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William E. James Chief, Research Division, ICSEAD

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The International Centre for the Study of East Asian Development, Kitakyushu

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By William E. James, Chief, Research Division, ICSEAD*

Abstract

Indonesia, Korea and Thailand were the Asian countries most seriously affected by the financial and balance of payments crises that began in Thailand in July 1997. This study examines the impact of the "twin crises" on international trade and trade-related economic activity with a focus on non-oil/gas imports and exports in the case of Indonesia in the period of 1997 to mid-year 1999. The severe currency depreciation did result in a real depreciation and a change in relative prices of tradable to non-tradable goods and services in the case of Indonesia. The resulting rise in net exports in the current account (measured in US dollars) was mainly the result of import compression not export expansion. The volume of exports expanded, however, weak international prices in US dollar terms meant that the value of merchandise exports declined. The evidence suggests that export recovery could occur if prices rebound. Imports of food for household consumption actually increased in 1998 compared with 1997. Moreover, import compression did not affect all sectors equally. Textiles and apparel were able to maintain imports and exports at close to pre-crisis levels. Electrical machinery exports also fell by a smaller amount than one would have expected, given the dependence on imported components. Changes in the direction of trade were also fairly significant and will require future research to understand fully.

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Introduction

The purpose of this study is to examine the impact of the currency and financial crisis on Indonesia's international trade and trade-related economic performance. The focus is on trade-related economic activity and indicators, particularly on non-oil/gas exports and imports in the period of 1997, 1998 and early 1999. A summary of Indonesia's balance of payments in recent years, including the first three quarters of 1998, reveals the severity of the adjustment that has taken place in shifting from a deficit on current account to a surplus (Table 1).¹ Within a period of one year, Indonesia went from a current account deficit of nearly \$5 billion (1997) to a surplus of an estimated \$3 billion (1998).

The depreciation of the Indonesian rupiah in 1997 and 1998 went further than did that of the other Asian countries. Taking June 1997 as a benchmark, the nominal depreciation of the rupiah against the US dollar reached 80% in mid-1998 (Toida 1999, Bank Indonesia 1999). Although recovering somewhat over the remaining months of 1998 and again in mid-1999, the rupiah was still down nearly 70% from the benchmark in May 1999.² In countries experiencing a twin currency and financial crisis, it is noted

¹ A similar adjustment process has taken place in Korea and Thailand, as is reported in Bank of Korea (1999) and Bank of Thailand (1999). In both cases, data for the full year 1998 are available, with Korea running a current account surplus of over \$40 billion and Thailand of over \$14 billion.

 $^{^2}$ The extent of the decline of the rupiah cannot be explained by "fundamentals" alone. Indonesia was the victim of contagion effects, panic (loss of confidence) and huge political uncertainties. It is not my purpose to evaluate the causes of the currency crisis or the banking crisis, rather it is to begin to examine the impact of the crisis on the trade sector of the real economy.

that the combination of massive currency depreciation and high domestic interest rates may lead to a vicious cycle that aggravates the severity of the banking sector's woes (Kamininsky and Reinhart 1999). This appears to be taking place in Indonesia and this has implications for the analysis of the impact of the crisis on international trade and trade-related economic activity. The massive currency depreciation and continued large fluctuations in the rupiah-US dollar exchange rate (the rupiah fell by 10% against the dollar during one week in August 1999) defy conventional economic models of exchange rate behavior. The volatility in the exchange rate and the massive depreciation are far beyond what any reasonable model would have predicted, even allowing for "overshooting" of the equilibrium. The assumptions made in standard models that purport to explain the response of the real economy to changes in the relative price of tradable and non-tradable goods and services do not apply to present circumstances in Indonesia or the other crisis-ridden Asian economies.

The depreciation of the rupiah also undoubtedly contributed to the sharp rise in the cost-of-living as measured by the consumer price index (CPI). According to data based on a sample in 44 cities, one in each province, the CPI grew by 77.6% in 1998. This rampant increase in prices is thought to have impacted the poor, particularly those poor households in urban areas the hardest (Levinsohn, Berry and Friedman 1999). The households that suffered job losses in urban areas may have been particularly adversely affected by the cost-of-living increases. Import prices have surged as a result of the depreciation and have no doubt contributed to the general cost-of-living increase. However, it is also important to recognize that other factors have also been at work

including a serious drought that reduced agricultural production. Imports of essential commodities may in fact have mitigated the rise in the cost-of-living.

The high inflation in 1998 has subsided. Even accounting for the effects of inflation and nominal wage increases in response to the inflation, it is apparent that there has been a substantial real depreciation of the rupiah. This is reflected in price data. Wholesale prices of export commodities excluding oil and gas rose by 181.6% by the end of 1998 compared with 1997 (BPS, March 1999). Wholesale prices of import commodities rose by 130% in 1998. In contrast, the general wholesale price index rose by 101.8% in 1998. This index does not include prices of most services only of commodities. The prices of non-traded services such as office rentals, insurance, infrastructure and public transportation did not rise as much as wholesale prices of commodities. As an example, wholesale prices of construction materials rose by "only" 68.1% in 1998, reflecting depressed conditions in the construction industry. Economic Analysis and Currency Depreciation: A Brief Review

In the original framework developed by Salter (1959) the devaluation of the exchange rate (the rise in the relative price of tradables to non-tradables) is modeled in the case of a small open economy. Within the Salter framework the demand and supply responses to a devaluation (expenditure-switching policy) and a contraction in domestic absorption (expenditure-reducing policy) are shown to lead to a shift in resources from production of non-tradables to tradables and a switch in consumption from tradables to non-tradables. The depreciation cum expenditure reduction enables a country to reduce a current account deficit because the relative price change encourages greater production of both exportable and import-competing goods and services while reducing home demand

for both import-competing items and exportables. Production is expected to shift in favor of tradables, because they have become relatively more profitable to produce. The model provides one of the important the intellectual underpinnings for IMF structural adjustment programs. The approach implies the economy smoothly moves to a new equilibrium and maintains full employment all the while. The Salter model rejects the view of export pessimists and assumes the relevant supply and demand elasticity values will satisfy the requirement for a devaluation to lead a country's net exports to rise. Admittedly, in the short-run goods in transit and under contract have already been purchased so their prices cannot be immediately changed, thus devaluation may lead to a temporary lowering of net exports. This J-curve phenomenon has been infrequently observed, however, in actual cases of small developing economies undergoing currency devaluation (Cooper 1971 and Bahmani-Oskooee and Malixi 1992).

The Salter model is based on assumptions of fixed exchange rates and absence of capital mobility, hence, it is not well-suited to the analysis of a depreciation in the exchange rate in an economy that is also experiencing financial sector problems and capital flight. A rather different approach such as Krugman (1979) in which a speculative attack forces a small open economy to abandon a fixed exchange rate and to adopt a floating exchange rate may be more relevant. Furthermore, numerous studies have modeled the possible negative growth effects of a currency devaluation (e.g., Krugman and Taylor 1978, van Wijnbergen 1986). These models hold that even if a country can rely on a devaluation to raise net exports, it does so at the cost of a lower level of economic activity caused by higher costs of imported investment and intermediate goods. Further, if there is low substitutability in production between

imported inputs and primary factors of production the possibility that devaluation will reduce real output increases.

In the present context of flexible exchange rates, studies of discrete currency devaluation may provide some insights, but are not sufficient to analyze currency fluctuations of the magnitude occurring in the Asian crisis economies. The very large fluctuations in nominal exchange rates coupled with the uncertainty in the financial markets may have consequences that make the restoration of stability and growth more difficult than implied by existing models.

One can readily envision difficulties in shifting resources from non-tradable to tradable sectors, particularly when the depreciation coincides with a banking crisis. The run on banks and other financial institutions may lead to paralysis in the financial markets. A collapse of credit may impede operation of industrial capacity, as firms may be unable to obtain working capital. If producers of non-traded goods rely on imported intermediate inputs, they will be forced to reduce output as a result of the currency collapse and rising import prices. Imports of investment goods will also become more costly in real terms for producers of non-tradables. Very high interest rates that result from the effort to stabilize the currency may aggravate the problems in the banking sector and further choke off investment demand. Even if producers of tradables would like to increase capacity, in practice they may face difficulties because of high rates of interest and inability to obtain credit to pay for imported capital and intermediate goods. This coupled with a fall in the level of investment in the non-traded goods sector implies an overall reduction in investment demand. Yotopoulos (1996) models a case where devaluation creates an excess supply of non-tradables, resulting in a type of low-level

equilibrium trap. The emergence of unemployed resources—a contractionary devaluation—has also been documented in previous empirical studies (Cooper 1971, Branson 1986, Edwards 1989, and Agenor 1991). Agenor argues that an anticipated depreciation of the real exchange rate reduces output, but the opposite holds for an unanticipated depreciation.

The implosion of effective demand brought about by depreciation may result in recession and unemployment rather than an improved balance of payments with continuous full employment. Lack of effective demand coupled with the "putty-clay" model of capital, means that an excess supply of labor can emerge even when the domestic real-wage rate is in equilibrium (Power 1973).³ Machinery idled in one sector (with resulting lay-offs of production workers) cannot be used in other sectors in the short-run. Hence, unemployment may exist even if there is no distortion of real wages.

The emergence of short-run unemployment or underemployment in Indonesia (and elsewhere in the region) is one of the serious social consequences of the twin crisis. Economic activity measured by real GDP growth slowed in 1997 and became sharply negative in 1998. Another manifestation of the wrenching situation that is captured in recent trade statistics is the compression of imports.

An Overview of Recent Economic Performance

Real GDP (constant 1993 prices) growth fell from over 7% in 1996 to under 5% in 1997 and became negative (-13.2%) in 1998 (BPS 1999). Private consumption expenditures (-3.3%) and government consumption expenditures (-15.4%) declined in

³ Phelps (1962) is quoted in Jones (1975): "... only new capital is putty. Before their installation, machines can be designed to utilize any desired amount of labour. But once the putty takes shape, it turns to hard baked clay." In other words, the capital cannot be transformed from one use or industry to another in the short-run.

