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**Disaggregated Productivity Growth and Technological Progress in  
the interpretation of Spanish Economic Growth, 1958-1975**

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# **Disaggregated Productivity Growth and Technological Progress in the interpretation of Spanish Economic Growth, 1958-1975 \***

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## ***Abstract***

Spanish economic records in terms of GDP growth and convergence to European levels in the sixties, provide an excellent opportunity to look at a central question underlying in the interpretation of any process of economic growth. The relevance of industrial specific technological progress is confronted to a general and multifaceted productivity change coming from a variety of sectors and causes. This paper exploits sectoral growth accounting methodology in two different ways in order to answer this crucial question revisited recently by historiography with reference to British Industrial Revolution and to Information and Telecommunications Technologies. First, we calculate TFP growth following the Kendrick approach (1961) and using four *input-output* tables corresponding to 1958, 1962, 1970 and 1975 disaggregated at 25 productive branches. And Second, we examine the impact of electricity and electric machinery and equipment as a General Purpose Technology (GPT) in Spanish economic growth.

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## **1. Introduction**

One salient feature of the Spanish economic growth during the post-war period is that occurred in the absence of convergence to European levels until the end of the fifties but experienced a rapid catching-up since then. As a consequence, GDP per capita ran from 47% of the average of the french, german, british and italian level at 1950 to a 67% of that average in 1973<sup>1</sup>.

Spanish case seems to provide an opportunity to contrast that the catch-up was possible only when institutional conditions were favourable to technological inflows. While European countries had been experiencing a catching-up to the United States since early post-war recovery, Spain only could benefit from its relative technological backwardness after its shy but irreversible openness to Europe in 1959<sup>2</sup>.

In this sense, there are pioneering researches on the sources of Spanish economic growth during the sixties that indirectly attributed a prominent role to inflows of technological progress. But the growth process is too complex to settle on just one underlying cause of productivity growth. In this paper we make an attempt to explain the disaggregate pattern of TFP industrial growth. We try to capture that part of TFP progress linked to industrial specific technological progress and its spread to others sectors. But at the same time, to stand that productivity advance

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<sup>1</sup> Prados de la Escosura (2003).

<sup>2</sup> Before then Spain didn't take advantage of this backwardness. Catalán, J. (2003), pp. 151, analiza el potencial de crecimiento de la economía española, dado su nivel de atraso relativo en Europa, y estima que dado el punto de partida en 1949 le hubiera correspondido crecer a un 4,44% anual entre 1949-1959 frente al 3,77 al que creció.

spilled widely and unevenly across the economy and could proceed from different sources, not only from industrial specific technological change<sup>3</sup>.

The debate on British industrial ascendancy during the first half of the 19<sup>th</sup> century offers an excellent reference to look into the sectoral dynamic of economic growth. A substantial part of the literature on this topic has been discussing whether the whole span of modernizing sectors was narrow or broad. The traditional historiography sees Industrial Revolution as broadly based, while growth accounting approaches present mixed results. The calculations run from 46% of the transformation arising outside the “modernized sectors”<sup>4</sup>, to only 9,8% or 3,6%<sup>5</sup>. In this last interpretation play a crucial role technological change in pioneering sectors (localized in cotton, iron or both of them)<sup>6</sup>, and their interindustry linkages and spillovers effects. But these effects have been considered insufficient to explain the magnitude of the transformation because interindustry linkages were limited<sup>7</sup>. In a recent paper, Oxley and Greasley (2000), adopted an intermediate position, and consider that there were a small number of common trends driving industrialization and individual industries were influenced in a variety of ways by these technological shocks. Although there were important influences coming from iron and cotton, technological progress did not originate exclusively in these sectors.

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<sup>3</sup> Harberger (1998), considers that is *mind-set* to settle on just one underlying cause of total factor productivity growth. In this sense, he considers that modern endogenous growth models, in trying to endogenize the residual within a specified model did not represent very well the multifaceted nature of it.

<sup>4</sup> McCloskey (1981).

<sup>5</sup> Harley (1993).

<sup>6</sup> Crafts and Harley(1992), technological progress was localized in a few modern industries.

<sup>7</sup> O'Brien (1993).

In terms of Harberger<sup>8</sup> analogy between growth and a mushroom process, productivity growth tend to be highly concentrated in a relatively few industries, but these industries tend to shift from decade span to decade span. And even the sources of innovation may have been located in particular industries, TFP improvements spilled widely across the economy coming from a wide variety of sources.

Explaining the disaggregate pattern of Spanish industrial growth, we will provide evidence on the pervasiveness of productivity increases and, at the same time, we will stand out the importance of some specific industries. Those industries that embody technological progress and could spread it across the economy given the size of their interindustry transactions.

This paper uses growth-accounting in two different ways in order to provide evidence on both aspects: the pervasiveness of total factor productivity growth and at the same time, the impact of a specific technology, electricity, on Spanish economic growth. In the *second section* we use traditional growth accounting trying to capture the sectoral pattern of technological change through Total Factor Productivity (TFP). We calculate TFP growth following the Kendrick approach (1961). This approach consists on comparing output volume indexes with inputs volume indexes. For this purpose we have used a method based on the comparison of successive *input-output* tables (Pulido and Fontela(1991) and Courbis y Temple (1975)). We use four *input-output* tables corresponding to 1958, 1962, 1970 and 1975 disaggregated at 25 productive branches.

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<sup>8</sup> Harberger (1998).

In the *third section* we attempt to examine the impact of electricity and electric machinery and equipment as a General Purpose Technology (GPT) in Spanish economic growth<sup>9</sup>. The initial impact of a GPT on overall productivity is typically minimal and the realisation of its potential may take several decades. We consider that the sixties represent in Spain the top spread of electricity technologies across the economy. We use a variant of the growth accounting methodology developed by Oliner and Sichel (2000) for USA information technologies and recently employed by Crafts for steam in British Industrial Revolution and Crafts and Mills for the British climacteric. Following this variant of growth accounting, capital is divided in two types: capital linked to electricity (installed capacity in electrical industry and machinery and equipment stock) and other types of capital.

## **2. Industry Total Factor Productivity Growth, 1958-1975.**

Spanish economy expanded rapidly with TFP rising sharply since 1958 to 1975. *Table 1* shows annual cumulative rates of change of 3,43%, 4,20% and 2,82% during 1958-1962, 1962-1970 and 1970-1975 respectively. The increasing weight of machinery and equipment industry in GDP could draw a process lead by industrial specific technological change. It is essential, however, to disaggregate estimates of economic growth to the industry level to identify the sources driving aggregate trends.

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<sup>9</sup> A GPT can be defined as “a technology that initially has much scope for improvement and eventually comes to be widely used, to have many uses, and to have many Hicksian and technological complementarities” (Lipsey et al, 1998).

Productivity growth, the ability to produce more outputs from the same inputs, differs widely between industries. For the economy as a whole, negative productivity growth in one industry can offset positive productivity growth in another. As a result, aggregate production function can mask important differences between industries. For avoiding the limitations of an aggregate measure of productivity we decompose Spanish TFP growth by sectors for three successive periods, 1958-1962, 1962-1970 and 1970-1975. This enables us to isolate the underlying sources of productivity growth and provide a better understanding of the forces driving the general transformation.

*Table 1* reports the annual cumulative rates of growth of total factor productivity by industrial and services branches. These rates of variation of TFP are sensibly higher than those obtained in a previous work<sup>10</sup>. The new results are more consistent with output growth and similar to those obtained by other authors for a similar period. In this work annual TFP rate of growth is 4,2 per cent for the period 1962-1975, while Myro<sup>11</sup> and Suarez<sup>12</sup> obtained a rate of growth of 4,1 and 3,9 per cent respectively for 1964-1975.

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<sup>10</sup> Sanchis (2001) carried out a similar application for sectoral TFP growth, using a "dual approach", in which variations in TFP were obtained from changes in goods prices with relation to factor prices, while output and inputs quantities were considered fixed at a base year. The calculations presented in this work have been obtained through the "primal approach", in which output and inputs prices stay constant along the whole period, while changes in output and input quantities are computed. In theory, these two approaches should give similar results under the assumptions of perfectly competitive markets of goods and factors. However, markets are not perfectly competitive and the changes in prices don't use to pick up overall productivity increases. Therefore the "dual approach" tends to undervalue productivity growth in front of the computation of the "primal approach". In this work we follow the primal approach.

<sup>11</sup> Myro (1983).

<sup>12</sup> Suarez (1992).

The aggregate TFP rate of growth is obtained as a weighted average of industry productivity growth rates. Each sector is pondered according to its participation in total output of any base year: 1958 for 1958-1962, 1962 for 1962-1970 and 1970 for 1970-1975. It is observed that the highest rates of growth corresponded to the industry (6,2 %) during the period 1962-1970. Gandoy(1988) carried out estimates of the global productivity for 28 industrial branches during the period 1964-1974, reaching a similar result (6,5% for total industry).

The results show the importance of high technology industries like machinery, motor vehicles and transportation equipment, chemical products and electric utilities which grew rapidly in both output and productivity. It's also highlighting the productivity advance in communications, industries derived from paper and "miscellaneous manufacturing". The last one includes industries very different, which combine traditional industries to industries linked to technical change as apparatuses of precision. The result is an increase in productivity that is above the average growth of total industry. Slowly growing sectors include the most part of services, food and tobacco products, textiles and apparel which show below-average output growth and low or even negative productivity growth.

The results presented in *table 1* also highlight the wide variation among industries. The growth rate of total output ranges from 1,5 in railroads to 23 percent in motor vehicles and transportation equipment in 1958-1962, from 0,5 in railroads to 20 percent in rubber and plastics during the second period and from 1,12 in electricity, gas and water to 11 percent in industrial machinery and equipment.

**Table 1. TFP growth by sector, 1958-1975**

(Annual rates of variation, in %)

|   | 1958-1962   |              | 1962-1970   |              | 1970-1975   |             |
|---|-------------|--------------|-------------|--------------|-------------|-------------|
|   | TFP         | OUTPUT       | TFP         | OUTPUT       | TFP         | OUTPUT      |
| Energy, unless electricity              | 1,58        | 18,09        | 9,61        | 16,08        | 5,70        | 8,49        |
| Electricity, gas and water              | 7,80        | 10,27        | 11,72       | 18,30        | 1,64        | 1,12        |
| Metal and non-metallic mining           | 2,28        | 3,43         | 7,52        | 8,28         | 8,16        | 3,02        |
| Primary transformation of metals        | 5,60        | 17,25        | 3,49        | 11,21        | 1,28        | 1,76        |
| Nonmetallic minerals industry           | 8,54        | 14,84        | 9,41        | 15,84        | 4,31        | 9,56        |
| Chemical industries                     | 9,52        | 16,77        | 6,58        | 13,06        | 2,06        | 6,45        |
| Industrial machinery and equipment      | 14,25       | 19,29        | 10,01       | 17,24        | 3,91        | 11,06       |
| Transport equipment                     | 10,57       | 22,93        | 7,05        | 14,37        | 4,04        | 12,89       |
| Food and tobacco products               | 2,25        | 7,97         | 2,11        | 7,38         | 0,75        | 4,76        |
| Textil Mill Products                    | 6,37        | 20,48        | 2,88        | 3,35         | 1,84        | 1,94        |
| Apparel and show                        | -4,28       | 6,36         | 2,54        | 11,02        | 2,03        | 3,49        |
| Lumber, wood and furnitures             | -0,15       | 3,43         | 7,10        | 11,41        | 3,45        | 4,90        |
| Paper products, printing and publishing | 5,85        | 15,73        | 7,70        | 14,32        | 5,11        | 11,44       |
| Rubber and plastic                      | 1,96        | 39,50        | 16,21       | 20,81        | 3,42        | 5,81        |
| Miscellaneous manufacturing             | 4,17        | 23,67        | 5,38        | 8,22         | 6,95        | 14,88       |
| Construction                            | 1,94        | 8,31         | -1,28       | 10,02        | 5,17        | 12,41       |
| Trade                                   | 4,07        | 6,63         | 3,65        | 5,76         | 1,95        | 7,07        |
| Hotels, restaurants and bars            | -1,53       | 13,93        | 1,56        | 14,88        | 2,27        | 4,45        |
| Railroad transport                      | 1,50        | 1,50         | 4,61        | 0,54         | 7,47        | 2,18        |
| Land transport                          | -4,22       | 6,67         | 7,31        | 10,05        | 2,67        | 4,45        |
| Sea transport                           | 3,28        | 8,29         | 6,91        | 10,74        | 5,08        | 3,97        |
| Air transport                           | -6,59       | 21,73        | -1,43       | 23,11        | 6,16        | 4,03        |
| Communications                          | 4,23        | 13,20        | 1,06        | 6,74         | 8,27        | 10,64       |
| Financial services                      | 1,54        | 3,85         | -13,65      | 2,76         | 5,32        | 6,68        |
| <b>INDUSTRY</b>                         | <b>4,92</b> | <b>13,50</b> | <b>6,20</b> | <b>12,14</b> | <b>2,88</b> | <b>6,77</b> |
| <b>SERVICES</b>                         | <b>1,41</b> | <b>6,92</b>  | <b>2,23</b> | <b>8,97</b>  | <b>3,08</b> | <b>5,06</b> |
| <b>TOTAL OUTPUT</b>                     | <b>3,43</b> | <b>11,28</b> | <b>4,20</b> | <b>10,09</b> | <b>2,82</b> | <b>6,40</b> |

*Notes:* Spanish Input-output tables for 1958, 1962, 1970 and 1975 are used for calculations. (a) TFP growth is calculated following the Kendrick (1961) approach taking input-output information (Pulido y Fontela(1993)). (b) OUTPUT growth is the average annual growth in gross output (intermediate plus final output). (c) Total output aggregation according to the ratio of industry gross output to aggregate total output for any benchmark year (1958 for 1958-1962, 1962 for 1962-1970, and 1970 for 1970-1975).

This is not surprising since these industries produce different outputs, face changing consumer and business demands, and respond differently to evolving technologies. Similarly, productivity growth ranges from -6,5 in financial services to

14 percent in industrial machinery and equipment in 1958-1962, from -13 in financial services to 16 percent in rubber and plastics in 1962-1970, and from 0,75 in food and tobacco industries to 8,25 percent in communications services in the last period.

The interpretation of aggregate TFP growth is complex when it reflects such disparate trends within industries. We observe also that some industries experience negative productivity growth. Some of these are declining industries like “apparel and shod” or “lumber, wood and furnitures”, but others include new fast growing sectors like land and air transport services. The most striking fact is that most industries and services present positive TFP growth along the whole period, and aggregate TFP growth comes from either sector of the economy but within a wide range of variation.

## **2.2. Interpreting economic growth: “*Yeast versus mushrooms*”.**

In tables 2, 3 and 4<sup>13</sup> we try to represent the degree of concentration of TFP improvements. Column (1) presents the measure of the percentage by which TFP grew during the successive periods (the percentages apply to each period as a whole; they are not annual rates). Industries are ordered in decreasing order in terms of annual TFP rates of growth. In column (3), to turn these percentages in pesetas of TFP gains, one multiplies them by each base period real total output. In the

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<sup>13</sup> This tables are built following Harberger(1998), table 2, pp.5.

following columns the cumulative sums of total output and TFP are expressed in millions of pesetas (columns 4 and 5) and in percentages (6 and 7).

Following the analogy of Harberger<sup>14</sup>, "yeast versus mushrooms" in interpreting economic growth, the results of our calculations could point to a "mushroom" interpretation: "This analogy comes from the fact that yeast causes bread to expand very evenly, like a balloon being filled with air, while mushrooms have the habit of popping up in a fashion that is not easy to predict". A "mushroom" process fits more readily with a vision such as that emerging of our results, in which TFP increases stem from different sectors and causes, although we can observe a tendency to TFP improvements to concentrate in a few industries. For 1958-1962, the top 14 percent of industries account for 47 percent of total TFP increase, for 1962-1970, 16 percent of industries explains 53 percent of TFP increase and for the last subperiod the percentages were 26 to 53 percent. For 75 percent of TFP increase, total output concentration still remain high: 36 percent, 28 percent and 50 percent respectively in each subperiod.

Not only were the contributions to TFP increase very concentrated in a relatively few industries, these industries are also very different when one shifted from one period to another. But, it's possible to find certain degree of persistence among the group of leaders in TFP improvements. Among the top 50 percent of TFP increase stayed during the first and the second periods: "machinery and equipment industry", "electricity, gas and water", "material of transport" and "rubber and

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<sup>14</sup> Harberger (1998), pp. 4.

plastics industry". If one considers 75 percent of the transformation, "miscellaneous manufactures", "chemical industry" and "communications" could be added to the group.

The persistence during the first two periods of those industries among the leader group in TFP improvements brings evidence in favour of the hypothesis that technological change was a central element in global modernization. The external effects derived from the incorporation of new technologies are not exhausted in a single period, and they caused a high correlation between the residual and the persistence of high rates of output and productivity growth in the following periods and to the rest of sectors. Along these years, technological change was linked to the diffusion of electric machinery and their appliances, to the automobile industry and linked industries and to new communications (telephony and television)<sup>15</sup>. The image that could emerge of these results would be that of a "mushroom process" among industries, in which the challenge for particular industries to experiencing a rapid TFP growth depended on the technological gap they maintained with the most advanced countries<sup>16</sup>. The new technology would spread almost evenly among the firms of the sector along a relatively wide period.

