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PHILIPPINE EXPERIENCE IN LABOR ABSORPTION
1956 TO 1973

by

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# PHILIPPINE EXPERIENCE IN LABOR ABSORPTION 1956 TO 1973\*

R.L. TIDALGO\*\*
May 1976

\*At the May 1971 Singapore Conference, Tito A. Mijares and I presented a paper on "Labor Absorption in the Philippines, 1952-1969." Subsequently, Tito Mijares published an updated version of the paper with Candido Ordinario in the Statistical Reporter, Vol. XVI, No. 3 (July-September 1972). On the other hand, my paper uses data other than those in the Singapore paper and I have considerably extended my analysis in that earlier paper.

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The author wishes to thank Harry T. Oshima for his helpful comments, and Linda Bacungan and Ezra May Bacante for their research assistance.

#### 1 of INTRODUCTION OF THE SECOND OF SECOND AS A SECOND OF SECOND

Labor absorption in the Philippines during the period 1950's tograms which is an earliest the law ear ্রান্ত বিভাগ বিভাগ করা <del>প্রত্য</del> to the present is a case study in the effects of an industrialization in the extreme common attempt through import substitution, later coupled with export <mark>មានទ</mark>ៅមានមាន ប្រសិទ្ធិសុខសំខាន់ ប្រ promotion, using capital-subsidizing instruments in a capital-scarce SETECTE LARGE CONTRACTOR OF A LARGEST LOS LITERATURAS LARGEST STATES labor-abundant economy. The government-provided incentive system appears rational when viewed in terms of the relative factor proportion in the economy. It is apparent that the industrialization objective was conceptualized in terms of the growth of production. Labor employment was considered a dimension, but not the main focus, of the industrialization effort. The economic plans of the government did not include any employment target but rather expressed the employment generation forthcoming from an investment target as an additional benefit. Though the objective of industrialization seems to be interpreted as the increase in material welfare of a society, planners have been aware that during the period of attempting the material benefits are expected to trickle down to the low income class which constitutes the majority. The time dimension of the trickling-down process is not specified. In an economy characterized by unequal distribution of wealth and few government-provided welfare services, a major segment of the population has only the sale of their labor services Just error 20 . 1.J. 2016 are averago. oral en jedinalije as source of income. Employment, therefore, acquires an urgency which is unfortunately not given the appropriate priority consideration by the government. anisas is add box gribers of but be specially to be the dense of the

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This paper attempts to review the labor absorption in the Philippines since the 1950's. It explains the employment generation among the industries in terms of the relative factor price distortion created by the policy instruments adopted by the government in pursuing the industrialization objective, the state of technological borrowing and attempts by government and labor groups to protect labor's interest.

#### 2 DATA

Employment data from labor force surveys have been generated by the National Census and Statistics Office (formerly, Bureau of Census and Statistics Survey of Households or BCSSH) starting in 1956. These surveys were conducted bi-annually in the months of May and October (with the exception of years 1958, 1960, 1962 and 1964) until 1968. A May survey was undertaken in 1969 but none in 1970 when the Census of Population and Housing was conducted. In 1971, it was resumed on a quarterly basis, namely, in the months of February, (the first quarter survey in 1971 was undertaken in March), May, August and November. The sample design used in these surveys was changed in 1965, then, again in 1971. Therefore, the trend in the series should be interpreted with caution.

The BCSSH employment data from 1956 to 1968 are averages of the May and October figures while those of 1971 to 1973 are quarterly averages. For the years when only one or no labor force survey was undertaken, the average of the preceding and the following year when surveys were undertaken is used instead.

The Annual Survey of Manufactures is another source of employment data used in this paper. This survey was undertaken by the Bureau of the Census and Statistics (BCS) starting 1956 through 1971 with the exception of years 1961, 1967 and 1972 when the BCS conducted economic censuses. Only establishments with at least five workers are included in these surveys.

In addition, employment statistics generated by the 1970 Census and Population and Housing are also used.

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### 3 PHILIPPINE LABOR ABSORPTION, 1956 TO 1973

3.1 An Overview

The labor force increased from 9,029 thousand in 1956 to 14,140 thousand in 1973 or an average annual (geometric) growth rate of 2.6% (Table 1). Employment in 1956 was 8,009 thousand and 13,450 thousand in 1973, in effect, a 3.1% average annual rate of increase. These annual employment generation left a yearly average unemployment of 815 thousand totally unemployed members of the labor force during the period of an average annual unemployment of 7.4% of the labor force.

The extent of unemployment acquires a more serious dimension when the extent of underemployment and the size of the unpaid family workers among the employed are considered. Underemployment, defined as the expressed desire for additional work, is observed even among those working full-time ("invisibly"

TABLE 1
Labor Force, Employment and Unemployment,
1956 to 1973
(in thousands)

| Year                     | Labor Force | Employed | Unemployed |
|--------------------------|-------------|----------|------------|
| 1956                     | 9,029       | 8,009    | 1,021      |
| 1957                     | 8,875       | 8,174    | 701        |
| 1958 <sup>a</sup>        | 9,317       | 8,555    | 762        |
| 1959_                    | 9,345       | 8,705    | 639        |
| 1960                     | 9,521       | 8,828    | 692        |
| 1961_                    | 9,995       | 9,245    | 750        |
| 1962 <sup>a</sup>        | 10,479      | 9,641    | 837        |
| 1963                     | 10,710      | 10,039   | 670        |
| 1964 <sup>a</sup> ,      | 10,898      | 10,253   | 641        |
| 1965                     | 11,127      | 10,322   | 805        |
| 1966                     | 11,821      | 10,984   | 837        |
| 1967                     | 12,525      | 11,526   | 999        |
| 1968                     | 12,452      | 11,476   | 976        |
| 1969 <sup>D</sup>        | 12,605      | 11,732   | 873        |
| 1970 <sup>D</sup>        | 12,758      | 11,988   | 770        |
| 1971                     | 12,911      | 12,245   | 666        |
| 1972                     | 13,701      | 12,833   | : 867      |
| 1973                     | 14,140      | 13,450   | 690        |
|                          |             |          |            |
| Geometric                | 2.6%        | 3.1%     |            |
| Growth Rate<br>1956-1973 | 2.6%        | 3.10     | -          |

SOURCE: Bureau of the Census and Statistics Survey of Households Bulletin for the dates indicated in the table.

Interpolated values by averaging the figures of the previous and the following year with October and May surveys.

Interpolated values by computing the average annual growth rate of 1968 to 1971.

underemployed), i.e., whether based on a 40-hour week full-time work standard or a 50-hour week work standard, implying low income from work. If a measure of full-time equivalent unemployment among the "visibly" underemployed (those working less than full-time) is computed and added to the count of totally unemployed, the unemployment rate as a percentage of the labor force increases to an annual average of 17.3% using a 40-hour week full-time work standard and 25.9% for a 50-hour week standard or 1,912 thousand and 2,868 thousand unemployed for the two respective measures (Table 2). Another dimension of the failure of the economy to absorb labor in gainful employment is shown by the large size of unpaid family workers among the employed. This class of worker averaged 25.6% of annual employment during the period 1956 to 1973 or 2,649 thousand workers (Table 3). It is likely that some, if not a major proportion, of this group were in this category as a result of the lack or absence of alternative employment.

There has been an increase in the average hours of work among the employed during the survey week from 41.2 hours to 44.7 hours for the period 1959 to 1973 (Table 4). When employment growth is measured in terms of full-time equivalent employment such as a 40-hour week or 50-hour week standard, its average annual growth rate from 1957 to 1973 comes to 3.9% as compared to 3.2% using the person count (Table 5). However, the faster increase

The period considered here starts in 1957 instead of 1956 because there are no data on hours worked for the May 1956 employment. This computation also covers only the employed persons at work rather than the total employed as indicated in Table 1 since data on hours worked by the employed who were not at work during the survey week are not available. The former group has been observed to be 3% to 4% smaller than the latter.

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TABLE 2

Total Unemployment, 1956 to 1973

(in thousands, except percent)

|        | 1.2          | UNE               | IPLOYED             | TOTALLY UNEMPLOYED a         |                           |                  |              |  |
|--------|--------------|-------------------|---------------------|------------------------------|---------------------------|------------------|--------------|--|
| Year   | Total        | Number            | Percent of          | Meas                         | sure I by 😙               | Measure Il       |              |  |
| lear   | labor force  | labor force       |                     | Number                       | Percent of<br>labor force | Number           | Pero<br>labo |  |
| 1050   | 0000         | 000               | 11 0                | 007.0                        | 00.0                      | #8 <b>2733</b> # |              |  |
| 1956   | 9029         | 7050              | 11.3                | 2013                         | 22.3<br>18.9              | 2492             |              |  |
| 1957 d | 8875         | 701               | 7.9                 | <b>167</b> 9<br><b>176</b> 9 | 19.0                      | 2616             | 4            |  |
| 1958   | 9317<br>9345 | 762<br>639        | 6.8                 | 1675                         | 17.9                      | 2557             |              |  |
| 1960 d | 9518         | 692               | 7.3                 | 1758                         | 18.5                      | 2650             |              |  |
| 1961   | 9995         | 750               | 7.5                 | 1846                         | 18.5                      | 2747             |              |  |
| 1962   | 10459        | 837               | . \ 8.0:            | 2040                         | 19.5                      | 2982             |              |  |
| 1063   | 10710        | 6 <b>7</b> 0      | \6.3                | 1980                         | 18.5                      | 2964             |              |  |
| 1964 d | 10890        | 641               | 5.9                 | 1862                         | 17.1                      | 2770             | 1 :          |  |
| 1965   | 11127        | 805               | 7.2                 | 1937                         | 17.4                      | 2729             | :            |  |
| 1966   | 11821        | 837               | 7.1                 | 1966                         | 16.6                      | 2816             |              |  |
| 1967   | 12525        | 999               | 8.0                 | 2155                         | 17.2                      | 3094             | 1 :          |  |
| 1968   | 12452        | 976               | 7.8                 | <b>21</b> 60                 | 17.3                      | 3187             | ] :          |  |
| 1969 e | 12605        | 873               | 6.9                 | 2028                         | 16.1                      | 3109             |              |  |
| 1970 e | 12758        | ay: <b>7:7</b> .0 | .√. 6°, 0: ;     ′′ | 1893                         | 14,8%                     | 3.032            |              |  |
| 1971   | 12911        | 666               | 5.2                 | 1758                         | 13.6                      | 2953             |              |  |
| 1972   | 13701        | 867               | 6.3                 | 1996                         | 14.6                      | 3105             |              |  |
| 1973   | 14140        | 690               | 4.9                 | 1899                         | 13.4                      | 3086             |              |  |
| 1      |              |                   |                     | }                            |                           | 1                |              |  |

Unemployed plus the full-time equivalent unemployment of the visibly underemp

SOURCE: Bureau of the Census and Statistics Survey of Households Bulletin for the dates indicated in the table.

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b Visibly underemployed defined as those persons reported employed at work for than 40 hours during the survey week and wanting additional work.

C Visibly underemployed defined as those persons reported employed at work for than 50 hours during the survey week and wanting additional work.

d Interpolated by taking the average of the previous and the following years wi May and October surveys.

e Interpolated by taking the average of the 1968 and 1971 figures.

TABLE 3

Employed Persons by Class of Worker for Some Selected Years

| <u> 15. jin jing</u>                         |                    | (in pe            | rcent)            | • • • • • • • • • • • • • • • • • • • | :   |
|--|--------------------|-------------------|-------------------|---------------------------------------|-----|
| Was in the                                   | ranie ungeregber i | 1741 - 17.<br>18. |                   |                                       |     |
| Year   | Total              | sw <sup>a</sup>   | S-EW <sup>b</sup> | UFWC                                  | NRd |
| $(\hat{a}_{\bullet},\hat{\nabla}_{\bullet})$ |                    | 4,41              |                   | ,                                     |     |
| 1956   | 100.0              | 29.1              | 42.9              | 27.4                                  | 0.7 |
| 1960   | 100.0              | 30:4              | 42.0              | 27.1                                  | 0.5 |
| 1964   | 100.0              | 33.7              | 40.3              | 25.8                                  | 0.2 |
| 1967.  | 100.0              | 36.8              | 38.4.             | 24.8                                  | 0.1 |
| 1971   | 100.0              | 34.0              | 41.7              | 24.1                                  | 0.3 |
| 1973   | 100.0              | 37.8              | 39.0              | 23.0                                  | 0.2 |
| . :"   |                    | •                 | i saki            |                                       |     |

a Wage and salary worker

The commence of the commence o SOURCE: Bureau of the Census and Statistics Survey of Households Bulletin for the dates indicated in the table.

use mode sufficiently of the second of the second of the second of the second of the OS of the Second of the OS of the Second o

b Self-employed workers; includes employers

C Unpaid family workers transport to the second of the sec

d Class of worker not reported

TABLE 4

Average Hours Worked by Employed Workers at Work, 1959 to 1973

| A    |            | 149 B                            |                         |      |  |  |  |  |
|------|------------|----------------------------------|-------------------------|------|--|--|--|--|
|      | AVERAGE HO | AVERAGE HOURS WORKED BY EMPLOYED |                         |      |  |  |  |  |
| Year | All        | Broad                            | Broad Industry Grouping |      |  |  |  |  |
|      | Industries | A                                | I                       | S    |  |  |  |  |
| 1959 | 41.2       | 39.7                             | <b>43.</b> 8            | 44.5 |  |  |  |  |
| 1960 | 41.6       | 39.9                             | 44.8                    | 46.0 |  |  |  |  |
| 1961 | 42.4       | 40.4                             | 45.6                    | 47.8 |  |  |  |  |
| 1962 | 42.1       | 40.7                             | 45.5                    | 44.2 |  |  |  |  |
| 1963 | 42.3       | 41.1                             | 45.7                    | 41.9 |  |  |  |  |
| 1964 | 43.3       | 41.8                             | 46.4                    | 45.1 |  |  |  |  |
| 1965 | 44.5       | 43.4                             | 46.1                    | 44.9 |  |  |  |  |
| 1966 | 45.0       | 43.5                             | 48.0                    | 44.8 |  |  |  |  |
| 1967 | 44.4       | 42.7                             | 48.2                    | 45.2 |  |  |  |  |
| 1968 | 44.1       | 42.5                             | 48.0                    | 45.1 |  |  |  |  |
| 1971 | 45.7       | 43.3                             | 47.6                    | 47.3 |  |  |  |  |
| 1972 | 44.9       | 42.7                             | 46.9                    | 39.6 |  |  |  |  |
| 1973 | 44.7       | 42.6                             | 46.5                    | 45.6 |  |  |  |  |
|      |            |                                  |                         |      |  |  |  |  |

a Includes agriculture, forestry, fishing and hunting.

