U		Manual Unpaid	Manual Paid R	Agricultural Unpaid R	Agricultural Paid R	FI COMP LIVE	Account Numbers  Activities  Factors of  production	Aggregated SAM	e Australian en		
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75.4	100	80,9	11.3	7,7	9.1	3.0	29.0	1		39.9	0.0	0.0	0.0	0.0	0,3	0,0	2.1	0.8	9.8	5.3		Forestry and Hunting	20	а		
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88.6	100	72.0	14.6	13.4	0.0	3.5	0.8	45.0	22.6	1	0.1	0.4	0.8	0.7	1.3	3 .	7 6.0	6.0	1 1	1		Other Mining	21	g		
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32.2	100	54.7	11.1	34.2	7.5	3.5	12.1	19.3	12.3	ļ	1.0	0.5	1.5	0.4	) u (	0	6.7	14.0	1 1	1 1		Textile Manufact.	21	<u>.</u>		
36.4	100	65.2	8.3	26.6	14.0	9.7	30.8	7.0	3.7	į į	0.9	0.2	2.5	0.0	5.2	1 .	- 5 	7.2 9.7		1 1		Paper, Metal Pro- duct and Other Manufacturing	21	*		
34.4	100	70.7	6.1	23.2	6.7	43.6	11.3	5.3	3.7	;	0.3	0.4	2.0	0.1	J .5	2 7	ھ د وٹر	5.2	1 1	1::		Chemical and Basic Mineral Manufacturing	21	-		
50.3	100	67.8	1.1	31.1		51.8	8.3	1.5	0.1	3	0.0	0.0	9.4	0.0	4.2	2	0.2	12.0	1 :	; ;		Utilities	21	8		
85.2	100	58.5	34.0	7.5	4.5	7.0	24.0	14.0	9.2	1	4.0	1.0	0.8	10.1	3.3	2.2	0 0	0.3	;			Trade	22	Þ		
32,0	100	65.9	30.5		0.2	0.0	3.3	35.6	27.0	1	2.7	1.6	0.0	9.0	17.5	1 9	0.1	0.1		1 :		Restaurants	22	o		
49.5	100	52.7	3.9	43.4	1.9	17.1	3.2	23.4	5.1	1	3.0	0.1	3.7	0.4	28.5	9 . 1	0.0	0.6		: :		Rotels	22	₽		
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79.8	100	67.8	0.1	32.1	4.1			6.7	0.4	: 1	0.1	0.0	11.9	0.0	17.1	1.6	o c	0.8	1 1	: :		Finance	23	9		
86.0	100	95.6		4.1		0 1			0.3	74.8	0.3	0.0		0.0	0.0	0.9	0.0	0.4	1	1 1		Real Estate and Business Services	23	t		
86.4	100	11.4	- œ	86.8		٥ u		د <u>د</u> د سار	0.9	; ;	0.9	0.5	35.0	0.2	0.1	5.6	0.1	1.8	0 1		-	Government, Social and Cultural Servand Recreation		ء		
54.4	100	5./		64.1		0.5		2.9	0.8	1 ;	1.4	0.9	1.4	5.0	5.4	17.8	9.3	12.7	17.5	1 1	-	Personal and Other Services	22	<		
74.5	100	125.0		14.4	1			ا بر ا	1	47.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	1.2	0.6	1	Total Agriculture	······			
59.3	100	03.				20.7	1 1	.5 4	5.6		1	د د د	5.5	2.4	A . N	2.3	1.0	3.7	4	11:		Total Non-Agricu	ture	?		
63.0	100	00.0				15.0	100	9.0	4.0	13.8		0.0	9.9	2.9	3.0	1.7	0.7	2.7	0.1	0.2		Total Value Added	ì			
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TABLE 2: THE DISTRIBUTION OF VALUE ADDED (AT FACTOR PRICES) BY ACTIVITY AMONG FACTORS OF PRODUCTION (COLUMN PERCENT)

with corporate income based on the assumption that in "informal" firms value added only consists of (imputed) labor payments.  $^{5}$ 

Across sectors a wide rage of proportions is received by each factor type. The capital income/value added ratio can be considered as a proxy for "capital intensity". It is particularly high in the (oil) mining sector (depletion of mineral reserves!), in the real estate sector (house rents, paid and imputed), in the forestry sector (using up natural resources?) and in livestock production (combining cattle and land with relatively little, unskilled human care). With the help of the same indicator only two service sectors can be labeled as really labor intensive (see columns u and v). As expected, unpaid labor income receives a large share in food crop production, trade, restaurants, and personal and other services.