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<sup>15</sup>Along the sixties, simultaneously several sectors were leading the Spanish "catching-up" process. Spain incorporated the technologies developed in the leader country, the United States along several decades. According to Harberger(1998) the general impression is the 1920's are the decade of cars and the rubber industry, the 1930's the decade of refrigerators, the 1940's that of pharmaceutical products and the 1950's that of television. Part of European growth after the Second World War has been attributed to technological convergence with the United States, (Crafts and Tonniolo(1996)). Spain had a wide technological gap in several industries with a diverse range of technologies.

<sup>16</sup> Crafts and Tonniolo (1996), Europe experiences a technological "catch-up" to the United States after the Second World War, based on the development of technologies linked to the consumption of electricity and petroleum that United States had developed during the interwar years.

Although the findings here place some industries at the heart of the transformation, it does not follow, that technological progress was localized in a few modern industries. Evidence tells us a more complex story. In spite of the high concentration of the transformation, one can observe that 93 percent of total output in the first subperiod, 91 percent in the second and 100 percent in the last subperiod experienced positive TFP increases. It's difficult to believe that industry interdependence through input-output transactions or technological spillovers linked the leader sectors account for the global transformation. As we will see in the next section interrelationships among specific leading industries and the rest of the economy were limited and declining. The complexities of disaggregate industrial growth records suggest that individual industries were influenced in a variety of ways by technological changes or other sources that cause TFP improvements, like organizational changes, scale economies linked to the increase in demand, access to abroad markets of goods and factors,...

**TABLE 2.- Concentration of TFP Growth Among Spanish Industries, 1958-1962**  
**(1958 millions pesetas)**

|   | TFP<br>Growth over<br>period<br>(1.0=100) | TOTAL<br>OUTPUT<br>1958<br>millions ptas | TFP<br>ABSOLUT<br>INCREASE<br>(1)?(2)<br>millions ptas | CUMULATIVE<br>SUM OF<br>OUTPUT<br>1958 | CUMULATIVE<br>SUM OF TFP<br>INCREASE<br>1958 to 1962 | CUMULATIVE<br>SUM OF<br>OUTPUT<br>(in %) | CUMUL.<br>SUM OF<br>TFP<br>(in %) |
|---|---|--|--|--|--|--|-----------------------------------|
|   | (1)                                       | (2)                                      | (3)  | (4)                                    | (5)  | (6)                                      | (7)                               |
| Industrial machinery and equipment      | 0,70                                      | 39859,0                                  | 28059,3  | 39859,0                                | 28059,3  | 0,04                                     | 0,20                              |
| Transport equipment                     | 0,49                                      | 28025,9                                  | 13868,9  | 67884,9                                | 41928,3  | 0,07                                     | 0,29                              |
| Chemical industries                     | 0,44                                      | 34241,7                                  | 15027,1  | 102126,6                               | 56955,4  | 0,11                                     | 0,40                              |
| Nonmetallic minerals industries         | 0,39                                      | 12240,2                                  | 4750,3   | 114366,8                               | 61705,7  | 0,12                                     | 0,43                              |
| Electricity, gas and water              | 0,35                                      | 17131,0                                  | 6002,1   | 131497,8                               | 67707,8  | 0,14                                     | 0,47                              |
| Textil industries                       | 0,28                                      | 54362,2                                  | 15238,0  | 185860,0                               | 82945,8  | 0,20                                     | 0,58                              |
| Paper products, printing and publishing | 0,26                                      | 14938,5                                  | 3813,2   | 200798,5                               | 86758,9  | 0,22                                     | 0,61                              |
| Primary transformation of metals        | 0,24                                      | 38189,3                                  | 9304,8   | 238987,8                               | 96063,7  | 0,26                                     | 0,67                              |
| Communications                          | 0,18                                      | 4603,5                                   | 828,9  | 243591,3                               | 96892,6  | 0,26                                     | 0,68                              |
| Miscellaneous manufacturing             | 0,18                                      | 6680,1                                   | 1186,1   | 250271,4                               | 98078,7  | 0,27                                     | 0,69                              |
| Trade                                   | 0,17                                      | 79870,3                                  | 13832,7  | 330141,7                               | 111911,4   | 0,36                                     | 0,78                              |
| Sea Transport                           | 0,14                                      | 8518,2                                   | 1174,7   | 338659,9                               | 113086,0   | 0,37                                     | 0,79                              |
| Metal and non-metallic mining           | 0,09                                      | 6413,4                                   | 604,1  | 345073,3                               | 113690,1   | 0,37                                     | 0,80                              |
| Food and tobacco products               | 0,09                                      | 149155,6                                 | 13914,4  | 494228,9                               | 127604,6   | 0,53                                     | 0,89                              |
| Agricultura                             | 0,09                                      | 203806,4                                 | 18759,3  | 698035,3                               | 146363,9   | 0,75                                     | 1,02                              |
| Rubber and plastic industries           | 0,08                                      | 3718,4                                   | 301,0  | 701753,7                               | 146664,9   | 0,76                                     | 1,03                              |
| Construction                            | 0,08                                      | 57318,3                                  | 4581,1   | 759072,0                               | 151245,9   | 0,82                                     | 1,06                              |
| Energy, unless electricity              | 0,06                                      | 14292,7                                  | 924,7  | 773364,7                               | 152170,7   | 0,84                                     | 1,07                              |
| Financial services                      | 0,06                                      | 30837,2                                  | 1938,1   | 804201,9                               | 154108,8   | 0,87                                     | 1,08                              |
| Railroads transports                    | 0,06                                      | 12548,4                                  | 769,9  | 816750,3                               | 154878,7   | 0,88                                     | 1,08                              |
| Lumber, wood and furnitures             | -0,01                                     | 22132,1                                  | -133,8   | 838882,4                               | 154744,9   | 0,91                                     | 1,08                              |
| Hotels, restaurants and cofees          | -0,06                                     | 19396,1                                  | -1163,7  | 858278,5                               | 153581,1   | 0,93                                     | 1,08                              |
| Land transports                         | -0,16                                     | 31811,1                                  | -5040,3  | 890089,6                               | 148540,9   | 0,96                                     | 1,04                              |
| Apparel and show                        | -0,16                                     | 33731,2                                  | -5417,6  | 923820,8                               | 143123,3   | 1,00                                     | 1,00                              |
| Air transport                           | -0,24                                     | 1172,2                                   | -279,7   | 924993,0                               | 142843,6   | 1,00                                     | 1,00                              |

**TABLE 3.- Concentration of TFP Growth Among Spanish Industries,, 1962-1970**  
**(1962 millions pesetas)**

|                                    | TFP<br>Growth over<br>period<br>(1.0=100) | TOTAL<br>OUTPUT<br>1962<br>Millions ptas | TFP<br>ABSOLUTE<br>INCREASE<br>(1)?(2) | CUMULATIVE<br>SUM OF<br>OUTPUT<br>1962 | CUMULATIVE<br>SUM OF TFP<br>INCREASE<br>1962 to 1970 | CUMULATIVE<br>SUM OF<br>OUTPUT<br>(in %) | CUMULT<br>SUM OF<br>TFP<br>(in %) |
|------------------------------------|---|--|--|--|--|--|-----------------------------------|
|                                    | (1)                                       | (2)                                      | (3)                                    | (4)                                    | (5)  | (6)                                      | (7)                               |
| Rubber and plastic industries      | 2,33                                      | 15493,8                                  | 36043,7                                | 15493,8                                | 36043,7  | 0,01                                     | 0,07                              |
| Electricity, gas and water         | 1,43                                      | 23766,3                                  | 33909,1                                | 39260,1                                | 69952,8  | 0,03                                     | 0,14                              |
| Industrial machinery and equipment | 1,15                                      | 60307,3                                  | 69054,6                                | 99567,4                                | 139007,4   | 0,07                                     | 0,29                              |
| Energy, unless electricity         | 1,08                                      | 30433,7                                  | 32976,7                                | 130001,1                               | 171984,1   | 0,09                                     | 0,35                              |
| Nonmetallic minerals industries    | 1,05                                      | 19419,9                                  | 20443,5                                | 149421,0                               | 192427,6   | 0,10                                     | 0,40                              |
| Paper, printing and publishing     | 0,81                                      | 26210,5                                  | 21220,4                                | 175631,5                               | 213648,0   | 0,12                                     | 0,44                              |
| Metal and non-metallic mining      | 0,79                                      | 8302,5                                   | 6529,0                                 | 183934,0                               | 220176,9   | 0,12                                     | 0,45                              |
| Land transports                    | 0,76                                      | 48774                                    | 37010,9                                | 232708,0                               | 257187,8   | 0,16                                     | 0,53                              |
| Lumber, Wood and furnitures        | 0,73                                      | 30315,8                                  | 22173,2                                | 263023,8                               | 279361,0   | 0,18                                     | 0,57                              |
| Transport equipment                | 0,72                                      | 55146,5                                  | 39948,0                                | 318170,3                               | 319309,0   | 0,21                                     | 0,66                              |
| Sea transport                      | 0,71                                      | 11822,2                                  | 8348,3                                 | 329992,5                               | 327657,3   | 0,22                                     | 0,67                              |
| Chemical industries                | 0,66                                      | 53377,2                                  | 35469,9                                | 383369,7                               | 363127,2   | 0,26                                     | 0,75                              |
| Miscellaneous manufacturing        | 0,52                                      | 16877,1                                  | 8791,4                                 | 400246,8                               | 371918,7   | 0,27                                     | 0,76                              |
| Railroad transports                | 0,43                                      | 15087,1                                  | 6549,1                                 | 415333,9                               | 378467,8   | 0,28                                     | 0,78                              |
| Trade                              | 0,33                                      | 121660,3                                 | 40441,6                                | 536994,2                               | 418909,4   | 0,36                                     | 0,86                              |
| Primary transformation of metals   | 0,32                                      | 72841                                    | 23024,9                                | 609835,2                               | 441934,3   | 0,41                                     | 0,91                              |
| Textil industry                    | 0,25                                      | 103495,1                                 | 26360,1                                | 713330,3                               | 468294,4   | 0,48                                     | 0,96                              |
| Apparel and show                   | 0,22                                      | 51286,9                                  | 11383,2                                | 764617,2                               | 479677,6   | 0,51                                     | 0,99                              |
| Food and tobacco products          | 0,18                                      | 219063,2                                 | 39738,3                                | 983680,4                               | 519415,9   | 0,66                                     | 1,07                              |
| Hotels, restaurants and cafes      | 0,13                                      | 39946                                    | 5281,1                                 | 1023626,4                              | 524697,0   | 0,69                                     | 1,08                              |
| Communications                     | 0,09                                      | 8846,05                                  | 780,5                                  | 1032472,5                              | 525477,6   | 0,69                                     | 1,08                              |
| Agriculture and fishing            | -0,01                                     | 330692,7                                 | -1859,4                                | 1363165,2                              | 523618,1   | 0,91                                     | 1,08                              |
| Construction                       | -0,10                                     | 84670,3                                  | -8275,4                                | 1447835,5                              | 515342,7   | 0,97                                     | 1,06                              |
| Air transport                      | -0,11                                     | 2957,3                                   | -322,5                                 | 1450792,8                              | 515020,2   | 0,97                                     | 1,06                              |
| Financial services                 | -0,69                                     | 41183,1                                  | -28452,6                               | 1491975,9                              | 486567,7   | 1,00                                     | 1,00                              |

**TABLE 4.- Concentration of TFP Growth Among Spanish Industries, 1970-1975**  
**(1970 millions pesetas)**

|                                    | TFP<br>Growth over<br>period<br>(1.0=100) | TOTAL<br>OUTPUT<br>1970 | TFP                             | CUMULATIVE               | CUMULATIVE                             | CUMULATIVE<br>SUM OF<br>OUTPUT<br>(in %) | CUMULATIVE<br>SUM OF<br>TFP<br>(in %) |
|------------------------------------|---|-------------------------|---------------------------------|--------------------------|--|--|---------------------------------------|
|                                    |   |                         | ABSOLUTE<br>INCREASE<br>(1)X(2) | SUM OF<br>OUTPUT<br>1970 | SUM OF TFP<br>INCREASE<br>1970 to 1975 |  |                                       |
| (1)                                | (2)                                       | (3)                     | (4)                             | (5)                      | (6)                                    | (7)                                      |                                       |
| Communications                     | 0,49                                      | 27431                   | 13389,9                         | 27431,0                  | 13389,9                                | 0,01                                     | 0,02                                  |
| Metal and non-metallic mining      | 0,48                                      | 24807                   | 11918,2                         | 52238,0                  | 25308,1                                | 0,01                                     | 0,04                                  |
| Railroads Transports               | 0,43                                      | 20244                   | 8772,2                          | 72482,0                  | 34080,4                                | 0,02                                     | 0,06                                  |
| Miscellaneous manufacturing        | 0,40                                      | 35284                   | 14095,1                         | 107766,0                 | 48175,5                                | 0,03                                     | 0,08                                  |
| Air Transports                     | 0,35                                      | 28137                   | 9810,2                          | 135903,0                 | 57985,7                                | 0,03                                     | 0,10                                  |
| Energy, unless electricity         | 0,32                                      | 115654                  | 36952,2                         | 251557,0                 | 94937,9                                | 0,06                                     | 0,16                                  |
| Financial services                 | 0,30                                      | 121843                  | 36062,5                         | 373400,0                 | 131000,4                               | 0,09                                     | 0,22                                  |
| Construction                       | 0,29                                      | 317991                  | 91106,1                         | 691391,0                 | 222106,5                               | 0,17                                     | 0,38                                  |
| Paper, printing and publishing     | 0,28                                      | 96871                   | 27388,6                         | 788262,0                 | 249495,0                               | 0,19                                     | 0,43                                  |
| Sea Transport                      | 0,28                                      | 30874                   | 8671,6                          | 819136,0                 | 258166,6                               | 0,20                                     | 0,44                                  |
| Nonmetallic minerals industries    | 0,23                                      | 78544                   | 18442,9                         | 897680,0                 | 276609,6                               | 0,22                                     | 0,47                                  |
| Transport equipment                | 0,22                                      | 166835                  | 36504,0                         | 1064515,0                | 313113,5                               | 0,26                                     | 0,53                                  |
| Industrial machinery and equipment | 0,21                                      | 257637                  | 54524,1                         | 1322152,0                | 367637,6                               | 0,32                                     | 0,63                                  |
| Lumber, wood and furniture         | 0,18                                      | 81410                   | 15039,5                         | 1403562,0                | 382677,1                               | 0,34                                     | 0,65                                  |
| Rubber and plastic industries      | 0,18                                      | 67388                   | 12357,7                         | 1470950,0                | 395034,8                               | 0,36                                     | 0,67                                  |
| Land transport                     | 0,14                                      | 156897                  | 22082,0                         | 1627847,0                | 417116,8                               | 0,40                                     | 0,71                                  |
| Hotels, restaurants and cafes      | 0,12                                      | 215761                  | 25593,6                         | 1843608,0                | 442710,4                               | 0,45                                     | 0,76                                  |
| Chemical industries                | 0,11                                      | 187686                  | 20167,7                         | 2031294,0                | 462878,1                               | 0,50                                     | 0,79                                  |
| Apparel and shoe                   | 0,11                                      | 165297                  | 17507,0                         | 2196591,0                | 480385,1                               | 0,54                                     | 0,82                                  |
| Trade                              | 0,10                                      | 349725                  | 35469,1                         | 2546316,0                | 515854,2                               | 0,62                                     | 0,88                                  |
| Textile industries                 | 0,10                                      | 147829                  | 14121,4                         | 2694145,0                | 529975,6                               | 0,66                                     | 0,90                                  |
| Electricity, gas and water         | 0,08                                      | 111105                  | 9407,0                          | 2805250,0                | 539382,6                               | 0,68                                     | 0,92                                  |
| Primary transformation of metals   | 0,07                                      | 239471                  | 15687,3                         | 3044721,0                | 555069,9                               | 0,74                                     | 0,95                                  |
| Food and tobacco products          | 0,04                                      | 519125                  | 19874,0                         | 3563846,0                | 574943,9                               | 0,87                                     | 0,98                                  |
| Agriculture and fishing            | 0,02                                      | 538875                  | 10674,0                         | 4102721,0                | 585617,9                               | 1,00                                     | 1,00                                  |

### **3. Electricity and Electrical Machinery and Equipment as a General Purpose Technology, 1958-1975**

In recent years there has been an upsurge of interest among economist in General Purpose Technologies (GPTs). These are defined as “a technology that initially has much scope for improvement and eventually comes to be widely used, to have many uses, and to have many Hicksian and technological complementarities<sup>17</sup>”. Electricity is among the most important examples. These Technologies imply that the growth process may be subject to episodes of sharp acceleration and deceleration. Their initial impact on overall productivity growth is minimal and the realisation of their potential may take several decades.

In the previous section we have underlined the high contribution of a few group of industries like electricity, machinery and equipment, transport equipment or chemistry in the explanation of the aggregate TFP increase. Among these industries, the production of electricity and machinery and equipment industry could be linked to what we have called GPTs. In this section we will attempt to examine the impact of electricity on Spanish economic growth.

There are several reasons to draw our attention on electricity. First, electricity together with petroleum were consolidated as hegemonic energies in Spain during the fifties and the sixties. Second, the consumption of electricity can be linked to capital deepening in the rest of the economy. The acquisition of electric machinery and equipment was the way of embodying new technologies. And third, the high rates of electricity and machinery and equipment TFP growth put them between the leader sectors.

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<sup>17</sup> Lipsey et al (1998), pag. 43.