SOURCE: Data on employed persons at work are from the Bureau of the Census and Statistics Survey of Households
Bulletin for the dates indicated in the table.

b Includes mining and quarrying, construction, manufacturing, electricity, gas, water and sanitary services and transport, storage and communication.

<sup>&</sup>lt;sup>C</sup> Includes commerce, government, community, business and recreational services, domestic services, personal services other than domestic and industry not reported.

with of evidence below the state TABLE  $^{\circ}5$ 

Full-time Equivalent Employment and its

Geometric Growth Rate for Selected Years

(in thousands, except percent)

The additional commencer between an est engagement

| Year                       | Employed Persons<br>at Work     | Full-time Equivalent Employment  |                     |  |  |  |
|----------------------------|---------------------------------|--|---------------------|--|--|--|
|                            |                                 | 40-hour week   | 50-hour week        |  |  |  |
| 1055                       | A010                            | The state of the s |                     |  |  |  |
| 1957                       | 7,677                           | 7,778  | 6,223               |  |  |  |
| ្រាក់ <b>1</b> 968ហា ក្រុម | 470 <b>11,114</b> .             | ci രാഷർ <b>123233</b> 204 മ  | hall 9 <b>,</b> 787 |  |  |  |
| 7- <b>1971</b> 7343        | J 55 <b>11,857</b> € off        | ar illia <b>13,523</b> : 210   | 10,819              |  |  |  |
| 1973.um ar                 | ~~ <b>****125,875</b> ~******** | mone <b>delib</b> itives, il   | 11,528              |  |  |  |

bar saw anderodane Isas, sechrae arbitani aversa gebin secreta **Geometric Growth Rates** 

| 1957-1968 | 1                             | pos bas di di vironi<br>Piluti pe <mark>Mal</mark> i lilida | i                        |
|-----------|-------------------------------|---|--------------------------|
| 1971-1973 | ]                             | edide ~3.2 of mes   |                          |
| 1957-1973 | heathan <b>3.∮2</b> argada ga | sdaubm (3∙9 <sub>m, yes</sub>                               | : 4463 <b>3.∮9</b> 1.√Ω( |

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SOURCE: Data on employed persons at work are from the off Bureau of the Census and Statistics Survey of Households Bulletin for the dates vindicated in the table.

restriction, and public ordinal whose manufactures and transport and commendative decreases. Their relative characters about the characters according to the characters section, arealy, commences, government our commences, government our commences, and respectional our class

in employment in terms of average hours worked relative to the number of persons employed was characteristic only of the 1950's and the 1960's. The reverse was true for the period 1971-73 when average hours worked decreased from 45.7 to 44.7.

# 3.2 Industrial Absorption of Labor

## 3.2.1. Broad Industry Labor Absorption

Using Kuznets' three broad industry groupings as defined in Table 4, one sees a shift in the industrial distribution of employment among agriculture, industry and services during the period under study. In 1956, agricultural employment accounted for 60%, industry 18.2% and services, 21.8% (Table 6). By 1973, there was a shift from agriculture to services; agriculture's share came down to 54.3% while that of services increased to 27.5%. During the same period, industry's share remained at 18.2%. For the intervening years between 1956 and 1973, the agricultural share of total employment showed a steadily decreasing trend although it increased in 1970 (based on the census) and 1971. The industries in the industry sector which experienced increases in their relative shares of employment were mining and quarrying, construction, and public utilities, while manufacturing and transport and communication showed decreases in their relative shares. Practically all industries in the services sector, namely, commerce, government, community, business and recreational services,

Industrial Distribution of Employment for Some Selected Years (in thousands, except percent)

| g 1973               | 13450          | 7306 54.3      | 2450             | າດ 11                   | ्7306<br>इ. ् 54.3                          | 61 0.5    | 438<br>3.3          | 1406<br>10.5  | 37<br>0.3               | 508<br>3.8 | 1565     | 1134<br>8.4                                   |                   | 257<br>1.9              | 34 0.3                |
|----------------------|----------------|----------------|------------------|-------------------------|---|-----------|---------------------|---------------|-------------------------|------------|----------|---|-------------------|-------------------------|-----------------------|
| 1971                 | 12246<br>100.0 | 6091<br>E 49.7 | 2515             | 29.8                    | 49.7  | 58 0.5    | 438<br>3.6          | 1443          | 55 0.4                  | 521<br>(3) | 1517     | 1189  | .635 ∰<br>§.2 ∰   | 270 2.2                 | 31 0.3                |
| 1970                 | 11358<br>100.0 | 6099 5.7.      | 2371 25.4        | 2882<br>20.9            | 6099<br>56.7                                | 51 0.4    | 438<br>3 <b>.</b> 8 | 1353<br>11,9  | 32 <u>5</u> 5           | ከ•ከ<br>16π | 838 gr   | 122 9.9                                       | 738               | 2003<br>9<br>1 100      | 184 1.6               |
| 1968                 | 11476<br>100.0 | 6417<br>55.9   | 2120<br>18.5     | 2943<br>18.5            | 6417<br>55.9                                | 42<br>0.4 | 360<br>3.1          | 1311<br>11.4  | 32 0.3                  | 372<br>3.2 | 1255     | 877 7.6                                       | 505<br>4.4        | 260                     | h*0 9h                |
| 1965                 | 10322<br>100.0 | 5889<br>57.0   | 1859<br>18.0     | 2576<br>25.0            | 5889<br>57 <b>.</b> 0                       | 26<br>0.3 | 297                 | 1161<br>11.2  | 22 0.2                  | 353<br>3.4 | 1117     | 704 6.8                                       | 488-              | 239 2.3                 | 28 0.3                |
| 1964                 | 10253<br>100.0 | 5970<br>58.2   | 1880<br>18.3     | 2406<br>23.5            | 5970<br>58.2                                | 30<br>0.3 | 315                 | 1183          | 22 0.2                  | 330        | 1133     | 5.9   | 0°t 60t           | 234 2.3                 |                       |
| 1956                 | 8009           | 4798 59.9      | 1455<br>18.2     | 1750<br>21.8            | 4798 S S S 59.9                             | 24 0.3    | 191<br>2.4          | 993           | 16 0.2                  | 231 5.8    | 793      | 400   | 320 4.0           | 155                     | -                     |
| Major Industry Group | All industries | ₩              | ion<br>tarq<br>H | 25 (25)<br>(25)<br>(25) | Agriculture, forestry,<br>hunting & fishing |           | Construction        | Manufacturing | Electricity, gas, water | sport, st  | Commerce | Government, community business & recreational | Domestic Services | Personal services other | Industry not reported |

Bulletin for the dates indicated in the table and from the National Census and Statistics Data on employment are from the Bureau of the Census and Statistics Survey of Households Office 1970 Census of Population and Housing. SOURCE:

and domestic services experienced increases in their relative shares with the exception of personal services whose relative share decreased in 1973.

The industrial shift of employment from agriculture to services is a phenomenon which has been observed in both developed and less developed countries. In the case of the currently developed countries, a shift from agricultural employment to industry was first observed then followed by a shift to the services sector. However, the commonly observed shift of industrial employment in many LDC's has been mainly from the agricultural sector to the The increase in the share of the services sector services sector. in the LDC's cannot be fully explained by the same factors which explain a similar trend observed among the presently developed The increase in the services sector among the LDC's may be more the result of the inability of the industry sector to absorb the less productive labor from the agricultural sector. Since the services sector by nature of its production and output allows more opportunities for work-sharing and part-time employment, it easily becomes a depository of the labor force which spills over from the agricultural sector to the nonagricultural This is not to say, however, that the process of development does not explain part of the increase in the services sector's share of total employment. For example, there is an increase in the relative share of commerce out of total employment as an economy becomes more monetized.

#### 3.2.2 Industrial Employment Generation

The employment creation in a sector may be measured by the count of additional employments minus terminated employments in the The difference in the yearly average sectoral employments sector. may be used to approximate this phenomenon although it may not capture all the employment turnover during the period under consideration. For a number of reasons, employment may have been generated and dissolved in one sector during a stretch of time. Biannual and quaterly data may not capture these totally. extent that employment regardless of its length may be considered better than no employment, then the biannual and quarterly employment statistics used in this paper underestimate some employment creation of this nature. With this caveat, one can proceed to take a positive difference in yearly average employments to mean more employment positions created than dissolved and vice versa when negative. All the yearly differences (together with their signs) can be added to get a measure of the overall performance of an industry in employment creation during the years being considered.

The actual employment generation in each sector from 1956 to 1973 is shown in Table 7. Agriculture experienced the largest net employment generation of 3,160 thousand (or an annual average of 148 thousand) followed by services which created 1,943 thousand (or an annual average of 114 thousand) and the industry sector with 995 thousand (or an annual average of 59 thousand). Relative to each sector's 1956 employment level, these sectoral employment

Employment Generation by Broad Industry Grouping, 1956 to 1973 (in thousands, except percent)

More amaking that is a secure of the historical five is a single of the

|  | Annual Ch                      | ange in Emplo              | yment                    |
|--|--------------------------------|----------------------------|--------------------------|
| YEAR   | Agriculture                    | Industry                   | Services                 |
| 1956<br>1957<br>1958   | 170<br>269                     | 61 54                      | (54)<br>82<br>47         |
| 1959<br>1960 - A. J. F. A.   | 139<br>4<br>186<br>320         | (63)<br>98<br>57<br>96     | 22<br>173<br>69          |
| 1963<br>1964 (1965)   1965<br>1966 (1966)   1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966)   1966 (1966 | 69<br>15<br>(81)<br>394        | 135<br>(13)<br>(21)<br>168 | 105<br>212<br>170<br>101 |
| 1967<br>1968<br>1969<br>1970   | 379<br>(245)<br>108.7<br>108.7 | 52<br>41<br>131.7<br>131.7 | 110<br>156<br>233<br>233 |
| 1971<br>1972 - Article of the street of the str    | 108.7<br>816<br>399            | 131.7<br>(110)<br>45       | 233<br>(119)<br>170      |
| Net Total  | 3160.1                         | 995.1                      | 1943                     |
| Average net annual employment generation   | 147.5                          | 58.8                       | 114.3                    |
| Net total employment generation<br>as a percentage of the sector's<br>1956 employment level  |                                | 68.4%                      | 111.0%                   |
| Net total employment generation<br>per sector as a percentage of<br>net total employment generation  |                                | e te di ma                 | $(\nabla C_{i})_{i=1}$   |
| in the economy   | 51.8%                          | 16.3%                      | 31.9%                    |

SOURCE: Data on employment are from the Bureau of the Census and Statistics Survey of Households Bulletin for the dates indicated in the table.

The configuration was been asserted to the stage of the configuration of the configuration of

generations during the period were increases of 52.3% for agriculture, 68.4% for industry and 111.0% for the services sector. The net employment generated per sector as a proportion of the total net employment generation in the whole economy is 51.8% for agriculture, 31.9% for services and lastly, 16.3% for industry.

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A breakdown of the agricultural sector's employment by BOÎMER, ALBERT A TOTAL ONG BERTALOTE, TOTAL HORD OF TOTAL TOTAL OF THE TOTAL AND ANALYSE FOR A industry group is shown in Table 8. (Statistics for employment ar esta está y a capaci tola compression variable generation by sub-industry groups are available starting in 1966). n eo comenta en gela en per metallita ante d During the period 1966-73, rice and corn farming generated the most on the second of the surface of the employment, 615 thousand or 42.1% of total positive agricultural garage water regatilização employment generation. This is followed by "products not specified" with 483 thousand (33.1%) then hunting and fishing at 159 thousand (10.9%) and coconut farming at 153 thousand (10.5%). Of interest is the decrease in employment in abaca and other fibers farming and in "other crops, horticulture, poultry and livestock production" during the period, with the latter industry group showing a very large decrease in employment. In the absence of data on production, it is difficult to hypothesize an explanation for this. One should not also discount the possibility of a statistical artifact of the control of the resulting from the 1971 change in sample design.

In the industry sector, manufacturing generated the largest matter and the industry sector, manufacturing generated the largest metallic and the increase in employment of 413 thousand, followed by transport, the sector and communication which generated 276 thousand, then the sector and the

combined accounted for 58 thousand (Table 9). The more detailed statistics for construction during the period 1966-73 reveal road and bridge construction and building construction to have generated 94.9% of the total positive employment generation in the construction industry (Table 8). On the other hand, it is only the road passenger transport which showed a positive net employment generation of 154 thousand in the transport, storage and communication industry during the period. This attests to the labor-intensive type of road passenger transport developed in the Philippines with increasing urbanization, commerce and trade as shown by the proliferation of small transport vehicles like pedicabs and jeepneys.

