# DISPERSION OF PRE-TAX BASIC PAY RATES 

IN MALTA

by E.P. Delia*

This paper records the dispersion pattern of the basic pay rates of wage and salary earners in Malta in census years 1957 and 1967. Studies of labour's aggregate remuneration rates i.e. basic rates plus bonuses, overtime payments and non-financial fringe benefits, cannot be carried out; statistical data are inadequate in quality and in quantity. For the same reason it is not feasible to analyse the personal or the household income dispersion within a set time period or over time i.e. to graph the time profile of personal or household incomes.

The compilation of data about income and weal th composition and ownership has only recently been initiated in Malta; this late start in collecting such statistical information, crucial for socioeconomic planning, seems conmon to many developing countries. It is hoped, therefore, that this paper's modest contribution would be of interest to researchers engaged in worldwide comparative studies of labour 'income', however defined, and also to those 'development economists' active in constructing socio-politicoeconomic indices for evaluating the existence or otherwise, of a trade-off between distribution and productivity policy targets in less developed countries.

The dispersion 'basic rate' patterns of different work categories are introduced through a series of coefficients expressing the relation between centile values and the median i.e., $\mathrm{Pi} / \mathrm{P}_{50}$. Both the percentile and the median values refer to a particular sub-group. ${ }^{1}$ The structural economic composition of the Maltese economy in
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${ }^{1}$ See (2). An alternative method expresses the same relationship in terms of the median of the universe, i.e. $\mathrm{Pi}^{\mathrm{s}} / \mathrm{P}_{50}{ }^{u}$ where
$\mathrm{Pi}^{\mathrm{S}}=$ percentile value in a sub-group
$P_{50}{ }^{u}=$ median of the universe.
This method is selected after conflicting results were obtained from the estimated values of the Gini coefficient, log variance and the coefficient of variation. Besides a series conveys more information than a summary statistic.
the two census years is first briefly outlined; an appreciation of the changes in the underlying socio-economic conditions should contribute towards a proper evaluation of the observed basic rates pattern.

## Malta's Economic Sectors: 1957, 1967

Post-war Malta's economy is characterised by the relatively high provision of tertiary services, mainly in the form of facilities to Britain's naval and military forces. In the fifties local employment is, in the greater part, directly provided by the U.K. Defence Establishments, by the Malta Government's (public) sector, and by a commercial sector catering for the imports of consumables for the natives and the foreign troops and their families stationed in the island. The manufacturing sector and tourism are conspicuous by their absence; consequently, also restricted was the 'production-profit motive'. ${ }^{2}$

Britain's decision to gradually dismantle its bases in Malta created the urgency to restructure Malta's economic sectors with the intent of gearing them to production for world-wide consumers' markets. Diversification of economic activity, spelled out in a series of quinquennial development plans starting in 1959, was to be attained through the extension and the improvement of shiprepair facilities, the setting-up of eight manufacturing industries. tourism and, to a minor extent, the reorganisation of the agricultural sector.

The census years under study, therefore, represent two points in time each one within a different type of economy; 1957 immediately precedes while 1967 reflects the partial effects emerging out of a transformation process leading to 'market-oriented activities'. ${ }^{3}$
${ }^{2}$ It is important to distinguish between 'Production Profit' and 'Commer cial Profit' (Importer's profit). Commercial profit is based primarily on commissions representing a percentage of total sales per time period; this 'service' income would reflect the tastes of local consumers for foreign-produced goods and services and arises out of the marketing stage in the production-sales process. Production profit, on the other hand, arises out of the initial stages in the process; it is influenced both by the import cost of raw material and transport and by the export cost of the finished product to the distributing oudets, if the good is sold abroad. ${ }^{3}$ The tem refers to conditions where supply of commodities arises to meet actual or potential consumers' demand. It is contrasted to a 'mili-tary-ori ented' economy where decisions regarding quantities and prices reflect demand arising out of political (strategic) expediency rather than consumer-market conditions.