Several forces combine to yield such a high capital income/value added ratio in this labor-abundant country. Firstly, substantial quasi-rents are earned on the exploitation of Indonesia's vast natural resources (minerals, forests, oceans). Note, however, that a significant part of oil rents is siphoned off by a special tax, and that in general, the labor factor receives a larger proportion of disposable income than of earned income. Secondly, the high population density in Java and Bali (where two third of all Indonesians live) turns the distribution in agricultural sectors in favour of land, the main capital factor. In general, the abundant and elastic supply of non-unionized and unskilled workers serves to keep wages down.

Thirdly, in some activities, notably (wholesale) trade, the relatively large share of capital income may point to a lack of competition. Finally, in manufacturing most value added is generated in large and medium firms which do not create concomitantly much employment. There is some evidence that these tendencies are reinforced by government policies (concentration of government investment in large-scale capital intensive industries, complicated admini-

strative procedures hindering entry of new firms, an overvalued exchange rate, cheap but rationed credits, and biased effective protection). The most labor-intensive manufacturing subsector (see columns h-l) is wood products manufacturing and construction. That is also the most "domestic" subsector (hardly any direct linkages with the rest of the world).

Regarding the type of capital, foreign capital dominates in (oil) mining and public capital controls other transport (including communication), finance, utilities, and to a somewhat less extent chemicals and basic minerals manufacturing (fertilizer, cement). Private domestic corporate capital is important in paper, metal products and other manufacturing, wood products manufacturing and construction, forestry, and trade, while unincorporated capital prevails in the other sectors.

With respect to the type of workers, it is obvious that in agricultural activities mainly, but not exclusively, agricultural workers earn a living. In manufacturing and land transport many manual laborers are engaged, most of them in rural areas. Utilities, however, are concentrated in the cities. Trade and restaurants employ above all own-account clerical, sales and service workers and their (unpaid) families. Hotels operate on a larger scale, relatively more in towns and with more paid labor. That also applies to other transport and finance which moreover give work to higher skilled personnel. This group of professionals and technicians receives even the bulk of value added in the government, social and cultural services and recreation sector. Finally, in the personal and other service sector it is striking that wages and salaries largely exceed imputed labor payments.

Table 3 looks at the same figures from a slightly different angle and tries to answer the question in which activities each production factor earns its income. Concerning total factor income, more than half is earned in

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	Total Factor Income	Total Capital	Total Unpaid Workers	Total Paid Workers	Foreign	Corporate Comestic	Other Urban					L							-		Dir	Paid	s duction
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No.   1	3.6		2.		0 3																		Estate Crop 20 5
No.	2.2	2.9	1.9		0.0	0.7	; ;	ì	12.4														Livestock : 0
10	2.0	2.7	1.3		1.2	6.5		1	5.9		0,0	0.0	0.2	0.0	0.2	0.7	0.1	0.1	0.5	2.3	2	2.7	
Mode Processing   1	2.0	2.4	1.5	1.3	0.1	1.5	;	1 1	9.2		0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	9.2	2 2	5.8	Fishing 50 0
Pood Processing   Pood Proce	17.1	27.7		1.2	36.3 86.8	0.0	0.0	0.0	1 1		0.0	2.3	0.2	0.0	1.6	1.0	0.0	0.8	2.4	: :		; ;	and Metal Ore
Mood Product Manufacturing and Construction   1	0.6	0.8			0.2	0.1	4.8	3.6	; ;		0.9	0.1	0.0	0.4	0.3	0.8	4.9	1.4	0.6	1 1		! !	11
### Anufacturing and Construction    Textile   Manufacturing   Textile   Textile   Manufacturing   Textile   Textile   Textile   Manufacturing   Textile   Textile   Textile   Manufacturing   Textile   Textile	4.5	5.3	3.0	3.5	1.8	5.4	16.3	25.4	1 ;		. u . 9	0.7	0.7	9 0	2.4	2.7	7.6	6.9	12.5	! !		: :	Food Processing
Paper, Metal Product and Other Manufacturing  21	5.6	4.2	4.2	10.7	0.2	17.5	4.7	6.4	; ;	1.0	4 9 6 2	2.8		ο ο. 	3.0	6.4	12.0	27.1	38.7	1 ;		1 1	Manufacturing and -
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Table 3: THE DISTRIBUTION OF FACTOR INCOME BY ACTIVITY (ROW PERCENT)