1998 compared with 1997 levels. Gross fixed capital formation (-35.6%) collapsed in 1998. Net exports of goods and services went from being negative (equivalent to -4.3%of GDP) in 1997 to becoming slightly positive (equal to 0.6% of GDP) in 1998. This change in the overall balance of trade (measured in constant 1993 rupiah) thus helped to moderate the decline in overall real GDP and GDP growth.

The composition of real GDP by industrial origin (Table 2) has changed in 1998 compared with 1997. The severest contractions have occurred in construction (-39.74%), quarrying (-39.67%) and banking (-37.45%). Sectors showing the greatest expansion are non-oil/gas mining (21.11%), non-food crops (5.96%), electricity (5.08%), communications (4.83%) and fisheries (4.08%). It is disappointing that non-oil/gas manufacturing contracted more rapidly than overall GDP (-14.48% vs. -13.68%). However, assuming that agriculture (including all sub-sectors), mining (not quarrying) and manufacturing constitute tradables, whereas construction, utilities, quarrying and all services constitute non-tradables, the balance of economic activity shifted towards tradables in 1998 compared with 1997. The share of tradables as defined above in GDP rose from 47.15% in 1997 to 51.12% in 1998. This shift in relative size is consistent with a real depreciation, even though the depreciation was contractionary. Data on employment is not recent enough to evaluate whether labor shifted into tradables. It is known that there have been massive layoffs in many industries and services, with construction and banking being the hardest hit. However, it is not known with any precision to where the displaced labor has moved. That will be a topic for future research once data become available.

Isolating the impact of the depreciation of the rupiah on Indonesia's trade and trade-related economic performance is beyond the scope of this study. First of all, the time frame is not sufficient in duration to do a proper evaluation. Secondly, separation of the impact of one key variable in a situation where several important variables are operating interdependently is not a particularly useful exercise. Finally, virtually all the data being examined are preliminary or very preliminary. Hence, this is more of an exercise in attempting to identify any empirical regularities and to provide the basis for comparison with the other trade-oriented countries that have been hit hardest by the Asian crisis (i.e., Thailand, Korea, and Malaysia). Trade data relevant to an evaluation of the impact of the crisis is readily available. The close association between trade and investment and between these key variables and economic growth has been the focus of recent empirical studies. Frankel and Romer (1999, 394) conclude: "Trade appears to raise income by spurring the accumulation of physical and human capital and by increasing output for given levels of capital." Hence, a decline in the amount of trade is expected to be associated with reduced accumulation and income per capita.

An Overview of Indonesian Trade: Merchandise Exports and Imports

Merchandise exports fell in value (current US\$) in 1998 by 8.6% compared with 1997 on a calendar year basis. The decline is caused by a combination of very weak petroleum and liquefied natural gas (LNG) prices in international markets coupled with a decline in export volume. It is estimated that the volume of oil & gas exports declined by 5%, while unit prices fell by over 32% in 1998 compared with 1997. The share of oil & gas in merchandise exports declined to just 16.1% in 1998 from 21.8% in 1997. The collapse of oil prices to a low of less than \$10 per barrel in 1998 reflects a response to

rising global supply (Iraq has been able to resume exports) and a contraction in demand in Asia. Members of the Organization of Petroleum Exporting Countries (OPEC) have exceeded their export quotas and non-members have also expanded supplies. We will concentrate the remaining discussion on non-oil/gas trade.

Non-Oil/Gas Export Performance in 1998

In a previous study (James 1998a) the prospects for non-oil/gas exports in 1998 were seen as highly uncertain and the official target of 13% growth was seen as overly optimistic. The expectation that exporters would have difficulty despite the massive depreciation of the rupiah was based on the following:

- 1. Although the rupiah depreciation would encourage an increase in the volume of nonoil/gas exports, export prices in dollars appeared to be weak.
- Demand in major markets in Asia, particularly Japan, was declining with the deepening recession.
- 3. Import compression, observed in the latter months of 1997 and early 1998, threatened exports that relied on imported raw materials, intermediates and capital goods.
- 4. Exporters of footwear and other manufactured products were having difficulty obtaining credit for working capital, imported components and export insurance.
- Freight rates were being increased as shipping companies sought to make up for losses resulting from rising imbalances between outward and inward cargo shipments.

The concerns were justified. The volume of trade throughput in Indonesia's main seaports and airports has fallen considerably in 1998 compared with 1997. In particular, the volume of international cargo being unloaded (corresponding to imports) has fallen precipitously at both seaports and airports. In contrast the volume of cargo being loaded (corresponding to exports) has increased by over 20% (Table 3). The imbalance between outward and inward movements of cargo created temporary shortages of containers. Although that problem was resolved, the arrival of half-full vessels has reduced shipping companies' profits and has led them to increase freight charges. An over 20% decline in the volume of domestic trade (which is only slightly less than international trade) has also occurred in 1998 as measured by the volume of domestic cargo throughput in major seaports and airports (BPS, March 1999).

Non-oil/gas exports declined in value in 1998 compared with 1997 by 2% (Table 4). This decline represents the first setback to non-oil/gas exports since the advent of deregulation in 1986. In part, the decline reflects the poor performance in the minerals sector where export volume fell by 1.5% and the current dollar value of exports fell by 13%. These data contrast with the relatively good production performance of non-oil/gas mining (Table 2). However, the decline in export volume (in tons) is accounted for almost entirely by the collapse of exports of granite. Other mineral product export volume, including copper ore and concentrates, nickel, coal, and bauxite increased in 1998 over 1997. Hence, the reduction in the value of mineral exports is almost entirely due to reduced international prices.

Agricultural exports rose by almost 12% over 1997 in current dollar value. Export volume of agricultural commodities was up by over 64%. Hence, although prices were weak in dollar terms, exports still rose in value. However, agricultural products account for less than 8% of overall merchandise exports.

The overall performance of manufactured exports certainly deteriorated in 1998 compared with 1997—alternative growth estimates of minus 4.2 or plus 1.1 percent are the extreme negative and positive values (Table 4) in current prices. The problem of pinning down the true performance of Indonesian manufactured exports arises from the very large amount of exports in the SITC 9 or HS 98 (PEBT) category (see James 1998b for an elaboration).

The real value of merchandise exports (including oil & gas) declined by 2.75% in 1998 compared to 1997, largely the result of a reduced volume of petroleum and LNG exports (Table 5). The real value of non-oil/gas exports increased by 1.58% in 1998. Thus, it can be established that the negative growth of non-oil/gas exports (Table 4) in current prices is likely to be a result of the decline in the international prices of Indonesia's exports rather than a decline in the volume of export shipments. A finer decomposition of real export performance is limited by the problem of the allocation of PEBT exports to certain sectors. An effort is made to overcome this problem below. However, even if one can allocated most PEBT exports to particular sectors, over \$2,337.6 million in current dollar non-oil exports are in a residual "others" category in 1998 compared with \$1,866.0 million in 1997. Hence, 17.5% of non-oil/gas exports cannot be allocated with any precision. This makes it difficult to evaluate growth or contraction in any particular non-oil/gas export category, either in nominal or in real terms.

Data on the pattern of non-oil/gas exports at the SITC 2-digit level, with PEBT (SITC 92) items reported separately, is ranked by nominal dollar value in 1998 (Table 6). The same is done at the 3-digit SITC level (Table 7). Indonesia's comparative advantage

in non-oil/gas exports lies in goods the production of which makes intensive use of semiskilled labor and natural resource inputs. This can be seen in the rankings of leading export commodities at the SITC 2-digit or 3-digit level. Vegetable oil exports (SITC 42 or 422) were sharply reduced (ignoring PEBT) in 1998 compared with 1997. A cause of this drop was the imposition of a ban on exports of palm oil in December 1997 that lasted into 1998, but was eventually replaced with a variable levy on exports. This policy sought to reduce the inflation in cooking oil prices and was partially successful (Marks, Larson and Pomeroy 1998). Cooking oil is considered one of nine essential commodities by the government and accounts for about 4% of the consumption expenditures of poor households (poorest quintile).

Unfortunately, because of a lack of recent information on production inputs into export commodities it is not possible to accurately classify the factor intensities. Using OECD classifications would be misleading. For example, for most electrical machinery produced in Indonesia, value-added is likely to be mainly in the form of labor inputs in simple assembly and packaging rather than in production of components. Hence, it would be misleading to classify these exports as human capital or technology intensive as is done in OECD countries. In addition there is the problem of allocating PEBT items. Hence, we confine our factor intensity analysis to the composition of imports.

The collapse of imports began in late 1997 and worsened in 1998, with the nominal dollar value of merchandise imports declining by over one-third (Table 8). Oil & gas imports in current dollars contracted by nearly as much as total imports in 1998.

Non-Oil/Gas Imports: Import Compression Accelerates

Manufactured imports, which had been about level in 1997, declined precipitously in

1998. Import compression in terms of volume declines in the amount of real imports was severe in 1998 (Table 9).

Imports of non/oil gas products are disaggregated and ranked by 1998 current dollar value at the SITC 2-digit and 3-digit levels (Tables 10 and 11). The factor intensity of non-oil/gas imports may be summarized from Table 7. In 1998, over 54% of the imports covered in Table 10 are technology-intensive goods, 22% are natural resource-intensive, 17% are human-capital intensive and only 6% are labor-intensive. The result of larger natural resource-intensive imports in 1998 is largely due to the drought-related problem that led to a huge increase in rice imports (wheat imports actually declined somewhat in 1998 compared with 1997). The decline in imports is across the board, though manufacturing sectors such as transportation equipment and telecommunications equipment were particularly affected.