A static impression of economic activity in the two years could be formed by analysing the composition of the active labour force and the relative sectoral contribution to Gross National Product ${ }^{4}$ (tables 1 and 2). These data are assumed to reflect the gradual

Table 1
working population of the maltese islands
1957, 1967

| EMPLOYMENT SECTOR |  | $\begin{gathered} 1957 \\ \% \text { OF LABOUR } \\ \text { FORCE } \end{gathered}$ | 1967 |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | \% of labour FORCE |
| Agriculture \& Fishing | 8410 | 9.50 | 6950 | 7.04 |
| Construction \& Quarrying | 5420 | 6.13 | 10320 | 10.46* |
| Manufacturing <br> Industries | 8670 | 9.80 | 19660 | 19.92 |
| Electricity and Gas | 100 | 0.11 | 790 | 0.80 |
| Commerce | 11120 | 12.57 | 12790 | 12.94 |
| Transport, Storage \& Communication. | 3780 | 4.28 | 4030 | 4.08 |
| Business, Recreational and Personal Services | 7560 | 8.55 | 10430 | 10.55 |
| Government Services | 16970 | 19.14 | 18580 | 18.44 |
| U.K. Defence Departments (Civil) | 19560 | 22.84 | 7350 | 7.45 |
| (H.M. Forces) | 3550 | 3.19 | 2420 | 2.45 |
| Total Gainfully Occupied | 85140 |  | 93310 |  |
| Unemployed | 3284 | 3.71 | 5387 | 5.46 |
| Labour Force | 88424 |  | 98697 |  |

Source: Department of Labour
*The increase in labour engaged in construction and quarrying indicates the initial effects of a real-estate boom the Maltese Islands went through in che years 1966-1969.
${ }^{4}$ Gross National Product is preferred to Gross Domestic Product in order to account for the favourable net transfer payments item which cannot be considered negligible in the Malta case.

Table 2
SHARES IN GROSS NATIONAL PRODUCT 1957, 1967
INCOME BEFORE TAX 19571967
£M

MILLION \% OF GNP | £M |
| :---: |
| THOUSAND | \% OF GNP

Persons
Income from Employment:
(a) U.K. Service Departments

| 8.6 | 22.57 | 4937 | 8.20 |
| :--- | :--- | :--- | :--- |

(b) Private Industry:

| Agriculture \& Fisheries | 0.2 | 0.52 | 221 | 0.37 |
| :--- | :--- | :--- | ---: | ---: |
| Construction | 1.6 | 4.19 | 1954 | 3.25 |
| Manufacturing | 1.3 | 3.41 | 6697 | 11.12 |
| Transport | 0.9 | 2.36 | 1579 | 2.62 |
| Wholesale \& Retail | 1.4 | 3.67 | 1280 | 2.13 |
| Oher Services | 0.3 | 0.79 | 2531 | 4.20 |

(c) Government:

| Construction | 1.3 | 3.41 | 933 | 1.55 |
| :--- | :--- | :--- | ---: | ---: |
| Government Enter- | 0.8 | 2.89 | 1554 | 2.58 |
| prises | 3.3 | 8.66 | 7603 | 12.63 |
| General Government |  |  |  |  |

(d) Employers' Contribution to Social Security
$0.2 \quad 0.52 \quad 659$
1.09

Income from Self Employment
11.3
29.5215793
26.23

Rents, Interests and
Dividends
$\begin{array}{llll}5.4 & 14.17 & 7335 & 12.18\end{array}$
Current Grants from

| Public Authorities | 1.2 | 3.15 | - |
| :--- | :--- | :--- | :--- | :--- |

Companies:
Undistributed Income of
Companies
$0.5 \quad 1.31 \quad 3684$
6.12

Public Authorities:
Profits of Government
$\begin{array}{lllll}\text { Enterprises } & 0 & 0 & 720 & 1.19\end{array}$

| Rents Received | 0.2 | 0.52 | 320 | 0.53 |
| :--- | :--- | :--- | :--- | :--- |

$\begin{array}{lllll}\text { Interests and Dividends } & 0.8 & 2.09 & 2405 & 3.99\end{array}$
Less Current grants to
Persons $-1.2 \quad-3.15$ -

## Source: Central Office of Statistics

underlying changes in the social outlook of the working and entrepreneurial labour categories, which, complemented by imported know-how, are essential to compete in international commodity markets; in the past, the commercial importer had to consider the limited domestic market and to establish a sales strategy suited to local demand conditions. Such an insulated approach to trade, together with labour's attitude of disregarding the time factor in the production of a service - common in the U.K. Defence Establishments in peace time - are expected to change as the sectoral structure of the economy is altered.