This work uses growth-accounting to assess the contribution of electricity to overall transformation. In particular, it is of interest to ask whether there is evidence of an electricity-driven transformation. We explore the argument by examining electricity's impact as a proximate cause of GDP *per capita* growth. We follow a similar method to those recently employed in evaluating the contribution of Information and Communications Technologies to recent American productivity growth<sup>18</sup> and the contribution of Steam Technologies to British Industrial Revolution<sup>19</sup> and climacteric<sup>20</sup>. This methodology can identify the contributions to the growth of output *per capita* coming from capital deepening and from technological progress in the provision and application of electricity, using appropriate weights to reflect the relative importance of capital in electrical machinery and in the provision of electricity.

With the Standard Cobb-Douglas production function and under competitive assumptions, the Solow residual is computed as:

$$\Delta A/A = \Delta Y/Y - s_k \Delta K/K - s_l \Delta L/L \quad [1]$$

where  $s_k$  y  $s_l$  are the income shares of capital and labour respectively. A straightforward generalization of this is used by Oliner and Sichel (2000) which features different varieties of capital. In this work the contribution of innovations in electricity is captured through two components<sup>21</sup>: additional capital inputs ( $K_e$ ) and extra TFP growth ( $A_{elec}$ ). For this purpose we distinguish two kinds of electrical capital ( $K_e$ ): electrical machinery and equipment and electrical capacity installed, whose growth contributions are weighted by their shares in

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<sup>18</sup> Oliner and Sichel (2000).

<sup>19</sup> Crafts (2004).

<sup>20</sup> Crafts and Mills (2004)

income. By the same way, the contribution of innovations in electricity ( $A_{elec}$ ) is captured through two components: TFP growth linked to the production of electrical machinery and equipment and TFP linked to the production of electricity, both weighted by their output shares, as part of the overall residual. Thus the growth accounting equation is written as:

$$\begin{aligned} & \Delta Y/Y = s_L \Delta L/L + s_{k_0} \Delta K_0/K_0 + s_{K_e} \Delta K_e/K_e \\ & + \Delta A/A_{elec} + \Delta A/A_{no\text{-}elec} \end{aligned} \quad [2]$$

Where the subscript “ $o$ ” indicates other capital, the subscript “ $e$ ” indicates electrical capital, the subscript  $elec$  indicates electrical manufactures (electrical machinery and equipment plus production of electricity), and  $non-elec$  the rest of the economy, while  $\Delta$  and  $\Delta$  are the gross output of these sectors as a share of total output<sup>22</sup>.

Table 5 displays the estimates of TFP growth of table 1 combined with the contributions of the two types of electrical capital into a consolidate aggregate. The overall machinery and equipment effect ( $I+2$ ) is estimated to have been 1,14 percentage points per year in 1958-1962, 0,89 in 1962-1970 and 0,55 in 1970-1975. This contribution comes from TFP growth in machinery and equipment production (1) and from the adquisition of new electrical capital by the rest of sectors (2).

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<sup>21</sup> We take this decomposition from Crafts (2002) estimation of electricity impact in U.S. 1920's economic growth.

<sup>22</sup> There are so-called Domar weights which sum to greater than 1. For an algebraic justification of this procedure see Hulten (1978).

**TABLE 5.- Electricity Contribution to Growth  
In Spain, 1958-1975**

|  | 1958-1962   | 1962-1970   | 1970-1975   |
|--|-------------|-------------|-------------|
| 1.1. TFP Growth in Machinery and Equipment                                 | 14,25       | 10,01       | 3,91        |
| 1.2. Output Share  | 0,04        | 0,04        | 0,05        |
| <b><i>1. TFP contribution of Machinery and equipment</i></b>               | <b>0,57</b> | <b>0,36</b> | <b>0,20</b> |
| 2.1. Capital Stock Growth in machinery and equipment                       | 14,25       | 8,75        | 5,55        |
| 2.2. Income Share  | 0,04        | 0,06        | 0,06        |
| <b><i>2. Capital Deepening Contribution of Machinery and Equipment</i></b> | <b>0,57</b> | <b>0,53</b> | <b>0,33</b> |
| 3.1.TFP Growth of Electrical Power Industry                                | 7,80        | 11,72       | 1,64        |
| 3.2. Output Share  | 0,04        | 0,02        | 0,02        |
| <b><i>3.TFP Contribution of Electrical Power Industry</i></b>              | <b>0,31</b> | <b>0,21</b> | <b>0,03</b> |
| 4.1. Capital Stock Growth in Electrical Capacity                           | 2,66        | 10,35       | 7,28        |
| 4.2. Income Share (1958,1962,1970)   | 0,02        | 0,02        | 0,02        |
| <b><i>4.Capital Deepening Contribuition of Electric Power Industry</i></b> | <b>0,05</b> | <b>0,22</b> | <b>0,16</b> |
| Total Electricity Contribution (1+2+3+4)                                   | 1,51        | 1,31        | 0,72        |
| GDP growth (%)   | 6,32        | 7,32        | 5,31        |
| Total Electricity Contribution<br>(as % GDP growth)                        | 23,82       | 17,95       | 13,59       |

NOTE: Per cent.

SOURCES: (1) Electrical Machinery and equipment TFP growth is assumed to be equivalent to "Total Machinery and equipment industry". Domar-weights are used as is habitual in the literature on GPTs. (2) The machinery and equipment stock of capital growth from National Accounts. This component is weighted by the share of machinery and equipment in total capital weighted by the share of capital in income. (3) Electrical power industry TFP growth corresponds to "electricity, gas and water". (4) For capital stock growth in the production and distribution of electricity we take the increase in capacity in electric power stations valued in KVA, published in the Statistical Annals of INE. The weight of electric industries in total capital stock is obtained from the stock of capital by sectors published by BBV.

Thus the innovations of electricity could have impacts on growth both through an embodied capital-deepening effect (1+2) and through disembodied TFP growth (not computed separately). The spillovers resulted from the widespread adoption of electric unit drive, are generally thought to have been substantial during the productivity growth linked to the diffusion of electricity. They consist on substantial improvements in factory design and associated capital saving, the achievement of which is based on learning externalities. This effect hasn't been captured in our computations and we consider it would be part of the TFP increase of any particular industry that adopted electrical technologies.

The contribution of electric power industry to GDP per capita growth is presented in rows 3 and 4. Row 3 reports TFP growth of the electric industry, and row 4 the increase in the stock of capital linked to the production of electric power.

A high contribution of electricals to GDP growth is observed in the period 1958-1962, (23 percent). This was the result of the TFP growth of machinery and equipment industry(7%), plus the incorporation of electrical machinery and equipment by other industries (9%), plus the TFP growth of electrical power industry (5%) and the increase of the capacity installed in the electric sector (1%). Like it can be noticed, the improvements derive almost similarly from higher efficiency in the two sectors(13%) and from the deepening in the stock of capital linked to the production, distribution and application of electricity (10%).

Taken at face value in the following subperiods the message of Table 5 is quite clear: electricity impact on economic growth was noticeable but decreasing during the whole period considered. From 23 per cent of GDP growth at 1958-1962, it decreased to 17,95 in 1962-1970 and to 13,59 per cent in 1970-1975. At the same time, in terms of its impact on the

annual rate of productivity growth through capital-deepening and own TFP growth electricity had a decreasing impact through TFP improvements. This contribution to GDP growth decreased to 8 per cent in 1962-1970 and to 4 per cent in 1970-1975, while the capital-deepening contributions were of 10 and 9 per cent respectively. These results suggest that once incorporated technological change in the production of machinery and electrical power, the widespread of new technologies through capital-deepening became the main force of the transformation.

These records are not worthless, although are slightly below those obtained by Crafts for U.S. economy during 1920's for electricity. Possibly Spanish economy was experiencing the top realisation of electricity potential at the ending of the fifties and the beginning of the sixties, after two decades of stagnation in the diffusion of electricity and its applications.

It is possible that a higher opening to foreign markets since 1959 facilitated the access to modern machinery and equipment and offered new opportunities for the renovation and modernization of the capital stock. Electricity, among other technologies, was clearly favoured in this process. But investment in machinery and the improvements in productivity in the industry of producer goods wouldn't have been possible if there had not been any previous increase in the power capacity installed. External inflows of capital goods were preceded since the second half of the fifties by a strong rhythm of electric power stations construction. This increase became evident after a painful energetic situation in 1940's<sup>23</sup>. The restrictions in the electricity supply began to take place in 1944 and they lasted until 1954. The electric power stations built before the war didn't have any incentive to increase the

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<sup>23</sup> Sudrià (1987), pag. 332 considers "painfull" the Spanish energetical situation during 1940's and part of the 1950's..

installed power, for the drops of electric tariffs and for difficulties to import inputs and equipment for these stations.

The change in the rhythm of construction of new electric power stations was linked to relationships to abroad, mainly to the American help that was materialized in imports of material for the electricity production<sup>24</sup>, and also to the change in the industrial legislation, especially with reference to the establishment of new electric rates in 1953<sup>25</sup>. Starting then a very remarkable expansion of the installed power was observed and continued at a very high rhythm along the sixties (10,35 % yearly).

Along the whole period, the electricity impact on GDP growth was decreasing, while GDP was well-sustained through till 1975. These results reinforced the point highlighted in the previous section that the impetus to growth came from several sources at the same time and was not exclusively related to any industrial specific technological change, although some industries, like electrical goods, had a noticeable role. The decreasing contribution to growth of electricity is compatible with the results showed in tables 2, 3 and 4. The industries with a positive contributions increased along the tree successive subperiods and almost sectors experienced a positive productivity growth.

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<sup>24</sup> Calvo (1999).

<sup>25</sup> Sudrià (1987).

#### **4. Conclusions**

The performance of the Spanish economy in the sixties has been nothing short of phenomenal. After two decades of economic stagnation and divergence to European levels, accelerating total factor productivity growth and capital deepening led to a remarkable growth resurgence.

The results of our calculations using the Kendrick approach for TFP reveals a tendency to TFP growth concentration in a few industrial branches and a high degree of persistence among the leader industries. Electricity and machinery and equipment industries were in this group. The GPT approach corroborates the importance of these two branches in the interpretation of general economy transformation. These industries, that jointly represented 8% of total output in 1958, could explain 24 % of GDP growth in the period 1958-1962. Their contribution decreased to 18% and 13,6% at the two following periods. These results allow us to make some assertions about the significant but limited role played by these specific industries in general progress. Following Harberger analogy, these specific industries are part of a “mushrooms process”. They had the chance to fill in their technological gap with the technological leader and could grow faster than others and widespread their improvements through the rest of the economy. Possibly other industries made the same through the embodiment of other kinds of technological change, as was the case of equipment of transport, chemicals, rubbers, communications, etc...

The application of GPT's methodology to electricity gives us clear but modest results. It allows us to identify a source of technological progress that located in particular industries spilled widely across the economy through capital-deepening. But part of the bottle remains

unfilled. Table 1 tells us how to fill it. Although the finding here place some industries at the heart of the transformation because of its rapid TFP growth and its high contribution to overall transformation, it does not follow that technological progress was localized in a few modern industries. The existence of a wide number of industries with high TFP growth, jointly with the renovation in each subperiod of an important part of the group of top 50 percent of TFP increase, suggest several technological waves spreading across the Spanish economy among the whole period. And possibly individual industries were influenced in a variety of ways by these technological changes.

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## **APPENDIX A**

### **Aggregation of Spanish Input-output tables (1958, 1962, 1970 and 1975) according to 1970 Spanish National Accounts's classification.**

The Spanish input-output tables for the years 1958, 1962, 1970 and 1975 are the quantitative information used for the empiric analysis of this work. These tables show a great divergence in their classification of productive branches. The number of productive branches included runs from 207 at 1958 table to 86 at 1962 input-output table. We can observe 137 branches at 1970 table and 127 at 1975 table. In order to make information homogeneous, we have aggregate all the tables at the level of 25 branches established in 1970 Spanish National Accounts.

The detailed process of aggregation of the intermediate consumptions, primary inputs and vectors of final employments is described in Sanchis (2000). In the *table A.I* we present the equivalences among different tables.

### **Deflation of Spanish Input-Output Tables**

The objective has been to build an index of prices weighted by the share of national and imported inputs in the intermediate and final consumptions of each sector. The result is an average weighted price for each cell of the input-output table.

This appreciation is interesting since in the analyzed period we assisted to a progressive openness of the Spanish economy. This fact affected the composition of intermediate inputs, with an increasing participation of imports.

The series of domestic prices used as deflators for domestic consumption of goods and services are the following:

- ? *Agriculture*: The *Indice de precios percibido por los agricultores*, published by the Ministry of Agriculture, equivalent to the productor prices at which the tables are valued.
- ? *Industry*: *Indice de Precios al por Mayor* at 1955 base (IPM-55). In Sanchis (2000), there have been settled down equivalences between branches of CNE-70 and IPM-55.
- ? *Construction and services*: It has been difficult to obtain appropriate deflators. For this reason we use the Value Added deflators. This means to accept that their prices

vary in a similar way as their respective values added. The hypothesis is reasonable for those services more intensive in labour in which the value added is the most important component of overall cost. But for those services, as transports and communications, with a composition of inputs consumption and costs more complex, this deflator is less suitable.

- ? *Prices of imports:* It has been necessary to elaborate an index of imports prices, using two kinds of series of imports: imports in values and imports in fiscal quantities. The data used are the series of values and quantities of imports summarized by the Instituto Nacional de Estadística in its *Anuarios Estadísticos*, for several years. The original source is the *Estadística del Comercio Exterior de España* de la Dirección General de Aduanas.
- ? *Labour input:* The remuneration of labour has been deflated using the *Salarios* enquiry published by the INE, where we can find salaries for several branches of the industry and the services since 1963. For the previous years we have taken the salaries published in the *Estadística de la Producción Industrial* by the Servicio Sindical de Estadística.
- ? *Capital input:* For the Gross Remuneration of Capital has been built a series of the user cost of capital for any branch of the economy. We have built a deflator of capital for any branch of the economy that is a weighted average of machinery and equipment deflator and non-residential construction deflator. We also have taken into account depreciation rates and the nominal interest rate.

For deflating we proceed as follows,

1. After establishing the composition of the consumption, between domestic and imported goods, we obtain a different deflator for any cell of the tables.
2. We take as base year for each table, the year in which is expressed the foregoing table. So, 1962 input-output table is expressed in 1958 prices, the 1970 table in 1962 prices and the 1975 table in 1970 prices. We consider that it is more appropriate to compare successive years in order to obtain more precise results for TFP growth.

In the annexes we present input-output tables aggregated at the same level and expressed at current and constant prices.