Imports are classified into broad economic categories: consumer goods, raw materials and intermediate goods, and capital goods (Table 12). The data reveal that there was a much more severe contraction in imports of capital goods, raw materials and intermediate goods than of consumer goods. Imports of food for household consumption rose by 38.5% year on year. This reflects the efforts of donors and the government to maintain food supplies in the face of the economic crisis and the drought that adversely affected rice production. For consumer items other than food, however, imports fell very sharply. On the basis of these data, one can surmise that food imports had the highest priority compared with any other category of imports. Overall food and beverage imports still fell by 8.9% in 1998 compared with 1997, but much of this reduction was a result of lower demand for income elastic food and beverage products. Imports of rice were

drastically increased in 1998, so that overall cereal imports also expanded despite a drop in the importation of wheat.

The economic crisis brought about a collapse in demand for passenger cars (classified as capital goods) and other transport equipment used by households. The sharp decline in imports of capital goods excluding transport equipment reflects the fall in private investment demand. The compression of imports of raw materials and intermediate inputs for industry except for processed food and beverages is also apparent. These indicators reflect the severity of the economic crisis and the overall decline in production, particularly in manufacturing. The decline in capital goods imports will have a lagged negative effect on the growth of non-oil/gas manufactured exports, if past experience is any guide (James 1997). The capacity of manufacturers to expand production (and exports) in the near-term is sufficient to permit a recovery of exports to pre-crisis levels. However, once the capacity is reached, new investment (and expanded imports of capital equipment) will be vital to sustaining export growth. In order to speed this process, it will be essential to maintain open policies towards investors and to move forward with trade liberalization. Tariffs have been reduced to zero on many machinery items that are used in export-oriented manufacturing (e.g., textile machinery) but remain rather high on intermediate inputs and final goods (between 20-30%).

Imports into the export processing zone in Batam Island and bonded zones are excluded from the data presented in Tables 8 through 12. Bank Indonesia (March 1999) reports that imports into Batam Island and the bonded zones fell from \$7,485 million in 1997 to \$6, 372 million in 1998 (a decline of about 15%).

In the section analyzing key export industries that follows, there will be additional discussion of import compression at the industry level.

Evaluation of Export Performance in Major Industries

Textiles & Apparel. An attempt is made to estimate the value of exports of textile and apparel (including PEBT) in 1998 compared with 1997. It is notable that even not taking into account PEBT items, exports of textile products grew by nearly 5% (Table 13). Exports of textile yarn and woven synthetic fabrics (the two largest categories of exports among textiles) expanded enough to offset declines in less important categories including woven cotton fabrics. Apparel products, however, performed less well, with growth exclusive of PEBT items of -9.4%. Of the major clothing exports (excluding PEBT), only SITC 841 had positive growth. As PEBT textile and apparel items are estimated to have increased by nearly 6% in 1998, overall exports in textiles and apparel very nearly were maintained at the 1997 level despite the economic crisis. It is possible that overall production and employment in textiles and apparel were maintained more closely to levels preceding the crisis than in other industries. However, it is to be noted that production of yarn and synthetic fiber is less labor-intensive than is production of apparel. Hence, it is premature to come to any conclusions regarding the overall level of employment in these industries based on these preliminary estimates. Import trends in textiles and apparel may provide some additional insight into the performance of exports in these sectors.

The imports of raw materials, intermediate inputs and capital goods used in the textiles and apparel sector (although not exclusively) declined in 1998 (Table 14). Cotton is by far the most important imported raw material and imports declined by about 6.7% in

1998. All raw materials used in textiles and apparel fell by about 5.7%. Intermediate inputs (-11%) and capital goods imports (-6.7%) fell by slightly more. However, these declines were far less serious than for many other sectors and suggest that textiles and apparel remain relatively healthy despite the crisis. It is notable that imports of final apparel, textile and leather products declined by a little over 24% (Table 15). Most of these items face relatively high tariffs (15-30%). The decline in imports reflects weak consumer demand. The weakness in consumer demand possibly led producers to concentrate more on export markets in 1998. Hence, exports remained near pre-crisis levels.

Wood Products. Wood products have been among the most important of Indonesia's non-oil/gas exports. However, in recent years there has been a significant falling off of exports of plywood and veneers, by far the most important single non-oil manufactured export at the SITC 2 or 3-digit level (Tables 6 and 7). In 1998, it appears wood products continued to experience negative growth, even when one takes into account all forestry products exported under PEBT. The continued collapse of plywood exports in 1998 appears to be principally due to lower international prices. The volume of plywood exports actually increased (by 4.5%) over 1997 and although this is below 1996 export volume, it indicates that potential for recovery of exports in value terms is possible if prices improve. Wood products are not import-intensive and, if domestic supplies of raw materials are sufficient, should be among the earliest export sectors to recover from the impact of the crisis once external demand improves. The doubling of PEBT exports in 1998 to over \$1.5 billion (Table 16), makes it hazardous to speculate about the actual performance of other manufactured wood products such as wood

furniture. The prospects of this sector could improve with a rationalization of policies to ensure greater incentives to replant trees and to harvest logs on the basis of highest valued uses. The prohibitive export taxes on logs and simply worked timber have discouraged both replanting and efficient allocation of the raw material. A breaking up of the vertical integration between plywood mills and forest concessions would encourage a greater role for market forces to determine the allocation of these increasingly scarce resources. Increased public awareness of the performance of forest concessionaires would also tend to strengthen pressure for effective enforcement of environmental regulations and replanting requirements.

Electronics. Electrical machinery has been one of the fastest growing export sectors in recent years. The sector is heavily dependent upon imported components and therefore is likely to be particularly vulnerable to the impact of the crisis. Electronic and electrical machinery exports excluding PEBT fell in 1998 compared with 1997, by over 22% in the case of consumer electronic products and by about 4% for electrical machinery. However, including PEBT the decline was a little under 10% (Table 17). By far the most important export in value terms in 1997 is sound recorders (SITC 762). However, exports contracted by nearly 40% in 1998, leaving telecommunications equipment and parts (SITC 764) as the largest item (exclusive of PEBT). It is interesting to note that imports of SITC 764 (Table 11 above) were among the most savaged import items. The decline in imports had less impact on exports in telecommunications equipment than one would expect. It appears that the brunt of the import reduction was related to the decline domestic demand rather than export production, as exports fell by less than 3% (exclusive of PEBT). Moreover, it is also interesting that electrical

machinery exports fell by so little. The presence of affiliates of multinational corporations with access to strong international marketing networks and imported components from multinational parents may be a possible explanation. Unlike auto companies, electronic firms are outward-oriented and are granted only modest tariff protection. Further research may shed additional light on the performance of the electrical machinery industry.

Rubber. Rubber-based products have traditionally been a major export item. The decline in natural rubber is purely due to reduced international prices as the volume of rubber exports rose by over 19% in 1998 compared with 1997. The decline in natural rubber exports accounts for most of the decline in overall rubber-based exports in 1998 (Table 18). Again, this implies that a rebound in commodity prices will allow exports to recover quickly in these sectors.

Footwear & Leather. Footwear and leather products are another labor-intensive export that underwent booming conditions in the early to mid-nineties. Footwear exports apparently declined in 1998 (Table 19), a setback to a sector that had performed relatively well up until 1996. Given the large amount of unclassified items in PEBT, it is difficult to make a definitive statement based on these data alone. However, discussion with a member of the Footwear Exporters' Association in May 1998 revealed that footwear exporters were having difficulty in financing imported components and in obtaining export insurance. The financial position of footwear manufacturers may have been an underlying reason for declining export performance in 1998.

Toys. Exports of toys and related items appear to have fallen by over 12% in 1998 even when including PEBT items (Table 20). These miscellaneous manufactured

goods are generally labor-intensive but also require imported inputs. One problem is that Indonesia has maintained high tariffs of 25% on children's toys and games and on many items of sporting goods. The development of exports has been a secondary concern to producers who have enjoyed a protected local market where demand was booming until the crisis struck. Reducing tariffs on these items would encourage producers to seek to cut costs and gear production more towards export markets.

Direction of Trade: Impact of the Asian Crisis

Non-Oil/Gas Exports. The impact of the East Asian economic crisis on the direction of non-oil/gas exports is not simple. As one would expect, there has been a sharp decline in exports to slumping economies such as Japan and Korea. In fact, Japan has, until 1998, been the largest single national market for Indonesia's non-oil/gas exports (Table 21). The sharp drop of non-oil/gas exports to Japan (-23.1%) and Korea (-17.5%) contrasts with the relatively good performance in Singapore (11%) and China (10.7%). However, non-oil/gas exports fell by 16.8% in the Philippines. In the case of Taiwan there was a small increase of about 3%. Non-oil/gas exports also grew by 4.8% to Hong Kong despite its recession. And in the case of Thailand, such exports grew by over 31% in 1998. What explains the sharp rise in exports to Thailand? One possibility is that substitution of imports from high quality and cost to low cost and quality is taking place. For example, Thai consumers may be switching from high quality European products to cheaper items from nearby sources of supply. A parallel study of Thailand's trade response to the crisis will attempt to analyze this issue further.

In looking at trade with major regions, there are also some interesting developments. Non-oil/gas exports to ASEAN member countries rose by over 7% and

the share rose by almost 2 percentage points (Table 21 bottom panel). Despite tariff preferences, intra-ASEAN trade remains smaller than trade with four Northeast Asian economies: Hong Kong, Japan, Korea and Taiwan. However, in 1998 there was a sharp decline in the share going to the four. Unfortunately, information on detailed commodity trade flows with partners is not yet available. Another interesting contrast is between the EU and NAFTA. In the former there was a decline in non-oil/gas exports. In the case of NAFTA, growth was minimal, despite the robust US economy. It is likely that much of the non-oil/gas exports to Singapore are not consumed there but are transshipped to other markets, including the USA. Hence, the growth of non-oil/gas exports to NAFTA is probably underestimated. Singapore does not publish statistics on trade involving Indonesia, thus, it is not easy to reconcile differences in trade estimates provided by Indonesia and its trade partners in North America.