three activities, namely food crops cultivation, mining and trade. Mining alone generates more than a quarter of capital income, and apparently almost all returns from direct foreign investments come from this activity. Regarding the involvement of private domestic capital, trade is the largest sector. The lion's share of unincorporated capital income originates in food crops cultivation and trade. Unpaid workers also largely depend on the latter two sectors, with the exception of manual own-account workers who receive most of their income from manufacturing in the rural areas and from land transport and personal and other services in the urban areas.

Skilled employees are salaried to a large extent by the government, social and cultural services and recreation. The category of jobholding manual workers receives a substantial share of its wage bill from the wood products and construction sector, and agricultural laborers earn their living primarily in food crops cultivation.

The above analysis is still somewhat inaccurate, in the sense that it draws conclusions from value figures whereas the underlying quantities (numbers of workers) and prices (wage rates) need not follow the same trends. This is remedied in tables 4 and 5. The former gives a detailed overview of the number of workers equivalents, defined as 40 hours of work per week for a 52-week year. The availability of data on hours worked by each person in each occupation enabled a more precise calculation of labor input than merely counting the number of laborers. The latter method yields distorted employment and labor income estimates, in view of widespread underemployment and, on the other hand, multiple jobholding and extremely long work weeks by many of the poor. 6

Turning to the figures in table 4, the paramount importance of food crops cultivation for the employment of Indonesia's labor force is marked. It absorbs 46.5% of all worker equivalents (55.2% in rural areas). Note also the

totals are subject to

rounding

errors.

1000 workers TATOT TATOTAL TOTAL TOTAL TOTAL TOTAL TOTAL Aggregated SAM Account Numbers ø, UNPAID URBAN URBAN RURAL PAID RURAL RURAL URBAN Agricultural Clerical Clerical Manual Manual Agricultural Professional PAID PAID DIAGNU DINGHU workers Unpaid Paid Unpaid Unpaid Paid Paid Unpaid Rural Urban Rural ø Cultivation Cultivation 293 tion Ω Forestry and Hunting = 49 238 Fishing Oil, Gas, Coal and Metal Ore Mining Other Mining Ξ Þ Food Processing 175 492 46 41 41 10 9 Wood Product Manufacturing 57 89 89 11 11 12 20 20 construction 2‡ 173 201 28 Paper, Metal Pro-duct and Other × Manufacturing **,**\_ Chemical and Basic 2: 85 177 8 Mineral Manufact. ---B = 1598 15 25 297 185 39 443 29 11 1 Restaurants 188 29 0 ô ъ 11.1 LUI Para £ 381 392 216 67 10 111 1 Other Transport = U) 69 50 77 Real Estate and 2 20 0 5 8 0 -Government, Social 741 17 and Cultural Serv 69 30 and Recreation Parsonal and 2267 325 874 723 219 18 35 Other services Total Agriculture 1859 2557 596 1966 1966 1996 5118 1941 1072 929 398 Total Non-Agriculture 511 3290 1862 224 596 2006 2003 Totals

Table 4: WORKER EQUIVALENTS IN EACH ACTIVITY BY TYPE OF WORKER

negligible share of oil, gas, coal and metal ore mining (0.1%). Most worker equivalents turn out to be unpaid, particularly in restaurants, trade and food crops cultivation. In all non-agriculture about an equal amount of paid and unpaid worker equivalents are involved. Although in food crops cultivation most labor is unpaid, this sector is still by far the biggest employer (absorbing 31.2% of all paid worker equivalents, and in rural areas even 41.9%).