**ANNEXE I:**  
**AGGREGATED INPUT-OUTPUT TABLES AT CNE-70**  
**AT CURRENT PRICES AND CONSTANT PRICES**

| 1958 INPUT-OUTPUT TABLE                     |           | 0.1                            | 0.2      | 1.1                    | 1.2                        | 2.1                    | 2.2                    | 2.3                     | 2.4                  | 3.1                     | 3.2                    |
|---|-----------|--------------------------------|----------|------------------------|----------------------------|------------------------|------------------------|-------------------------|----------------------|-------------------------|------------------------|
| At current millions pesetas                 |           | Agriculture,<br>Cattle raising | Fishing  | Energy,<br>Electricity | Electricity,<br>gas, water | Metal and<br>non metal | Primary<br>transformat | Nonmetallic<br>Minerals | Chemical<br>Industry | Machinery<br>and equip. | Transport<br>equipment |
| 0.1 Agriculture and cattle raising          | 37.007,80 | 3,3                            | 96       | 3,4                    | 25,4                       | 33,4                   | 113,6                  | 858,9                   | 13,9                 | 0,7                     |                        |
| 0.2 Fishing                                 | 0         | 0                              | 0        | 0                      | 0                          | 0                      | 0                      | 3,1                     | 0                    | 0                       |                        |
| 1.1 Energy, unless utilities                | 761       | 662,5                          | 2.094,50 | 2.283,60               | 121,5                      | 2.068,90               | 1.277,20               | 870,9                   | 229,4                | 196,8                   |                        |
| 1.2 Electric, gas and water utilities       | 994,8     | 0,7                            | 428,4    | 714,6                  | 245,8                      | 1.118,60               | 493,9                  | 1.213,90                | 371                  | 164                     |                        |
| 2.1 Metal and non-metallic mining           | 0,9       | 19,4                           | 132,5    | 1,1                    | 0                          | 1.997,00               | 723,8                  | 830,1                   | 0,2                  | 0                       |                        |
| 2.2 Primary transformation of metals        | 2,4       | 8                              | 5,4      | 14,5                   | 0                          | 17.884,20              | 59,1                   | 172,1                   | 10.956,20            | 6.125,20                |                        |
| 2.3 Nometallic minerals industry            | 3,9       | 3,5                            | 0,2      | 0,5                    | 0                          | 38,4                   | 488,9                  | 192                     | 196,8                | 88,7                    |                        |
| 2.4 Chemical industries                     | 3.590,30  | 169,6                          | 185,2    | 39,4                   | 268,1                      | 151,2                  | 268,9                  | 9.344,30                | 640                  | 523,8                   |                        |
| 3.1 Industrial machinery and equipment      | 871,4     | 10,5                           | 256,5    | 70,4                   | 48,8                       | 2.013,70               | 90,2                   | 244,6                   | 3.222,20             | 997,7                   |                        |
| 3.2 Transport equipment                     | 0         | 0                              | 0        | 0                      | 0                          | 0                      | 0                      | 0                       | 125                  | 4.271,70                |                        |
| 4.1 Food and tobacco products               | 10.921,60 | 1,5                            | 3,4      | 3,3                    | 1,2                        | 12,1                   | 13,7                   | 2.104,50                | 1,7                  | 1,8                     |                        |
| 4.2 Textil mill products                    | 471,4     | 397,4                          | 13,3     | 0,9                    | 22,7                       | 8,2                    | 14,4                   | 315,9                   | 119,6                | 85,7                    |                        |
| 4.3 Apparel and show                        | 102,9     | 1                              | 13,6     | 0,5                    | 4,8                        | 12,8                   | 6,5                    | 15,9                    | 22,7                 | 33,7                    |                        |
| 4.4 Lumber, woods and furnitures            | 1.370,00  | 79,6                           | 32,3     | 6,7                    | 54,9                       | 3,9                    | 15,1                   | 156,6                   | 192,6                | 364,2                   |                        |
| 4.5 Paper products, printing and publishing | 213,5     | 3,8                            | 15,1     | 42,4                   | 12,7                       | 13,1                   | 542,6                  | 753,2                   | 74,9                 | 19,8                    |                        |
| 4.6 Rubber and plastics                     | 0         | 5,3                            | 9,8      | 2,7                    | 3,6                        | 0                      | 0                      | 271,6                   | 505,3                | 339,3                   |                        |
| 4.7 Miscellaneous manufacturing             | 296       | 0                              | 0        | 0                      | 0                          | 0                      | 0                      | 4,4                     | 6,8                  | 77,5                    |                        |
| 5 Construction                              | 712,6     | 0                              | 33,5     | 52,5                   | 21,6                       | 44                     | 14,5                   | 57,7                    | 36,3                 | 43,3                    |                        |
| 6.1 Trade services                          | 1.406,70  | 76,9                           | 55       | 60,4                   | 51,5                       | 429,7                  | 165,9                  | 619,2                   | 1.739,80             | 447,9                   |                        |
| 6.2 Hotels, restaurants and bars            | 0         | 0                              | 0        | 0                      | 0                          | 0                      | 0                      | 0                       | 0                    | 0                       |                        |
| 7.1 Railroad transpot                       | 519,6     | 6,4                            | 49,2     | 182,5                  | 222,2                      | 268,9                  | 226,8                  | 470,9                   | 232,6                | 140,5                   |                        |
| 7.2 Land transport                          | 831,9     | 13,7                           | 94,6     | 99                     | 68,5                       | 439,8                  | 439,2                  | 613,5                   | 339,7                | 226,5                   |                        |
| 7.4 Sea transport                           | 62,1      | 26,2                           | 182,3    | 84,4                   | 30                         | 337                    | 57,5                   | 32,5                    | 83,5                 | 98,4                    |                        |
| 7.5 Air transport                           | 0         | 0                              | 0        | 0                      | 0                          | 0                      | 0                      | 0                       | 0                    | 0                       |                        |
| 7.6 Communications                          | 53,7      | 9                              | 27,3     | 4,1                    | 17,6                       | 24                     | 7,4                    | 47,1                    | 48,5                 | 26,1                    |                        |
| 8.1 Finnancial services                     | 2.490,30  | 172                            | 612,3    | 288,3                  | 513,2                      | 481,2                  | 329,5                  | 825,7                   | 715,6                | 522,7                   |                        |
| 9.1 Housing to rent                         | 503,1     | 17,1                           | 81,7     | 75,9                   | 14,6                       | 157,2                  | 67,8                   | 245,9                   | 210,5                | 137,2                   |                        |
| 9.2 Education and health services           | 0         | 0                              | 0        | 0                      | 0                          | 0                      | 0                      | 0                       | 0                    | 0                       |                        |
| 9.4 Domestic and Firm services              | 1.089,80  | 31,2                           | 89,8     | 68,8                   | 44,6                       | 119,5                  | 235,8                  | 909,7                   | 625,8                | 226,1                   |                        |
| 10 Other services                           | 0         | 0                              | 0        | 0                      | 0                          | 0                      | 0                      | 0                       | 0                    | 0                       |                        |
| Intermediate inputs                         | 64277,7   | 1718,6                         | 4511,9   | 4099,9                 | 1793,3                     | 27656,8                | 5652,3                 | 21174,2                 | 20710,6              | 15159,3                 |                        |
| Labor input remuneration                    | 83475,5   | 3213                           | 5838,2   | 2636,4                 | 2806,2                     | 4110,9                 | 3791,1                 | 4479,1                  | 11346,2              | 7412,2                  |                        |

|                                       |          |        |         |         |        |         |         |         |         |         |
|---------------------------------------|----------|--------|---------|---------|--------|---------|---------|---------|---------|---------|
| Gross capital remuneration            | 47831,2  | 1178,1 | 3582,7  | 9810,4  | 1643,4 | 5302,9  | 2603,4  | 7321,6  | 7009,3  | 4623,7  |
| Net indirect taxes                    | 1613,8   | 495,2  | 314,7   | 582,3   | 128,2  | 1100,8  | 140,7   | 786,5   | 785,9   | 804,7   |
| Gross Value Added at Productor Prices | 131306,7 | 4391,1 | 9420,9  | 12446,8 | 4449,6 | 9413,8  | 6394,5  | 11800,7 | 18355,5 | 12035,9 |
| TOTAL OUTPUT                          | 197198,2 | 6604,9 | 14247,1 | 17129   | 6371,1 | 38163,3 | 12187,5 | 33761,4 | 39852   | 27999,9 |

### 1958 SPANISH INPUT-OUTPUT TABLE

| At current millions pesetas                 | 4.1              | 4.2                  | 4.3              | 4.4               | 4.5            | 4.6                 | 4.7           | 5            | 6.1     | 6.2                |
|---|------------------|----------------------|------------------|-------------------|----------------|---------------------|---------------|--------------|---------|--------------------|
|   | Food and tobacco | Textil mill products | Apparel and show | Lumber, woods ... | Paper products | Rubber and plastics | Miscellaneous | Construction | Trade   | Hotels, restaurant |
| 0.1 Agriculture and cattle raising          | 75.466,9         | 4.847,3              | 31,7             | 4.979,9           | 282,8          | 0,7                 | 3,9           | 5,8          | 44,3    | 57,9               |
| 0.2 Fishing                                 | 1.735,8          | 0                    | 0                | 0                 | 0              | 0                   | 0             | 0            | 0       | 0                  |
| 1.1 Energy, unless utilities                | 659,3            | 307,1                | 12,9             | 37,1              | 196,2          | 45,6                | 6,1           | 252,6        | 148,9   | 195,5              |
| 1.2 Electric, gas and water utilities       | 629,7            | 424,7                | 63,5             | 177,2             | 352,7          | 75,7                | 36,1          | 322,3        | 463,9   | 410,9              |
| 2.1 Metal and non-metallic mining           | 29,8             | 0                    | 0,5              | 0                 | 18,3           | 0,9                 | 0,3           | 684          | 2,3     | 0                  |
| 2.2 Primary transformation of metals        | 262,3            | 10                   | 1,9              | 25,3              | 22,7           | 40                  | 173,6         | 2.417,8      | 0       | 0                  |
| 2.3 Nometallic minerals industry            | 238,7            | 0                    | 11,3             | 39,7              | 3,7            | 1                   | 61,7          | 8.942,1      | 0       | 133,2              |
| 2.4 Chemical industries                     | 468              | 3.404,2              | 464,2            | 362,1             | 445,9          | 373,6               | 58            | 1.273,6      | 836,3   | 435,9              |
| 3.1 Industrial machinery and equipment      | 463,7            | 58,5                 | 149,2            | 367,9             | 25,7           | 42,3                | 44,3          | 3.077,7      | 19      | 4,3                |
| 3.2 Transport equipment                     | 0                | 0                    | 0                | 0                 | 0              | 0                   | 0             | 0            | 0       | 0                  |
| 4.1 Food and tobacco products               | 30.807,5         | 52,6                 | 1.253,4          | 21,6              | 14,5           | 1,6                 | 1,2           | 109,6        | 2       | 10,7               |
| 4.2 Textil mill products                    | 747,2            | 23.048,6             | 16.512,2         | 171,3             | 115,4          | 531,7               | 2,1           | 84,9         | 157,3   | 85                 |
| 4.3 Apparel and show                        | 57,4             | 411,8                | 3.035,1          | 14,1              | 25,2           | 5,5                 | 35,1          | 3,7          | 0       | 41,8               |
| 4.4 Lumber, woods and furnitures            | 526,4            | 20,7                 | 73,9             | 5.263,3           | 1,2            | 0,1                 | 16,8          | 3.559,7      | 214,9   | 33,8               |
| 4.5 Paper products, printing and publishing | 576,7            | 53                   | 143,8            | 7,3               | 5.431,50       | 35,2                | 7,2           | 121,6        | 686,6   | 48,2               |
| 4.6 Rubber and plastics                     | 16,5             | 2,4                  | 286,6            | 1,3               | 1              | 105,5               | 2,6           | 35,2         | 0,6     | 0,2                |
| 4.7 Miscellaneous manufacturing             | 48,8             | 0                    | 5,2              | 8                 | 0              | 0                   | 8,9           | 0            | 0       | 0                  |
| 5 Construction                              | 222,3            | 59                   | 41,7             | 21,3              | 24,1           | 7,5                 | 3             | 0            | 282,2   | 152,2              |
| 6.1 Trade services                          | 1.868,2          | 410,7                | 1.852,1          | 271,8             | 332,7          | 60,6                | 75,8          | 2.143,4      | 2.818,7 | 865,5              |
| 6.2 Hotels, restaurants and bars            | 0                | 0                    | 0                | 0                 | 0              | 0                   | 0             | 0            | 0       | 0                  |
| 7.1 Railroad transpot                       | 603,7            | 228,4                | 69,5             | 163,1             | 311,7          | 54,2                | 10,6          | 429,7        | 70,4    | 67,7               |
| 7.2 Land transport                          | 1.672,9          | 610,1                | 154,6            | 845,1             | 177,7          | 47,9                | 7,8           | 2.167,2      | 104,1   | 193,7              |
| 7.4 Sea transport                           | 63,2             | 33,5                 | 35,7             | 32,3              | 17             | 5,1                 | 2,8           | 232,6        | 14,4    | 3,6                |
| 7.5 Air transport                           | 0                | 0                    | 0                | 0                 | 0              | 0                   | 0             | 0            | 0       | 0                  |
| 7.6 Communications                          | 91,1             | 73,4                 | 41,4             | 27,1              | 48,2           | 8,9                 | 3,3           | 46,9         | 449,6   | 145,8              |
| 8.1 Financial services                      | 1.526,2          | 899,8                | 569,8            | 607,2             | 336,6          | 108,5               | 79            | 2.911,9      | 3.544,2 | 579,4              |
| 9.1 Housing to rent                         | 837,5            | 330                  | 142,1            | 104,2             | 121,5          | 37,8                | 33,5          | 79,9         | 3.849,9 | 2.459,9            |

|                                       |          |         |         |         |         |        |        |         |         |
|---------------------------------------|----------|---------|---------|---------|---------|--------|--------|---------|---------|
| 9.2 Education and health services     | 0        | 0       | 0       | 0       | 0       | 0      | 0      | 0       | 0       |
| 9.4 Domestic and Firm services        | 1.498,9  | 1.011,3 | 433,1   | 142,2   | 362,5   | 89,7   | 72,5   | 908,2   | 978,9   |
| Intermediate inputs                   | 121118,7 | 36297,1 | 25385,4 | 13690,4 | 8668,8  | 1679,6 | 746,2  | 29810,4 | 14688,5 |
| Labor input remuneration              | 9901,2   | 8021,9  | 8783,1  | 5623    | 2785,1  | 846,9  | 1241,3 | 15778,8 | 24424,2 |
| Gross capital remuneration            | 15212,6  | 8328,1  | 3116,7  | 2455,1  | 2868,5  | 1025,3 | 884,9  | 11009,1 | 39216,1 |
| Net indirect taxes                    | 1948,1   | 1286    | 199,5   | 143     | 531,1   | 161,1  | 54,2   | 540,9   | 1541,5  |
| Gross Value Added at Productor Prices | 25113,8  | 16350   | 11899,8 | 8078,1  | 5653,6  | 1872,2 | 2126,2 | 26787,9 | 63640,3 |
| TOTAL OUTPUT                          | 148180,6 | 53933,1 | 37484,7 | 21911,5 | 14853,5 | 3712,9 | 2926,6 | 57139,2 | 79870,3 |

### 1958 SPANISH INPUT-OUTPUT TABLE

| At current millions pesetas                 | 7,1                    | 7.2 & 7.3          | 7,4               | 7,5               | 7,6                 | 8,1             | 9,1                   | 9.2 & 9.3            | 9,4               |
|---|------------------------|--------------------|-------------------|-------------------|---------------------|-----------------|-----------------------|----------------------|-------------------|
|   | Railroad<br>Transports | Land<br>Transports | Sea<br>Transports | Air<br>Transports | Communica-<br>tions | Rent<br>Housing | Financial<br>Services | Personal<br>services | Other<br>Services |
| 0.1 Agriculture and cattle raising          | 5,2                    | 247,8              | 2,4               | 0                 | 0,8                 | 4,7             | 29,7                  | 26,5                 | 177,5             |
| 0.2 Fishing                                 | 0                      | 0                  | 0                 | 0                 | 0                   | 0               | 0                     | 0                    | 0                 |
| 1.1 Energy, unless utilities                | 1938,5                 | 2217,5             | 438,3             | 111,3             | 5,4                 | 71,2            | 296,6                 | 127,5                | 112,2             |
| 1.2 Electric, gas and water utilities       | 307,9                  | 303,1              | 53,9              | 25,1              | 128,1               | 102,8           | 140,9                 | 122,5                | 222,8             |
| 2.1 Metal and non-metallic mining           | 0                      | 0                  | 0                 | 0                 | 0                   | 0               | 0                     | 0                    | 0                 |
| 2.2 Primary transformation of metals        | 0                      | 0                  | 0                 | 0                 | 0                   | 0               | 0                     | 0                    | 0                 |
| 2.3 Nometallic minerals industry            | 0                      | 0                  | 0                 | 0                 | 0                   | 0               | 0                     | 5,6                  | 0,6               |
| 2.4 Chemical industries                     | 55,3                   | 49,1               | 74,4              | 1,9               | 4,1                 | 18,2            | 137,5                 | 450,5                | 453,9             |
| 3.1 Industrial machinery and equipment      | 5,3                    | 5,1                | 4,2               | 0,9               | 13,3                | 2,2             | 20                    | 1,5                  | 49,6              |
| 3.2 Transport equipment                     | 48,2                   | 4.084,2            | 29,5              | 29,5              | 0                   | 0               | 0                     | 1,2                  | 0                 |
| 4.1 Food and tobacco products               | 2,5                    | 33,2               | 1,2               | 0,1               | 0                   | 0               | 0                     | 14,1                 | 1,8               |
| 4.2 Textil mill products                    | 2,7                    | 11,6               | 39,1              | 0,2               | 0,2                 | 0,2             | 0                     | 75,8                 | 5,2               |
| 4.3 Apparel and show                        | 0                      | 5,7                | 0                 | 0                 | 1,4                 | 0               | 0                     | 16,2                 | 39,3              |
| 4.4 Lumber, woods and furnitures            | 17                     | 9,5                | 6,9               | 0,4               | 1,7                 | 0,6             | 0                     | 27,2                 | 14,8              |
| 4.5 Paper products, printing and publishing | 33,4                   | 26                 | 12,1              | 5,3               | 27,7                | 125,6           | 1,4                   | 101,1                | 905,8             |
| 4.6 Rubber and plastics                     | 0,2                    | 0                  | 0,2               | 0                 | 0,3                 | 0               | 0                     | 2,5                  | 1,4               |
| 4.7 Miscellaneous manufacturing             | 0                      | 0                  | 0                 | 0                 | 0                   | 0               | 0                     | 0                    | 0                 |
| 5 Construction                              | 66,4                   | 13,7               | 8                 | 1,3               | 43                  | 39,7            | 718,2                 | 55                   | 90,2              |
| 6.1 Trade services                          | 135,3                  | 430,8              | 43                | 10,6              | 22,4                | 127,3           | 69,8                  | 300,1                | 189,4             |
| 6.2 Hotels, restaurants and bars            |                        | 0                  |                   |                   |                     | 0               |                       | 0                    | 0                 |
| 7.1 Railroad transpot                       | 454,2                  | 140,4              | 29,6              | 2,4               | 4,1                 | 28,3            | 82,3                  | 48                   | 24,3              |
| 7.2 Land transport                          | 187,3                  | 478                | 46,4              | 20,8              | 84,2                | 18,6            | 47,7                  | 37,4                 | 89,4              |

|                                       |         |         |        |        |        |         |         |         |         |
|---------------------------------------|---------|---------|--------|--------|--------|---------|---------|---------|---------|
| 7.4 Sea transport                     | 12,5    | 67      | 684,4  | 1,5    | 8,2    | 2,3     | 30      | 2       | 1,1     |
| 7.5 Air transport                     |         | 0       |        | 14,1   | 23,6   | 0       |         | 0       | 1,9     |
| 7.6 Communications                    | 6,4     | 19,6    | 35,5   | 5,5    | 2,2    | 203,8   | 3,4     | 37,3    | 859,5   |
| 8.1 Financial services                | 170,8   | 800,5   | 423,6  | 39,9   | 14,4   | 1.913,4 | 850,9   | 59,1    | 184,6   |
| 9.1 Housing to rent                   | 187,2   | 315,9   | 73,5   | 5,7    | 173    | 892,8   | 5       | 809     | 2.063,6 |
| 9.2 Education and health services     | 0       | 0       | 0      | 0      | 0      | 0       | 0       | 0       | 0       |
| 9.4 Domestic and Firm services        | 34,2    | 195,9   | 61,3   | 13     | 96,6   | 143,5   | 112,8   | 95      | 794,7   |
| Intermediate inputs                   | 3670,5  | 9454,6  | 2067,5 | 289,5  | 654,7  | 3695,2  | 2546,2  | 2415,1  | 6283,6  |
| Labor input remuneration              | 5844,8  | 10006   | 2587,4 | 314,2  | 2529,1 | 7877,1  | 825,5   | 6814,7  | 16653,8 |
| Gross capital remuneration            | 2269,1  | 7331,9  | 2979,8 | 220,3  | 1374,6 | 18955,5 | 25409,3 | 1491,9  | 3158,3  |
| Net indirect taxes                    | 443     | 4923,2  | 580,7  | 308,3  | 33,3   | 309,4   | 394     | 47      | 939,4   |
| Gross Value Added at Productor Prices | 8113,9  | 17337,9 | 5567,2 | 534,5  | 3903,7 | 26832,6 | 26234,8 | 8306,6  | 19812,1 |
| TOTAL OUTPUT                          | 12227,4 | 31715,7 | 8215,4 | 1132,3 | 4591,7 | 30837,2 | 29175   | 10768,7 | 27035,1 |