Non-Oil/Gas Imports. Import compression in Indonesia resulted in negative import growth in 1998 in the case of almost every major trading partner (Table 22). The exception is Vietnam and this is probably because of the drought-induced rise in Indonesia's demand for imported rice. In the case of Thailand, imports fell by relatively little, again probably because of rice imports.

Imports of non-oil/gas products fell most sharply in the case of India, followed by Sweden, Japan, Italy, Malaysia, France and Brazil (all over –40%). It is not yet clear why imports from these locations fell by the greatest amount. For example, why did imports from Germany fall by only 10% but those from some other EU members fall by a much greater percent? Again, one suspects that the substitution of cheaper, lower quality and nearby imported goods for expensive, high quality and distant items is occurring.

However, this explanation would seem in conflict with the sharp drop in imports from India. Hence, until detailed commodity trade statistics by partner become available it is difficult to arrive at any conclusions.

Examination of imports of non-oil/gas products by major region reveals that import compression was lower for imports from ASEAN than from EU, NAFTA or NE Asia. In the latter case, despite geographic proximity, imports fell by the greatest amount. This may be because of the concentration of imports in intermediate components, machinery and capital goods—sectors that have been hit hard by the crisis.

Recent Trends in Non-Oil/Gas Exports and Imports

Monthly reports on exports and imports in 1999 have been used to compile tables on the performance of non-oil/gas exports and imports during the first six months of 1999. Non-oil/gas exports continued to decline (year-on-year) during this period by 12.8%. However, it appears that the bottom was hit in early 1999, with the level of non-oil/gas exports improving by almost 16% in the second quarter compared with the first (Table 23).

Non-oil/gas imports show a similar pattern to exports, with growth in the second quarter over the first quarter of 1999 reaching 10% (Table 24). The sharp decline in both non-oil/gas exports (-22%) and imports (-16%) in June 1999 probably reflects the fact the country was in the midst of its first free election campaign in many years. The surplus in non-oil gas trade is slightly lower in the first half of 1999 (\$7,683.2 million) than 1998 (\$8,660.5 million).

Are there signs of recovery? GDP data released for the first quarter of 1999 are positive, indicating that the recovery is beginning. There are several other positive signs

including the strengthening of the rupiah following the election to the 6,500 level, falling interest rates and rising stock prices. However, the rupiah's rally ended with the Bank Bali fiasco and the currency had fallen to around 7,650 per US dollar in late August. Hence, with the continuing political uncertainty (the new President and Vice-President have yet to be selected) it is too early to confirm that a sustained recovery is underway. Boediono (1999: 1) points out in a recent speech, the recovery in oil prices is bolstering oil and gas exports in 1999 compared with 1998, however, non-oil exports remain weak.

External Problems Threatening the Recovery. The recovery of non-oil/gas exports is an essential condition for a sustained recovery. This does not necessarily mean a return to the booming growth of the pre-crisis period. However, it is true that a return to positive economic growth for a prolonged period will require a rising level of exports to support debt servicing and to allow investment to recover. In this context it is worth mentioning external problems that may hinder a rebound in exports. The first problem is the increasing tendency of countries to make use of antidumping as a remedy to surging imports. Indonesian exports have been threatened by antidumping duties in recent years in the EU, North America and Australia (Trewin and Bosworth, 1999). However, it is also true that antidumping actions have been instigated within ASEAN as well. This tendency threatens almost any export that begins to gain market share. Hence, greater discipline over use of antidumping is clearly in Indonesia's interest. In addition to the antidumping problem, other types of hidden protection are increasing. In particular, use of restrictive rules of origin in preferential trading arrangements is an issue that has not been adequately addressed by the multilateral trading system. A recent study of NAFTA rules of origin governing trade in textiles and apparel reveals that trade diversion from

Indonesia and other East Asian textile exporters has taken place on a large scale (James and Umemoto 1999). There is as of yet almost no control over the use of rules of origin at the multilateral level. These rules may be used for purposes of commercial policy rather than simply to designate country or territory of origin.

Conclusions

The preliminary nature of the data and the problems that arise in attempting to allocate exports to broad industry categories because of the large amount of exports in the PEBT category caution me from making any strong conclusions regarding differences about export performance at the industry level. However, it is clear that several important export sectors aside from oil and gas were adversely affected by low international commodity prices. There is also some evidence that key export sectors in manufacturing including textiles and apparel, wood, and electrical machinery have good potential on the supply side to resume growth in the short-term. These sectors have either avoided the severe import compression affecting many other sectors or have resilience due to the presence of multinational enterprises. In the case of wood products, a recovery of international prices associated with a broader recovery of domestic housing demand could help exports return to pre-crisis levels. However, the domestic supply of raw material in wood-based industries may not be sustainable at present levels.

The collapse of imports of capital goods is clearly linked to the fall in investment demand in the private sector. The existence of excess capacity will allow for some growth to take place without much new investment. However, a stagnation of capital goods imports may constrain growth of non-oil exports after a year or so.

It is encouraging that Indonesia has continued to implement tariff reform and to remain open to foreign investment. There is still much to be done to reduce barriers to both international and domestic trade in Indonesia. Indonesia also needs to work hard to maintain and improve its market access in the international markets. Threats to market access in the forms of contingent protection need to be urgently addressed in this context.

It is too early to proclaim that Indonesia is on a "V-shaped" recovery path. It is recognized that all major parties are committed to the continuation of current policies of openness and structural reform. However, implementing effective policies and making the institutional reforms necessary will be difficult. The in-coming government will need to work with skill and determination if the recovery is to be sustained.

Indonesia's experience since the twin financial and currency crises of 1997 reveals that net exports have responded positively to the massive real depreciation. The depreciation coupled with the financial crisis has been contractionary in nature. The rise in net exports has been accomplished through import compression rather than expansion of exports. The increase in net exports has shifted the current account from deficit to surplus within a very short time period. The pattern of imports indicates that priority has been given to imports of food for household consumption. Import compression has been widespread, but in the case of textiles and apparel, imports have been maintained at close to pre-crisis levels. This has helped to maintain textile and apparel exports. For many commodity exports, the decline in dollar value is caused by low international prices (in foreign currency) as the volume of exports has risen. Hence, recovery in exports is likely to be enhanced if prices begin to rise. Sectors that are fairly open and that have foreign

ownership in the form of affiliates of multinationals such as electrical machinery may also be less affected by the crises.

Further studies of the impact of the twin crises on trade-related economic activity in the other economies most afflicted would help clarify some of the issues raised in the present study.

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	1995	1996	1997	1998 1	/ 1998-1	1998-II	1998-III	1998-IV
Exports	47,454.0	50,188.0	56,297.0	26,019.0	12,827.0	13,193.0	13,466.0	na
(% Change)	18.0	5.8	12.2	na	-7.1	-9.1	-6.3	na
Imports	-40,921.0	-44,240.0	-46,223.0	-16,228.0	-8,006.0	-8,222.0	-8,366.0	na
(% Change)	26.6	8.1	4.5	na	-25.0	-26.9	-31.4	na
Trade balance	6,533.0	5,948.0	10,074.0	9,791.0	4,821.0	4,971.0	5,100.0	na
Net services & transfers	-12,964.0	-13,611.0	-14,964.0	-8,121.0	-3,821.0	-4,301.0	-3,417.0	na
Current account balance	-6,431.0	-7,663.0	-4,890.0	1,670.0	1,000.0	670.0	1,683.0	na
Capital and financial accou	int 10,259.0	10,847.0	-607.0	-5,998.0	-6,203.0	1,195.0	-399.0	na
Net errors & omissions	-2,254.6	1,318.7	-2,384.4	510.0	294.0	210.0	665.0	na
Balance of payments	1,573.4	4,502.7	-7,881.4	-3,818.0	4,909.0	-2,075.0	-1,949.0	na
Balance of payments	1,573.4	4,502.7	-7,881.4	-3,818.0	4,909.0	-2,075.0	-1,949.0	na

 Table 1.
 Balance of Payments Summary: Indonesia (US\$ millions, current prices)

na=not available growth rates are year on year

1/ Jan-June 1998

Source: annual data is from IMF, IFS CD-Rom and July 1999. 1998 quarterly data is from Buro Pusat Statistik, Indikator Ekonomi, May 1999.

Industrial Origin	1997	1998	Annual % Change
Agriculture, Livestock, Forestry and Fisheries	64,289.5	64,433.5	0.22%
Food Crops	32,752.8	32,410.1	-1.05%
Non-Food Crops	10,483.0	11,107.8	5.96%
Livestock and Products	7,483.1	7,002.8	-6.42%
Forestry	6,960.6	7,032.8	1.04%
Fisheries	6,610.1	6,880.0	4.08%
Mining and Quarrying	38,385.9	36,787.5	-4.16%
Crude Petroleum and Natural Gas	23,919.8	23,412.7	-2.12%
Mining Excluding Oil & Gas	7,645.6	9,259.9	21.11%
Quarrying	6,820.6	4,114.9	-39.67%
Manufacturing Industries	108,828.6	94,808.3	-12.88%
Petroleum Refineries & Gas	10,650.3	10,846.7	1.84%
Manufacturing Excluding Oil & Gas	98,178.3	83,961.6	-14.48%
Utilities	5,498.6	5,702.1	3.70%
Electricity	4,464.7	4,691.6	5.08%
Gas	269.7	224.2	-16.87%
Water	764.2	786.3	2.89%
Construction	35,040.6	21,116.4	-39.74%
Trade, Hotels & Restaurants	73,503.6	59,572.2	-18.95%
Wholesale & Retail Trade	58,822.1	47,287.4	-19.61%
Hotels	2,729.2	2,485.9	-8.91%
Restaurants	11,952.3	9,798.9	-18.02%
Transportation and Communications	32,169.4	28,051.4	-12.80%
Transportation	25,996.0	21,580.1	-16.99%
Communications	6,173.4	6,471.3	4.83%
Financial and Business Services	38,730.1	28,372.4	-26.74%
Banking	16,501.1	10,321.7	-37.45%
Non-Bank Financial Services	3,382.7	2,800.5	-17.21%
Services Allied to Finance	259.3	216.1	-16.66%
Real Estate	11,825.6	9,380.2	-20.68%
Business Services	6,761.4	5,653.9	-16.38%
Other Services	37,649.1	35,874.9	-4.71%
Government	23,616.5	21,965.3	-6.99%
Private	14,032.6	13,909.6	-0.88%
GDP	434,095.5	374,718.8	-13.68%
Non-Oil/Gas GDP	399,525.4	340,459.4	-14.78%

Table 2. Composition of Gross Domestic Product by Industry (Billion Rupiah, constant 1993 prices)

Source: Biro Pusat Statistik, Indikator Ekonomi, March 1999.