The regional break-down reveals that 82.0% of all (full-time) employment is created in rural areas, where 81.4% of the population lives. Still, urban members of the labor force typically have longer work weeks, because the cities are relatively more inhabited by economically inactive people (students, housewives without additional activity, pensioners, unemployed, children and disabled).

In urban areas, salaried work is more common than self-employment, especially in the service sectors. A large part of the entire urban labor force (27.5%) and the majority of urban own account workers (53.7%) operate in the trade sector. Nevertheless the number of own account traders is more than 2.5 times bigger in the countryside than in the cities.

In both locations over 40% of the salaried jobs outside agriculture are provided by the government and related services and personal and household services.

For each category of workers roughly the same remarks apply to the sectoral composition of their employment as we made earlier about the sectoral distribution of their labor income. One noticeable exception concerns paid clerical, sales and service workers. This group depends on the government and related services for about 30% of their salaries (in both areas). However, the same sector accounts for only 12% of their employment in rural areas and for only 19% in urban areas. Obviously these discrepancies are caused by wage differentials. That leads us to the next table.

At one glance it is clear that considerable differences

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156	106	206	224	156	265	120	88	161	419	356 556	118	199	160	126			Average Non-Agric	cultu	re	
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Table 5; AVERAGE MAGE RATE PER MORKER EQUIVALENT IN EACH ACTIVITY BY TYPE OF MORKER

in average wage rates exist, both between sectors and between locations and between occupational groups. To start with the first-mentioned, at the lower end we find food crop This sector employs 47% of Indonesia's labor cultivation. force and typically yields only 67,700 Rp., or about 163 U.S. dollars, for a full work year. On the other hand, a representative worker in finance earns 1,194,100 Rp., or In between, other less rewarding almost 18 times as much. activities are personal and other services, restaurants, estate crop cultivation, textile manufacturing and trade. Apart from finance, salaries are high in other sectors which employ very little labor such as oil mining, utilities and real estate. Only the government and related service sector offers sizeable employment at a relatively reasonable rate. In general, labor payments are twice as high outside agriculture as in agriculture.

Despite the fact that the imputed wage rate equals the paid wage rate for each of the (originally) 288 labor-factor categories, the mean earnings of all own-account workers amount to hardly half the average compensation of employees. The reason for this is simple: own account workers abound in lower paid professions (agricultural workers) and in less remunerative activities (food crop cultivation, trade), as can be seen from the previous table. This is probably not just a fortuitous phenomenon, but denotes that people who do not succeed in getting a job are generally pushed into more marginal activities.

The considerable urban-rural nominal wage differentials 9 - on an average but also by occupation, by activity, and for paid and unpaid workers alike - indicate that migration to the cities is still an attractive option for the rural poor, and the more so as the ratio of the number of worker equivalents to the labor force (which by definition includes the unemployed) is also more favourable in the cities (1.11, versus 0.90 in the country-side). Since the concept of worker equivalents

already corrects for differences in the degree of employment, this "employment ratio" is an indicator for the extent to which employment opportunities exist (in a certain area). 10 Only lack of information, risk aversion, and the costs and disutility of moving might then prevent many rural dwellers from migrating to the cities. 11 Anyhow, in accordance with established migration theory [e.g. Todaro, 1976] a combination of wide-spread and substantial urban-rural wage differentials and a higher employment ratio in urban areas should provoke an exodus to the towns, which indeed occurs [Titus, 1978; Hugo, 1979], although partly in the form of circular migration [Jellinek, 1978; Hugo, 1978; Bagus Mantra, 1981; Forbes, 1981].