In the services sector (Table 10), commerce generated the most number of employment, 770 thousand, followed by government, community, business and recreational services which generated 734 thousand, then domestic services with 389 thousand and personal services other than domestic with 101 thousand. It is interesting to note that in commerce, "other retail trade" generated the most number of employment, 303 thousand or 66.6% of the industry's employment generation (Table 8). Contrary to the impression of a high incidence of work-sharing and employment in the informal sector as in hawking and peddling as an explanation of the large employment in the services sector, there was a net decline in THEMT SO. BAYCALL 41.1. employment in hawking and peddling equivalent to 62 thousand during ាសាស្ត្រមនុទ្ធ ទៅស្ត្រ (សេចធ្វើ) បានប្រទេស បានប្រទេស បានប្រ the period 1966 to 1973. Even sari-sari stores only generated a net employment of 10 thousand for the seven-year period. More

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| ment  | ıtive)   |  |  |   |
|---|--|--|--|---|
| <pre>l employment on of sub- as percent- he total e or negative) industry</pre> |  | ( 24.1)  | (100.0)  | (100.0)   |
| Net total empl<br>generation of<br>industry as De                               | age of the total (positive or neg for the industry | 100.0  | 100.0<br>15.2<br>2.2<br>66.6   | 33.3<br>16.5  |
| Net total<br>employment   | generation,<br>1966-1973                           | 126<br>154<br>( 22)<br>( 7)  | 393<br>69<br>10<br>( 62)<br>303<br>73  | 333<br>123<br>44<br>( 1)<br>111   |
|   | 1972-<br>1973                                      | 23 5 5 21 21 ( # )   | 7<br>(16)<br>(60)<br>10<br>48  | 54<br>33<br>13<br>-<br>13   |
| ration  | 1971-  | (35)<br>(35)<br>(37)<br>(37)   | 41<br>(30)<br>16<br>(16)<br>63<br>8  | (107)<br>(47)<br>(7)<br>(13)<br>(13)  |
| Employment Generation   | 1968-<br>1971                                      | 1149<br>133<br>9<br>9<br>7   | 263<br>73<br>70<br>(34)<br>131<br>23   | 311<br>102<br>30<br>-<br>85<br>94   |
| Employ  | 1967-  | (5)<br>12<br>(18)  | 27<br>23<br>13<br>(54)<br>32   | (4 <u>5)</u><br>17<br>1<br>25   |
|   | 1966-  | (6)<br>(27)<br>(1)   | 55<br>19<br>(29)<br>32<br>29<br>4  | 30<br>18<br>7<br>1  |
|   | Industry Group                                     | Transport, Storage and Communication Road passenger transport Other transport, brokerage Storage, warehousing, communication | Commerce Wholesale trade Sari-sari store Hawking and peddling Other retail trade Banks, real estate, insurance | Government, community business, recreational services Public schools Private schools Schools not specified Government services excluding schools Private community, business, recreational services |

Table

#### Employment Generation in the Industry Sector,

Mice of the time and the mean are continued to

is an isomed off. () smol956: tool973 (and it lainer laborates to

(in thousands, except percent)

El fedureceg soldw sbarr o saldoste de teorradair de layas.

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Annual Change in Employment Transport, Mining & Construc-Manufac-Electricity YEAR storage & quarrytion turing gas, water communicaing & sanitary 25.41 mar ban emertion 1. . . . . 1956 Trace. <del>-</del>sportual 4.13 -1957 1 15 33 1958 ): **3** a **17** ioma 28 areas 11gane bared (8) 1959 (26)11 (45)1960 (:5) 29.5 mir:(2), (ore: 43 эваэ **33** 1961 1) 16 17 (1)26 1962 14 21 49 9/ beted a 54 **13** 1963 6) 80 36 25 0 1964 1) 17 (16) (6) er ( 7) - god 1965 4) (18)(22)0 23 1966 1 6 119 9 33 1967 122 . . . 9 26 1/1 (6) 1968 (4) 48 (8) 1969 42.3 26 44 44 mm 7.7 H 49.7 1970 : 4.3 44 26 7.7 49.7 1971 4.3 26 44 7.7 49.7 1972 (36) (47)(9) (13)(35)1973 1.46 9 A(-5) 10 - 22 Net total 37 247 413 21 276 Average net annual 24.29 ·// 16.24 1.24 2.18 employment generation 14.53 Net total employment generation as a percentage of the sector's 1956 41.6 employment level 129.3 131.3 ··· 154.2 119.5 Net total employment os apan as Eurod generation as percentage of net total employ-Held to misc vav: ment generation in "I" sector 3.7 24.8 41.5 27.7 Net total employment generation per industry 70 A 2 as a percentage of the net total employment 6.8% generation in the economy 0.6% 4.1% 4.5%

SOURCE: Data on employment are from the Bureau of the Census and Statistics for the dates indicated from the table and from the National Census and Statistics Office 1970 Census of Population and Housing.

employment generation was experienced in the more organized sectors of commerce, namely, financial institutions (like banks, real estate and insurance) and wholesale trade which generated 73 thousand and 69 thousand, reseectively.

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A further breakdown of the sub-groups within government, community, business and recreational services sheds some light on the sources of employment in this industry. Public schools generated the most number of employment, 123 thousand (mostly teachers), during the period (Table 8). Other government employment generated 111 thousand. In effect, the government sector generated 234 thousand from 1966-73.

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Table 11 gives statistics on government employees during
the period 1959-73 from the Civil Service Commission Annual Reports.

Government employment increased from 287 thousand to 569 thousand
or a 98.3% increase in 14 years. This increase implies an average
annual geometric growth rate of 4.8% as compared to the 3.2% growth
rate of total employment during the same period. The government
sector accounted for an average of 4.1% of total employment. During
the 14-year period, government generated a total net employment of
282 thousand. The high count of government employment recorded by
the BCSSH Labor Survey relative to that of the Civil Service

Commission reports may be the result of the inclusion of casuals
in the former count and not in the latter. Government shows some
dramatic increases for 1959-60, 1961-62, 1964-65 and 1968-69.

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Employment Generation in the Services Sector,
1956 to 1973
(in thousands, except percent)

|  |   |  |                      |   | · · · · · · · · · · · · · · · · · · ·  |
|--|---|--|----------------------|---|--|
| raservet pril nil esatuat  | imalin s  | nnual Absolute   | e Change in          | n Employment  | \<br>:   |
| YEAR: TO STATE THE STATE OF THE | Commerce  | Government,<br>community,<br>business &<br>recreation-<br>al services                                      | Domestic<br>services | Personal<br>services<br>other than<br>domestic  | Industry<br>not<br>reported  |
| 1956<br>1957<br>1958<br>1959<br>1960<br>1961<br>1962<br>1963<br>1964<br>1965<br>1966<br>1967<br>1968<br>1969<br>1970<br>1971   | -<br>(1)<br>31<br>27<br>(28)<br>63<br>64<br>102<br>82<br>(16)<br>45<br>53<br>40<br>87<br>87<br>87<br>87 | -<br>(14)<br>17<br>54<br>(5)<br>62<br>22<br>13<br>58<br>54<br>30<br>89<br>104<br>104<br>104<br>(107)<br>52 |                      | 13<br>17<br>( 2)<br>10<br>( 4)<br>4<br>29<br>12<br>5<br>(16)<br>14<br>23<br>3<br>3<br>3<br>( 9)<br>( 4) | (34)<br>(13)<br>(9)<br>32<br>23<br>(31)<br>(32)<br>5<br>5<br>14<br>(27)<br>31<br>(5)<br>(5)<br>(5)<br>(20)<br>23 |
| Net Total  | 770   | 734  | 383                  | 101   | (48)   |
| Average net annual employment generation   | 45.3  | 43.2   | 22.5                 | 5.9   | ( 2.8)   |
| Net total employment generation as a percent- age of the sector's 1956 employment level Net total employment generation as percent- age of the net total   | 97.1%   | 183.5%   | 119.7%               | 65.2%   | (58.5%)  |
| employment generation in "S" sector  | 39.7%   | 37.8%  | 19.7%                | 5.2%  | 2.4%   |

|                              | in av i si  | i jaran     | i shekar j              | Annual Absolut   | e Change i           | n Employment                                   |                        |
|------------------------------|---|-------------|-------------------------|--|----------------------|--|------------------------|
| YEAR                         | en e<br>Reelina<br>Arait men<br>Delimaren                   |             | i i kata<br>Jajan tahun | Government,<br>community,<br>business &<br>recreation- | Domestic<br>services | Personal<br>services<br>other than<br>domestic | Indus<br>not<br>repor  |
| g <b>e</b> nerat<br>as a per | al employmen<br>ion per indu<br>rcentage of<br>al employmen | stry<br>the |                         |  | <b>;</b><br>;        |  | . 1973<br>1973<br>1973 |
|                              | ion in the  | 7           | 12.6%                   | 12.0%  | 6.3%                 | 1.7%   | ( 0.8                  |

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| generati<br>economy | al employmen<br>ion in the                         | 0.00 € 0 | 12.6%                                 | 12.0%                                  | 6.3%                  | 1.7%   | ( 0.8                                 |
|---------------------|--|---|---------------------------------------|--|-----------------------|--|---------------------------------------|
| SOURCE:             | Data on em   | nployment a   | ere from the                          | e Bureau of the<br>For the dates       | ne Census<br>indicate | and Statied in the t   | lstics<br>table.                      |
| 194 (* 1            | 4  | 1   |                                       | •                                      |                       |  | Λ.·.                                  |
|                     | 1<br>1.12  | i fire  |                                       | 1                                      | !                     |  | · ·                                   |
| 150                 |  |   |                                       | 1                                      | :                     |  | : 1                                   |
|                     | ÷.   |   | •                                     |  |                       |  |                                       |
|                     |  |   |                                       | :<br>:                                 | 1                     |  |                                       |
|                     | * * * * * * * * * * * * * * * * * * *              |   |                                       |  | :                     |  |                                       |
| y                   | e ner er i e en e |   | <u>.</u>                              | ** *** *** *** *** *** *** *** *** *** |                       | et man tra destr. Augus software i   | * * * * * * * * * * * * * * * * * * * |
| (6                  | · A  |   | · · · · · · · · · · · · · · · · · · · |  |                       |  |                                       |
|                     |  |   |                                       |  | -700                  | 1. filotoli <u>ka</u><br>2. from 1. ona<br>2. j. from 2. on<br>3. to <b>3</b> 042 from<br>1. from 1. | ega ir a s<br>ega ir a s<br>eda ira s |
| :                   |  |   |                                       |  | ;<br>;<br>;           | trunvelja-<br>Las Perot<br>Lastot Las<br>Lastot Lastot   | Part Card                             |
| 34.8                | 5.25   | 10.7%   | · · · · · · · · · · · · · · · · · · · | . N.Ot                                 | ,                     |  | र अपेंट्र                             |

The increases during the latter two pairs of years may be explained by the presidential elections held during 1965 and 1969. A major portion of the 40.5 thousand increase in employment during the fiscal year ending in 1965 may be attributed to the electioneering (political appointments) of the Macapagal administration for the November election. The decrease in employment of almost 10 thousand in 1966 may be the backlash effect (resignations and dismissals) of the change in administration with the defeat of Macapagal. Similarly, the 45 thousand increase in employment in 1969 could be partly attributed to the Marcos administration's electioneering. However, presidential elections cannot explain the relatively high employment creation for other years especially after 1967. A massive infrastructure program was initiated by the government starting in 1967. The absolute change in employment in 1968 reflects the employment generation of this program. The relatively high employment generation even after 1969 may be attributed to the continuing emphasis on the infrastructure program.

As noted earlier, the interpretation of these statistics should be qualified with the possibility that many of the temporary employment during any fiscal year may not be counted. A classification of government personnel into temporary, provisional and

that the temperate contracts to the contract of the contract o

Table 11

Defined the well-violated as a selection of the selection of the

GOVERNMENT EMPLOYEES Annual Percent Fiscal geometric Absolute change of total Year ... Total : growth rate in employment employment ending (Percent) 287,118 3.9 3\*\*\* j. . . . . 1959 51,705 18.0 338,823 4.1 1960 22,489 6.6 3.9 1961 361,312 9.7 35,150 1962 V.L. 396,462 4.1 0.58 2,324 398,786 4.:0. 1963 4.01 16,317 415,103 1964 4.0 4.4 9.32 40,557 455,660 1965 (2.17)(9769) 445,891 4.I 1966 12,250 2.71 458,141 4.0 1967 4.94 23,179 481,320 4.2 1968 7.07 35,237 516,557 4.4 1969 2.77 14,502 531,059 1970 4.4 (0.01) (74) 530,985 4.3 1971 3.6 19,229 19**7**2ª 4.1 550,214 3.5 19,229 569,443 4.2 1973 Net total employment 282;325in Federal mo -1 Charte generation, 1959 to 1973

SOURCE: Civil Service Commission Annual Reports for the dates indicated in the table.

The employment figure is derived by averaging those of 1971 and 1973.

permanent status<sup>2</sup> shows that an average of 54.3% of government personnel were permanent during the period 1962-71.3 (45.7%) were either temporary or provisional. The high percentage of temporary and provisional employees in the government sector reflects a very high personnel turnover. This is probably an has grant release indication of the often remarked description of the government as a welfare institution which provides employment based more on welfare considerations rather than on productivity considerations id acimiz as is usual in the private sector. One example of an overt attempt of the government to generate employment for welfare purposes was ាមមិលស្ថិត the Employment Emergency Administration 4 which was started in July The program was mainly initiated to relieve unemployment.

work and got never product of a consequence of agencies, which has always

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Permanent appointment is issued to a person who has met all requirements of the position to which he seeks appointment in accordance with the provision of the Civil Service law and rules. A provisional appointment is issued to a person who has not qualified in an appropriate Civil Service examination but who otherwise meets the requirements for the position. As a general rule, appointment of this nature are subject to termination 30 days from receipt by the appointing authority of a certification of eligibles. A temporary appointment, on the other hand, is issued to a person for a position needed only for a limited period not exceeding 6 months.

<sup>&</sup>lt;sup>3</sup>Civil Service Commission Annual Reports of 1962 to 1971.

It was created by RA 3466 which envisioned the creation of "maximum employment opportunities for all who are able, willing and seeking to work but cannot find employment, thus increasing mass purchasing power, developing income in rural areas and stimulating economic activity in general."

It provided for preference to employment of the most needy in the locality where a government project was being undertaken. The project came in the form of roads, highways, irrigation, waterworks system constructions, land clearance, agricultural extension, reforestation and fisheries development. As a device to employ and generate income among the unemployed, it was a success. In 1962, it was reported that the program had employed close to a million Filipinos. Even before the end of its first year of operation, the program had spent P47 million of a 5-year appropriation of P100 million.