Throughput at 4 Main Seaports:	1997	1998	% Change
Cargo Unloaded	32,595,535	19,987,787	-38.68%
Cargo Loaded	17,717,968	21,457,856	21.11%
Sub-Total Seaport Throughput	50,313,503	41,445,643	-17.63%
Throughput at 5 Main Airports:			
Cargo Unloaded	122,352	61,578	-49.67%
Cargo Loaded	170,215	169,967	-0.15%
Sub-Total Airport Throughput	292,567	231,545	-20.86%
Total	50,606,070	41,677,188	-17.64%

Table 3. Indonesia: Volume of International Trade at Main Seaports and Airports (tons)

Source: Biro Pusat Statistik, Indikator Ekonomi, March 1999.

Item	1997	1998	Growth Rate (annual % change)
Total Merchandise Exports	53,444	48,848	-8.6
Oil & Gas Exports	11,622	7,872	-32.3
Non-Oil/Gas Exports	41,821	40,976	-2.0
Manufactures (SITC 5 through 8)	23,144	22,179	-4.2
Manufactures (SITC 5 through 9)	29,863	30,202	1.1
SITC 9	6,179	8,023	19.4

Table 4. Indonesia's Export Performance in 1998 Compared with 1997 (F.O.B. in millions of current US\$)

Item	1997	1998	Growth Rate (annual % change)
Real Merchandise Exports	54,241	52,752	-2.75%
Real Non-Oil/Gas Exports	43,059	43,739	1.58%

Table 5. Real Export Performance of Indonesia, 1997 and 1998 (F.O.B. in millions of 1995 US \$))

Note: The Deflator is the US Import Price Index (unit values, 1995=100).

Source: See Table 1, also International Monetary Fund, International Financial Statistics, July 1999 and Bureau of Labor Statistics, BLS Home Page, International Price Index.

(US\$200 million minimum)	
Value: SITC 2-digit Categories	
1998 Non-Oil/Gas Export Performance Ranked by '	
Table 6.	

98 Rank	SITC No.	Description	1997	1998	97 Rank
			(US\$ millions, curr	rent prices)	
-	92	PEBT Items	5,965.8	7,548.2	
2	63	Wood & Cork Manufactures	4,454.8	2,736.2	2
ო	84	Wearing Apparel	2,903.5	2,630.3	က
4	65	Textile Products	2,254.7	2,359.2	4
5	89	Miscellaneous Manufactures	1,247.1	2,109.4	13
9	03	Fish & Shrimp	1,619.4	1,614.4	8
٢	07	Coffee, Tea, Cocoa & Spices	1,285.3	1,516.5	12
∞	28	Metal Ores & Scrap	1,737.5	1,475.2	7
6	64	Paper & Paperboard Manufactures	925.9	1,415.0	15
10	76	Telecommunications Equipment	1,752.8	1,360.5	9
1	32	Coal	1,491.4	1,349.6	10
12	85	Footwear	1,531.0	1,206.1	6
13	42	Vegetable Oils & Fats	2,196.0	1,152.5	5
14	23	Crude Rubber	1,501.4	1,110.0	10
15	77	Electrical Machinery	1,073.2	1,029.1	14
16	75	Office Machinery & Computers	919.8	800.1	16
17	51	Organic Chemicals	645.0	761.8	19
18	25	Pulp & Paper	489.8	690.0	21
19	68	Non-Ferrous Metals	653.3	624.6	18
20	67	Iron & Steel	327.8	614.2	25
21	57	Plastics in Primary Form	334.1	493.5	23
22	97	Monetary Gold	224.0	474.5	33
23	79	Power Distribution Equipment	95.3	394.7	na
24	43	Animal Fats & Oils	85.4	364.7	na
25	69	Other Metal Manufactures	476.0	364.4	22
26	82	Furniture	758.7	355.1	17
27	71	Machinery for Power Generation	170.6	332.5	na
28	66	Non-Metallic Minerals	303.9	331.8	28
29	78	Road Vehicles	324.8	311.8	26
30	12	Tobacco	245.8	254.3	31
31	62	Rubber Manufactures	269.1	251.0	30
32	74	Industrial Machinery & Equipment	190.6	223.3	na
33	55	Essential Oils & Perfume Materials	188.7	222.1	na
34	05	Fruit & Vegetables	245.2	200.9	32

98 Rank	SITC No.	Description	1997	1998	97 Rank
			(F.O.B., in millions	of current US\$)	
1	921	PEBT Items	5,965.8	7,548.2	1
2	634	Plywood, Veneers	3,742.8	2,232.1	2
3	897	Gold, Silverware, Jewelry, nes	701.4	1,660.1	17
4	321	Coal	1,484.8	1,346.4	7
5	283	Copper Ore & Concentrates	1,497.3	1,307.5	6
6	851	Footwear	1,531.0	1,206.1	4
7	641	Paper & Paperboard Manufactures	714.8	1,187.1	15
8	422	Fixed Vegetable Oil	2,174.8	1,150.3	3
9	231	Natural Rubber	1,498.8	1,106.3	5
10	036	Crustaceons, Molluscs	1,045.9	1,038.0	8
11	841	Men's Coats, Not Knitted	878.2	942.9	9
12	653	Woven Synthetic Fabrics	854.0	905.4	11
13	651	Textile Yarn	763.3	889.5	13
14	842	Women's Coats, Not Knitted	858.7	692.3	10
15	251	Pulp & Waste Paper	489.8	690.0	23
16	759	Office Machinery & Parts	619.3	683.9	19
17	071	Coffee	529.7	615.8	21
18	764	Telecommunications Equipment	629.7	614.3	18
19	845	Articles of Apparel, nes	578.2	542.9	20
20	635	Wood Manufactures, nes	711.8	504.1	16
21	072	Сосоа	407.7	489.3	26
22	763	Sound Recorders	803.7	486.7	12.0
23	971	Monetary Gold	224.0	474.5	37
24	034	Fish, Fresh & Frozen	430.5	394.8	24
25	778	Electrical Machinery & Apparatus, nes	412.5	382.0	25
26	793	Ships, Boats, Floating Structures	71.1	365.4	na
27	431	Animal & Vegetable Oils, nes	85.4	364.7	na
28	821	Furniture	758.7	355.1	14
29	652	Woven Cotton Fabrics	299.1	292.5	29
30	075	Spices	246.4	284.5	33
31	687	Articles of Tin	274.5	280.6	30
32	673	Flat, Rolled Iron	106.6	276.2	na
33	716	Rotating Electrical Plant	127.8	261.6	na
34	574	Poliacetals, Polycarbonates	173.3	248.6	na
35	684	Articles of Aluminum	303.4	246.6	28
36	642	Articles of Paper	211.1	227.9	40
37	773	Electrical Distribution Equipment, nes	183.5	226.5	na
38	514	Nitrogen Compounds	203.2	218.7	44
39	762	Radio Broadcasting & Receiving Equipment	254.4	215.6	32
40	625	Rubber Tires & Tubes	232.7	213.8	36
41	513	Carboxylic Acids, Derivatives	222.5	201.6	38

Table 7. Indonesia's Non-Oil/Gas Export Performance in 1998 vs. 1997, SITC 3-digit Categories Ranked by Value (US\$ 200 million minimum)

Item	1997	1998	Growth (% annual change)
Total Merchandise Imports	41,680	27,337	-34.41%
Oil & Gas Imports	3,924	2,664	-32.11%
Non-Oil/Gas Imports	37,756	24,673	-34.65%
Manufactured Imports (SITC 5-8)	31,524	19,532	-38.04%
Manufactured Imports (SITC 5-9)	31,525	19,534	- 38.04%

Table 8. Indonesia's Import Performance in 1998 Compared with 1997 (CIF, in millions of current US\$)

Note: Imports into Bonded Warehouse areas and Batam Island are not included in the above.

Table 9. Indonesia's Real Imports and Import Growth in 1998 Compared with 1997 (CIF, in millions of US\$, 1995 prices)

Item	1997	1998	Growth (% annual change)	
Real Merchandise Imports	42,302	29,522	-30.21%	
Real Non-Oil/Gas Imports	38,874	26,337	-32.25%	

Note: The deflator is the US Import Price Index (1995=100).

Source: See Table 1, also International Monetary Fund, International Financial Statistics, July 1999 and Bureau of Labor Statistics, BLS Home Page, International Price Index.