Variations in wage rates are even slightly more pronounced across activities than across occupational groups. The standard deviation of the former distribution is 89,919 Rp. against 85,987 Rp. for the latter. 12 Clearly, this is not in conformity with the neo-classical model of factor price equalization across sectors (for each labor type). 13

It is not astonishing that professionals, managers and non-civilians who hold a job in the cities as a rule earn the highest salaries, while unpaid rural agricultural workers are worst off. Some of the detailed wage rates in this table have to be considered with caution due to the small size of the sample on which they are based (compare the previous table).

Finally, it is added that even more detailed data, not presented here [BPS, 1982:table 3.1.5], show that female workers receive considerably lower wages in all but one of twenty labor-force categories. On an average, a male worker equivalent earns twice as much (about 133,000 Rp.) as a female one (approximately 66,000 Rp.). Female worker equivalents number about 14,2 million against males circa 32.2 million. This implies an "employment ratio" of 0.99 for men and 0.83 for women, disregarding the time spent on housekeeping.

The last table of this section (table 6) indicates the degree of detail which is available for parts of the Indonesian System of Socio-economic Accounts. This table is still linked to the aggregate SAM, since on the one hand the types of land shown in the row headings belong to private domestic (unincorporated agricultural) capital, and on the other hand harvesting the crops listed in the column headings is an important part of food production. The link with table 1 is even more direct. Total factor income in food crop cultivation equals 2,555 billion Rupiah (column a of table 1), consisting of wages and salaries (443 billion Rp.) and operating surplus  $(2,112 \text{ billion Rp.})^{15}$ . After the operating surplus from cassava processing (104 billion Rp.) is deducted, the residual (2,008 billion Rp.) refers to total operating surplus from harvesting food crops, shown in the last row of column (11) in table 6.

Unfortunately, separate data on productivity and profitability by type of land (wet land, dry land) are only available for rice, Indonesia's staple crop. As the other crops are predominantly cultivated on dry land, all proceeds are assigned to that land type.

Small farms dominate in Indonesia: fifty-five percent of profits from sawah and fourty-five percent of profits from dry land are earned on plots measuring less than 0.75 hectare. Rice accounts for more than half of total operating surplus. The degree of diversification hardly varies by size of the (dry land) holding.

The four final columns of this table sketch the origins of profits (cf. Keuning [1984a]). Both column (12) and column (14) show very clear and consistent patterns for both wet and dry land: the smaller the land holding size, the more intensive its cultivation and the higher the profits per cultivated hectare (of food crops). This tendency is smoothed somewhat, but not completely, if non-food crops are included. It implies, among others, that agricultural operating surplus is spread less unevenly than agricultural land holdings.

All totals are subject to rounding errors

FARM LAND SAWAH D R Y Type of land 0 Holding 0.75 - 0.99 Holding 0.50 - 0.74 ha Holding 0.75 - 1.49 ha Holding 0.25 Holding Holding Holding 1.00 - 1.99 ha Holding 1.50 Holding Holding Holding Holding Holding н Þ ۳ Ŋ 3.00 0.25 0.50 - 0.74 ha 2.00 - 2.99۲ c ubtotal Þ o (1)rt O z ŧ ПĄ . 3.99 0.49 2.99 Units 0.24 ha U 4.00 0.49 ha 0 3.00 ha Crop . 24 t a ] ha ha ha ha ha ha ha 1014 935 122 46 129 254 244 (2) 141 Rice 12 23 <u>م</u>ــر 10 78 9 6 u o (3) 127 Maize 127 مبر نسر لعا مىر 18 16 24 17 Billions OPERATING SURPLUS (4)202 202 ŧ Cassava 20 53 28 23 35 25 8 10 Of Other Root 60 60 17 (5) 9 9 Crops Rupiahs 65 65 Ľ) <u>۱</u>... Peanut 6) 9  $\infty$ ŧ 61 Soybean 2 5 4 8 8 3 (7) Other Beans (8) 14 14 and Nuts (9) Vegetables 184 84 17 46 25 22 24 (10)281 Fruits 61 62 33 33 19 2008 1072 141 244 129 254 254 122 158 203 125 141 260 260 98 37 TOTAL OPERATING
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FOOD CROP PROFITS AND LAND PRODUCTIVITY BY SIZE-CLASS OF WET AND DRY FARM LAND HOLDING