### 1958 SPANISH INPUT-OUTPUT TABLE

At current millions pesetas

|   | Intermediate Consumption | Domestic Consumption | Public Consumption | Gross Fixed Capital Formation | Stocks  | Exports | Total Final Demand | Total Resources Consumption |
|---|--------------------------|----------------------|--------------------|-------------------------------|---------|---------|--------------------|-----------------------------|
| 0.1 Agriculture and cattle raising          | 124372,2                 | 57762,5              | 2794,1             | 6531,5                        | 26,8    | 8240,1  | 75355              | 199727,2                    |
| 0.2 Fishing                                 | 1738,9                   | 4679,2               | 216,6              | 0                             | 0       | 78,8    | 4974,6             | 6713,5                      |
| 1.1 Energy, unless utilities                | 17746,1                  | 1801,1               | 361,8              | 0                             | 263,9   | 1676,1  | 4102,9             | 21749                       |
| 1.2 Electric, gas and water utilities       | 10109,5                  | 5921,9               | 1153,9             | 0                             | 0       | 48      | 7123,8             | 17233,3                     |
| 2.1 Metal and non-metallic mining           | 4441,1                   | 85,3                 | 3,7                | 0                             | 406     | 1486,2  | 1981,2             | 6422,3                      |
| 2.2 Primary transformation of metals        | 38180,7                  | 0                    | 0                  | 0                             | 810,2   | 939     | 1749,2             | 39929,9                     |
| 2.3 Nometallic minerals industry            | 10450,5                  | 955,4                | 81,6               | 598,4                         | 147,2   | 180,1   | 1962,7             | 12413,2                     |
| 2.4 Chemical industries                     | 24547,5                  | 9138,2               | 1079,9             | 95,8                          | #VALOR! | 942,3   | 12269,3            | 36816,8                     |
| 3.1 Industrial machinery and equipment      | 12180,7                  | 14477,3              | 8178               | 2784,4                        | 28690,3 | 2430,1  | 40871              | 28690,3                     |
| 3.2 Transport equipment                     | 8589,3                   | 10106,6              | 4810,4             | 3055,5                        | 21368,2 | 2928,2  | 29957,5            | 21368,2                     |
| 4.1 Food and tobacco products               | 45392,4                  | 93625,7              | 3722               | 0                             | 2722,5  | 7324,8  | 107395             | 152787,4                    |
| 4.2 Textil mill products                    | 43040,2                  | 1104,7               | 11874,4            | 1229,2                        | 15505,2 | 779,3   | 58545,4            | 15505,2                     |
| 4.3 Apparel and show                        | 3906,7                   | 210,9                | 31996              | 385,5                         | 34005,9 | 1245,4  | 37912,6            | 34005,9                     |
| 4.4 Lumber, woods and furnitures            | 12064,8                  | 5742,1               | 433,3              | 3200,7                        | 399,4   | 661,5   | 10437              | 22501,8                     |
| 4.5 Paper products, printing and publishing | 10040,6                  | 0                    | 3211,3             | 311,9                         | 5696,5  | 1549,9  | 15737,1            | 5696,5                      |

|                                   |         |         |         |         |         |        |         |         |
|-----------------------------------|---------|---------|---------|---------|---------|--------|---------|---------|
| 4.6 Rubber and plastics           | 1594,1  | 1154,7  | 1545    | 73,2    | 3077,5  | 223,5  | 4671,6  | 3077,5  |
| 4.7 Miscellaneous manufacturing   | 455,6   | 954     | 1099,2  | 172,9   | 2519,7  | 239,4  | 2975,3  | 2519,7  |
| 5 Construction                    | 2864,8  | 2189    | 12038,3 | 40807,9 | 0       | 0      | 55035,2 | 57900   |
| 6.1 Trade services                | 17081,2 | 58680,8 | 1848,3  | 2260    | 0       | 0      | 62789,1 | 79870,3 |
| 6.2 Hotels, restaurants and bars  | 0       |         | 19424,9 |         | 19424,9 |        | 19424,9 | 19424,9 |
| 7.1 Railroad transpot             | 5142,2  | 381,2   | 5376,2  |         | 7406,2  | 1648,8 | 12548,4 | 7406,2  |
| 7.2 Land transport                | 10157,3 | 920,5   | 19816,1 | 0       | 21653,8 | 917,2  | 31811,1 | 21653,8 |
| 7.4 Sea transport                 | 2243,1  | 1003,1  | 263,7   | 140,3   | 0       | 4868   | 6275,1  | 8518,2  |
| 7.5 Air transport                 | 39,6    |         | 604,7   |         | 1132,6  | 46,9   | 1172,2  | 1132,6  |
| 7.6 Communications                | 2373,7  | 1755,7  | 474,1   |         |         |        | 2229,8  | 4603,5  |
| 8.1 Financial services            | 22570,6 | 0       | 2797,1  | 0       | 8266,6  | 5469,5 | 30837,2 | 8266,6  |
| 9.1 Housing to rent               | 14033   |         | 13906,5 |         | 15170,9 | 1264,4 | 29203,9 | 15170,9 |
| 9.2 Education and health services | 0       | 0       | 10789   | 0       | 10789   | 0      | 10789   | 10789   |
| 9.4 Domestic and Firm services    | 10795,3 | 15458,4 | 665,9   | 226,3   | 0       | 55,4   | 16406   | 27201,3 |

1962 SPANISH INPUT-OUTPUT TABLE

|     | At current millions pesetas             | 0.1                            | 1.1                              | 1.2                        | 2.1                    | 2.2                    | 2.3                     | 2.4                  | 3.1                     | 3.2                    |
|-----|---|--------------------------------|----------------------------------|----------------------------|------------------------|------------------------|-------------------------|----------------------|-------------------------|------------------------|
|     |   | Agriculture,<br>Cattle raising | Energy,<br>unless<br>Electricity | Electricity,<br>gas, water | Metal and<br>non metal | Primary<br>transformat | Nonmetallic<br>Minerals | Chemical<br>Industry | Machinery<br>and equip. | Transport<br>equipment |
| 0.1 | Agriculture and cattle raising          | 91505,4                        | 95,8                             | 3,0                        | 45,0                   | 15,2                   | 123,6                   | 1455,0               | 7,4                     | 2,6                    |
| 1.1 | Energy, unless utilities                | 2068,3                         | 3886,0                           | 3087,0                     | 181,1                  | 4416,6                 | 1668,6                  | 1902,8               | 311,5                   | 240,5                  |
| 1.2 | Electric, gas and water utilities       | 1320,0                         | 772,5                            | 311,5                      | 348,2                  | 1888,4                 | 796,8                   | 1455,3               | 577,9                   | 264,1                  |
| 2.1 | Metal and non-metallic mining           | 430,4                          | 9914,4                           | 4,8                        | 0,0                    | 4176,4                 | 1211,5                  | 2188,2               | 17,6                    | 0,0                    |
| 2.2 | Primary transformation of metals        | 58,8                           | 15,0                             | 62,1                       | 5,1                    | 36994,6                | 237,7                   | 278,2                | 18815,4                 | 11524,7                |
| 2.3 | Nometallic minerals industry            | 11,9                           | 6,1                              | 33,3                       | 0,0                    | 182,9                  | 989,4                   | 471,9                | 356,4                   | 260,2                  |
| 2.4 | Chemical industries                     | 8744,1                         | 358,5                            | 39,2                       | 444,1                  | 681,4                  | 399,6                   | 16449,9              | 784,4                   | 378,1                  |
| 3.1 | Industrial machinery and equipment      | 253,5                          | 42,7                             | 115,5                      | 29,9                   | 103,2                  | 74,9                    | 289,8                | 6417,3                  | 4405,8                 |
| 3.2 | Transport equipment                     | 237,2                          | 0,0                              | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 0,0                  | 0,0                     | 11446,1                |
| 4.1 | Food and tobacco products               | 18857,3                        | 4,4                              | 3,8                        | 1,2                    | 4,5                    | 12,8                    | 2521,0               | 1,6                     | 3,1                    |
| 4.2 | Textil mill products                    | 1830,5                         | 26,4                             | 0,0                        | 26,3                   | 9,4                    | 15,3                    | 423,0                | 124,0                   | 195,6                  |
| 4.3 | Apparel and show                        | 86,5                           | 3,6                              | 1,3                        | 2,6                    | 25,0                   | 4,6                     | 18,8                 | 34,4                    | 51,2                   |
| 4.4 | Lumber, woods and furnitures            | 2290,5                         | 48,8                             | 21,0                       | 42,6                   | 16,9                   | 55,2                    | 169,5                | 844,7                   | 1184,1                 |
| 4.5 | Paper products, printing and publishing | 323,4                          | 23,5                             | 88,9                       | 9,2                    | 42,4                   | 781,0                   | 1113,7               | 173,3                   | 61,0                   |
| 4.6 | Rubber and plastics                     | 61,4                           | 15,4                             | 4,9                        | 10,9                   | 27,5                   | 1,4                     | 465,2                | 1230,2                  | 1553,8                 |
| 4.7 | Miscellaneous manufacturing             | 1808,6                         | 481,0                            | 84,4                       | 48,8                   | 4902,7                 | 42,3                    | 106,5                | 334,5                   | 280,4                  |
| 5   | Construction                            | 921,0                          | 23,1                             | 137,1                      | 2,9                    | 110,2                  | 20,1                    | 70,6                 | 56,2                    | 48,2                   |
| 6.1 | Trade services                          | 3852,3                         | 83,9                             | 20,9                       | 71,2                   | 606,3                  | 214,6                   | 731,1                | 1944,0                  | 631,6                  |
| 6.2 | Hotels, restaurants and bars            | 0,0                            | 0,0                              | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 0,0                  | 0,0                     | 0,0                    |
| 7.1 | Railroad transpot                       | 754,8                          | 228,7                            | 85,2                       | 366,9                  | 402,5                  | 227,1                   | 524,3                | 310,0                   | 207,7                  |
| 7.2 | Land transport                          | 1375,3                         | 156,9                            | 103,0                      | 193,3                  | 800,4                  | 469,7                   | 896,8                | 788,8                   | 433,6                  |
| 7.4 | Sea transport                           | 147,7                          | 467,8                            | 22,5                       | 20,5                   | 635,3                  | 304,6                   | 164,0                | 67,8                    | 83,5                   |
| 7.5 | Air transport                           | 0,0                            | 0,0                              | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 0,0                  | 0,0                     | 0,0                    |
| 7.6 | Communications                          | 111,7                          | 78,1                             | 37,5                       | 28,1                   | 43,9                   | 11,6                    | 73,2                 | 57,7                    | 37,8                   |
| 8.1 | Finnancial services                     | 4456,0                         | 1020,3                           | 420,8                      | 602,0                  | 647,8                  | 401,0                   | 1077,0               | 922,2                   | 985,0                  |
| 9.1 | Housing to rent                         | 778,3                          | 160,2                            | 115,3                      | 18,4                   | 268,9                  | 89,6                    | 363,7                | 191,3                   | 364,8                  |
| 10  | Other services                          | 4789,9                         | 560,0                            | 166,7                      | 111,5                  | 307,4                  | 275,4                   | 1390,7               | 883,6                   | 643,1                  |
|     | Intermediate inputs                     | 147074,8                       | 18473,1                          | 4969,7                     | 2609,8                 | 57309,8                | 8428,4                  | 34600,2              | 35252,5                 | 35286,5                |
|     | Labor input remuneration                | 36500,4                        | 6505,0                           | 3572,2                     | 3088,8                 | 7162,5                 | 4975,4                  | 6636,5               | 12836,7                 | 10519,9                |

|                                    |          |         |         |        |         |         |         |         |         |
|------------------------------------|----------|---------|---------|--------|---------|---------|---------|---------|---------|
| Gross capital remuneration         | 145595,5 | 5032,8  | 13790,6 | 2248,3 | 6647,2  | 5280,2  | 11133,5 | 11328,3 | 8855,7  |
| Gross Value Added at Factor Prices | 182095,9 | 11537,8 | 17362,8 | 5337,1 | 13809,7 | 10255,6 | 17770,0 | 24165,0 | 19375,6 |
| Net indirect taxes                 | 1522,0   | 422,8   | 1433,8  | 355,6  | 1721,5  | 735,9   | 1007,0  | 889,8   | 484,4   |
| Gross Value Added at market prices | 183617,9 | 11960,6 | 18796,6 | 5692,7 | 15531,2 | 10991,5 | 18777,0 | 25054,8 | 19860,0 |
| TOTAL OUTPUT                       | 330692,7 | 30433,7 | 23766,3 | 8302,5 | 72841,0 | 19419,9 | 53377,2 | 60307,3 | 55146,5 |

### 1962 SPANISH INPUT-OUTPUT TABLE

|   | At current millions pesetas |                      |                  |                   |                |                     |               |              |        |                    |
|---|-----------------------------|----------------------|------------------|-------------------|----------------|---------------------|---------------|--------------|--------|--------------------|
|   | 4.1                         | 4.2                  | 4.3              | 4.4               | 4.5            | 4.6                 | 4.7           | 5            | 6.1    | 6.2                |
|   | Food and tobacco            | Textil mill products | Apparel and show | Lumber, woods ... | Paper products | Rubber and plastics | Miscellaneous | Construction | Trade  | Hotels, restaurant |
| 0.1 Agriculture and cattle raising          | 112197,9                    | 11208,2              | 46,0             | 5947,7            | 666,2          | 2,3                 | 16,0          | 38,0         | 51,5   | 154,4              |
| 1.1 Energy, unless utilities                | 849,1                       | 426,4                | 24,7             | 41,2              | 246,9          | 80,7                | 35,4          | 697,5        | 189,5  | 387,1              |
| 1.2 Electric, gas and water utilities       | 907,3                       | 859,0                | 155,2            | 212,9             | 517,8          | 208,6               | 89,4          | 361,1        | 645,5  | 798,1              |
| 2.1 Metal and non-metallic mining           | 68,7                        | 0,2                  | 0,6              | 0,0               | 18,5           | 23,2                | 0,5           | 796,9        | 2,8    | 0,0                |
| 2.2 Primary transformation of metals        | 1247,3                      | 18,3                 | 3,9              | 111,1             | 33,5           | 50,2                | 1122,8        | 5216,7       | 0,0    | 0,0                |
| 2.3 Nometallic minerals industry            | 510,2                       | 0,7                  | 15,2             | 60,7              | 4,7            | 3,9                 | 144,1         | 15094,4      | 0,0    | 259,2              |
| 2.4 Chemical industries                     | 1616,4                      | 5702,3               | 482,7            | 644,9             | 762,9          | 3273,5              | 87,8          | 1788,5       | 1077,7 | 678,9              |
| 3.1 Industrial machinery and equipment      | 790,4                       | 30,5                 | 217,6            | 593,1             | 18,6           | 82,5                | 3534,7        | 6673,4       | 35,4   | 225,0              |
| 3.2 Transport equipment                     | 0,0                         | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 286,1         | 0,0          | 0,0    | 0,0                |
| 4.1 Food and tobacco products               | 44996,1                     | 40,5                 | 2565,6           | 30,7              | 14,6           | 137,5               | 10,4          | 81,5         | 2,0    | 2,3                |
| 4.2 Textil mill products                    | 1300,4                      | 45264,5              | 21458,4          | 331,1             | 86,6           | 1037,0              | 182,9         | 109,0        | 284,2  | 206,3              |
| 4.3 Apparel and show                        | 54,8                        | 342,7                | 4149,8           | 133,8             | 11,5           | 1,7                 | 148,1         | 5,3          | 0,0    | 0,0                |
| 4.4 Lumber, woods and furnitures            | 836,6                       | 50,5                 | 103,0            | 6671,0            | 3,1            | 12,2                | 256,6         | 5094,4       | 185,0  | 167,5              |
| 4.5 Paper products, printing and publishing | 1246,2                      | 134,2                | 278,0            | 16,1              | 10609,4        | 115,3               | 119,1         | 355,2        | 775,4  | 282,3              |
| 4.6 Rubber and plastics                     | 83,6                        | 181,0                | 860,5            | 270,0             | 23,4           | 2597,2              | 300,3         | 363,3        | 17,2   | 123,1              |
| 4.7 Miscellaneous manufacturing             | 235,2                       | 878,4                | 72,9             | 86,7              | 689,8          | 457,4               | 499,7         | 81,0         | 34,1   | 38,4               |
| 5 Construction                              | 223,4                       | 69,5                 | 38,8             | 24,8              | 29,2           | 13,8                | 23,5          | 0,0          | 414,3  | 461,2              |
| 6.1 Trade services                          | 2083,0                      | 1908,9               | 2267,9           | 407,6             | 476,6          | 191,4               | 169,4         | 2569,4       | 5715,6 | 1807,6             |
| 6.2 Hotels, restaurants and bars            | 0,0                         | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 0,0           | 0,0          | 0,0    | 0,0                |
| 7.1 Railroad transpot                       | 834,3                       | 400,9                | 61,5             | 217,4             | 320,6          | 139,9               | 283,3         | 483,0        | 93,9   | 221,5              |
| 7.2 Land transport                          | 2763,7                      | 918,0                | 213,1            | 1298,4            | 291,9          | 169,7               | 190,2         | 2940,0       | 157,2  | 422,5              |
| 7.4 Sea transport                           | 85,0                        | 33,1                 | 36,3             | 384,3             | 248,4          | 9,3                 | 234,9         | 233,3        | 8,6    | 4,9                |
| 7.5 Air transport                           | 0,0                         | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 0,0           | 0,0          | 0,0    | 1,6                |
| 7.6 Communications                          | 138,0                       | 114,9                | 47,1             | 46,0              | 81,3           | 18,9                | 14,6          | 77,5         | 764,3  | 304,6              |
| 8.1 Finnancial services                     | 2081,2                      | 1590,4               | 613,7            | 702,5             | 593,0          | 277,1               | 153,6         | 3547,0       | 4922,4 | 1210,0             |