Note the sharp decline in employment and income contributed by the U.K. Defence Establishments: from an aggregate $26.03 \%$ in 1957 to $9.9 \%$ in 1967, and from a direct contribution of $22.6 \%$ to $8.2 \%$ to GNP. The respective relative share of the manufacturing outlets demonstrates an opposite pattern: $9.8 \%$ to $19.92 \%$ in employment and $3.41 \%$ to $11.12 \%$ in share to GNP.

Over the period emigration was unavoidable; it proved to be a short-term stabilising factor in the labour market. Table 3 presents data for migration movements for the two years and comparison with unemployment information is introduced by estimating the 'emigration , unemployment equivalent' obtained by accounting for emigrants, male and female, aged fifteen to sixty in terms of labour force.

Table 3
MIGRATION FLOW 1957, 1967
YEAR EMIGRATION RETURNING MIGRANTS NET \% OF LABOUR FORCE*

| 1957 | 3585 | 1671 | 1914 | 2.76 |
| :--- | ---: | ---: | ---: | :--- |
| 1967 | 3971 | 36 | 3935 | 2.97 |

[^0]The percentile values are estimated from smooth S-shaped functions drawn to fit the frequency data available; the results would thus be comparable to various studies carried out for other countries. ${ }^{5}$ Data are obtained from the 'Report on Economic Activities - Malta Census 1967' (Central Office of Statistics, Malta 1971). The report refers to respondents indicating their 'wages and salaries' earned in census week; these 'earnings' are interpreted as the basic pay rates of respondents. Certain activities, being seasonal (e.g. farm-hands), would not imply a corresponding annual remuneration rate. This aspect demands emphasis, for generally studies about earnings distribution are restricted to those employees continuously engaged full time for an arbitrarily stipulated weekly amount of time for a specified period, say, a year. ${ }^{6}$ Although it could be argued that most of the reported returns apply to a regular activity i.e. on an annual continuum, yet in some cases, mainly female workers, the earnings could represent a periodic financially-remunerated activity. ${ }^{7}$

Frequency distribution data for 1957 and 1967 are available on a five-category basis; information available is therefore some what 'risky' to utilise for interpolating the degree of dispersion. Moreover, the class-intervals are uneven and the top-most class is open-ended. ${ }^{8}$ The highest income category is bounded; the classmark suggested, though not directly utilised, would produce a Pareto alpha equal to 7. Fortunately, an additional break-up of wage-salary rates is available for 1967 comprising nine income classes and a different sectoral break-up. The information obtained from this second table was used as a guide and in part projected to estimate intra-class dispersion within the five-category 1957, 1967 frequency distribution classification.
${ }^{5}$ Compared to results obtained from a continual, linear $S$-shaped curve, the interpolated results in the tables below tend to underestimate the values of the bighest percentiles and overestimate the values of the lowest percentile, the diversion depending upon the shape of the smooth cubic function.
${ }^{6}$ See (1).
${ }^{7}$ Such cases are mainly restricted to the agricultural sector where housewives assist their husbands, or hire their services for a few days, during short periods of the year, say, sowing or harvest time. Occasional work could also be assumed to prevail in the 'personal service' sector.
${ }^{8}$ The 5 -class classification of 'earnings' is as follows:
Under £M3; £M3-4; £M4-10; £M10-15; £M15 and over, and additional 9 -class classification, available for 1967, includes:
£МО-3; $3-4 ; 4-6 ; 6-8 ; 8-10 ; 10-15 ; 15-20 ; 20-30 ; 30$ and over.
Note: (i) $\mathrm{P}_{\mathrm{i}}=\mathrm{Pi}_{\mathrm{i}} / \mathrm{P}_{50} . \mathrm{P}_{5}$ above corresponds to Michal's $\mathrm{P}_{95}$ in (2).
(ii) There are 5 income classes in every work category.
Source: REA, Table 5D.
DISPERSION OF PRE-TAX BASIC PAY RATES OF MALE AND FEMALE WAGE AND SALARY EARNERS, 1957