Table

<u>..</u>

## FOOTNOTES

- 1. See Downey et al. [1982] for more details on classification of factors of production.
- 2. Refer to Keuning [1985] for a more detailed treatment of both an organizational classification of enterprise and methods for disaggregating operating surplus along these lines.
- 3. Paid wages and the number of hours worked (in one or more types of employment) were derived from retabulations of the results of <u>Sakernas</u>, an extensive survey of over 93,000 households, conducted during September-December 1976 [BPS, 1978]. Afterwards total labor payments were reconciled with the input-output tables [Downey et al., 1982].
- 4. All percentages have been calculated from unrounded figures.
- 5. Moir [1981], in a study on Jakarta's informal sector, found that virtually all surveyed enterprises were run on a sole proprietorship basis, that the average size of the enterprise was 1.329, and that the median earnings of enterpreneurs were 2.33 times the median wage of (paid) workers. Imputing the same labor income to entrepreneurs as their employees received, it can be inferred that only about 1.329/(0.329+2.33) x 100% = 50% of value added in these unincorporated firms accrued to labor. Moir also concludes that value added per worker "is not a small sum considering the little capital employed and the conditions under which it is generated" (p.116).
- 6. Refer also to Jones  $[\underline{1981}]$  and Moir  $[\underline{1979}]$  for further evidence on these points.
- 7. The data presented here still neglect seasonal fluctuations in the length of the work week (though not in the number of laborers). As the <u>Sakernas</u> survey was

- conducted in a period of low agricultural activity, the number of worker equivalents in food crop cultivation is even somewhat underestimated.
- 8. Each population is made up of the labor force and the economically inactive. Here the former refers to the people aged 10 or above, who either worked at least an hour a day or were temporarily out of work or were looking for work, during the week preceding the interview [BPS, 1978]. In urban areas 31.0% of the inhabitants belong to the labor force, against 39.6% in rural areas. This disproportion is more pronounced among women. Population and labor force data were derived from the 1976 Sakernas survey, scaled up about 2% in order to correct for undercoverage.
- 9. The gap in real wages is smaller because of higher costs-of-living in the cities, particularly for housing (cf. Downey [1984]).
- 10. An outcome precisely equal to one means a total work week of 40 hours for a typical member of the group Since the number of worker equivalents in a concerned. few minor sectors has been adjusted during the reconciliation process (which left aside the labor force data as such), the ratios presented above may not be Nevertheless the gap is sufficiently large to justify the conclusion that more employment opportunities exist in the cities (assuming an equal preference for leisure in both locations). A sectoral disaggregation revealed that underemployment is severe in food In the slack season (cf. footnote crops cultivation. 15) it mostly takes less than 32 hours a week of those who are primarily working in that activity.
- 11. Some of the social and cultural elements, here summarized as the disutility of moving, are discussed by Hugo [1981] who specifically refers to Indonesia.
- 12. All wage rates have been weighted with the number of worker equivalents in each group.

- 13. Neither do the early theories of dualism provide a sufficiently satisfactory explanation. There are other authors who also point to the existence of distinct segments in the Indonesian labor market (e.g. Manning [1980]). We will see below that also both sexes do not seem to operate on the same market.
- 14. Keuning [1984b:table 4] gives a condensed overview of gender differences in the labor market.
- 15. It can be inferred from column a) of table 3.1. that wages and salaries (computed from the input-output table) partly serve as an imputed payment for the labor of self-employed farmers. However, most of farmers' income is included in operating surplus.
- 16. Among regions the cropping patterns are much less similar. Kalimantan specializes in rice while Java/Bali and the Eastern part of Indonesia yield a greater variety of food crops.

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