|     |                                    |          |          |         |         |         |         |         |         |          |         |
|-----|------------------------------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| 9.1 | Housing to rent                    | 1107,7   | 477,4    | 356,9   | 174,0   | 208,0   | 88,9    | 224,1   | 116,6   | 5003,8   | 5137,6  |
| 10  | Other services                     | 2748,1   | 2029,2   | 827,2   | 333,1   | 578,1   | 303,8   | 149,1   | 2521,1  | 2078,9   | 1059,9  |
|     | Intermediate inputs                | 179004,6 | 72679,8  | 34896,6 | 18739,1 | 16535,2 | 9296,0  | 8276,6  | 49244,1 | 22459,3  | 13954,0 |
|     | Labor input remuneration           | 9739,6   | 14016,2  | 6796,9  | 5148,7  | 4356,7  | 2242,6  | 4122,0  | 23184,4 | 13666,6  | 7866,9  |
|     | Gross capital remuneration         | 23467,7  | 15200,6  | 9313,0  | 6231,4  | 4427,4  | 3513,4  | 4203,3  | 11003,4 | 67089,9  | 17787,6 |
|     | Gross Value Added at Factor Prices | 33207,3  | 29216,8  | 16109,9 | 11380,1 | 8784,1  | 5756,0  | 8325,3  | 34187,8 | 80756,5  | 25654,5 |
|     | Net indirect taxes                 | 6851,4   | 1598,5   | 280,4   | 196,6   | 891,2   | 441,7   | 275,6   | 1238,4  | 18444,5  | 337,5   |
|     | Gross Value Added at market prices | 40058,7  | 30815,3  | 16390,3 | 11576,7 | 9675,3  | 6197,7  | 8600,9  | 35426,2 | 99201,0  | 25992,0 |
|     | TOTAL OUTPUT                       | 219063,3 | 103495,1 | 51286,9 | 30315,8 | 26210,5 | 15493,7 | 16877,5 | 84670,3 | 121660,3 | 39946,0 |

**1962 SPANISH INPUT-OUTPUT TABLE**

At current millions pesetas

|   | 7.1                | 7.2 & 7.3      | 7.4           | 7.5           | 7.6             | 8                   | 9.1             | 10             |
|---|--------------------|----------------|---------------|---------------|-----------------|---------------------|-----------------|----------------|
|   | Railroad Transport | Land transport | Sea transport | Air Transport | Communica-Tinos | Finnancial Services | Housing to rent | Other services |
| 0.1 Agriculture and cattle raising          | 4,8                | 530,5          | 1,6           | 0,0           | 0,8             | 6,2                 | 118,4           | 374,9          |
| 1.1 Energy, unless utilities                | 1848,8             | 3756,8         | 833,0         | 511,7         | 8,6             | 90,6                | 405,0           | 826,3          |
| 1.2 Electric, gas and water utilities       | 336,9              | 413,1          | 11,4          | 3,1           | 187,1           | 161,0               | 196,1           | 1019,9         |
| 2.1 Metal and non-metallic mining           | 0,0                | 0,0            | 0,0           | 0,0           | 0,0             | 0,0                 | 0,0             | 0,0            |
| 2.2 Primary transformation of metals        | 0,0                | 0,0            | 0,0           | 0,0           | 0,0             | 0,0                 | 0,0             | 0,0            |
| 2.3 Nometallic minerals industry            | 1,0                | 0,0            | 0,0           | 0,0           | 0,0             | 0,0                 | 0,0             | 21,8           |
| 2.4 Chemical industries                     | 93,1               | 154,1          | 82,8          | 2,6           | 6,5             | 50,6                | 174,5           | 1736,2         |
| 3.1 Industrial machinery and equipment      | 28,2               | 30,1           | 18,3          | 3,1           | 22,5            | 3,4                 | 18,4            | 520,4          |
| 3.2 Transport equipment                     | 162,3              | 7127,3         | 124,0         | 229,0         | 0,0             | 0,0                 | 0,0             | 389,5          |
| 4.1 Food and tobacco products               | 8,1                | 27,8           | 6,6           | 0,1           | 0,0             | 0,0                 | 0,0             | 48,3           |
| 4.2 Textil mill products                    | 43,0               | 23,3           | 45,8          | 0,5           | 0,4             | 0,4                 | 0,0             | 297,0          |
| 4.3 Apparel and show                        | 4,5                | 8,7            | 0,0           | 0,0           | 1,2             | 0,2                 | 0,0             | 46,8           |
| 4.4 Lumber, woods and furnitures            | 342,8              | 25,9           | 14,2          | 3,0           | 13,0            | 24,6                | 0,0             | 137,5          |
| 4.5 Paper products, printing and publishing | 81,4               | 59,7           | 18,9          | 13,2          | 51,2            | 862,0               | 14,3            | 3986,8         |
| 4.6 Rubber and plastics                     | 11,0               | 23,4           | 0,8           | 2,0           | 0,3             | 0,0                 | 0,0             | 190,3          |
| 4.7 Miscellaneous manufacturing             | 4,7                | 7,7            | 5,7           | 1,3           | 16,9            | 3,5                 | 43,1            | 73,0           |
| 5 Construction                              | 114,0              | 35,9           | 4,2           | 1,4           | 60,0            | 121,2               | 950,0           | 1176,2         |
| 6.1 Trade services                          | 690,8              | 6089,0         | 565,1         | 128,4         | 35,8            | 179,5               | 97,9            | 2789,7         |
| 6.2 Hotels, restaurants and bars            | 0,0                | 0,0            | 0,0           | 0,0           | 0,0             | 0,0                 | 0,0             | 0,0            |
| 7.1 Railroad transpot                       | 564,7              | 254,3          | 39,5          | 4,8           | 6,1             | 49,4                | 109,8           | 235,8          |
| 7.2 Land transport                          | 325,7              | 702,4          | 1044,7        | 264,7         | 136,5           | 32,6                | 64,3            | 413,7          |
| 7.4 Sea transport                           | 9,0                | 352,3          | 70,6          | 1,2           | 11,5            | 5,3                 | 24,0            | 90,2           |
| 7.5 Air transport                           | 0,0                | 0,0            | 0,0           | 21,2          | 37,7            | 0,0                 | 0,0             | 108,9          |
| 7.6 Communications                          | 108,9              | 166,5          | 472,1         | 115,8         | 3,5             | 345,9               | 35,7            | 1719,7         |
| 8.1 Finnancial services                     | 368,5              | 1570,5         | 575,0         | 127,4         | 16,7            | 510,2               | 1218,3          | 7495,7         |
| 9.1 Housing to rent                         | 273,0              | 657,1          | 67,5          | 34,8          | 276,8           | 1420,7              | 7,0             | 5965,7         |
| 10 Other services                           | 194,6              | 1238,0         | 592,4         | 238,6         | 186,5           | 357,4               | 380,4           | 5224,5         |
| Intermediate inputs                         | 5619,8             | 23254,4        | 4594,2        | 1707,9        | 1079,6          | 4224,7              | 3857,2          | 34888,8        |
| Labor input remuneration                    | 7383,6             | 11051,7        | 3158,3        | 624,0         | 2537,7          | 11231,1             | 948,1           | 71957,3        |
| Gross capital remuneration                  | 1827,2             | 13884,8        | 3798,5        | 560,3         | 4445,2          | 24955,6             | 45842,0         | 23403,6        |

|                                    |                |                |                |               |               |                |                |                 |
|------------------------------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|-----------------|
| Gross Value Added at Factor Prices | 9210,8         | 24936,5        | 6956,8         | 1184,3        | 6982,9        | 36186,7        | 46790,1        | 95360,9         |
| Net indirect taxes                 | 256,5          | 583,7          | 271,1          | 65,1          | 783,5         | 771,7          | 416,8          | 969,1           |
| Gross Value Added at market prices | 9467,3         | 25520,2        | 7227,9         | 1249,4        | 7766,4        | 36958,4        | 47206,9        | 96330,0         |
| <b>TOTAL OUTPUT</b>                | <b>15087,1</b> | <b>48774,6</b> | <b>11822,1</b> | <b>2957,3</b> | <b>8846,0</b> | <b>41183,1</b> | <b>51064,1</b> | <b>131218,8</b> |

## 1962 SPANISH INPUT-OUTPUT TABLE

At current millions pesetas

|   | Intermediate Consumption | Domestic Consumption | Public Consumption | Private Capital Formation | Public Capital Formation | Stocks  | Exports | Total Final Demand | Total Resources Consumption |
|---|--------------------------|----------------------|--------------------|---------------------------|--------------------------|---------|---------|--------------------|-----------------------------|
| 0.1 Agriculture and cattle raising          | 224618,4                 | 84737,9              | 5229,8             | 543,7                     | 950,3                    | 12282,9 | 19043,0 | 122787,6           | 347406,0                    |
| 1.1 Energy, unless utilities                | 29021,7                  | 2321,1               | 377,4              | 0,0                       | 0,0                      | -293,3  | 2728,4  | 5133,6             | 34155,3                     |
| 1.2 Electric, gas and water utilities       | 14818,2                  | 7664,7               | 1042,7             | 0,0                       | 0,0                      | 0,0     | 240,8   | 8948,2             | 23766,4                     |
| 2.1 Metal and non-metallic mining           | 18854,7                  | 37,9                 | 2,4                | 0,0                       | 0,0                      | 1654,4  | 1752,3  | 3447,0             | 22301,7                     |
| 2.2 Primary transformation of metals        | 75795,4                  | 0,0                  | 0,0                | 0,0                       | 0,0                      | 3304,0  | 2357,7  | 5661,7             | 81457,1                     |
| 2.3 Nometallic minerals industry            | 18428,0                  | 1408,2               | 104,3              | 554,4                     | 0,0                      | -111,3  | 316,9   | 2272,5             | 20700,5                     |
| 2.4 Chemical industries                     | 46695,3                  | 10035,6              | 2754,5             | 0,0                       | 0,0                      | 2519,9  | 2171,7  | 17481,7            | 64177,0                     |
| 3.1 Industrial machinery and equipment      | 24578,2                  | 9921,2               | 173,8              | 44721,5                   | 1829,8                   | 1100,9  | 2186,7  | 59933,9            | 84512,1                     |
| 3.2 Transport equipment                     | 20001,5                  | 11931,5              | 3057,7             | 22672,5                   | 976,7                    | 1423,9  | 1793,3  | 41855,6            | 61857,1                     |
| 4.1 Food and tobacco products               | 69381,8                  | 140137,2             | 6994,3             | 0,0                       | 0,0                      | 3284,9  | 10616,8 | 161033,0           | 230414,8                    |
| 4.2 Textil mill products                    | 73321,3                  | 23672,3              | 1256,3             | 921,8                     | 0,0                      | 3644,9  | 2131,6  | 31626,9            | 104948,2                    |
| 4.3 Apparel and show                        | 5137,1                   | 41746,6              | 2405,7             | 280,6                     | 0,0                      | 910,5   | 1031,4  | 46374,8            | 51511,9                     |
| 4.4 Lumber, woods and furnitures            | 18614,2                  | 5867,7               | 407,2              | 4364,8                    | 456,6                    | 868,4   | 1089,4  | 13054,1            | 31668,3                     |
| 4.5 Paper products, printing and publishing | 21635,1                  | 3792,4               | 1233,0             | 0,0                       | 0,0                      | 690,9   | 1279,4  | 6995,7             | 28630,8                     |
| 4.6 Rubber and plastics                     | 8418,1                   | 6387,8               | 482,3              | 1590,1                    | 12,4                     | 882,5   | 89,0    | 9444,1             | 17862,2                     |
| 4.7 Miscellaneous manufacturing             | 11318,7                  | 5552,3               | 84,3               | 4177,3                    | 776,4                    | 131,3   | 208,7   | 10930,3            | 22249,0                     |
| 5 Construction                              | 5150,8                   | 3166,5               | 276,4              | 57120,4                   | 18956,2                  | 0,0     | 0,0     | 79519,5            | 84670,3                     |
| 6.1 Trade services                          | 36329,5                  | 81269,5              | 1306,4             | 2754,9                    | 0,0                      | 0,0     | 0,0     | 85330,8            | 121660,3                    |
| 6.2 Hotels, restaurants and bars            | 0,0                      | 39946,0              | 0,0                | 0,0                       | 0,0                      | 0,0     | 0,0     | 39946,0            | 39946,0                     |
| 7.1 Railroad transpot                       | 7427,9                   | 3411,4               | 3481,2             | 551,2                     | 0,0                      | 0,0     | 215,4   | 7659,2             | 15087,1                     |
| 7.2 Land transport                          | 17567,1                  | 26424,2              | 2251,6             | 2008,5                    | 0,0                      | 0,0     | 522,6   | 31206,9            | 48774,0                     |
| 7.4 Sea transport                           | 3755,9                   | 1066,7               | 602,6              | 242,9                     | 0,0                      | 0,0     | 6154,1  | 8066,3             | 11822,2                     |
| 7.5 Air transport                           | 169,4                    | 1850,0               | 311,5              | 0,0                       | 0,0                      | 0,0     | 626,4   | 2787,9             | 2957,3                      |
| 7.6 Communications                          | 5054,9                   | 3290,5               | 500,7              | 0,0                       | 0,0                      | 0,0     | 0,0     | 3791,2             | 8846,1                      |
| 8.1 Financial services                      | 38105,3                  | 2975,2               | 0,0                | 0,0                       | 0,0                      | 0,0     | 102,6   | 3077,8             | 41183,1                     |
| 9.1 Housing to rent                         | 23948,1                  | 26083,0              | 1033,0             | 0,0                       | 0,0                      | 0,0     | 0,0     | 27116,0            | 51064,1                     |
| 10 Other services                           | 30169,2                  | 54825,8              | 45790,0            | 401,4                     | 0,0                      | 0,0     | 32,4    | 101049,6           | 131218,8                    |