# 3.2.3 Labor Absorption in the Manufacturing Sector

Manufacturing has been the main target of policy measures to promote industrialization after the Second World War. It is therefore of interest to look at the employment generation in this sector during the period. Table 12 gives the distribution of total employment in manufacturing by major industry group based on the BCS Annual Survey of Manufactures. Of the industry groups in manufacturing, food has always had the largest relative share, at least a fifth, of total employment among establishments with at least 5 workers. In 1956, it was followed by footwear and other wearing apparel which accounted for a 16.5% share and wood and cork products with 9.6%. Total employment in these three industries came to more than half of the manufacturing employment being considered. By 1971, these three gourps were still top ranking industries in their relative shares of total

employment but textiles came in as second in rank and pushed down footwear and other wearing apparel, and wood and cork products, to third and fourth ranks, respectively. If the industries classified by size of employment were ranked as to their percentage of total manufacturing employment in establishments with at least 5 workers, food and footwear, and other wearing apparel are two industry groups with both their large and small establishments ranking among the top ten in their relative shares of total employment (Table 13).

Employment in the manufacturing sector for establishments with 5 or more workers increased from 206 thousand in 1956 to 421 thousand in 1971 or a 105% increase in 15 years. Of the 221 thousand net employment generated in the manufacturing sector from 1956 to 1971, textiles accounted for 17.3%, the largest share, followed by food with 13.4%, then wood and cork products with 10%, chemicals and chemical products, 7.6%, nonmetallic minerals, 7.3% and electrical machinery with 6.1% (Table 14). The other major industry groups accounted for smaller shares of the net employment generation. Most of the employment generated in manufacturing were in establishments with twenty or more workers (92.0%) as compared to 8% of the total employment generated coming from the smaller establishments with 5 to 19 workers. Of the six industry groups in manufacturing which experienced 3 30m UG6 decreases in employment during the period, five (beverages, tobacco products, textiles, furniture and fixtures, and chemicals

Table 12

Rank of Some Industries According to Relative Share of
Total Employment, 1956 and 1971

and the company (in percent) we have the continue of the comp

| F      | The state of the s |                                 | i i ja se pitem ka suka suka suka suka suka suka suka s  |
|--------|--|---------------------------------|--|
|        | 1956   |                                 | 1,971  |
| RANK   | Major Industry Group   | Industrial<br>Distribu-<br>tion | Major Industry Group Distribu-<br>tion   |
|        | Total Manufacturing  | 100.0                           | Total Manufacturing 100.0  |
| 1 2    | Food, manufactured<br>Footwear, other wearin<br>wearing apparel  | 28.1 · · · · · g<br>16.5        | Food, manufactured 20.9 Textiles 11.5 Wood and cork products 9.9   |
| 3      | Wood and cork products   |                                 | Wood and cork products 9.9 Footwear, other wearing   |
| 4      | Tobacco products   | 5.4                             | apparel 8.9  |
| 5      | Textiles : At the Bartonic   | 4.9                             | Chemicals & chemical   |
| 6      | Printed and published  |                                 | products 6.1   |
| 7      | <pre>c materials Chemicals and chemical</pre>  |                                 | Non-metallic minerals 5.2  |
|        | products   |                                 | Tobacco products 5.0   |
| 8<br>9 | Beverages  | 4.1                             | Metal products 4.3   |
| 10     | Furniture & fixtures   | 3.1                             | Beverages 3.8  |
| 111    | Non-metallic minerals  | 3.1                             | Printed & published materials 3.6  |
| 111    | Transport equipment  |                                 |  |
| 12     | Miscellaneous manufact   |                                 | Transport equipment 3.5  Basic metal products 2.8  |
| 13     | Machinery  | 2.0                             | Paper & paper products 2.5   |
| 14     |  |                                 | Miscellaneous manufactures 2.3   |
| 15     | Rubber products  | 1.3                             | Rubber products   2.2  |
| 16     | Electrical machinery   | 0.7                             | Machinery 1.6  |
| 17     | Basic metal products   | 0.6                             | Furniture & fixtures 1.5   |
| 18     | Leather and leather  |                                 | Leather and leather  |
| 1,0    | products   | 0.4                             | products 0.5   |
| 19     | retroleum and coal   |                                 | Petroleum and coal   |
|        | products   | a                               | products 0.4   |
|        | Lorencers, Ersey 4.  | No. 1 to 18 of the              | the the contribute of the cont |

a Included in major group Miscellaneous Manufactures to avoid the disclosure of information

the description of the contract of the property graduates, which has the

SOURCE: Bureau of the Census and Statistics Annual Survey of Manufactures for 1956 and 1971.

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TABLE 13
Rank of Some Industries by Relative Share of Total Employment, 1956 and 1971

| ., |          |                                   |                       |                            |                           | -                            | 29 -                               |            |                            |                                    |                            |                                  |                   |                                   |
|----|----------|-----------------------------------|-----------------------|----------------------------|---------------------------|------------------------------|------------------------------------|------------|----------------------------|------------------------------------|----------------------------|----------------------------------|-------------------|-----------------------------------|
|    | 4        | Percent of<br>Total<br>Employment | 15.9                  | 11.2                       | 0.6                       | 5.8                          | 5.0                                | 5.0        | L.                         | o. 4                               | o<br>o                     | 3.7                              | 3.6               |                                   |
|    | <b>T</b> | Size of<br>Employment             | ដ                     |                            | . <b>ப</b>                | LI<br>S                      | Ø                                  | H          | 1                          | <b>1</b> L1                        |                            | o 🛱                              | 1                 | State of the                      |
|    | 161      | Major Industry Group              | 20 Food, manufactured | 23 Textile                 | 25 Wood and cork products | 31 Chemical & chem. products | 20 Food                            | 22 Tobacco | 24 Footwear, other wearing | apparel<br>33 Non-metallic mineral | 24 Footwear, other wearing | apparen<br>21 Beverages          | 35 Metal products | $^{ m L}$ 20 or more workers      |
|    | v.1 (7)  | Percent of<br>Total<br>Employment | 18.3                  | 10.3                       | 8.0                       | 7.9                          | 6.2                                | 5.2        | T.1                        | 3.8                                | 3.7                        | 3.7                              | 2,9               | dia 66°<br>Kabal                  |
|    |          | Size of<br>Employment             | 170 <b>1</b>          | aring<br>L                 | လ                         | ucts L                       | ဟ                                  | . 120      |                            | cal                                |                            | <b>1</b>                         |                   | rann i na<br>Barrigan<br>1900-194 |
|    | 9 5 6 1  | Major Industry Group              | 20 Food, manufactured | 24 Footwear, other wearing | 20 Food                   | 25 Wood and cork products    | 24 Footwear, other wearing apparel | 22 Tobacco | 23 Textile                 | 31 Chemical and chemical products  | 21 Beverages               | 28 Printed & publisher materials | 35 Metal products | S <sub>5</sub> - 19 workers       |
|    | ,        | RANK                              | 7                     | 8                          | ო                         | #                            | ഗ                                  | 9          | 7                          | σ                                  | 6                          | 10                               | 7                 |                                   |

SOURCE: Bureau of the Census and Statistics Annual Survey of Manufactures

chemical products) experienced decreases in small establishments and only footwear, other wearing apparel experienced a decrease in employment in its large establishments. All the other manufacturing groups experienced positive employment generation for both establishment sizes.

Employment in manufacturing establishments with less than 5 workers was estimated by Nguyen Dac Quy by subtracting the employment in establishments with 5 or more workers (Annual Survey of Manufactures) from the employment statistics provided by the BCSSH Labor Force Survey [9]. He found this difference to be overestimated by an average of 8% as a result of the underestimation of employment in establishments with 5 to 19 workers in the Annual Survey of Manufactures, i.e., 8% of the difference should properly be credited to establishments with 5 to 19 workers. Table 15 gives the adjusted estimates of manufacturing employment by size of establishments for the period 1958-71. Employment in manufacturing establishments with less than 5 workers increased from 710 thousand to 939 thousand or an annual (geometric) growth rate of 2.5% during the period 1958-71. In spite of this increase, the relative share of these establishments' employment of manufacturing's total decreased from 71.0% to 65.1% during the period,

TABLE 14

Top Ten Major Manufacturing Industry Groups in Employment Generation, 1956 to 1971

| Major Industry Group  | Net Employment Generation, 1956 - 1971 | Percent<br>Distribution |  |  |
|---|--|-------------------------|--|--|
| All Manufacturing<br>industry groups<br>(5 or more workers) | 220,843                                |                         |  |  |
| Textiles  | 38,198                                 | 17.3                    |  |  |
| Food, manufactured  | 29,503                                 | 13.4                    |  |  |
| Wood and cork products                                      | 22,175                                 | 10.0                    |  |  |
| Chemicals and chemical products                             | 16,797                                 | 7.6                     |  |  |
| Non-metallic minerals                                       | 16,197                                 | 7.3                     |  |  |
| Electrical machinery  | 13,461                                 | 6.1                     |  |  |
| Metal products  | 11,170                                 | 5.0                     |  |  |
| Tobacco products  | 9,989                                  | 4.5                     |  |  |
| Basic metal products  | 9,803                                  | <b>4.</b> 4             |  |  |
| Transport equipment   | 9,179                                  | 4.2                     |  |  |

SOURCE: Bureau of the Census and Statistics Annual Survey of Manufactures.

· "我们是'特别是',只要你说了。""我们是我们的,我们是我们的。""我们是我们的。""我们是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是

When the net employment generation of the manufacturing sector is assessed using the Annual Survey of Manufactures data from 1956-71, most of the employment generated were found among establishments with 20 or more workers (92.0%) as compared to 8% generated by small establishments with 5 to 19 workers. If one includes Nguyen Dac Quy's adjusted estimates of employment in manufacturing establishments with less than five workers and makes similar calculations but this time covering the shorter period from 1958-71, one finds that even with the shorter period and without the statistics for 1961, 1967 and 1970, net employment generated by establishments with less than 20 workers came to 267 thousand as compared to 216 thousand generated by establishments with 20 or more workers. In other words, the smaller establishments of less than 20 workers generated 55% as compared to 45% generated by the larger establishments with 20 or more workers.

For comparison purposes, let us look at the ranking of the different major industry group in manufacturing by share of employment in 1971. In the smaller coverage of the Annual Survey of Manufactures which includes only establishments with 5 or more workers, food tops the list with 20.9% share of total employment. However, in a more complete count of total employment in the manufacturing sector provided by the BCSSH Labor Force Survey (average for the four quarters in 1971), footwear and other wearing apparel replaces food as top ranking industry in relative employment share equivalent to 26.5%. Food ranks only third

TABLE 15

Employment in Manufacturing Establishments by Size of Employment,
1958 to 1971
(in thousands)

|      |                             |                                   |                 | 1.1                            | 14:71                   |  |  |  |  |
|------|-----------------------------|-----------------------------------|-----------------|--------------------------------|-------------------------|--|--|--|--|
| YEAR | Total                       | Employment in Establishments with |                 |                                |                         |  |  |  |  |
| ILAK | Employment in Manufacturing | Less than<br>5 workers            | 5-19<br>workers | 20-49 50-99<br>workers workers | 100 and<br>more workers |  |  |  |  |
| 1958 | 1000                        | 710                               | 112             | 33 24                          | 121                     |  |  |  |  |
| 1959 | 1007                        | 707                               | 1114            | 34 23                          | •                       |  |  |  |  |
| 1960 | 1036                        | 724                               | 113             | 33                             | 129<br>144              |  |  |  |  |
| 1962 | 1070                        | 729                               | 111             | 311 27                         | 170                     |  |  |  |  |
| 1963 | 1199                        |                                   | 122             | 250°C                          | 1/0                     |  |  |  |  |
| 1964 | 1245                        | 855                               | 124             | 266°                           |                         |  |  |  |  |
| 1965 | 1161                        | 770                               | 117             | 273°C                          | <b>4</b>                |  |  |  |  |
| 1966 | 1280                        | 877                               | 127             | 276°C                          |                         |  |  |  |  |
| 1968 | 1311                        | 844                               | 142             | 35 35                          | 256                     |  |  |  |  |
| 1969 | 1291                        | 818                               | 141             | 30 32                          | 270                     |  |  |  |  |
| 1971 | 1443                        | 939                               | 150             | 354 <sup>C</sup> 354           | Lagra 270               |  |  |  |  |

(in percent)

|      | Total                       | Employment in Establishments with |                 |                  |                  |                      |  |  |  |
|------|-----------------------------|-----------------------------------|-----------------|------------------|------------------|----------------------|--|--|--|
| YEAR | Employment in Manufacturing | Less than<br>5 workers            | 5-19<br>workers | 20-49<br>workers | 50-99<br>workers | 100 and more workers |  |  |  |
| 1958 | 100.0                       | 71.0                              | 11.2            | 3.3              | 2.4              | 12.1                 |  |  |  |
| 1959 | 100.0                       | 70.2                              | 11.3            | 3.4              | 2.3              | 12.1                 |  |  |  |
| 1960 | 100.0                       | 70.0                              | 10.9            | 3.2              | 2.1              | 13.9                 |  |  |  |
| 1962 | 100.0                       | 68.1                              | 10.4            | 3.2              | 2.5              | 15.9                 |  |  |  |
| 1963 | 100.0                       | 69.0                              | 10.2            | 20.9             | c 2.0            | 13.3                 |  |  |  |
| 1964 | 100.0                       | 68.7                              | 10.0            | 21.4             |                  |                      |  |  |  |
| 1965 | 100.0                       | 66.3                              | 10.1            | 23.5             | (C               | ACC A                |  |  |  |
| 1966 | 100.0                       | 68.5                              | 9.9             | 21.6             | (c               |                      |  |  |  |
| 1968 | 100.0                       | SIL II                            | 10.8            | 2.7              | 2.7              | 19.5                 |  |  |  |
| 1969 | 100.0                       | 63.4                              | 10.9            | 2.3              | 2.5              | 20.9                 |  |  |  |
| 1971 | 100.0                       | 65.1                              | 10.4            | 24.5             | C Comment        | <sub>3</sub> . 20. 9 |  |  |  |
| a    | Figures obtained            |                                   |                 | o <b>al</b> espe | 257 34614        |                      |  |  |  |

Figures obtained from subtraction of employment in establishments with 5 or more workers (Annual Survey of Manufactures) from total employment in manufacturing (Labor Force Surveys) and subtracting 8% from it.

brigures obtained from subtraction of employment in establishments with 20 or more workers from that of establishments employing 5 or more (both from Annual Survey of Manufactures) and adding the 8% taken from the establishments with less than 5 workers.