| CA TEGORY | males |  |  |  |  |  |  |  | $\begin{gathered} \text { MEDIAN } \\ (£ \mathrm{M}) \end{gathered}$ | NUMBER OF <br> EMPLOYEES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{P}_{5}$ | $\mathrm{P}_{10}$ | $\mathrm{P}_{25}$ | $\mathrm{P}_{75}$ | $\mathrm{P}_{90}$ | $\mathrm{P}_{95}$ | $\mathrm{P}_{98}$ | $\mathrm{P}_{99}$ |  |  |
| 1. All occupations | . 3333 | . 5088 | . 7544 | 1.2281 | 1.3333 | 1.3860 | 1.5439 | 1.5140 | 7.125 | 48,615 |
| 2. Professional, Technical or |  |  |  |  |  |  |  |  |  |  |
| Related | . 4624 | . 5835 | . 7818 | 1.1818 | 1.4909 | 1.6970 | 1.9700 | 2.4848 | 8.25 | 2,702 |
| 3. Administrative, Executive and Managerial | .4143 | . 5286 | . 7371 | 1.357 | 1.9286 | 2.557 | 3.486 | 3.9143 | 8.75 | 1,101 |
| 4. Clerical and Sales | .3793 | . 5136 | . 7562 | 1.2125 | 1.3136 | 1.4820 | 1.8356 | 1.9198 | 7.423 | 7,355 |
| 5. Farming and Fishing | . 2207 | . 4089 | . 7177 | 1.3765 | 1.647 | 1.7529 | 1.8118 | 1.8470 | 5.313 | 549 |
| 6. Quarrying and Mining | . 5818 | . 6433 | . 7818 | 1.218 | 1.3455 | 1.3909 | 1.4273 | 1.4364 | 6.875 | 993 |
| 7. Transport | . 5370 | .6196 | . 7678 | 1.2593 | 1.3889 | 1.4444 | 1.5556 | 1.7037 | 6.75 | 3,834 |
| 8. Crafts, Other Industrial and Construction | . 2736 | . 4713 | . 7279 | 1.2547 | 1.4057 | 1.4717 | 1.4906 | 1.4943 | 6.625 | 25,853 |
| 9. Public and Personal | . 3208 | . 5283 | . 7279 | 1.2547 | 1.4993 | 1.4717 | 1.5279 | 1.698 | 6.625 | 6,228 |
|  |  |  |  |  | FEMALE |  |  |  |  |  |
| 1. All occupations | . 4444 | . 5600 | . 8889 | 2.2767 | 3.3333 | 3.778 | 4.1656 | 4.2767 | 2.25 | 9,928 |
| 2. Professional, Technical or Related | .3118 | . 6237 | . 7936 | 1.258 | 1.4834 | 1.6344 | 1.7088 | 1.8925 | 5.813 | 2,228 |
| 3. Administrative, Executive and Managerial | - | - | - | - | - | $-$ | - | - | - | , |
| 4. Clerical and Sales | . 2623 | . 3934 | . 6066 | 1.5738 | 2.1312 | 2.3607 | 2.5246 | 2.6053 | 3.813 | 1,686 |
| 5. Farming and Fishing |  |  |  |  |  |  |  |  | 3.813 | , |
| 6. Quarrying and Mining |  |  |  |  |  |  |  |  | - | - |
| 7. Transport |  |  |  |  |  |  |  |  | - | - |
| 8. Crafts, Other Industrial and |  |  |  |  |  |  |  |  |  |  |
| Construction | . 4444 | . 5000 | . 8889 | 1.3333 | 1.8819 | 2.8056 | 3.778 | 4.1111 | 2.25 | 1,216 |
| 9. Public and Personal | . 4444 | . 5000 | . 8889 | 1.3333 | 2.1389 | 3.0000 | 3.8889 | 4.2222 | 2.25 | 4,721 |