**1970 SPANISH INPUT-OUTPUT TABLE**

At current millions pesetas

|   | 0.1                               | 1.1                              | 1.2                        | 2.1                    | 2.2                       | 2.3                     | 2.4                  | 3.1                     | 3.2                    |
|---|-----------------------------------|----------------------------------|----------------------------|------------------------|---------------------------|-------------------------|----------------------|-------------------------|------------------------|
|   | Agriculture,<br>Cattle<br>raising | Energy,<br>unless<br>Electricity | Electricity,<br>gas, water | Metal and non<br>metal | Primary<br>transformation | Nonmetallic<br>Minerals | Chemical<br>Industry | Machinery<br>and equip. | Transport<br>equipment |
| 0.1 Agriculture and cattle raising          | 125490,0                          | 17,0                             | 3,0                        | 58,0                   | 11,0                      | 333,0                   | 3329,0               | 18,0                    | 7,0                    |
| 1.1 Energy, unless utilities                | 6970,0                            | 10052,0                          | 17843,0                    | 486,0                  | 10453,0                   | 4299,0                  | 4515,0               | 791,0                   | 476,0                  |
| 1.2 Electric, gas and water utilities       | 3730,0                            | 1048,0                           | 10625,0                    | 654,0                  | 5393,0                    | 3055,0                  | 4113,0               | 2958,0                  | 1274,0                 |
| 2.1 Metal and non-metallic mining           | 1027,0                            | 34491,0                          | 10,0                       | 8,0                    | 12963,0                   | 4205,0                  | 6446,0               | 47,0                    | 0,0                    |
| 2.2 Primary transformation of metals        | 43,0                              | 509,0                            | 120,0                      | 38,0                   | 123669,0                  | 1081,0                  | 1540,0               | 75732,0                 | 22873,0                |
| 2.3 Nometallic minerals industry            | 142,0                             | 11,0                             | 483,0                      | 0,0                    | 1159,0                    | 5776,0                  | 1958,0               | 1026,0                  | 1189,0                 |
| 2.4 Chemical industries                     | 24534,0                           | 975,0                            | 339,0                      | 983,0                  | 2403,0                    | 1378,0                  | 68706,0              | 1757,0                  | 1566,0                 |
| 3.1 Industrial machinery and equipment      | 3435,0                            | 1253,0                           | 659,0                      | 251,0                  | 1420,0                    | 1118,0                  | 1627,0               | 37374,0                 | 16826,0                |
| 3.2 Transport equipment                     | 493,0                             | 84,0                             | 0,0                        | 0,0                    | 8,0                       | 5,0                     | 0,0                  | 0,0                     | 54234,0                |
| 4.1 Food and tobacco products               | 38241,0                           | 13,0                             | 11,0                       | 4,0                    | 15,0                      | 177,0                   | 5810,0               | 27,0                    | 16,0                   |
| 4.2 Textil mill products                    | 2373,0                            | 8,0                              | 0,0                        | 36,0                   | 14,0                      | 124,0                   | 544,0                | 399,0                   | 771,0                  |
| 4.3 Apparel and show                        | 927,0                             | 28,0                             | 31,0                       | 35,0                   | 81,0                      | 25,0                    | 31,0                 | 77,0                    | 238,0                  |
| 4.4 Lumber, woods and furnitures            | 2875,0                            | 283,0                            | 89,0                       | 66,0                   | 64,0                      | 223,0                   | 303,0                | 2049,0                  | 1672,0                 |
| 4.5 Paper products, printing and publishing | 809,0                             | 82,0                             | 410,0                      | 34,0                   | 229,0                     | 2003,0                  | 4078,0               | 1224,0                  | 365,0                  |
| 4.6 Rubber and plastics                     | 1279,0                            | 74,0                             | 56,0                       | 57,0                   | 141,0                     | 95,0                    | 1875,0               | 4002,0                  | 6626,0                 |
| 4.7 Miscellaneous manufacturing             | 31,0                              | 19,0                             | 36,0                       | 16,0                   | 114,0                     | 72,0                    | 162,0                | 1124,0                  | 1179,0                 |
| 5 Construction                              | 2483,0                            | 103,0                            | 391,0                      | 35,0                   | 431,0                     | 370,0                   | 566,0                | 433,0                   | 190,0                  |
| 6.1 Trade services                          | 8028,0                            | 344,0                            | 1893,0                     | 231,0                  | 1951,0                    | 1766,0                  | 2450,0               | 5176,0                  | 1751,0                 |
| 6.2 Hotels, restaurants and bars            | 96,0                              | 45,0                             | 283,0                      | 4,0                    | 384,0                     | 256,0                   | 787,0                | 759,0                   | 261,0                  |
| 7.1 Railroad transpot                       | 983,0                             | 217,0                            | 404,0                      | 108,0                  | 1084,0                    | 1332,0                  | 663,0                | 704,0                   | 260,0                  |
| 7.2 Land transport                          | 4301,0                            | 463,0                            | 1216,0                     | 202,0                  | 2624,0                    | 3509,0                  | 2277,0               | 3074,0                  | 1026,0                 |
| 7.4 Sea transport                           | 357,0                             | 451,0                            | 129,0                      | 44,0                   | 1058,0                    | 649,0                   | 356,0                | 284,0                   | 201,0                  |
| 7.5 Air transport                           | 9,0                               | 3,0                              | 8,0                        | 2,0                    | 43,0                      | 19,0                    | 78,0                 | 44,0                    | 38,0                   |
| 7.6 Communications                          | 225,0                             | 85,0                             | 129,0                      | 52,0                   | 193,0                     | 151,0                   | 410,0                | 313,0                   | 163,0                  |
| 8.1 Financial services                      | 1638,0                            | 690,0                            | 738,0                      | 278,0                  | 730,0                     | 988,0                   | 1291,0               | 1742,0                  | 1097,0                 |
| 9.1 Housing to rent                         | 0,0                               | 0,0                              | 0,0                        | 0,0                    | 0,0                       | 0,0                     | 0,0                  | 0,0                     | 0,0                    |
| 10 Other services                           | 7596,0                            | 1910,0                           | 1979,0                     | 320,0                  | 23558,0                   | 3453,0                  | 11172,0              | 9849,0                  | 7111,0                 |
| Intermediate inputs                         | 238115,0                          | 53258,0                          | 37885,0                    | 4002,0                 | 190193,0                  | 36462,0                 | 125087,0             | 150983,0                | 121410,0               |
| Labor input remuneration                    | 82497,0                           | 12176,0                          | 19542,0                    | 10981,0                | 21729,0                   | 18141,0                 | 20610,0              | 68681,0                 | 31580,0                |
| Gross capital remuneration                  | 226885,0                          | 8496,0                           | 49466,0                    | 9694,0                 | 26639,0                   | 22642,0                 | 39178,0              | 34941,0                 | 14677,0                |

|                                    |                 |                 |                 |                |                 |                |                 |                 |                 |
|------------------------------------|-----------------|-----------------|-----------------|----------------|-----------------|----------------|-----------------|-----------------|-----------------|
| Net indirect taxes                 | -8622,0         | 41724,0         | 4212,0          | 130,0          | 910,0           | 1299,0         | 2811,0          | 3032,0          | -832,0          |
| Gross Value Added at Factor Prices | 300760,0        | 62396,0         | 73220,0         | 20805,0        | 49278,0         | 42082,0        | 62599,0         | 106654,0        | 45425,0         |
| <b>TOTAL OUTPUT</b>                | <b>538875,0</b> | <b>115654,0</b> | <b>111105,0</b> | <b>24807,0</b> | <b>239471,0</b> | <b>78544,0</b> | <b>187686,0</b> | <b>257637,0</b> | <b>166835,0</b> |

**1970 SPANISH INPUT-OUTPUT TABLE**

At current millions pesetas

|   | 4.1              | 4.2                  | 4.3              | 4.4               | 4.5            | 4.6                 | 4.7           | 5            | 6.1      | 6.2                |
|---|------------------|----------------------|------------------|-------------------|----------------|---------------------|---------------|--------------|----------|--------------------|
|   | Food and tobacco | Textil mill products | Apparel and show | Lumber, woods ... | Paper products | Rubber and plastics | Miscellaneous | Construction | Trade    | Hotels, restaurant |
| 0.1 Agriculture and cattle raising          | 259447,0         | 6927,0               | 338,0            | 12324,0           | 2295,0         | 8,0                 | 223,0         | 47,0         | 110,0    | 21222,0            |
| 1.1 Energy, unless utilities                | 2484,0           | 515,0                | 83,0             | 163,0             | 707,0          | 272,0               | 52,0          | 2901,0       | 146,0    | 834,0              |
| 1.2 Electric, gas and water utilities       | 2440,0           | 1840,0               | 554,0            | 657,0             | 1964,0         | 786,0               | 279,0         | 1645,0       | 1917,0   | 3698,0             |
| 2.1 Metal and non-metallic mining           | 352,0            | 0,0                  | 2,0              | 0,0               | 110,0          | 71,0                | 22,0          | 7041,0       | 12,0     | 2,0                |
| 2.2 Primary transformation of metals        | 2717,0           | 13,0                 | 34,0             | 240,0             | 148,0          | 563,0               | 5194,0        | 31831,0      | 0,0      | 0,0                |
| 2.3 Nometallic minerals industry            | 2662,0           | 14,0                 | 55,0             | 802,0             | 33,0           | 39,0                | 655,0         | 56954,0      | 54,0     | 955,0              |
| 2.4 Chemical industries                     | 4036,0           | 15081,0              | 3171,0           | 1163,0            | 3073,0         | 21065,0             | 2071,0        | 4583,0       | 682,0    | 1139,0             |
| 3.1 Industrial machinery and equipment      | 3783,0           | 325,0                | 1334,0           | 1692,0            | 197,0          | 1761,0              | 1651,0        | 25375,0      | 1090,0   | 1452,0             |
| 3.2 Transport equipment                     | 0,0              | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 0,0           | 0,0          | 0,0      | 0,0                |
| 4.1 Food and tobacco products               | 94597,0          | 724,0                | 6586,0           | 53,0              | 71,0           | 313,0               | 60,0          | 146,0        | 18,0     | 61986,0            |
| 4.2 Textil mill products                    | 1110,0           | 63583,0              | 54766,0          | 1149,0            | 270,0          | 2663,0              | 933,0         | 236,0        | 350,0    | 142,0              |
| 4.3 Apparel and show                        | 959,0            | 438,0                | 15416,0          | 264,0             | 85,0           | 67,0                | 187,0         | 88,0         | 448,0    | 921,0              |
| 4.4 Lumber, woods and furnitures            | 1827,0           | 206,0                | 242,0            | 14513,0           | 43,0           | 71,0                | 797,0         | 15641,0      | 1155,0   | 343,0              |
| 4.5 Paper products, printing and publishing | 3820,0           | 540,0                | 1407,0           | 308,0             | 36073,0        | 875,0               | 701,0         | 1539,0       | 5745,0   | 466,0              |
| 4.6 Rubber and plastics                     | 890,0            | 214,0                | 2840,0           | 1163,0            | 170,0          | 4022,0              | 1301,0        | 2095,0       | 1197,0   | 567,0              |
| 4.7 Miscellaneous manufacturing             | 53,0             | 19,0                 | 448,0            | 38,0              | 26,0           | 49,0                | 2762,0        | 83,0         | 137,0    | 78,0               |
| 5 Construction                              | 621,0            | 185,0                | 225,0            | 115,0             | 47,0           | 93,0                | 47,0          | 21,0         | 2718,0   | 1471,0             |
| 6.1 Trade services                          | 4482,0           | 1716,0               | 4878,0           | 841,0             | 947,0          | 1139,0              | 582,0         | 6529,0       | 18730,0  | 6034,0             |
| 6.2 Hotels, restaurants and bars            | 247,0            | 156,0                | 211,0            | 55,0              | 241,0          | 190,0               | 212,0         | 240,0        | 1389,0   | 208,0              |
| 7.1 Railroad transpot                       | 1088,0           | 444,0                | 105,0            | 386,0             | 437,0          | 212,0               | 67,0          | 1115,0       | 250,0    | 287,0              |
| 7.2 Land transport                          | 6814,0           | 1650,0               | 855,0            | 2651,0            | 937,0          | 1275,0              | 420,0         | 8441,0       | 4825,0   | 1494,0             |
| 7.4 Sea transport                           | 293,0            | 94,0                 | 45,0             | 399,0             | 126,0          | 60,0                | 53,0          | 827,0        | 61,0     | 39,0               |
| 7.5 Air transport                           | 28,0             | 13,0                 | 19,0             | 9,0               | 26,0           | 12,0                | 9,0           | 21,0         | 42,0     | 12,0               |
| 7.6 Communications                          | 323,0            | 172,0                | 245,0            | 107,0             | 108,0          | 75,0                | 62,0          | 503,0        | 3260,0   | 1122,0             |
| 8.1 Financial services                      | 1937,0           | 934,0                | 1051,0           | 641,0             | 692,0          | 363,0               | 308,0         | 2137,0       | 7445,0   | 1147,0             |
| 9.1 Housing to rent                         | 0,0              | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 0,0           | 0,0          | 0,0      | 0,0                |
| 10 Other services                           | 10453,0          | 4318,0               | 3642,0           | 1771,0            | 7779,0         | 3656,0              | 2540,0        | 9072,0       | 9844,0   | 6219,0             |
| Intermediate inputs                         | 407463,0         | 100121,0             | 98552,0          | 41504,0           | 56605,0        | 39700,0             | 21188,0       | 179111,0     | 61625,0  | 111838,0           |
| Labor input remuneration                    | 32119,0          | 23105,0              | 34515,0          | 19166,0           | 19393,0        | 11028,0             | 9477,0        | 103241,0     | 80215,0  | 36455,0            |
| Gross capital remuneration                  | 55284,0          | 23205,0              | 31345,0          | 20102,0           | 20202,0        | 15813,0             | 4196,0        | 33494,0      | 202911,0 | 66799,0            |

|                                    |                 |                 |                 |                |                |                |                |                 |                 |                 |
|------------------------------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
| Net indirect taxes                 | 24259,0         | 1398,0          | 885,0           | 638,0          | 671,0          | 847,0          | 423,0          | 2145,0          | 4974,0          | 669,0           |
| Gross Value Added at Factor Prices | 111662,0        | 47708,0         | 66745,0         | 39906,0        | 40266,0        | 27688,0        | 14096,0        | 138880,0        | 288100,0        | 103923,0        |
| <b>TOTAL OUTPUT</b>                | <b>519125,0</b> | <b>147829,0</b> | <b>165297,0</b> | <b>81410,0</b> | <b>96871,0</b> | <b>67388,0</b> | <b>35284,0</b> | <b>317991,0</b> | <b>349725,0</b> | <b>215761,0</b> |

**1970 SPANISH INPUT-OUTPUT TABLE**

At current millions pesetas

|   | 7.1                   | 7.2               | 7.4              | 7.5              | 7.6            | 8                     | 9.1                | 10                |
|---|-----------------------|-------------------|------------------|------------------|----------------|-----------------------|--------------------|-------------------|
|   | Railroad<br>transport | Land<br>transport | Sea<br>transport | Air<br>transport | Communications | Financial<br>Services | Housing to<br>rent | Other<br>services |
| 0.1 Agriculture and cattle raising          | 3,0                   | 244,0             | 134,0            | 56,0             | 2,0            | 11,0                  | 164,0              | 2192,0            |
| 1.1 Energy, unless utilities                | 1453,0                | 15949,0           | 3159,0           | 2125,0           | 51,0           | 195,0                 | 1297,0             | 1549,0            |
| 1.2 Electric, gas and water utilities       | 578,0                 | 552,0             | 16,0             | 21,0             | 387,0          | 1774,0                | 979,0              | 10354,0           |
| 2.1 Metal and non-metallic mining           | 0,0                   | 0,0               | 1,0              | 0,0              | 0,0            | 0,0                   | 0,0                | 2,0               |
| 2.2 Primary transformation of metals        | 0,0                   | 0,0               | 0,0              | 0,0              | 0,0            | 0,0                   | 0,0                | 628,0             |
| 2.3 Nometallic minerals industry            | 17,0                  | 20,0              | 13,0             | 1,0              | 1,0            | 5,0                   | 17,0               | 459,0             |
| 2.4 Chemical industries                     | 97,0                  | 144,0             | 240,0            | 16,0             | 21,0           | 48,0                  | 407,0              | 4289,0            |
| 3.1 Industrial machinery and equipment      | 214,0                 | 160,0             | 92,0             | 28,0             | 217,0          | 97,0                  | 216,0              | 4346,0            |
| 3.2 Transport equipment                     | 1625,0                | 2161,0            | 1170,0           | 2619,0           | 0,0            | 0,0                   | 0,0                | 5522,0            |
| 4.1 Food and tobacco products               | 4,0                   | 21,0              | 566,0            | 375,0            | 1,0            | 2,0                   | 1,0                | 1764,0            |
| 4.2 Textil mill products                    | 49,0                  | 72,0              | 44,0             | 4,0              | 6,0            | 6,0                   | 5,0                | 355,0             |
| 4.3 Apparel and show                        | 48,0                  | 57,0              | 166,0            | 34,0             | 8,0            | 57,0                  | 32,0               | 802,0             |
| 4.4 Lumber, woods and furnitures            | 107,0                 | 138,0             | 51,0             | 12,0             | 14,0           | 92,0                  | 36,0               | 1052,0            |
| 4.5 Paper products, printing and publishing | 130,0                 | 172,0             | 49,0             | 81,0             | 347,0          | 5003,0                | 43,0               | 7800,0            |
| 4.6 Rubber and plastics                     | 41,0                  | 2049,0            | 61,0             | 117,0            | 5,0            | 50,0                  | 47,0               | 2351,0            |
| 4.7 Miscellaneous manufacturing             | 22,0                  | 28,0              | 42,0             | 9,0              | 13,0           | 54,0                  | 28,0               | 1967,0            |
| 5 Construction                              | 225,0                 | 537,0             | 26,0             | 47,0             | 127,0          | 1089,0                | 4861,0             | 10607,0           |
| 6.1 Trade services                          | 440,0                 | 3590,0            | 786,0            | 621,0            | 42,0           | 532,0                 | 381,0              | 4891,0            |
| 6.2 Hotels, restaurants and bars            | 108,0                 | 145,0             | 28,0             | 39,0             | 128,0          | 595,0                 | 0,0                | 2705,0            |
| 7.1 Railroad transpot                       | 535,0                 | 588,0             | 119,0            | 77,0             | 307,0          | 130,0                 | 153,0              | 777,0             |
| 7.2 Land transport                          | 426,0                 | 3939,0            | 5581,0           | 6475,0           | 137,0          | 138,0                 | 351,0              | 5244,0            |
| 7.4 Sea transport                           | 23,0                  | 131,0             | 431,0            | 24,0             | 16,0           | 10,0                  | 18,0               | 424,0             |
| 7.5 Air transport                           | 1,0                   | 6,0               | 2,0              | 18,0             | 252,0          | 53,0                  | 0,0                | 1295,0            |
| 7.6 Communications                          | 175,0                 | 517,0             | 962,0            | 653,0            | 1017,0         | 1504,0                | 176,0              | 2568,0            |
| 8.1 Financial services                      | 293,0                 | 1527,0            | 998,0            | 394,0            | 99,0           | 73354,0               | 1558,0             | 1790,0            |
| 9.1 Housing to rent                         | 0,0                   | 0,0               | 0,0              | 0,0              | 208,0          | 0,0                   | 0,0                | 3292,0            |
| 10 Other services                           | 487,0                 | 11743,0           | 799,0            | 1273,0           | 689,0          | 2144,0                | 1889,0             | 20125,0           |
| Intermediate inputs                         | 7101,0                | 44490,0           | 15536,0          | 15119,0          | 4095,0         | 86943,0               | 12659,0            | 99150,0           |
| Labor input remuneration                    | 13816,0               | 48536,0           | 9909,0           | 8809,0           | 13710,0        | 36672,0               | 8403,0             | 332659,0          |
| Gross capital remuneration                  | 3898,0                | 63212,0           | 6069,0           | 4142,0           | 7077,0         | -5404,0               | 148390,0           | 158538,0          |

|                                    |                |                 |                |                |                |                 |                 |                 |
|------------------------------------|----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
| Net indirect taxes                 | -4571,0        | 659,0           | -640,0         | 67,0           | 2549,0         | 3632,0          | 0,0             | 645,0           |
| Gross Value Added at Factor Prices | 13143,0        | 112407,0        | 15338,0        | 13018,0        | 23336,0        | 34900,0         | 156793,0        | 491842,0        |
| <b>TOTAL OUTPUT</b>                | <b>20244,0</b> | <b>156897,0</b> | <b>30874,0</b> | <b>28137,0</b> | <b>27431,0</b> | <b>121843,0</b> | <b>169452,0</b> | <b>590992,0</b> |