	Table 10.	Indonesia's Non-Oil/Gas Im	port Performance in	1998 Ranked by	Value: SITC 2-digit Categories	(US\$ 200 million minimum
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98 Rank	SITC No.	Description	Factor Intensity	1997	1998	97 Rank	Growth (% change)
		·		(CIF, in millions o	of current US\$.)		
1	72	Specialized Industrial Machinery	TC	4,278.2	2,852.2	1	-33.33%
2	74	General Industrial Machinery	TC	3,381.1	2,256.4	2	-33.26%
3	04	Cereals and Preparations	NR	1,097.3	1,565.1	10	42.63%
4	51	Organic Chemicals	TC	2,222.7	1,491.4	5	-32.90%
5	67	Iron and Steel	HC	2,239.5	1,431.9	4	-36.06%
6	77	Electrical Machinery & Apparatus	TC	2,160.4	1,241.8	6	-42.52%
7	71	Power Generating Equipment	TC	1,877.0	1,154.4	7	-38.50%
8	65	Textile Products	UL	1,152.2	1,021.0	9	-11.39%
9	26	Textile Fibers & Waste	NR	1,054.4	991.3	11	-5.98%
10	78	Road Motor Vehicles	HC	2,592.9	940.0	3	-63.75%
11	69	Metal Manufactures, nes	HC	984.1	715.3	12	-27.31%
12	57	Plastics in Primary Form	TC	958.9	672.9	13	-29.83%
13	59	Chemical Products, nes	TC	767.6	617.9	15	-19.50%
14	25	Pulp & Paper	NR	616.5	612.8	17	-0.60%
15	68	Non-Ferrous Metal	NR	824.8	521.2	14	-36.81%
16	76	Telecommunications Equipment	TC	1,778.8	504.7	8	-71.63%
17	73	Metal Working Machinery	TC	515.2	416.9	20	-19.08%
18	79	Other Transportation Equipment	TC	636.1	396.3	16	-37.70%
19	53	Paints & Other Dying & Tanning Materials	HC	534.6	394.5	19	-26.21%
20	52	Inorganic Chemicals	TC	504.9	386.0	21	-23.55%
21	06	Sugar, Molasses & Honey	NR	464.2	376.4	22	-18.91%
22	87	Precision Instruments	TC	405.9	345.9	25	-14.78%
23	89	Miscellaneous Manufactures	UL	426.1	344.9	24	-19.06%
24	08	Annimal Feed	NR	611.1	282.4	18	-53.79%
25	64	Paper & Paperboard	HC	345.3	242.8	28	-29.68%
26	66	Mineral Manufactures	NR	447.8	231.7	23	-48.26%
27	27	Crude Fertilizers and Minerals, nes	NR	309.7	226.7	30	-26.80%
28	61	Leather & Leather Products, nes	NR	251.5	224.8	34	-10.62%
29	55	Perfumes & Cleaning Products	HC	283.3	200.1	31	-29.37%

Note: Excludes imports of Bonded Warehouse areas and Batam Island.

NR=natural resource-intensive UL=labor-intensive HC=human capital-intensive TC=technology-intensive na=not applicable

Sources: BPS, Buletin Ringkas, March 1998 and 1999. L. Krause (1987), "The Structure of Trade in Manufactured Goods in the East and Southeast Asian Region,"

in C. Bradford and W. Branson (eds.), Trade and Structural Change in Pacific Asia, University of Chicago Press.

Table 11. Indonesia's Import Performance in 1998 vs.1997, SITC 3-digit Categories Ranked by Value (excluding petroleum & gas)

(US\$ 200 million minimum)

			Fastan latan itu	4007	4000	07 David	
98 Rank	SITC NO.	Description	Factor Intensity	1997	1998	97 Rank	Growth (% change)
		D :		(CIF, in millions of	r current US\$.)		
1	042	Rice		108.9	861.1	na	690.73%
2	728	Specialized Industrial Machinery	IC	1,593.2	826.1	2	-48.15%
3	263	Cotton	NR	818.8	763.7	6	-6.73%
4	724	Textile & Leather Working Machinery	TC	783.8	731.5	7	-6.67%
5	041	Wheat, Unmilled	NR	776.5	630.4	8	-18.82%
6	251	Pulp & Waste Paper	NR	616.5	612.8	12	-0.60%
7	723	Civil Engineering Equipment	TC	831.3	529.9	5	-36.26%
8	741	Heating & Cooling Equipment	TC	857.4	505.5	4	-41.04%
9	725	Paper & Pulp Mill Machinery	TC	594.6	494.3	14	-16.87%
10	764	Telecommunications Equipment & Parts	TC	1,707.2	482.5	1	-71.74%
11	511	Hydrocarbons, Derivatives, nes	TC	729.5	443.0	9	-39.27%
12	679	Iron & Steel Tubes & Pipes	HC	505.2	441.3	18	-12.65%
13	784	Motor Vehicle Parts & Accessories	HC	1,297.2	387.9	3	-70.10%
14	772	Electrical Switches & Circuits	TC	587.5	378.2	16	-35.63%
15	061	Sugar, Molasses & Honey	NR	454.1	371.7	23	-18.15%
16	575	Other Plastics in Primary Form	TC	482.3	369.5	21	-23.39%
17	743	Pumps, Compressors, Fans	TC	521.5	322.8	17	-38.10%
18	673	Flat. Rolled Iron	HC	503.4	317.6	19	-36.91%
19	598	Miscellaneous Chemical Products, nes	TC	391.7	313.7	26	-19.91%
20	712	Steam Turbines	TC	237.4	305.7	na	28.77%
21	778	Electrical Machinery & Parts nes	TC	4837	297.4	20	-38.52%
22	515	Organo-Inorganic Compounds	ŤČ	347.5	289.0	na	-16.83%
23	716	Rotating Electrical Plant	TC	466.3	284.5	22	- 38 99%
24	081	Animal Feed	NR	611.1	282.4	13	-53 79%
25	874	Measurement & Control Instruments	TC	322.2	273.5	na	-15 11%
26	512	Alcohols Pheno-Alcohols	TC	366.6	273.0	31	- 25 42%
20	747	Tape Cocke Valves etc	TC	201 7	273.4	51	-13 20%
28	513	Carboxylic Acids Derivatives	TC	408.7	253.2	25	- 38 20%
20	782	Coods for Specialized Transport Vehicles		221.0	252.2	20	-24 56%
20	702	Water Pumps	TC	301.0	230.4	27	-24.30%
21	657	Special Varps & Fabrics		210.0	241.2	21	-24 56%
22	712	Diston Engines		725.1	240.5	10	-67.23%
22	601	Matallia Structures, peo		240.0	237.0	10	-07.23%
24	691	Articles of Aluminum		340.Z 202 7	204.2	11d 20	-32.74%
34	711	Steem Concretere, Beilere, etc.		302.7	231.0	20	-39.40%
30	651	Steam Generators, Doners, etc.		303.9	227.0	na	-25.79%
30	001			240.9	224.0	na	-9.00%
37	611		NR	246.4	221.3	na	-10.19%
38	531	Synthetic Colors, etc.		238.8	210.5	na	-11.85%
39	/85	Cycles, Motorcycles, etc.	HC	646.2	205.5	11	-68.20%
40	523	Metal. Salts, Inorgainic Acids		239.2	202.6	na	-15.30%
41	773	Electricity Distribution Equipment, nes	IC	366.1	200.4	na	-45.26%

Note: Excludes imports into Batam Island.

Description	1997	1998	% Change
Consumer Goods, of which:	2,166.3	1,917.7	-11.48%
Food & Beverages Mainly for Household Consumption	842.8	1,167.4	38.51%
Processed Fuel & Lubricants	139.2	95.0	-31.75%
Non-industrial Transportation Equipment	16.7	3.4	-79.64%
Other Durable Goods	248.3	95.0	-61.74%
Other Semi-Durable Goods	291.0	181.0	-37.80%
Non-Durable Goods	411.1	217.6	-47.07%
Others, not classified	217.2	158.2	-27.16%
Raw Materials & Intermediate Goods, of which:	30,229.5	19,611.8	-35.12%
Primary Goods for Industry	4,887.8	3,427.6	-29.87%
Food & Beverages	1,387.8	820.9	-40.85%
Industrial Raw Materials	2,012.8	1,545.7	-23.21%
Fuel & Lubricants	1,487.2	1,061.0	-28.66%
Intermediate Goods for Industry	16,954.0	11,713.6	-30.91%
Food & Beverages, Processed	472.3	474.0	0.36%
Industrial Components & Materials	14,141.9	9,697.4	-31.43%
Processed Fuel & Lubricants	2,339.8	1,542.2	-34.09%
Spare Parts for Industry	8,387.7	4,470.6	-46.70%
For Capital Equipment excluding Transport Equipment	5,172.1	3,241.0	-37.34%
For Transport Equipment	3,215.6	1,229.6	-61.76%
Capital Goods, of which:	9,284.0	5,807.4	-37.45%
Capital Goods excluding Transport Equipment	8,617.3	5,427.8	-37.01%
Passenger Cars	126.4	28.3	-77.61%
Transport Equipment for Industry	540.3	351.3	-34.98%

Table 12. Indonesia: Composition of Imports by Broad Economic Category (CIF, in millions of current US\$)