Note: See notes (i) and (ii) to Table 4 above.
DISPERSION OF PRE-TAX BASIC PAY RATES OF MALE AND FEMAL.E WAGE AND SALARY EARNERS, 1967

| CATE GORX | males |  |  |  |  |  |  |  | $\begin{aligned} & \text { MEDIAN } \\ & \left(\text { £M }^{2}\right) \end{aligned}$ | UMBER OF mployees |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{P}_{5}$ | $P_{10}$ | $\mathrm{P}_{25}$ | $\mathrm{P}_{75}$ | $\mathrm{P}_{70}$ | $\mathrm{P}_{93}$ | $P_{98}$ | $\mathrm{P}_{99}$ |  |  |
| 1. All occupations | . 3958 | . 5347 | . 8472 | 1.0972 | 1.625 | 1.9028 | 2.4444 | 2.5833 | 9.00 | 55407 |
| 2. Professional, Technical or |  |  |  |  |  |  |  |  |  |  |
| Related | . 4811 | . 6138 | . 8197 | 1.4709 | 2.2011 | 2.5820 | 2.8783 | 3.0265 | 11.813 | 4156 |
| 3. Administrative, Executive and Managerial | . 3317 | . 4390 | . 6777 | 1.6293 | 2.2049 | 2.556 | 2.8098 | 2.9268 | 12.813 | 1666 |
| 4. Clerical and Sales | . 4487 | . 5962 | . 8205 | 1.1410 | 1.5897 | 2.2056 | 2.5385 | 2.9487 | 9.75 | 7097 |
| 5. Farming and Fishing | . 3696 | . 5652 | . 8144 | 1.2609 | 1.5652 | 1.7217 | 2.826 | 3.2609 | 5.75 | 788 |
| 6. Quarrying and Mining | . 6417 | . 7667 | . 8167 | 1.156 | 1.2833 | 1.290 | 1.3243 | 1. 5000 | 7.50 | 566 |
| 7. Transport | . 5564 | . 6692 | . 8196 | 1.1203 | 1.4211 | 1.7143 | 2.2256 | 2.4662 | 8.313 | 6301 |
| 8. Crafts, Other Industrial and Construction | . 4160 | . 5520 | . 7680 | 1.1520 | 1.344 | 1.616 | 1.888 | 2.144 | 7.813 | 23898 |
| 9. Public and Personal | . 4444 | . 5694 | . 7981 | 1.111 | 1.4583 | 1.7639 | 2.2222 | 2.528 | 9.00 | 10935 |
|  |  |  |  |  | femal |  |  |  |  |  |
| 1. All occupations | . 2778 | . 4028 | . 5833 | 1.639 | 2.222 | 2.6667 | 3.222 | 3.5000 | 4.50 | 15165 |
| 2. Professional, Technical or Related | . 2981 | . 4583 | . 7222 | 1.257 | 1.5481 | 1.6869 | 1.9444 | 2.1389 | 9.00 | 2978 |
| 3. Administrative, Executive and Managerial | . 2927 | . 4390 | . 6698 | 1.6342 | 2.390 | 3.415 | 4.9756 | 5.707 | 5.125 | 117 |
| 4. Clerical and Sales | . 3810 | . 5586 | . 7967 | 1.2857 | 1.6567 | 1.9643 | 2.4762 | 2.8095 | 5.25 | 3008 |
| 5. Farming and Fishing | . 4167 | . 6042 | . 8333 | 1.3333 | 2.250 | 2.833 | 3.500 | 4.00 | 3.00 | 125 |
| 6. Quarrying and Mining |  |  |  |  |  |  |  |  | - | -- |
| 7. Transport | . 4805 | . 7746 | . 8542 | 1.4149 | 1.7297 | 1.7085 | 2.9365 | 3.737 | 4.683 | 125 |
| 8. Crafts, Other Industrial and Construction |  |  | . 7500 | 1.2857 | 1.857 | 2.250 | 2.6071 | 2.7143 | 3.50 | 3046 |
| 9. Public and Personal | . 4167 | . 6042 | . 8333 | 1.500 | 2.333 | 2.771 | 3.167 | 3.2917 | 3.00 | 5804 |