<sup>c</sup>For establishments with 20 or more workers only.

SOURCE: Nguyen Dac Quy, Small Industry and Employment Creation in the Philippines:

A Descriptive Overview, M.A. Thesis, University of the Philippines, 1975,
pp. 22-23.

after textiles with its share down to only 13.0% of total employment as compared to the 18.4% of the latter industry (Table 16).

The importance of manufacturing establishments with less. than 5 workers is shown by the distribution of employment in each major industry group by size of establishment in the manufacturing sector in 1971 (Table 17). Of nineteen major industry groups in manufacturing (excluding products of petroleum and coal where no data was provided), only seven had less than 50% of the total employment in establishments with less than 50% of the total employment had more than 50% in this group. Footwear and other wearing apparel had the greatest proportion (91.4%) of its total employment in this establishment size followed by machinery, other than electrical and transport equipment.

Nguyen attempted to estimate the changes in employment in the different major industry groups in the manufacturing sector by looking at the number of establishments with 1 to 4 workers in 1961 and 1967 using the data from the economic censuses for these two years. The manufacturing industries which experienced at least 20% increases in the number of establishments with 1 to 4 workers from 1961-67 included food, textiles, footwear and other wearing apparel, printing, rubber, metal product, electrical machinery and transport equipment. He found out that the increase in ricemills accounted for 91.4% of the increase in

Beverages, tobacco products, paper and paper products, printing, rubber products, chemicals and chemical products, and basic metal products.

Comparison of Industrial Distribution of Manufacturing Employment for All Establishments with 1 or More Workers (BCSSH) and for Establishments with 5 or More Workers (ASM), 1971

TABLE 16

|                                  |  | ASA  |                                 |          | ВСSSН                                  |                                 |
|----------------------------------|--|--|---------------------------------|----------|--|---------------------------------|
| Major Industry Group             | Rank   | Total employment in manufacturing with 5 or more workers | Industrial<br>Distribu-<br>tion | Rank     | Total employment in manufacturing with | Industrial<br>Distribu-<br>tion |
| Total Manufacturing              | 18 18 F 18 18 18 18 18 18 18 18 18 18 18 18 18 | 420,988  | 100.0                           |          | 1,442,987                              | 100.0                           |
| Food, manufactured               | T  | 88,023   | 20.9                            | က        | 187,971                                | 13.0                            |
| Textiles                         | 7  | 48,328   | 11.5                            | ~        | 265,487                                | 18.4                            |
| Wood and cork products           | က  | 41,708   | 6.6                             | <b>=</b> | 122,168                                | 8.47                            |
| Footwear & other wearing apparel | 4  | 37,294   | 8.9                             | <u>-</u> | 382,424                                | 26.5                            |
| Chemicals & chem. products       | ٠.   | 25,716   | 6.1                             | æ        | 38,682                                 | 2.7                             |
| Non-metallic minerals            | ဖ  | 21,741   | 5.2                             | ဖ        | 71,525                                 | 5.0                             |
| Tobacco products                 | 7  | 21,257   | 5.0                             | 13       | 25,350                                 | 1.8                             |
| Metal products                   | α  | 18,129   | £.4                             | တ        | 37,861                                 | 2.6                             |
| Beverages                        | 6  | 15,921   | 3,8                             | 11       | 31,031                                 | 2.2                             |
| Printed & published materials    | 9  | 15,343   | 3.6                             | 15       | 24,455                                 | 1.7                             |
| Electrical machinery             | 디  | 14,906   | ກິດ                             | 7        | 43,203                                 | 3.0                             |
| Transport equipment              | 12   | 14,749   | 3.5                             | 2        | 75,743                                 | 5.2                             |
| Basic metal products             | 13   | 11,689   | 2.8                             | 16       | 12,893                                 | 6.0                             |
| Paper and paper products         | <u>+</u>                                       | 10,433   | 2.5                             | 17       | 9,597                                  | 0.7                             |
| Miscellaneous manufactures       | 15   | 9,722  | 2.3                             | <br>     | 25,067                                 | 1.7                             |
| Rubber products                  | 16   | 981.6  | 2.2                             | 18       | 8,612                                  | 9.0                             |
| Machinery                        | 17   | 698,9  | 1.6                             | 20       | 35,001                                 | 2.4                             |
| Furniture and fixtures           | 18   | 618,3  | 2°.                             | 12       | 29,278                                 | 2.0                             |
| Leather & leather products       | 13   | 1,922  | . O. 5                          | 13       | 5,382                                  | †.°0                            |
| Petroleum & coal products        | 50   | 1,703  | <b>₩.6</b>                      | 20       | #                                      | l                               |

Bureau of the Census and Statistics Survey of Households and Annual Survey of Manufactures, 1971. SOURCE:

TABLE 17

Manufacturing Employment Distribution

By Major Industry Group By Size of

Establishment, 1971

(percent)

| Majou Talastas Ossas             | Size   | of Manufacturi | ng Establishments     |
|----------------------------------|--------|----------------|-----------------------|
| Major Industry Group             | TOTAL  | 1 - 4 Workers  | 5 or More Workers     |
| Total Total                      | 100.0  | <b>G</b> . B   | 100 0 0 0 0           |
| Total, manufacturing             | 100.0  | 70.7           | 29.3                  |
| Food, manufactured               | 100.0  | 53.3           | 46.7                  |
| Beverages                        | 100.0  | 48.7           | 42.3                  |
| Tobacco products                 | 100.0  |                | 83.9                  |
| Textiles                         | 100.0  |                | 20.7                  |
| Footwear & other wearing apparel | 100.0  | 91.4           | 8.6                   |
| Wood and cork products           | 100.0  | 1              | 34.3                  |
| Furniture and fixtures           | 100.0  | 78.1           | 21.9                  |
| Paper and paper products         | 100.0  | -,             | 100.0                 |
| Printed & published materials    | 100.0  | ,              | 58.3                  |
| Leather & leather products       | 100.0  | 64.2           | 35.8                  |
| Rubber products                  | 100.0  | - 1            | 100.0                 |
| Chemicals & chemical products    | 100.0  | 33.5 H         | 66.5                  |
| Products of petroleum & coal     | 100.0  | - <u>-</u>     | l, 31 - 1 - 1 - 1 - 1 |
| Non-metallic minerals            | 100.0  | 69.6           | 30.4                  |
| Basic metal products             | 100.0  | 9.7            | 90.3                  |
| Metal products                   | 100.0  | 52.1           | 47.9                  |
| Machinery except electrical      | 100.0  | 80.5           | 19.5                  |
| Electrical machinery             | 100.0  | 65.5           | 34.5                  |
| Transport equipment              | 100.0  | 80.5           | 19.5                  |
| Miscellaneous manufactures       | 100.0  | 61.0           | 39.0                  |
|                                  | a et l |                |                       |
|                                  |        |                |                       |

FOURCE: Bureau of the Census and Statistics, Annual Survey of Manufactures, 1971. 4 11 /

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establishments of 1 to 4 workers in food. In textiles, the increase of establishments was mostly in spinning, weaving and finishing mills producing native textiles. Most of the expansion in the footwear and other wearing apparel industry came from the increase in production of wearing apparel other than footwear. The biggest share in the increase of establishments of 1 to 4 workers in printing came from the increase in commercial printing. In the case of rubber products, the more than hundred percent increase in units with less than 5 workers was due to the increase in establishments in tires and related products, mainly in activities concerning tires retreading, recutting, vulcanizing and repairing. Related to this industry is the similarly greater than a hundred percent increase of establishments with less than 5 workers in transport equipment mostly found in motor vehicle and motorcycle repair shops and ship/boat building and repairing. In the metal products industry the increase of establishments was predominantly in the production of metal cans, boxes and containers, cutlery handtools and general hardware, fabricated structural metal products and architectural and ornamental metalworks. Lastly, in the case of electrical machinery, apparatus, appliances and supplies, the increase in establishments were mainly in electrical industrial machinery and apparatus, batteries, electrical lamps and wires, household electrical appliances and household radios, ty sets, phonographs and accessories.

### 3.3 Class of Worker Characteristics of Labor Absorption

The class of worker distribution of the employed reveals other characteristics of employment which further qualify the extent of employment generation in the economy during the period under study. Table 3 summarizes the distribution of employed persons by class of worker for some selected years. There was still a high proportion of unpaid family workers although the relative share of wage and salary workers increased from 29.1% in 1956 to 37.8% in 1973. The proportion of self-employed workers decreased from 42.9% to 39.0% and that of the unpaid family workers also decreased from 27.4% to 23.0%. The large size of unpaid family workers equivalent to 25.6% of total employment or 2.5 million workers is too large to justify as employment by choice of those concerned. It is possible that many were in this class of worker due to the lack of employment opportunities. Hence, their being counted as employed should not be considered a satisfactory state of the employment situation in the economy.

The industries which account for a major portion of the wage and salary workers, in the order of their importance, are agriculture, manufacturing, government, community, business and recreational services, domestic services and commerce (Table 18). Of interest is the trend in the relative shares of these different industries from 1957-73. Agriculture's share decreased from 27.0% to 19.6%. The relative share of government, community,

business and recreational services increased from 15.1% to 21.1%. There was hardly a change in the relative share of manufacturing which remained at about 17.0% while that of commerce and domestic services both increased from 7.3% to 8.6% and from 12.8% to 13.6%, respectively. Among the self-employed workers, agriculture accounted for a major portion, 68.8%. It was followed by commerce, manufacturing, personal services and transport, storage and communication. The relative share of agriculture among the self-employed workers remained practically constant at 69% from 1957-73. Manufacturing's share of this class of worker decreased from 12.2% to 8.2% while commerce share increased from 13.6% to 17.3%. Transport, storage and communication also experienced an increase in its relative share by 1% while that of personal services decreased by the same magnitude. As in the case of the self-employed, the unpaid family workers were mostly employed in the agricultural sector. The sector accounted for at least 85% of the unpaid family workers. The other industries with large relative shares in this class of worker were manufacturing and commerce. There was a very slight increase in the share of agriculture and of commerce while that of manufacturing decreased during the period 1957-73.

What do these trends in the industrial distribution of each class of workers imply? First, the increase in the relative share of government, community, business and recreational services among the wage and salary workers from 1956-73 made it

TABLE 18

Employed Persons by Major Industry Group,
BBy Class of Worker, 1957, 1968 and 1973
(in thousands, except percent)

| MAJOR<br>INDUSTRY                        |           | 1957              |                  |                 | 1 9 7 3           |              |
|--|-----------|-------------------|------------------|-----------------|-------------------|--------------|
| GROUP                                    | swa       | S-EW <sup>b</sup> | UFW <sup>C</sup> | sw <sup>a</sup> | S-EW <sup>b</sup> | UFWb         |
| All industries                           | 2379      | 3501              | 2250             | 5130            | 5167              | 3133         |
| Percent                                  | 100.0     | 100.0             | 100.0            | 100.0           | 100.0             | 100.0        |
| Agriculture, forestry                    | . : .· ·  |                   |                  |                 | and the state     |              |
| hunting and fishing                      | 27.0      | 68.8              | 84.5             | 19.6            | 68.9              | 87.0         |
| Mining and Quarrying                     | 1.1       | 0.1               | 0.1              | 0.9             | 0.2               | 0.1          |
| Construction                             | 8.6       | 0.6               | 0.1              | 8.0             | 0.6               | 0.3          |
| Manufacturing                            | 17.4      | 12.2              | 7.7              | 16.6            | 8.2               | 4.1          |
| Electricity, gas water and sanitary      | ; ! .     | unia de           | . 4              |                 |                   | <b>7 • 4</b> |
| services                                 | 0.8       | *                 | *                | 0.7             | 0.0               | _            |
| Commerce                                 | 7.3       | 13.6              | 6.4              | 8.6             | 17.3              | 7.5          |
| Transport, storage                       |           |                   |                  | 10              | 27.0              | 7.3          |
| and communication                        | 7.9       | 1.3               | 0.2              | 7.9             | 2.0               | 0.1          |
| Government, communica-                   |           |                   |                  |                 |                   |              |
| tion, business and recreational services | ր<br>15.1 | 0.17              |                  |                 |                   |              |
|  |           | 0.7               | 0.1              | 21.1            | 0.9               | 0.2          |
| Domestic services                        | 12.8      | *                 | 0.1              | 13.6            | 0.0               | 0.1          |
| Personal services other than domestic    | 2.1       | 2.9               | 1.1              | 2.7             | 1.9               | 0.8          |
| Industry not reported                    | 0.3       | Ali 💒 🕍           | 0.1              | 0.4             | 0.0               | 0.1          |
|  | 13.7.7    |                   |                  |                 |                   |              |

a salary workers

SOURCE: Bureau of the Census and Statistics Survey of Households Bulletin for the dates indicated in the table.

b self-employed workers; includes employers

cunpaid family workers

less than 0.1 percent and a second a second and a second

account for the largest proportion of this class of worker by
1973 such that it more than equaled the share of agriculture.

The great bulk of employment in this sector was in government
(where all employees are paid) and, hence, attests to the
increasing role of government in direct employment generation.

Community of Balance Configuration of

Second, the decrease in the relative share of manufacturing in the self-employed class of worker is an indication that the sector is getting more organized and its establishments getting larger such that there are less self-employed in the sector.

This development is further manifested by the decrease in manufacturing's relative share of the unemployed family workers from 7.7% to 4.1% during the period. As the sector gets transformed from the small single proprietorship establishments, unpaid family workers are displaced in the evolving more organized larger establishments with modern formal management systems.

Third, the increase in the relative share of transport, storage and communication among the self-employed is an indication that the continuing monetization and industrialization of the economy has created a large demand for transportation services.

This sector allows for self-employment as reflected in the proliferation of owner-driven cabs, jeepneys, and pedicabs in many urban areas and also in the countryside.

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Fourth, commerce continues to create employment in the services sector of the relatively small-scale type of

establishments. Its share of the self-employed increased from 13.6% to 17.3% which is complemented by a corresponding increase in its relative share of unpaid family workers from 6.4% to 7.5%.

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Lastly, personal services show a decrease in its relative share among the self-employed which might be an indication of the trend towards large establishments with paid workers rather than single proprietorship-one person establishments or single proprietorships with unpaid family workers.