(FOB, in million US\$, current prices) SITC No. Description 1997 1998 Growth (% change) Textile Products: 651 Yarn 763.34 889.53 16.53% 652 Woven Cotton Fabrics 299.11 292.50 -2.21% 653 Woven Synthetic Fabrics 854.01 905.39 6.02% 654 Other Woven Fabrics 6.61 3.66 -44.63% 655 Knitted Fabrics 29.74 19.86 -33.22% 656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 <t< th=""><th>Table 13.</th><th>Textile and Clothing Exports in 1998</th><th>Compared with 1997</th><th>(SITC 3-digit Cat</th><th>egories)</th></t<>	Table 13.	Textile and Clothing Exports in 1998	Compared with 1997	(SITC 3-digit Cat	egories)
SITC No. Description 1997 1998 Growth (% change) Textile Products:			(FOB, in million U	S\$, current prices)	
Textile Products: 651 Yarn 763.34 889.53 16.53% 652 Woven Cotton Fabrics 299.11 292.50 -2.21% 653 Woven Synthetic Fabrics 854.01 905.39 6.02% 654 Other Woven Fabrics 6.61 3.66 -44.63% 655 Knitted Fabrics 29.74 19.86 -33.22% 656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90%	SITC No.	Description	1997	1998	Growth (% change)
651 Yarn 763.34 889.53 16.53% 652 Woven Cotton Fabrics 299.11 292.50 -2.21% 653 Woven Synthetic Fabrics 854.01 905.39 6.02% 654 Other Woven Fabrics 6.61 3.66 -44.63% 655 Knitted Fabrics 29.74 19.86 -33.22% 656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846		Textile Products:			
651 Yarn 763.34 889.53 16.53% 652 Woven Cotton Fabrics 299.11 292.50 -2.21% 653 Woven Synthetic Fabrics 854.01 905.39 6.02% 654 Other Woven Fabrics 6.61 3.66 -44.63% 655 Knitted Fabrics 29.74 19.86 -33.22% 656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Clothing Products Revise Foot Coverings 17.97 14.69 -18.25% Clothing Products Revise Foot Coverings 17.97 14.69 -19.37% 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 878.21 942.92 7.37% 844 Women's Coats, Knitted 237.70 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
652 Woven Cotton Fabrics 299.11 292.50 -2.21% 653 Woven Synthetic Fabrics 854.01 905.39 6.02% 654 Other Woven Fabrics 6.61 3.66 -44.63% 655 Knitted Fabrics 29.74 19.86 -33.22% 656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846	651	Yarn	763.34	889.53	16.53%
653 Woven Synthetic Fabrics 854.01 905.39 6.02% 654 Other Woven Fabrics 6.61 3.66 -44.63% 655 Knitted Fabrics 29.74 19.86 -33.22% 656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846	652	Woven Cotton Fabrics	299.11	292.50	-2.21%
654 Other Woven Fabrics 6.61 3.66 -44.63% 655 Knitted Fabrics 29.74 19.86 -33.22% 656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 878.21 942.92 7.37% 843 Men's Coats, Not Knitted 878.21 942.92 7.37% 844 Women's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% <	653	Woven Synthetic Fabrics	854.01	905.39	6.02%
655 Knitted Fabrics 29.74 19.86 -33.22% 656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41%	654	Other Woven Fabrics	6.61	3.66	-44.63%
656 Tulle, Lace, etc. 50.99 36.98 -27.48% 657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	655	Knitted Fabrics	29.74	19.86	-33.22%
657 Special Yarns & Fabrics 107.91 99.70 -7.61% 658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	656	Tulle, Lace, etc.	50.99	36.98	-27.48%
658 Made Up Articles of Textiles 125.07 96.89 -22.53% 659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Method 2,144.54 2,265.6 5.65% Tetal	657	Special Yarns & Fabrics	107.91	99.70	-7.61%
659 Textile Floor Coverings 17.97 14.69 -18.25% Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products 4.63% 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	658	Made Up Articles of Textiles	125.07	96.89	-22.53%
Sub-Total: 2,254.75 2,359.20 4.63% Clothing Products	659	Textile Floor Coverings	17.97	14.69	-18.25%
Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% HS 980110300 2,144.54 2,265.6 5.65%		Sub-Total:	2,254.75	2,359.20	4.63%
Clothing Products 841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% UB-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%					
841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: HS 980110300 2,144.54 2,265.6 5.65%		Clothing Products			
841 Men's Coats, Not Knitted 878.21 942.92 7.37% 842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%					
842 Women's Coats, Not Knitted 858.65 692.30 -19.37% 843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	841	Men's Coats, Not Knitted	878.21	942.92	7.37%
843 Men's Coats, Knitted 237.70 192.76 -18.91% 844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	842	Women's Coats, Not Knitted	858.65	692.30	-19.37%
844 Women's Coats, Knitted 171.08 113.08 -33.90% 845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	843	Men's Coats, Knitted	237.70	192.76	-18.91%
845 Articles of Apparel, nes 578.23 542.86 -6.12% 846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: HS 980110300 2,144.54 2,265.6 5.65%	844	Women's Coats, Knitted	171.08	113.08	-33.90%
846 Accessories of Fabric 61.02 34.02 -44.25% 848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	845	Articles of Apparel, nes	578.23	542.86	-6.12%
848 Accessories Not of Fabric 118.62 112.33 -5.30% Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	846	Accessories of Fabric	61.02	34.02	-44.25%
Sub-Total: 2,903.51 2,630.27 -9.41% HS 980110300 2,144.54 2,265.6 5.65%	848	Accessories Not of Fabric	118.62	112.33	-5.30%
HS 980110300 2,144.54 2,265.6 5.65% Tatal 7.002.00 7.055.07 0.05%		Sub-Total:	2,903.51	2,630.27	-9.41%
		HS 980110300	2,144.54	2,265.6	5.65%
/ 4// 8// / / 65/// -//65//		Total	7 302 80	7 255 07	-0.65%

Table 13 Textile and Clothing Exports in 1998 Compared with 1997 (SITC 3-digit Categories)

Note: Figures for HS 980110300 in 1998 are preliminary estimates.

Biro Pusat Statistik, Buletin Ringkas, March 1998 and 1999 and Foreign Trade Statistics Bulletin -- Exports, December 1998 and 1999. Source:

I able 14.	Imports of Textile, Leather and Clothing Industries	(SITC 3-Digits)		
		(CIF, in million l	JS\$, current prices)	
SITC No.	Description	1997	1998	Growth (% change)
	Raw Materials:			
211	Hides, Skins, Raw	13.53	9.65	-28.68%
212	Furskins, Raw	0.01	0.02	100.00%
261	Silk	0.06	0.31	416.67%
263	Cotton	818.83	763.69	-6.73%
264	Jute Fibers	2.79	1.57	-43.73%
265	Vegetable Textile Fibers	0.80	0.75	-6.25%
266	Synthetic Fibers for Spinning	181.97	183.63	0.91%
267	Other Synthetic Fibers & Waste	18.79	22.60	20.28%
268	Wool	22.16	16.16	-27.08%
	Sub-Total:	1,058.94	998.38	-5.72%
	Intermediate Inputs:			
532	Dyeing & Tanning Extracts	12.27	10.35	-15.65%
611	Leather	246.39	221.25	-10.20%
613	Furskins, Tanned, Dressed	0.90	0.11	-87.78%
652	Woven Cotton Fabrics	146.84	139.02	-5.33%
653	Synthetic Woven Fabrics	177.02	189.17	6.86%
654	Other Woven Fabrics	27.32	25.16	-7.91%
655	Knit Fabrics	152.45	139.41	-8.55%
656	Tule, Lace, Ribbons, Embroidery	57.26	48.29	-15.67%
657	Special Yarns & Fabrics	318.76	240.54	-24.54%
	Sub-Total	1,139.21	1,013.30	-11.05%
	Capital Goods:			
724	Textile & Leather Working Machinery	783.84	731.49	-6.68%
	l otal:	2,981.99	2,743.17	-8.01%

T I I I I I . n an d Olathina Induction

		(CIF, in million US\$	6, current prices)	
SITC No.	Description	1997	1998	Growth (% change)
612	Leather Manufactures, nes	4.26	3.42	-19.72%
658	Made Up Textile Articles	9.99	11.74	17.52%
831	Travel Goods	1.54	0.64	-58.44%
841	Men's Coats, Not Knitted	3.16	1.55	-50.95%
842	Women's Coats, Not Knitted	2.75	0.68	-75.27%
843	Men's Coats, Knitted	0.54	0.57	5.56%
844	Women's Coats, Knitted	0.65	0.41	-36.92%
845	Articles of Apparel, nes	4.86	2.31	-52.47%
846	Clothing Accessories of Textiles	5.99	6.45	7.68%
848	Accessories of Apparel	17.45	11.04	-36.73%
	Total:	51.19	38.81	-24.18%

Table 15. Final Goods Imports in Textiles, Clothing and Leather Industries (SITC 3-Digits)

		(FOB, in million l	(FOB, in million US\$, current prices)		
SITC No.	Description	1997	1998	Growth (% change)	
	Unprocessed Wood:				
244	Cork, Natural & Waste	0.07	0.31	342.86%	
245	Fuel Wood & Wood Charcoal	31.84	29.69	-6.75%	
246	Wood Chips & Paticles	4.52	2.40	-46.90%	
247	Wood, Rough or Roughly Squared	0.04	11.19	27875.00%	
248	Wood Simply Worked	242.63	153.21	-36.85%	
	Sub-Total:	279.10	196.80	-29.49%	
	Processed Wood:				
633	Cork Manufactures	0.17	0.03	-82.35%	
634	Plywood, Veneers	3,742.79	2,232.05	-40.36%	
635	Wood Manufactures, nes	711.82	504.12	-29.18%	
	Sub-Total:	4,454.78	2,736.20	-38.58%	
	Furniture:				
821	Furniture	758.71	355.07	-53.20%	
	HS 980110200	779.71	1,535.60	96.95%	
	Total:	6,272.30	4,823.67	-23.10%	

Table 16. Forestry-Based Exports, 1998 Compared with 1997 (SITC 3-Digits)

Note: Figures for HS 980110200 in 1998 are preliminary estimates.

Source: Biro Pusat Statistik, Buletin Ringkas, March 1998 and 1999 and Foreign Trade Statistics Bulletin -- Exports, December 1998 and 1999.

	· · ·	(FOB, in million		
SITC No.	Description	1997	1998	Growth (% change)
	Consumer Electronics:			
761	Televisions	64.88	43.97	-32.23%
762	Radios	254.45	215.56	-15.28%
763	Sound Recorders	803.72	486.66	-39.45%
764	Telecommunications Equipment	629.74	614.31	-2.45%
	Sub-Total:	1,752.79	1,360.50	-22.38%
	Electrical Machinery:			
771	Electric Power Generators	114.76	74.82	-34.80%
772	Electrical Equipment for Making/Breaking Circuits	106.01	99.36	-6.27%
773	Electricity Distribution Equipment	183.49	226.45	23.41%
774	Electro-Medical & X-Ray Equipment	5.53	7.41	34.00%
775	Heating & Cooling Equipment	30.20	48.33	60.03%
776	Thermionic Cathodes	220.75	195.73	-11.33%
778	Electrical Machinery & Parts, nes	412.48	382.03	-7.38%
	Sub-Total:	1,073.22	1,034.13	-3.64%
	HS 980110500	305.64	436.50	42.82%
	Total:	3,131.65	2,831.13	-9.60%

Table 17. Electronic Product Exports in 1998 Compared with 1997 (SITC 3-Digits)

Note: Figures for HS 980110500 in 1998 are preliminary estimates.