DISPERSION OF PRE-TAX BASIC PAY RATES OF MALE AND FEMALE WAGE AND SALARY EARNERS 1967

| CATEGORY |  | MALES |  |  |  |  |  |  | $\begin{gathered} \text { MEDIAN } \\ \text { (£M) } \end{gathered}$ | NUMBER OF EMPLOYEES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. All Occupational Groups | .4531 | . 625 | . 8594 | 1.2416 | 1.7188 | 2.1875 | 3.4375 | 4.0625 | 8.00 | 55407 |
| 2. Professional, Technical or Related | . 500 | . 585 | . 760 | 1.350 | 1.840 | 2.420 | 2.74 | 2.86 | 12.50 | 4156 |
| 3. Administrative, Executive and Managerial | .3333 | . 4476 | .6191 | 1.6191 | 2.3048 | 2.6476 | 2.895 | 3.0667 | 13.125 | 1666 |
| 4. Clerical and Sales | . 5211 | . 6620 | . 8169 | 1.3662 | 1.7107 | 2.0282 | 2.6197 | 3.1268 | 8.875 | 7097 |
| 5. Farming and Fishing | .3148 | . 4907 | . 7778 | 1.148 | 1.3148 | 1.4344 | 2.5185 | 3.1482 | 6.75 | 788 |
| 6. Quarrying and Mining | . 6667 | . 7910 | . 8833 | 1.1167 | 1.2167 | 1.2667 | 1.3166 | 1.500 | 7.50 | 566 |
| 7. Transport and Communication | . 5873 | . 7216 | . 8486 | 1.1429 | 1.5079 | 1.8095 | 2.4127 | 3.1429 | 7.875 | 6301 |
| 8. Crafts | .3030 | . 4394 | . 7576 | 1.1364 | 1.3788 | 1.6364 | 2.000 | 3.8182 | 8.25 | 10693 |
| 9. Construction | . 5172 | . 6724 | . 8621 | 1.1034 | 1.2586 | 1.5517 | 2.1724 | 2.4483 | 7.25 | 8434 |
| 10. Other Industrial | . 3833 | . 550 | . 8167 | 1.15 | 1.450 | 1.8667 | 2.700 | 3.366 | 7.50 | 4771 |
| 11. Public and Personal | . 5714 | . 6917 | . 8271 | 1.187 | 1.5639 | 1.7744 | 2.2256 | 2.9474 | 8.313 | 10935 |
| FEMALES |  |  |  |  |  |  |  |  |  |  |
| 1. All Occupational Groups | . 5152 | . 6182 | . 7576 | 1.5152 | 2.3030 | 2.9697 | 3.4546 | 4.00 | 4.125 | 15165 |
| 2. Professional, Technical or Related | .300 | . 4357 | . 7286 | 1.3143 | 1.60 | 1.7286 | 2.1744 | 2.8386 | 8.75 | 2978 |
| 3. Administrative, Executive and Managerial | . 5102 | . 6205 | . 7722 | 1.8202 | 3.9713 | 4.8538 | 5.4538 | 7.1156 | 4.533 5.375 | 117 3008 |
| 4. Clerical and Sales | .3954 | . 5581 | . 7674 | 1.3023 | 1.5814 | 1.9070 | 2.3721 | 2.6977 | 5.375 | 3008 |
| 5. Farming and Fishing | . 6539 | . 7846 | . 9231 | 1.2308 | 1.5946 | 2.1539 | 3.2308 | 4.00 | 3.25 | 125 |
| 6. Quarrying and Mining |  |  |  |  |  |  |  |  | - | - |
| 7. Transport and Communication | . 4625 | . 725 | . 80 | 1.2 | 1.5225 | 1.85 | 2.65 | 3.50 | 5.00 | 125 |
| 8. Crafts | . 6071 | . 7286 | . 8571 | 1.2143 | 1.5 | 1.6786 | 2.0714 | 2.3571 | 3.50 | 1506 |
| 9. Construction |  |  |  |  |  |  |  |  | - 5 | - |
| 10. Ocher Industrial | . 4211 | . 7368 | . 7719 | 1.2281 | 1.5088 | 1.7544 | 2.3158 | 2.667 | 3.563 | 1495 |
| 11. Public and Personal | . 50 | . 875 | .7917 | 1.4167 | 1.9167 | 2.3333 | 2.8333 | 3.25 | 3.00 | 5804 |

[^1]The coefficients are self-explanatory. Comments are therefore limited to two observations which should be constantly remembered when data for the two years are compared.