## 3.4 Labor Absorption in the Organized and Unorganized Sectors

The large unorganized sector is further proof of the serious unemployment problem since it reflects the large number of low productivity workers in the economy. Table 19 summarizes the distribution of employment between the organized and the unorganized sectors in some industries during the period 1961-71. The total employment in domestic services is considered to be in the unorganized sector. After domestic services, commerce was the most predominantly unorganized sector during the period (81.8%), fol-owed by personal services (74.7%), then by transport, storage and communication (71.1%). From 1961-71, there were decreases in the percentage of those employed in the unorganized sectors in all these industries except in transport, storage and communication. The latter may be explained by the increased

TABLE 19

it In The Organized And Unorganized Sectors Of Some Industries 1961, 1967, and 1971

|      |                         | · ·         | <del></del> | · ·   |             |            |
|------|-------------------------|-------------|-------------|-------|-------------|------------|
|      | Unorga-<br>nized<br>(%) | 81.4        | 77.5        | 100.0 | 11.9        | 72.9       |
| H    | Orga-<br>nized<br>(%)   | 100.00      | 100.0 22.5  |       | 1.00.0 88.1 | 100.0 27.1 |
| 197  | 1 (%)                   | 100.0       | 100.0       | 100.0 | 100.0       | 100.0      |
|      | Total<br>(thousand) (%) | 1562        | 530         | 667   | T#9         | 280        |
|      | Unorga-<br>nized<br>(%) | 79.2        | 73.9        | 0.001 | 14.5        | L*#L       |
| ,    | Orga-<br>nized<br>(%)   | 20.8        | 26.1        | •     | 85.5        | 25.3       |
| 1967 | 1 (%)                   | 100.0 20.8  | 100.0 26.1  | 100.0 | 100.0 85.5  | 100.0 25.3 |
|      | Total<br>(thousand)     | 1153        | 395         | 538   | 529         | 245        |
|      | Unorga-<br>nized<br>(%) | 84.7        | 61.8        | 100.0 | 16.7        | 9*92       |
| 1    | Orga-<br>nized<br>(%)   | 15.3        | 38.2        | ŧ     | 83.3        | 23.4       |
| 196  | 1 (%)                   | 100.00 15.3 | 100.0       | 100.0 | 100.0       | 100.0 23.  |
|      | r a                     |             | · ·         |       |             |            |

ables 30 and 31 of ILO, Sharing in Development, 1974, pp. 179, 181.

demand for road transport and the greater possibility of selfemployment in this sector. To further describe the extent of
employment in the unorganized sector, Table 20 gives a percentage
distribution by industry for the years 1961, 1967 and 1971.

Commerce accounted for the largest percentage, followed by
domestic services, then transport, storage and communication,
personal services, and finally, community, business and recreational services. By 1971, there was slight shifts in industry
distribution away from commerce and personal services towards
transport, storage and communication, and community, business and
recreational services.

A comparison of cash earnings in 1956 and 1973 will indicate which industries were characterized by relatively high rates of unemployment. Table 21 gives us the median cash earnings for May 1956 and average cash earnings for May 1973. The two industries which experienced decreases in real cash earnings were construction and domestic services. Although real cash earnings in government, community, business and recreational services, and personal services did not show any decrease, they increased by very small magnitudes compared to the other industries. Therefore, one can conclude that these four industries, especially the first two, have been depositories of low productivity labor.

|          |                 |                                       |                  |                             | description and description |                        | de d | anno anno a martino de l'appropriere de la compansión de l'appropriere de |                          |               |
|----------|-----------------|---------------------------------------|------------------|-----------------------------|-----------------------------|------------------------|--|---|--------------------------|---------------|
| 547.6    |                 | 0.58                                  |                  | .00<br>1<br>1<br>1 1<br>1 1 | - 4                         | 5 <del>-</del><br>E 20 |  |   | -11<br>-12<br>-12<br>-13 | De de la Care |
| Loyment  | in the          | Uno                                   | rganiz           | ed Sec                      | otor i                      | n Sc<br>rcer           | ome Indust                               | ries, 1961  | , 196                    | 7 and         |
|          | Serv            | ices                                  | Secto            | . 60<br>. 60<br>            |                             |                        | 1961                                     | 1967  | 19                       | <u></u>       |
| ·· Comme | rce             |                                       |                  |                             |                             |                        | 51.0                                     | 46.2  | .48                      | . 3           |
|          | port,<br>munica |                                       |                  | đ                           |                             |                        | 12.3                                     | 14.8  | 15                       | .6            |
| Domes    | tic se          | rvic                                  | es               | 1                           |                             |                        | 25.2                                     | 27.2  | 25.                      | 4             |
| Commu    | nity,<br>reatio | businal                               | ness a<br>servic | nd<br>es                    |                             |                        | 2.1                                      | 2.5   | 2.                       | 9             |
| Person   | nal se          | rvic                                  | es               | 1                           | .ii.                        |                        | 9.4                                      | 9.3   | 7.                       | 8             |
|          | :               |                                       | ТО               | TAL                         |                             |                        | 100.0%                                   | 100.0%  | 100.                     | 0%            |
|          | 4               | <u>.</u>                              |                  | ;<br>;<br>;                 |                             | :                      |  | · · · · · · · · · · · · · · · · · · ·   |                          | ·             |
| SOU!     | RCE:            | ILO,                                  | Shari            | ng in                       | Devel                       | opme                   | ent, 1974,                               | Table 30,   | p. 17                    | 79.           |
|          |                 | · · · · · · · · · · · · · · · · · · · |                  |                             |                             | •                      |  |   | •                        | •             |
|          |                 | •                                     |                  |                             |                             |                        |  |   |                          |               |

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| Industro  | May                     | 1956                                  | May                      | May 1973                              | Weekly Cash<br>Index (19                | Cash Earnings<br>(1956=100) |
|---|-------------------------|---------------------------------------|--------------------------|---------------------------------------|---|-----------------------------|
| ) [   | Median Cash<br>Earnings | Deflated <sup>a</sup><br>(1965 = 100) | Average Cash<br>Earnings | Deflated <sup>a</sup><br>(1965 = 100) | Undeflated                              | Deflated                    |
| BOTH SEXES  | 14,1                    | 19.9                                  | 21                       | 26.2                                  | 361.7                                   | 131.7                       |
| Agriculture, forestry,<br>hunting & fishing           | 8.9                     | 9.6                                   | 06                       | 15.4                                  | μμ1.2                                   | 160.4                       |
| Mining & quarrying                                    | 21.3                    | 30.1                                  | 70                       | 36.0                                  | 328.6                                   | 119.6                       |
| Manufacturing   | 15.2                    | 21.5                                  | 57                       | 29.3                                  | 375.0                                   | 136.3                       |
| Electricity, gas, water and sanitary services         | 1 27.3                  | 38.6                                  | 82                       | 43.7                                  | 311.4                                   | 113.2                       |
| Construction  | 22.0                    | 31.1                                  | 50                       | 25.7                                  | 227.3                                   | 82.6                        |
| Commerce  | 16.3                    | 23.0                                  | 9                        | 30.8                                  | 368.1                                   | 133.9                       |
| Transport, storage and communication                  | 18.4                    | 26.0                                  | 26                       | 28.8                                  | 304.3                                   | 110.8                       |
| Government, community, business recreational services | iness 28.7              | 40.5                                  | <b>9</b> 0               | 41.1                                  | 278.8                                   | 101.5                       |
| Domestic services                                     | 9.3                     | 13.1                                  | 7                        | 7.2                                   | 150.5                                   | 54.9                        |
| Personal services other than<br>domestic              | m<br>13.3               | 18.8                                  |                          | 20.6                                  | 300.8                                   | 109.6                       |
| Industry not reported                                 | 20.7                    | 29.2                                  | 311                      | 159-9                                 | 1,502.4                                 | 547.6                       |
| π   |                         |                                       |                          |                                       | *************************************** | 1                           |

The following Consumer Price Ind ces for the Philippines were used: 1956: 70.8; 1965: 100.0; and 1973: 194.5. Since the published CPI Philippines series starts in 1957; the same change in CPI Manila from 1956 to 1957 was assumed to hold for the CPI Philippines

# ANALYSIS OF LABOR ABSORPTION IN THE PHILIPPINES DURING THE PERIOD 1956 to 1973

technology, relative factor prices, the level of output and output mix. Technology may constrain the extent to which a factor is employed in production. However, in most cases, there is a range of factor combinations one can choose from. Therefore, relative factor prices together with the level of output and its composition determine factor employment. In an economy where there is surplus labor and scarce capital, if the market were allowed to function freely, the prices of labor relative to capital would lead to the choice of labor-intensive techniques. The higher the level of output and the greater the tendency for the output mix to be biased towards goods which use more labor than capital then the higher the labor absorption in the economy.

This analysis indicates the variables which may explain the extent of labor absorption.

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### 4.1 Industrial Employment and Output Andrew State Company

In the absence of capital data for different industries during the period under study, we shall attempt to describe labor absorption further by examining output in relation to employment. Table 22 gives the geometric growth rate of employment  $\binom{G}{n}$  and income  $\binom{G}{y}$  and their ratio  $\binom{G}{n}\binom{G}{y}$  which we shall call employment-output coefficient. The period under study is divided into two sub-periods, 1956-68 and 1971-73 as defined by the years with

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continuous BCSSH employment data. During the first period, construction had the highest of 1.9 followed by transportutilities and services each registering a cn/Gy of 1.1. Although Manufacturing had the lowest Gn/Gy of 0.4. For the second period, agriculture showed a dramatic increase in 6n/Gy from 0.6 to 2.7 which was the highest. All the other industries  $\binom{G}{n}$ 's decreased. That of transport-utilities became negative (-1.7) and also that of manufacturing (-0.2). Employment in construction had a zero growth rate but the industry had the highest <sup>G</sup>y of  $^{\rm G}$  24.0%. Services, on the average, experienced a decline in  $^{\rm G}$  n/ $^{\rm G}$ y to .01. If we look at the  $^{\rm G}{\rm n}/^{\rm G}{\rm y}$  for the whole period 1956-73, we notice that the highest employment-output coefficient of 1.1 is observed for services (which is composed of governmentcommunity-business and recreational services, domestic services and personal services). Services is followed by construction and transport-utilities which both show a Gn/Gy of 1.0 then commerce with 0.8 followed by agriculture and mining with 0.7 each. Manufacturing comes last with 0.3.

For the whole economy, the  $^{G}n/^{G}y$  increased from 0.7 during the period 1956-68 to 0.8 for the period 1971-73. Using the broad industry groupings of agriculture, industry and services, only agriculture experienced an increase in the coefficient from the first period to the second as indicated earlier, whereas, industry and services both showed decreases from 0.6 to 0.1 and from 0.9 to 0.3, respectively. If we look at the whole period of 1956-73,

Employment (n) and Output (y) Growth Rates By Industry, 1956 to 1973

| <b>-</b> - |             |                   |                         |            |       |     |  | . 2                  | -+            | -            |                                      |   | ,        |   |                 |                   |                         | 1             |   |
|------------|-------------|-------------------|-------------------------|------------|-------|-----|--|----------------------|---------------|--------------|--------------------------------------|---|----------|---|-----------------|-------------------|-------------------------|---------------|---|
|            | 73          | Gn/ <sub>Gy</sub> | <b>.</b>                | .7         | •5    | 1.0 | .7                                       | .7                   | e.            | 1.0          | 1.0                                  | 12 N. J. J.                                 | ထ        | ¥ \$0°  | ام<br>جا<br>نيد | )<br>}            | er s                    | -4            | pesos   |
|            | 1956 - 1973 | Gy                | 4.7 c                   | 3.7        | 5.9   | 9.4 | 3.7                                      | 7.4                  | 6.1           | 6.4          | ි<br>ග්<br>ක්                        |   | 5.2      | 14 × 4  | . C. H          | G                 | - (1)                   |               | million                                       |
|            | , PORT      | Gn                | 3.1                     | 2.5        | 3.1   | 4.4 | 2.5                                      | 5,5                  | 2.0           | 4.9          | 9.4                                  | ц.9   | 4.0      | .7  | 6.1             | 4.6               | `∞ c                    | 3. G          | fces in                                       |
|            | 3           | Gn/ <sub>Gy</sub> | ာ ( <b>မာ</b>           | 2.7        | (.1)  | ႍက္ | 2.7                                      | ή.                   | (.2)          | 0            | S(11.7)                              | i<br>Victoria                               | €*       | 1.7   | [0              | <b>!</b><br>•     | . h                     | 1.            | National Income, 1967 prices in million pesos |
|            | 1971 - 1973 |                   | nna a<br>6.<br>3.<br>3. | 3.4        | 9.8   | 5.4 | 3.4                                      | 5.9                  | 8.6           | 24.0-        | 4                                    | (s12/+)                                     | 5.9      | ini .<br>Abril                                | ે<br>ડે         | •                 | n r                     |               | al Income                                     |
| \$22<br>5. | 6T 5        | . <b></b>         | μ. 7 σ.                 | 9.1        | (1.3) | 1.4 | <b>1.</b> 6                              | 2.5                  | (1.3)         | 0            | (1.3)                                | (19.8)                                      | 1.6      | odel<br>as 7                                  | (2.4)           | 5.1               | ETEN:                   | (2.5)         | - Nationa                                     |
| anii t     | 80          | Gn/Gy             | i i                     | 9•         | 9.    | 6.  | 9.                                       | 6.                   | <b>→</b>      | 1:9          | o to di                              | 1   | <7       | 385   | -               | ╅                 | , है एक्                | ur<br>U k     | ្រា <b>ង</b><br>ល្រាល់                        |
|            | 1956 - 1968 | . <b>∕</b>        | 9° <del>1</del> 1       | 4.1        | 5,1   | 9.4 | Τ•η                                      | 5.6                  | 5.7           | 2.8          | L 1                                  | • • • • • • • • • • • • • • • • • • •       | 5.3      | age   | <br>-<br>-      | )<br> -           |                         |               | thousands                                     |
| fysa       | ži i        | <b>.</b> &        | 3.0                     | 2.4        | 3.1   | t.3 | 2.4                                      | 5.2                  | 2.3           | 5.3          | 0*#                                  | ്ഥ  | 3.8      |   | 6.5             | 3.8               |                         | 4.3           | l.  |
| - अस्तर    | i ser       | Industry          | ALL INDUSTRIES          | # <b>V</b> | t d   | od. | Agriculture, forestry, hunting & fishing | Mining and quarrying | Manufacturing | Construction | Transport, storage and communication | Electricity, gas, water 8 sanitary services | Commerce | Government, community business & recreational |                 | Domestic services | Personal services other | than domestic | n - employment in                             |

SOURCE: Employment data are from the Bureau of the Census and Statistics Survey of Households for the dates indicated in the table. National Income data are from the NEDA Statistical Yearbook of 1975. services had the highest  $^{G}n/^{G}y$  of almost 1.0 followed by agriculture with 0.7 and, finally, industry with 0.5.