Source: Biro Pusat Statistik, Buletin Ringkas, March 1998 and 1999 and Foreign Trade Statistics Bulletin -- Exports, December 1998 and 1999.

		(FOB, in million l		
SITC No.	Description	1997	1998	Growth (% change)
	Crude Rubber:			
231	Natural Rubber	1,498.83	1,106.30	-26.19%
232	Synthetic Rubber	2.54	3.72	46.46%
	Sub-Total:	1,501.37	1,110.02	-26.07%
	Rubber Manufactures:			
621	Materials of Rubber	18.36	20.51	11.71%
625	Rubber Tires & Tubes	232.68	213.78	-8.12%
629	Articles of Rubber, nes	18.08	16.72	-7.52%
	Sub-Total:	269.12	251.01	-6.73%
	HS 980110700	131.00	134.10	2.37%
	Total:	1,901.49	1,361.03	-28.42%

Table 18. Rubber Product Exports in 1998 Compared with 1997 (SITC 3-Digits)

Source: Biro Pusat Statistik, Buletin Ringkas, March 1998 and 1999.

Note: Figures for HS 980110700 in 1998 are preliminary estimates.

<u>Table 19.</u>	Exports of Footwear & Leather Products	s in 1998 Compared with 1997	(SITC 3-Digits)	
		(FOB, in million US	\$, current prices)	
SITC No.	Description	1997	1998	Growth (% change)
	Crude Leather:			
211	Hides, Skins, Raw	1.62	3.66	125.93%
212	Furskins, Raw	0.02	0.13	550.00%
	Sub-Total:	1.64	3.79	131.10%
	Leather Manufactures:			
611	Leather	36.03	76.12	111.27%
612	Leather Manufactures, nes	0.36	0.15	-58.33%
613	Furskins, Tanned, Dressed	0.01	0.22	2100.00%
831	Travel Goods	80.37	94.85	18.02%
851	Footwear	1,531.01	1,206.06	-21.22%
	Sub-Total:	1,647.78	1,377.40	-16.41%
	HS 9800110600	82.40	84.90	3.03%
		. =		
	l otal:	1,731.82	1,466.09	- 15.34%

Source: Biro Pusat Statistik, Buletin Ringkas, March 1998 and 1999.

Note: Figures for HS 980110600 in 1998 are preliminary estimates.

Table 20.	Exports of Baby Carriages, Toys, Games & Sportin	(SITC 3-Digits)		
		(FOB, in million l	JS\$, current prices)	
SITC No.	Description	1997	1998	Growth (% change)
894	Baby Carriages, Toys, Games, & Sporting Goods	178.74	155.24	-13.15%
	HS 980110800	43.9	39.8	-9.34%
	Total:	222.64	195.04	-12.40%

Source: Biro Pusat Statistik, Buletin Ringkas, March 1998 and 1999.

Note: Figures for HS 980110800 in 1998 are preliminary estimates.

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Major Tra	ading Partner	1997	1998	1997	1998	Growth	
(ranked b	oy value, 1998)	(export value, m	il. US\$, current prices)	(share, % of non-o	oil/gas exports)	(% change)	
1	United States	6,701.5	6,697.8	16.02%	16.35%	-0.06%	
2	Singapore	4,823.6	5,355.1	11.53%	13.07%	11.02%	
3	Japan	6,939.7	5,338.6	16.59%	13.03%	-23.07%	
4	Hong Kong	1,778.8	1,863.6	4.25%	4.55%	4.77%	
5	Netherlands	1,839.6	1,510.0	4.40%	3.69%	-17.92%	
6	China	1,313.9	1,454.5	3.14%	3.55%	10.70%	
7	Germany	1,465.7	1,401.3	3.50%	3.42%	-4.39%	
8	Malaysia	1,323.6	1,333.4	3.16%	3.25%	0.74%	
9	Taiwan	1,249.5	1,286.3	2.99%	3.14%	2.95%	
10	United Kingdom	1,238.1	1,143.1	2.96%	2.79%	-7.67%	
11	Korea	1,272.3	1,049.3	3.04%	2.56%	-17.53%	
12	Thailand	675.6	885.1	1.62%	2.16%	31.01%	
13	Belgium	787.8	873.8	1.88%	2.13%	10.92%	
14	Spain	888.1	868.7	2.12%	2.12%	-2.18%	
15	Australia	721.3	865.9	1.72%	2.11%	20.05%	
16	Italy	689.4	756.5	1.65%	1.85%	9.73%	
17	India	606.4	671.7	1.45%	1.64%	10.77%	
18	Philippines	700.6	582.6	1.68%	1.42%	-16.84%	
19	France	499.3	547.3	1.19%	1.34%	9.61%	
20	Saudi Arabia	575.6	503.6	1.38%	1.23%	-12.51%	
Exports I	by Major Region:						
	ASEAN	8,173.2	8,775.8	19.54%	21.42%	7.37%	
	European Union	7,948.0	7,652.6	19.00%	18.68%	-3.72%	
	NAFTA	7,269.0	7,323.4	17.38%	17.87%	0.75%	
	NEAsia	11,240.3	9,537.8	26.88%	23.28%	-15.15%	
Total No	n-Oil/Gas Exports	41,821.1	40,975.5	100.00%	100.00%	-2.02%	

Table 21. Direction of Trade of Non-Oil/Gas Exports in 1998 Compared with 1997 (minimum value of US\$ 500 million, current prices)

Note: PEBT items are allocated by first port of destination not final destination of goods. ASEAN includes Brunei, Cambodia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam.

European Union includes Austria, Belgium, Denmark, Finland, France, Germany, Greece, Holland, Ireland, Italy, Luxembourg, Portugal, Spain, Sweden and the UK. NAFTA includes Canada, Mexico and USA.

NE Asia includes Hong Kong, Korea, Japan and Taiwan.

Table 22.	Direction of Trade	of Non-Oil/Gas Im	ports in 1998 Compared with 1997	(minimum value o	f US\$ 200 million, cu	rrent prices)
Maior Tra	ding Partner	1997	1998	1997	1998	Growth
(ranked b	v value, 1998)	(import value, mi	il. US\$. current prices)	(share, % of non-	pil/gas imports)	(% change)
(]	(······································			(// • • • • • • • • • • • • •
1	Japan	8,232.2	4,278.7	21.80%	17.33%	-48.02%
2	United States	5,387.3	3,486.8	14.27%	14.13%	-35.28%
3	Germany	2,624.8	2,360.2	6.95%	9.56%	-10.08%
4	Australia	2,188.4	1,652.4	5.80%	6.69%	-24.49%
5	Singapore	1,933.9	1,485.3	5.12%	6.02%	-23.20%
6	Korea	2,259.2	1,362.1	5.98%	5.52%	-39.71%
7	Taiwan	1,576.3	991.1	4.17%	4.02%	-37.12%
8	United Kingdom	1,081.8	917.9	2.87%	3.72%	-15.15%
9	China	1,328.2	871.0	3.52%	3.53%	-34.42%
10	Thailand	850.6	827.4	2.25%	3.35%	-2.73%
11	France	1,007.8	558.2	2.67%	2.26%	-44.61%
12	Canada	682.0	497.2	1.81%	2.01%	-27.10%
13	Italy	903.7	471.0	2.39%	1.91%	-47.88%
14	Malaysia	701.9	383.2	1.86%	1.55%	-45.41%
15	Vietnam	82.9	359.7	0.22%	1.46%	333.90%
16	Netherlands	559.8	336.9	1.48%	1.36%	-39.82%
17	India	686.5	292.9	1.82%	1.19%	-57.33%
18	Belgium	333.8	273.3	0.88%	1.11%	-18.12%
19	Hong Kong	318.8	257.2	0.84%	1.04%	-19.32%
20	Finland	373.3	248.6	0.99%	1.01%	-33.40%
21	Sweden	481.5	235.0	1.28%	0.95%	-51.19%
22	Switzerland	335.2	227.7	0.89%	0.92%	-32.07%
23	Brazil	352.3	203.5	0.93%	0.82%	-42.24%
Imports fi	rom Major Regions:					
	ASEAN	3,705.1	2.924.5	9,81%	11.85%	-21.07%
	European Union	8.269.5	5.834.5	21.90%	23.64%	-29.45%
	NAFTA	6.131.6	4.025.0	16.24%	16.31%	-34.36%
	NEAsia	12,386.5	6,889.1	32.81%	27.91%	-44.38%
Total Nor	-Oil/Gas Imports	37,755.7	24.683.2	100.00%	100.00%	-34.62%

	(FOB, in millions of US\$, cu	rrent prices)		-
Period	1997	1998	% Change	% Change
Quarter:			(Year on Year)	(Previous Period)
QI	9,151.3	10,242.0	11.92%	-6.87%
QII	10,410.9	10,272.0	-1.33%	0.29%
QIII	11,261.7	10,804.1	-4.06%	5.18%
QIV	10,997.2	9,657.4	-12.18%	-10.61%
	1998	1999	% Change	% Change
Month:			(Year on Year)	(Previous Period)
Jan.	3,344.5	2,373.5	-29.03%	-26.72%
Feb.	3,058.0	2,615.9	-14.46%	10.21%
Mar.	3,839.5	3,307.0	-13.87%	26.42%
April	3,138.1	3,209.1	2.26%	-2.96%
May	3,271.9	3,374.4	3.13%	5.15%
June	3,862.0	3,013.4	-21.97%	-10.70%
QI	10,242.0	8,296.5	-19.00%	-14.09%
QII	10,272.0	9,596.9	-6.57%	15.67%

Table 23. Recent Trends in Non-Oil/Gas Exports in Indonesia, Quarterly and Monthly Data

Source: Biro Pusat Statistik, Buletin Ringkas, various issues.

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Source: Biro Pusat Statistik, Buletin Ringkas, various issues.