First, the use of common nomenclature for the two censuses contributes to the amalgamation of distinct economic activities, the determining element distinguishing between activities being the motivation that gives rise to demand for labour services. For instance, the term 'executive' would refer in 1957 mainly to executive posts with the Malta Government or/and the British Defence Departments; in 1967, however, managerial posts with private manufacturing and tourist enterprises would be included. So whereas in 1957 executive posts and salaries were not geared to what is defined above as 'production profit', in 1967 some of the executive jobs and their related salaries correspond to output and sales. Job security, a fringe benefit for the Government executive, would not be automatically transferred to the private company executive.

In addition, conditions of work would differ as between the two sectors, Public and Private. So, while the nominal salary could be lower in Government employment, fringe benefits, apart from job guarantee, could favour the incumbent of a public post, for example, a non-contributory after-service pension scheme, or a less-mentally-strenuous type of work. The Private executive, however, could count upon other types of non-taxable benefits, say, bus-iness-cum-pleasure trips abroad. Knowledge of fringe benefits in a gradually transforming Maltese economy is becoming essential before a satisfactory evaluation of the net remuneration distribution could be attempted in the future. ${ }^{9}$

Secondly, data collected in the census suggest that the length of the working week was at the time aegatively correlated to the income bracket - che higher the saiary, the fewer the officially declared hours worked. ${ }^{10}$ It is observed that in the relative ab-
${ }^{9}$ Government intervention in industry, either to assist those firms in financial difficulties or to control the basic economic activities within the community, could influence overall wage and salary scale if financial remuneration schemes in Government controlled companies are set on the pattern of pay strucrure within the Government 'administration' sector. Such a pattern could be established in Malta within the next quinquennium.
${ }^{10}$ Vid. REA, Tables 4D and 4E. Hours per week, in 1967, varied from an aggregate (male and female) of 38.82 in the 'Community and Business Service' sector to 49.60 in 'Food Manufacturing'. Length of work week
sence of unionised labour, in the private manufacturing, service, and construction/quarrying activities in the census years, the hourly remuneration rates were not established prior to the hiring of labour services; rather what was determined was a weekly wage with hours of work differing among the production units. Following the introduction of a basic forty-hour week (a policy started in 1972 and gradually being introduced in the organised-labour sector) changes in job remuneration would automatically imply changes in hourly rates.

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[^2]
[^0]:    *Statistic is obtained by expressing the number of emigrants aged 15-60, males and females, as a percentage of the labour force. No adjustment is made to account for fact that, as a rule, at that time Maltese housewives did not undertake paid activities outside their homes, farmers' wives excepted. End of year data are used.

    Basic Pay-Rate Dispersion: 1957, 1967
    The series of coefficients applied has the merit of abstaining from the use of the mean values which are influenced by the relatively few frequencies at the topmost 'income' classes, distribution being positively skewed. The method also indicates whether two distribution curves intersect and the region of intersection.

[^1]:    Note: (i) There are 9 income classes in every work category.
    Source: R.E.A. Table SC.

[^2]:    for males varied from an average minimum 40.54 in the 'Community and Business Service' sector to 50.05 in 'Personal Services' sector and 50.17 in Manufacturing sector.

    It should be observed that the 'official hours of work' need not be the actual hours: for a manual worker the time spent on a job would represent the full time devoted for an activity for which he is paid - 'official' and 'actual' hours should be taken to be the same. But for an executive, more time could be devoted to solving or anticipating job problems than that indicated by the official work schedule. In this case, 'official' and 'actual' work effort would differ.