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Let us define labor intensity by the employment-output ratio which in the study will be measured man years per thousand pesos of output and compare it with the incremental labor-output ratio for the period 1956-73. Table 21 summarizes these ratios by industry. All industries, with the exception of construction and services, had lower incremental labor-output ratios as compared to their labor intensity in 1956. Construction had a 0.6 incremental labor-output ratio as compared to 0.4 labor intensity in 1956 while services had an incremental labor-output ratio of 0.4 as compared to its labor intensity of 0.3 in 1956. The other industries, namely, agriculture, mining, manufacturing and commerce had lower incremental labor output ratios relative to labor intensity in 1956 while the utilities had the same incremental labor-output ratio and labor intensity. Hence for the period under study, only construction and services improved their labor absorption per unit of output.

# 4.2 Analysis of Labor Absorption in Some Industries

We will attempt to explain the labor absorption experience in terms of the effect of industrialization policy measures on relative factor prices, the state of technology and some institutional considerations.

### 4.2.1 Agriculture

TROLIET.

Employment in the agricultural sector is dominated by rice and corn farming employment (see Table 8). The technology in rice and corn agriculture have been generally labor-using, and one can speculate that there was no substantial departure from the traditional agricultural technology during the 1950's and the 1960's. The extent of capital intensity in rice and corn agriculture maybe explained by the extent of the cooperative movement and the development and adoption of new drop varieties requiring new proportions and types of inputs. As of 1960 most farms ranged from 1.7 to 5.6 hectares (except in the case of sugar where it was 13.9 hectares)[10, Table 7, p. 14]. This range of farm sizes is not likely to be widely mechanized in the sense of using tractors to plow and prepare the soil, fertilizer and insecticide sprayers, mechanical weeders, harvesters and threshers. Mechanization of small-scale farming would be too expensive without a cooperative organization among farmers. Cooperatives only started to get established in the 1970's. Attempts of the government to form cooperatives among farmers in the 1950's were not successful. The change in the structure of land ownership which was started in 1963 but gained momentum only in the latter part of the 1960's may have made some landlords consolidate their lands and farm them, most likely with the use of more modern technology than what the farmer tenants used. However, there is no reason to believe that farm owners tilling their land would

Labor Intensity and Incremental Labor - Output Ratio By Industry 1956 to 1973 TABLE 23

|        | Incremental<br>Labor-output ratio<br>(An/by)   | 1956-1973                                   | 96.0           | 0.71          | 0.18  | 0.32     | 0.71                                     | 0.07               | 0.12 | 09*0         | •                      | ħħ•0          |                     | 0.29     | <br>υ<br>200-0 | CC • 7                                  |                         |               |
|--------|--|---|----------------|---------------|-------|----------|--|--------------------|------|--------------|------------------------|---------------|---------------------|----------|----------------|---|-------------------------|---------------|
| ÷.     | Labor Intensity $\binom{n/y}{}$  | 1956  | 0.56           | ħĞ <b>*</b> 0 | 04.0  | 0.32     | <b>π6*</b> 0                             | 0.53               | 64.0 | 0.36         |                        | 11.0          | ÷                   | 0.39     | a t            | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                         |               |
| e-Mg   | kγ   | 1956-1973                                   | 15080          | 3532          | 5473  | 6075     | 3532                                     | 525                | 3858 | 413          | ,                      | 677           | · f ·               | 2688     | 2307           | 1966                                    |                         | isa P         |
|        | γυ   | 1956-1973                                   | T##S           | 2508          | 995   | 1943     | 2508                                     | 37                 | 413  | 247          | la i                   | 298           |                     | 772      | 12.1           | 7/17                                    |                         | *2            |
|        | r vita i vita  | 1973  | 29268          | 8623          | ±1606 | 11551    | 8623.                                    | 734                | 6167 | 920          |                        | 1234          |                     | # 106    | 7 10 2         | 000                                     |                         |               |
| 3 (4.5 | errit .  | 1956  | 14188          | 5091          | 3621  | 5476     | 5091                                     | 209                | 2309 | 537          |                        | 566           | . 1.5.4             | 2018     | 07.10          | 0420                                    |                         |               |
| **     | eyî îpeya.<br>De di <b>d</b> we  | 1973  | 13450          | 7306          | 2450  | 3693     | 7306                                     | 61                 | 1406 | 438          |                        | 545           |                     | 1565     | 2100           | 0777                                    |                         |               |
|        | y e e i  | 1956  | 6008           | 4798          | 1455  | 1750     | 4798                                     | 24                 | 993  | 191          | *                      | 247           | 90)                 | 793      |                | )<br>)<br>)                             |                         |               |
|        | tich objective the property of | and<br>Description<br>Francisco<br>Marcisco | All Industries | 97. <b>V</b>  |       | <b>S</b> | Agriculture, forestry, hunting & fishing | Mining & qyarrying |      | Construction | Transport, storage and | communication | & sanitary services | Commerce | <br>services   | Domestic services                       | Personal services other | than domestic |

y - National Income, 1967 prices, in million pesos n - employment in thousands

SOURCE: Employment data are from the Bureau of the Census and Statistics Survey of Households for the dates indicated in the table.

Notional Indome data and from the NEDA Statistical Vershook of 1075

therefore, very possible that the average agricultural technology was used in the Philippines would still be that of the traditional.

High yielding varieties of rice and corn became more disseminated in 1968. Their effects started to be felt after that.

These varieties need higher levels of inputs than the ordinary ones.

They need 300% more fertilizers and insecticides and 50% more labor, especially, for weeding purposes. In effect, they do not constitute only a new seed variety but also a whole different way of farming from the traditional, therefore, any change in capital intensity would not manifest itself as part of the new technology but as an effect of the modernization of agricultural practices which would likely spill over to the use of more modern agricultural implements.

Coconut farming which accounts for the next largest proportion of agricultural employment continues to be traditional in its vecchniques. In a 1966 survey of 12 provinces, it was found out that coconut farmers were unenthusiastic about management practices which were likely to improve productivity [6, pp. 23-24]. Sugar farming and forestry and logging are two agricultural activities which are relatively capital-intensive. It is very likely that there was no dramatic change in their technology during the period under study. The same can be said for tobacco farming though it has been found that the farmers in this activity have been known to respond very strongly to economic incentives. Livestock

production on a commercial scale is relatively modern and likely to be capital intensive compared to backyard scale of production.

The growth of livestock production, however, is more of a recent phenomenon starting only in the 1960's.

On the average, the technology in agriculture seems to indicate that it would still remain traditional rather than mechanized or modern. However, the serious encouragement by the government of cooperatives and credit facilities for farmers together with land reform in the 1970's may increase mechanization or capital intensity in the farm. For the period under study, the continuous high labor absorption in agriculture is partly explained by the slow modernization of technology used in agricultural production.

Agricultural productivity may be explained by different patterns of agricultural resource use before 1960 and after 1960.

In the first period, the increase in agricultural productivity was mainly caused by the increase in land area placed under cultivation. However, after 1960, cultivated area per worker started to decrease and the continuous increase in agricultural productivity (whether measured by output minus input or output per hectare per worker or output per worker) was caused by multiple cropping, increase in irrigation, and increased use of fertilizer [11, Table 85, p. 443].

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One must be careful about making generalizations regarding the extent of mechanization in agriculture or, in general, the pattern of agricultural resource use. Regions would differ by crop and also by technique of production. Evidences gathered in surveys of rice production do not unequivocally show that mechanization would lead to labor displacement. (See review of surveys done in this area in [11, pp. 525-531]).

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The increase in labor absorption in the agricultural sector communication of the communication of the control of may be explained not only by the continuous increase in agriculthe second by factor of the block of careful of bourseasa adortural productivity based on activities which make use of more in continue in a committee your confidence labor inputs but also a likely effect of the agrarian reform which of the property by the property of 4-14-6 has been given additional impetus from the late 1960's through the 1970's. It is very possible that farmers' income increased as a result of agrarian reform, specifically, former tenants who are now farm owners, i.e., amortizing owners. In a computation made by the ILO study (1974) for share tenants, their increase in income as represented by the improvement of the present value of their income stream is 84% (at 20% discount rate) [11, pp. 487-488]. This improvement in income is obtained through the lower payments to landowners during the period of amortization. There is also an expected change in the land-owners' income as a result of land reform. Both changes would imply a reduction in income inequality the Arabidsko askal a subgates of the 19 to be in the rural sector which in turn would likely have demand effects received to all broiser instance to the extent that these two groups have different demand functions, i.e., the landowners tend to purchase products which

Machare more urban based and likely to be more capital-intensive whereas tenant farmers demand products which are more rural based and more labor-intensive. Hence, land reform may be expected to improve employment. The increase in farm income will also encourage an increase in demand for rural based products which will to increase nonagricultural activities and employment. A study of labor absorption in nonagricultural activities in Nueva Ecija by Arthur Gibb (1972) cites the increase in demand for good and . . . 1. services with increase in farm income. New off-farm and nonfarm Language call access of the state of the contract of the contr day by each loc jobs reported by farm household members included work as tricycle MONTH OF THE CONTRACT OF THE STATE OF THE ST 3 10 10 10 10 15 337 and jeepney drivers, agricultural laborers, dressmakers, store-医水流体 医多头体 化化二基键 keepers, retailers and others [11, pp. 509-510].

# 4.2.2 Manufacturing Similar Property Control of the State of the Stat

opport to the Avian than the transfer of a self-filler

economy by the government's industrialization policy measures

after the Second World War. A review therefore of the policy

measures to pursue industrialization during this period would

explain to a great extent the development of the manufacturing

sector and that of other sectors of the economy. 6 As a result of

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upod Turulerova ar ar areas tet, at fined early at expade before the

The subsequent discussion draws heavily from J. Power and G. Sicat, The Philippines, Industrialization and Trade

Policies (part of a series on industry and trade in some developing countries), OECD, London: Oxford University Press, 1971.

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Second World War, a system of import and foreign exchange controls were initiated and made effective in 1950. These controls restricted the importation of consumer goods and provided for liberal importation of capital goods, intermediate goods and raw materials. The strategy of import-substitution by protecting the domestic market through highly priced competitive imports and relatively lower cost of domestic production as a result of cheap importation of imputs became the principal policy instrument to promote industrialization starting in the 1950's. As a result of that, manufacturing became a leading sector with output growing at an annual average of 12.3% from 1950-56. However, its growth started to taper off after 1956.

By the late 1950's, the domestic market was starting to impose a limitation on the expansion of the manufacturing sector. In addition there was a continuous dependence of the manufacturing sector on imports which strained the balance of payments. The foreign exchange earning primary sector was neglected by the government and discouraged by the overvalued foreign exchange rate. Since no further tightening of import controls on non-essentials was possible without affecting the output of manufacturing, the government decided to devalue and initiate a gradual decontrol program in 1960 which was finally completed in 1962. However, the manufacturing sector continued its import substitution development. It continued to perform badly in the 1960's with an

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output growth which averaged only 5% and this may be explained by the continuation of the same problem which beset the sector by the latter part of the 1950's. The former controls were placed by the highly protective Tariff Law of 1957 (which was further revised during the period 1961-65) with protective capabilities that approximate those of the exchange controls of the 1950's. Hence, it has a similar bias in favor of the manufacturing sector and capital intensity. The manufacturing sector became a lagging sector during this decade, unable to create backward integration and to develop exports. This together with the inflation resulting from the expansion of the money supply before the 1969 November election led to another foreign exchange crisis. The government decided to devalue in 1970 but once more without any substantial trade liberalization.

Another government industrialization policy is the use of tax incentives to encourage the growth of particular industries. Immediately after 1946, a law was passed exempting new and necessary industries from the payment of internal revenue taxes during the first four years of organization. This was followed by a more generous tax exemption law in 1953, then by the Basic Industries Act in 1961. The most comprehensive law encouraging particular industries (the Investment Incentives Act) was passed in 1967. It granted new tax incentives to industries that qualified as "pioneer" and/or "preferred." For the first time also, the same law explicitly granted incentives for exports which no previous tax incentive legislation did.

political representatives the experience of the ex-

The Board of Investment (BOI) was created to implement - this Investment Incentives Act: BOI's role of establishing and priorities for industries that export, which are laboraintensive, which use a high-proportion of domestic materials, and (by the ... 1970's) are regionally dispersed in effect counter the relative diffactor/price distortion resulting from the tariff system and the wimport controls. The performance of the BOI in successfully over accomplishing these objectives is limited by the extent of the contradictions among these different goals. The encouragement of labor-intensive industries is only one of its goals. In a study by Noriega [15, pp. 114-125] which assesses the performance of the investment priority plans for the first five years of their existence based on a set of investment criteria, such as, commercial profitability, backward linkage effect, forward linkage and the move of the own days and the first of the second section of the second effect, balance of payments/capital effect and labor intensity, it the delication factor to exceed the following the specific relation of the const. was found out that the industries included or registered with the practiced, agency of the engineering a fateration of the product of the contract of the contra BOI had an average labor intensity (defined as labor-output ratio) and the first and a green world of the control of the first that the control of the first of 1.1 or greater than unity ratio performance. In the case of and on the wife makes the contract of the first of the contract of the contract of the export priority plans for the first three years, the average Charley Signs Septiments labor intensity for all industries came to 1.13. If we were to compare this with the labor intensity in Table 21, we would consider the BOI registered firms with labor-output ratios of 1 this ratio may not be high enough if one really wants to put priority on labor absorption. The pure decide discussed, wirely, it is it and exclange concerns the iting of the

estimated the total fiscal incentives benefits accruing to industries registered with the BOI [11, pp. 611-621]. It was found out that the relatively capital-intensive industries were getting the major poriton of total benefits and the industries registered with the BOI were concentrated in the relatively large firms. The bias toward large firms indicates a bias toward capital intensity and inefficiency in capital use as indicated by the strong positive correlation between size and capital intensity (as measured by the ratio of fixed assets to employment), and a strong negative correlation between capital intensity and capital productivity [11, p. 616]. Based on these findings, the BOI has not been successful in encouraging labor-intensive industries.

There was an attempt to stimulate employment by permitting the deduction (not to exceed 25% of export revenue) of the cost of direct labor and local raw materials utilized in the manufacture of export products from taxable income. However, there has been no study of the extent to which this particular incentive has encouraged employment.

It seems that government attempts to industrialize up to the present continue to distort relative factor prices in favor of capital-using technology. So far, three main policy instruments adopted by the government to pursue industrialization has been discussed, namely, import and exchange controls, tariffs, and tax manufacturing which depended on foreign exchange to finance its importation of capital goods, semi-processed parts and raw materials and did not enable the sector to continue its fast growth beyond the 1950's. The sources of foreign exchange earnings were traditional exports whose development were not given attention until the late 1960's. Hence, without backward integration within the manufacturing sector and significant export of manufactured goods, any stagnation in the traditional exports would slow down manufacturing growth. On the whole, these policy instruments favored capital-intensive techniques over labor intensive ones. In addition, the relative factor prices were further distorted by preferential lending practices of government financial institutions favoring particular industries.

Bautista examined the pattern of employment in the manufacturing sector by establishment size for two post war subperiods when contrasting economic were adopted, i.e., before decontrol in 1962 and post control period up to 1966 [1]. He found a wide variation of employment generation or loss among manufacturing industries by establishment size. During these two periods there was evidence that the composition of organized manufacturing (those establishments with at least 5 employees or more) shifted towards less labor-using industries and large establishments whose labor absorptive capacity had decreased. On the other hand, the employment generation in small scale

manufacturing increased dramatically with the lifting of controls as a result of the higher rate of output growth and technical change towards greater labor use. Therefore, although it was earlier said that there was basically no change in the protective policy of the government towards import substitution, both during the period of import and foreign exchange controls and after decontrol, we cannot unequivocally say that the same labor absorption occurred in manufacturing employment during these two periods. Bautista found a slight decrease of labor absorption in the contest organized manufacturing sector as a result of the greater share of large establishment. Whatever employment growth gained by the growth of small-scale manufacturing industries during the period of tariff controls must have been offset by the encouragement of large scale manufacturing establishments as a result of the BOI incentives. For the late of the control of the second

#### 4.2.3 Construction

Construction is a sector with very good possibilities for labor absorption in addition to its high backward linkage effect.

Construction activity fluctuated during the period under study.

The growth rate of its value-added was increasing during the first

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half of the 1960's, almost became constant in the latter half then started to pick up again in the 1970's mainly due to government econstruction [11, pp. 191-193]. Construction activity is highly seasonal. It is a sector where a high proportion of low skill manpower can be employed. In 1971, 89% of the industry's total employment were manual -workers and craftsmen [11, p. 194]. In addition, there is a high percentage of wage and salary workers in construction. Construction has increasingly become more capitalintensive and import intensive. The investment in durable equipment grew annually by 25% in the 1960's (at current prices), whereas, the growth of construction output amounted to only 9% while that of labor inputs was 6%.[11, pp. 196-197]. The increase April and the participation of the state of of capital intensity in construction may have been caused not only Jagoran Britain by changes in the price of common laborers, relative to imported orban tanah garawi kalandara asabataan capital equipment but also by the compositional changes in the -mar the Tuling of the first North output of the government infrastructure program with the increase ragoo a litera BARRON CONTRACTOR OF CHOICE in the relative importance of expenditures on highways and tele-Best ing the exporting fraction morning in Figure 1 communications which are relatively less labor-intensive The state of the s Leithebiese for Continuital [11, p. 197]. This is a feet of minimum reconstruction of an of the har

There has been an attempt on the part of the government to increase the labor absorption of government construction. For example, a committee was created in 1972 to study labor-intensive construction methods. However, there are some factors which may prevent the use of labor-intensive techniques in government construction such as the attitudes of engineers and consultants

whose training predisposes them to use more capital-intensive techniques, the attitudes of external donors who express concern over the productivity of their investment by specifying the use of most modern methods which tend to be more import and capital-intensive, the lack of data to evaluate the comparative advantages of different factor intensity in construction, and, lastly, managerial inefficiencies in the construction projects of the government [11, pp. 202-203].

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There was a rapid increase in government's share in the construction industry. In the first half of the 1960's, residential and nonresidential construction grew at an annual autor adea el la selación de acado la 15 growth rate of 21.7% and 18.9%, respectively, as compared to 5.1%  $\sqrt{2}(2^{n}) = \mathbb{I}_{n \in \mathbb{N}_{+}}$ radaries, el vie apelà la surp for government. This trend was reversed in the second half of the in a grand and the and the second ... decade when government construction grew at an average annual rate of 21.1% as compared to 4.2% and 1.2% for residential and nonresidential construction. When the annual growth rate is averaged for the whole decade of the 1960's, government construction had Tem or fibbs white shere. A the highest growth rate of 14.0% followed by 12.0% for residential and 8.5% for the nonresidential construction [7, Table 8, p. 11].

To what extent has construction played a similar role as services or the tertiary sector? As a depository of low productevization from both the rural and the urban sectors, we will expect two types of workers in construction: temporary workers who use the construction job as a stepping stone to more permanent jobs

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in other sectors and seasonal workers who find employment in construction during the agricultural slack period. Preliminary results of a study by Stretton on employment in the building industry in Greater Manila are still not conclusive on the dominant role of the industry [18]. However, initial findings show the industry to be both a depository of migrants attracted to the city who are unable to find jobs in other sectors and also an industry which attracts migrants to come to the city for higher and more secure employment than those found in nonurban areas.

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## 4.3 Other Factors Influencing Labor Absorption Company Technology

The general state of technology would also explain partly the labor absorption in the economy during the period under study. Being a latecomer in the development scene is both an advantage and a disadvantage. It is an advantage because the country has a wider range of technology to choose from which it did not have to develop on its own. However, this turns into a disadvantage to the extent that the societies which developed the available range of technology are of factor proportions which are unlike that of the Philippines. Most of the presently developed countries have scarce labor and, therefore, tend to develop capital-using technology. As a result, the Philippines has to choose among relatively capital-intensive types of technology.

The choice is further limited by the Philippine colonial experience. The colonial mentality of the people resulting from this experience is further reinforced by the training of local technicians in developed countries which has made them more inclined to employ these countries' technology. In addition, the continuation of numerous aid and trade agreements tend to stipulate the use of technology available in the donor countries, which are mostly developed countries. All these are aggravated by the lack of encouragement of the development of indigenous technology which would suit the factor proportions in the Philippines. even when it is possible to use a relatively less capitalintensive technique, there is the consideration of higher cost and inconvenience of maintaining an older technology though it might give an additional benefit in terms of higher labor absorption. Often times too, subsidiaries of multinational corporations specify conditions concerning production techniques to be used.

The rigidity of production coefficients may not only be contrained by technology but also the availability of other factor inputs in addition to capital. It is possible that there are also scarcities of some manpower skills which would therefore constrain the choice of techniques.

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The level and composition of demand in the economy as defined by the distribution of income would also explain labor absorption to some extent. Certain income levels would tend to consume particular commodities which tend to be produced by relatively capital-intensive techniques rather than laborintensive techniques and vice versa for the commodities mostly ngagig i Ça consumed by other income levels. An income distribution which results in a low demand for products which are produced by Her light of the state by the best bearing for relatively labor-intensive techniques would partly prevent growth roitainni or ytt... o to the original of the origi in of approximation of labor absorption in the economy. One of the reasons for the cover there of the Labor (are and a removal transfer the transfer for the advocating a more equitable distribution of income is to increase १ वन्त्रील अवशास्त्रकार विद्वारी । अव er bejour drober ek selwe income of the lower income classes, thereby increasing their other alcorato demand for wage goods and services which tend to be produced by a Huntin 540 small and medium scale establishments using relatively labor-Sparre September Property (\*) intensive techniques. The Philippines is characterized by a ow warshirk chad Type relatively unequal distribution of income as described by an average Gini Ratio of .50 in the decade of the 1960's [13, Table 1, p. 10]. (大) 4000 (A12) (A12) (大) (A13) (A13) (A13) The second second

Other distortions in relative factor prices may come from institutional efforts of both the government and labor unions to increase the welfare of labor. The Philippines has a series of labor legislation which may be interpreted as raising the cost of labor to employers. Examples are the minimum wage law (1951, 1963 and 1970), the Government Service Insurance System Act (1951), the Woman and Child Labor Law (1952), Industrial Peace Act (1953),

Blue Sunday Law (1953), Social Security Act (1954) and many others.

After the imposition of martial law in 1972, all labor legislation has since been incorporated in the Labor Code.

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The effect of this labor legislation on relative factor Control of the Market Control of the 一直,这种**的**是一个是不是一个更多 prices depends on the actual enforcement of the various rulings Notice of the control of the second of the second which is a function of the vigilance of law enforcement agencies and diselve the a texted of a consideration of the spainting of a second whether most members of the labor force benefit from this legislation or September 2 are to the transfer of the body and the contract of the contrac and would not tolerate noncompliance on the part of employers. It 植物树脂 生物,所以此,于原则,此,于原则,以一类形成,一个人也一致心,以一大,是一大人类性 is of interest to note that most of these laws apply to conditions Experience of the second section of of employment and therefore do not cover members of the labor force esentali in el el sesti en azusa desa el ese who are not employed. Given the high unemployment rate, the unon with anti-weight of the experience was employed individuals who have no other alternative source of income Villeton and the second control of the second of the secon would consider landing a job the most crucial thing and the condi- mdsf is twice to a grown or make a part of the coloring of the tions of employment only of secondary concern. It has been known who them or all the arts that many individuals who are paid less than the minimum wage William Commence to the contract of consent to sign vouchers attesting to their receiving the minimum A 1981 Carlot 1986 Carlot and Argentina Age wage. The need for government fiat to establish a minimum wage implies the absence of economic conditions sufficient to insure that members of the labor force who find employment at least earn enoughato maintain an acceptable level of subsistence. The high unemployment and underemployment which make for a loose labor market force the members of the labor force to accept jobs and the requiring less skills them what they have and to take jobs for the less pay than the minimum wage rate. Given the loose labor

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market and the shortage of personnel and funds of the Department of Labor which is responsible for the enforcement of labor legislation, 8 a distortion of relative factor prices discouraging labor-intensive techniques resulting from this legislation is doubtful.

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However, it is likely for employers to consider the increase in labor cost resulting from this labor legislation before they undertake production or before they choose the technique to use. Therefore, these laws do bias the choice of technology away from labor-intensive production techniques. Also, labor unions are . Minimiteriori likely agents for enforcing labor legislation in addition to the na canvingsami kan panggala nganga Department of Labor. A militant labor union in an establishment and book that here where he will be a like to be a suppose that may effectively pressure the employer to comply with at least the istiga de mover di peta debaix a par ed a d labor laws. But the effectivity of labor unions in this role is limited by the extent of labor unionism among the employed which Sint of an interpret standard total per order part in the second contract. was estimated by the Department of Labor officials to be around Virginially and pays not reposite to but the most business on an 10% of the labor force or about 1.2 million union members in 1971 e Procession in America, et l'Organia applica (1900) delle ellege l'Espesse [17, p. 54]. The regulation of labor unions' right to strike Control from the control of the control of the damps of the control of the contro after the imposition of martial law further weakens labor's efformation of reality of a state of the first or and the residence bargaining power.

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<sup>&</sup>lt;sup>8</sup>For an appraisal of the Department of Labor's effectivity in the enforcement of labor legislation, see U.S. Department of Labor, Labor Law and Practice in the Philippines, 1972, pp. 36-38.

## 5 TSUMMARY COLOR TO SERVED BY CONTRACT OF STREET BY A BY A SERVED

The survey data show that between 1956-73, the labor force increased on the average at 2.6% and employment at 3.1% per year.

The unemployed averaged 7.4% of the labor force but underemployment and the relative share of unpaid family workers among the employed continued to be large. There was a substantial increase in the services sector employment, especially in relation to sectoral income, which suggests that the services or tertiary sector was becoming the depository of disguised unemployment.

the scale rold of the order of a disputer of selection of selections Despite the extensive assistance given to industrialization ល់ក្រុម ក្រុមិធ្វីទី២០ ស៊ី ទី និងការ ខែទុស ៤០ មេឃី ១២០ ក្រុមិស្ស ។ ការសក់សូន ខ្លួមសំខុ via import and exchange controls, tariffs, tax incentives, and mas likeli filologis ime i li ili salasi iside si kebesataran bili ili beberata mengeb banking policies, employment generation in industry was disappointand the extra terms of the contract of the con ing. This was caused by the policies' bias in favor of capital-इंड क्रिकेट के बेर्ने के कार्य के कार्य के कार्य के अवस्थित क्षेत्र के अवस्थित के अवस्था है और कार्य intensive industries, capital-intensive techniques, and in general, and it together adoption when were controlled the section of the in promoting inefficiencies and low capacity operations. Other then be not of all minimizers or in the contenting of the life production of reasons for the insufficient labor absorption were the highly 1971 as freedom a law well....... Comberned to be seen a second of the s unequal income distribution which limited the growth of aggregate are the set that it is not because it is not at the percent of the ingress and demand and the size of the market for many industrial products, The art substance and are used to be taken to politically both motive colonial mentality, and labor legislation tending to raise the artina y salah da katabi cost of labor.

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If the material welfare of labor prods employment generation by industrialization, with all the more reason does it motivate the concern for just and beneficial labor legislation. Minimum wage and similar measures tend admittedly to discourage labor absorption; however, since they also increase the worker's remuneration from employment, such measures should not be subject to policy manipulation for increasing employment.

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