## 1970 SPANISH INPUT-OUTPUT TABLE

At current millions pesetas

|   | Intermediate Consumption | Domestic Consumption | Public Consumption | Gross Capital Formation | Fixed Stocks | Exports | Total Final Demand | Total Resources Consumption |
|---|--------------------------|----------------------|--------------------|-------------------------|--------------|---------|--------------------|-----------------------------|
| 0.1 Agriculture and cattle raising          | 435013                   | 110262,0             | 0,0                | 3320,0                  | 3526,0       | 31112   | 148220             | 583233                      |
| 1.1 Energy, unless utilities                | 89820                    | 28636,0              | 0,0                | 0,0                     | -1742,0      | 10413   | 37307              | 127127                      |
| 1.2 Electric, gas and water utilities       | 63291                    | 46305,0              | 0,0                | 0,0                     | 628,0        | 1000    | 47933              | 111224                      |
| 2.1 Metal and non-metallic mining           | 66812                    | 37,0                 | 0,0                | 0,0                     | 1001,0       | 3334    | 4372               | 71184                       |
| 2.2 Primary transformation of metals        | 266973                   | 0,0                  | 0,0                | 4077,0                  | 6668,0       | 8275    | 19020              | 285993                      |
| 2.3 Nometallic minerals industry            | 74500                    | 4843,0               | 0,0                | 399,0                   | 654,0        | 2762    | 8658               | 83158                       |
| 2.4 Chemical industries                     | 163967                   | 53077,0              | 0,0                | 0,0                     | 10803,0      | 8386    | 72266              | 236233                      |
| 3.1 Industrial machinery and equipment      | 107993                   | 43836,0              | 0,0                | 163093,0                | 3388,0       | 27212   | 237529             | 345522                      |
| 3.2 Transport equipment                     | 67921                    | 41074,0              | 0,0                | 56425,0                 | 6383,0       | 16951   | 120833             | 188754                      |
| 4.1 Food and tobacco products               | 211602                   | 289664,0             | 0,0                | 0,0                     | 4761,0       | 35554   | 329979             | 541581                      |
| 4.2 Textil mill products                    | 130012                   | 18660,0              | 0,0                | 56,0                    | 1185,0       | 6170    | 26071              | 156083                      |
| 4.3 Apparel and show                        | 21550                    | 128764,0             | 0,0                | 1116,0                  | 4363,0       | 12872   | 147115             | 168665                      |
| 4.4 Lumber, woods and furnitures            | 43964                    | 23391                | 0                  | 12330                   | 1947         | 4344    | 42012              | 85976                       |
| 4.5 Paper products, printing and publishing | 74333                    | 25681                | 0                  | 500                     | 1054         | 5994    | 33229              | 107562                      |
| 4.6 Rubber and plastics                     | 33385                    | 31278                | 0                  | 1462                    | 2123         | 3646    | 38509              | 71894                       |
| 4.7 Miscellaneous manufacturing             | 8609                     | 27963                | 0                  | 6715                    | 1554         | 2845    | 39077              | 47686                       |
| 5 Construction                              | 28064                    | 4910                 | 0                  | 283219                  | 0            | 1798    | 289927             | 317991                      |
| 6.1 Trade services                          | 80751                    | 259489               | 0                  | 9485                    | 0            | 0       | 268974             | 349725                      |
| 6.2 Hotels, restaurants and bars            | 9772                     | 205989               | 0                  | 0                       | 0            | 0       | 205989             | 215761                      |
| 7.1 Railroad transpot                       | 12832                    | 6261                 | 0                  | 678                     | 0            | 553     | 7492               | 20324                       |
| 7.2 Land transport                          | 70345                    | 78409                | 0                  | 6635                    | 0            | 7975    | 93019              | 163364                      |
| 7.4 Sea transport                           | 6603                     | 3871                 | 0                  | 885                     | 0            | 19729   | 24485              | 31088                       |
| 7.5 Air transport                           | 2062                     | 18788,0              | 0,0                | 490,0                   | 0,0          | 8747,0  | 28025,0            | 30087,0                     |
| 7.6 Communications                          | 15270                    | 12423,0              | 0,0                | 0,0                     | 0,0          | 878,0   | 13301,0            | 28571,0                     |
| 8.1 Financial services                      | 105860                   | 15172,0              | 0,0                | 543,0                   | 0,0          | 2717,0  | 18432,0            | 124292,0                    |
| 9.1 Housing to rent                         | 3500                     | 165952,0             | 0,0                | 0,0                     | 0,0          | 0,0     | 165952,0           | 169452,0                    |
| 10 Other services                           | 165391,0                 | 179725,0             | 256120,0           | 7860,0                  | 0,0          | 4977,0  | 448682,0           | 614073,0                    |

1975 SPANISH INPUT-OUTPUT TABLE

|   | At current millions pesetas       |                                  |                            |                        |                           |                         |                      |                         |                        |  |
|---|-----------------------------------|----------------------------------|----------------------------|------------------------|---------------------------|-------------------------|----------------------|-------------------------|------------------------|--|
|   | 0.1                               | 1.1                              | 1.2                        | 2.1                    | 2.2                       | 2.3                     | 2.4                  | 3.1                     | 3.2                    |  |
|   | Agriculture,<br>Cattle<br>raising | Energy,<br>unless<br>Electricity | Electricity,<br>gas, water | Metal and non<br>metal | Primary<br>transformation | Nonmetallic<br>Minerals | Chemical<br>Industry | Machinery<br>and equip. | Transport<br>equipment |  |
| 0.1 Agriculture and cattle raising          | 221872                            | 26,0                             | 18,0                       | 101,0                  | 18,0                      | 576,0                   | 4011,0               | 37,0                    | 15,0                   |  |
| 1.1 Energy, unless utilities                | 48973                             | 244925,0                         | 48321,0                    | 1979,0                 | 35901,0                   | 16587,0                 | 24502,0              | 4480,0                  | 1687,0                 |  |
| 1.2 Electric, gas and water utilities       | 8260                              | 2277,0                           | 16112,0                    | 1872,0                 | 13897,0                   | 7922,0                  | 10820,0              | 11210,0                 | 3630,0                 |  |
| 2.1 Metal and non-metallic mining           | 712                               | 119,0                            | 38,0                       | 268,0                  | 31584,0                   | 12970,0                 | 17360,0              | 772,0                   | 4,0                    |  |
| 2.2 Primary transformation of metals        | 117,0                             | 1307,0                           | 395,0                      | 118,0                  | 147899,0                  | 2996,0                  | 2699,0               | 125714,0                | 46937,0                |  |
| 2.3 Nometallic minerals industry            | 315,0                             | 24,0                             | 940,0                      | 0,0                    | 2750,0                    | 41047,0                 | 4197,0               | 2571,0                  | 2041,0                 |  |
| 2.4 Chemical industries                     | 49898                             | 3038,0                           | 708,0                      | 2262,0                 | 3939,0                    | 4014,0                  | 164850,0             | 8336,0                  | 3665,0                 |  |
| 3.1 Industrial machinery and equipment      | 10011,0                           | 2297,0                           | 1497,0                     | 916,0                  | 4919,0                    | 1919,0                  | 3643,0               | 161494,0                | 61217,0                |  |
| 3.2 Transport equipment                     | 966                               | 163,0                            | 222,0                      | 96,0                   | 3225,0                    | 355,0                   | 232,0                | 650,0                   | 87346,0                |  |
| 4.1 Food and tobacco products               | 100523                            | 19,0                             | 15,0                       | 7,0                    | 25,0                      | 366,0                   | 11620,0              | 60,0                    | 25,0                   |  |
| 4.2 Textil mill products                    | 2641                              | 5,0                              | 0,0                        | 81,0                   | 18,0                      | 203,0                   | 1018,0               | 1602,0                  | 2379,0                 |  |
| 4.3 Apparel and show                        | 1132                              | 42,0                             | 42,0                       | 59,0                   | 135,0                     | 80,0                    | 72,0                 | 162,0                   | 762,0                  |  |
| 4.4 Lumber, woods and furnitures            | 2638                              | 159,0                            | 95,0                       | 109,0                  | 115,0                     | 507,0                   | 608,0                | 4616,0                  | 3304,0                 |  |
| 4.5 Paper products, printing and publishing | 1377                              | 140,0                            | 715,0                      | 77,0                   | 436,0                     | 4583,0                  | 9581,0               | 3762,0                  | 898,0                  |  |
| 4.6 Rubber and plastics                     | 3046                              | 135                              | 77                         | 95                     | 316                       | 212                     | 5417                 | 9181                    | 11709                  |  |
| 4.7 Miscellaneous manufacturing             | 66                                | 22                               | 60                         | 22                     | 34976                     | 98                      | 965                  | 7247                    | 2535                   |  |
| 5 Construction                              | 4054                              | 311                              | 610                        | 87                     | 658                       | 645                     | 1011                 | 1132                    | 775                    |  |
| 6.1 Trade services                          | 17343                             | 1211                             | 2620                       | 662                    | 3916                      | 3832                    | 7490                 | 14493                   | 7883                   |  |
| 6.2 Hotels, restaurants and bars            | 268                               | 65                               | 332                        | 12                     | 446                       | 419                     | 1320                 | 1243                    | 573                    |  |
| 7.1 Railroad transpot                       | 1722                              | 508                              | 828                        | 154                    | 2143                      | 1130                    | 1253                 | 1230                    | 626                    |  |
| 7.2 Land transport                          | 10902                             | 1961                             | 2730                       | 590                    | 5840                      | 9939                    | 9783                 | 9793                    | 3765                   |  |
| 7.4 Sea transport                           | 585                               | 1224                             | 1543                       | 125                    | 1998                      | 1730                    | 1412                 | 1057                    | 471                    |  |
| 7.5 Air transport                           | 31                                | 11                               | 20                         | 3                      | 87                        | 53                      | 167                  | 114                     | 89                     |  |
| 7.6 Communications                          | 471                               | 184                              | 303                        | 123                    | 403                       | 359                     | 891                  | 1273                    | 600                    |  |
| 8.1 Financial services                      | 3544                              | 1380                             | 1279                       | 580                    | 1768                      | 2200                    | 2651                 | 5014                    | 2694                   |  |
| 9.1 Housing to rent                         | 594                               | 274                              | 156                        | 16                     | 28                        | 105                     | 646                  | 587                     | 54                     |  |
| 10 Other services                           | 6734                              | 1316                             | 2466                       | 471                    | 3997                      | 2696                    | 16388                | 9769                    | 7519                   |  |
| Intermediate inputs                         | 498.795                           | 263.143                          | 82.142                     | 10.885                 | 301.437                   | 117.543                 | 304.607              | 387.599                 | 253.203                |  |
| Labor input remuneration                    | 0                                 | 0                                | 0                          | 0                      | 0                         | 0                       | 0                    | 0                       | 0                      |  |
| Gross capital remuneration                  | 0                                 | 0                                | 0                          | 0                      | 0                         | 0                       | 0                    | 0                       | 0                      |  |

|                                    |                  |                |                |               |                |                |                |                |                |
|------------------------------------|------------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|
| Net indirect taxes                 | 517              | 94.961         | 4.380          | 1.080         | 5.597          | 4.709          | 12.505         | 22.983         | 12.117         |
| Gross Value Added at Factor Prices | 587.028          | 60.883         | 131.696        | 38.317        | 109.330        | 92.232         | 137.694        | 320.167        | 242.280        |
| <b>TOTAL OUTPUT</b>                | <b>1.085.823</b> | <b>324.026</b> | <b>213.838</b> | <b>49.202</b> | <b>410.767</b> | <b>209.775</b> | <b>442.301</b> | <b>707.766</b> | <b>495.483</b> |

**1975 SPANISH INPUT-OUTPUT TABLE**

At current millions pesetas

|   | 4.1              | 4.2                  | 4.3              | 4.4               | 4.5            | 4.6                 | 4.7           | 5            | 6.1     | 6.2                 |
|---|------------------|----------------------|------------------|-------------------|----------------|---------------------|---------------|--------------|---------|---------------------|
|   | Food and tobacco | Textil mill products | Apparel and show | Lumber, woods ... | Paper products | Rubber and plastics | Miscellaneous | Construction | Trade   | Hotels, restauruant |
| 0.1 Agriculture and cattle raising          | 520298,0         | 8796,0               | 976,0            | 20158,0           | 8595,0         | 416,0               | 670,0         | 253,0        | 218,0   | 46995,0             |
| 1.1 Energy, unless utilities                | 7386,0           | 998,0                | 374,0            | 486,0             | 3432,0         | 1309,0              | 201,0         | 9547,0       | 749,0   | 1936,0              |
| 1.2 Electric, gas and water utilities       | 5406,0           | 3003,0               | 1670,0           | 1905,0            | 3844,0         | 1804,0              | 813,0         | 3456,0       | 6540,0  | 10949,0             |
| 2.1 Metal and non-metallic mining           | 842,0            | 10,0                 | 3,0              | 0,0               | 223,0          | 178,0               | 78,0          | 13657,0      | 23,0    | 4,0                 |
| 2.2 Primary transformation of metals        | 5312,0           | 16,0                 | 94,0             | 390,0             | 351,0          | 1166,0              | 9962,0        | 101691,0     | 0,0     | 0,0                 |
| 2.3 Nometallic minerals industry            | 7414,0           | 156,0                | 117,0            | 1678,0            | 61,0           | 60,0                | 1124,0        | 122608,0     | 159,0   | 2018,0              |
| 2.4 Chemical industries                     | 9912,0           | 29947,0              | 6903,0           | 3723,0            | 8304,0         | 51239,0             | 5841,0        | 15699,0      | 1477,0  | 2570,0              |
| 3.1 Industrial machinery and equipment      | 8458,0           | 1163,0               | 2946,0           | 3448,0            | 1246,0         | 3392,0              | 6978,0        | 87719,0      | 2491,0  | 2475,0              |
| 3.2 Transport equipment                     | 808,0            | 101,0                | 217,0            | 253,0             | 121,0          | 104,0               | 158,0         | 894,0        | 4640,0  | 1579,0              |
| 4.1 Food and tobacco products               | 230457,0         | 683,0                | 11397,0          | 195,0             | 117,0          | 210,0               | 288,0         | 342,0        | 41,0    | 120388,0            |
| 4.2 Textil mill products                    | 1187,0           | 64908,0              | 70070,0          | 1607,0            | 229,0          | 7700,0              | 976,0         | 401,0        | 806,0   | 250,0               |
| 4.3 Apparel and show                        | 314,0            | 439,0                | 38182,0          | 401,0             | 80,0           | 109,0               | 430,0         | 164,0        | 840,0   | 3941,0              |
| 4.4 Lumber, woods and furnitures            | 2827,0           | 260,0                | 940,0            | 30210,0           | 96,0           | 162,0               | 1525,0        | 33725,0      | 2776,0  | 493,0               |
| 4.5 Paper products, printing and publishing | 10665,0          | 640,0                | 3124,0           | 567,0             | 113094,0       | 1616,0              | 1467,0        | 3465,0       | 13786,0 | 1328,0              |
| 4.6 Rubber and plastics                     | 2532             | 271                  | 7124             | 2220              | 568            | 8788                | 1849          | 7463         | 3708    | 1042                |
| 4.7 Miscellaneous manufacturing             | 163              | 60                   | 1922             | 59                | 6143           | 444                 | 8420          | 1436         | 691     | 135                 |
| 5 Construction                              | 1147             | 262                  | 258              | 307               | 122            | 250                 | 133           | 962          | 7363    | 2964                |
| 6.1 Trade services                          | 11881            | 9231                 | 17171            | 3384              | 3290           | 4023                | 2082          | 21264        | 38001   | 13852               |
| 6.2 Hotels, restaurants and bars            | 376              | 237                  | 401              | 167               | 258            | 500                 | 273           | 829          | 4010    | 468                 |
| 7.1 Railroad transpot                       | 2057             | 450                  | 379              | 844               | 917            | 365                 | 192           | 2116         | 436     | 675                 |
| 7.2 Land transport                          | 20408            | 3278                 | 4665             | 9113              | 5470           | 2819                | 1313          | 29941        | 13701   | 4226                |
| 7.4 Sea transport                           | 794              | 100                  | 170              | 1199              | 316            | 161                 | 202           | 3032         | 345     | 51                  |
| 7.5 Air transport                           | 72               | 44                   | 59               | 30                | 36             | 34                  | 16            | 133          | 387     | 57                  |
| 7.6 Communications                          | 742              | 252                  | 492              | 267               | 202            | 202                 | 137           | 1106         | 7368    | 2752                |
| 8.1 Finnacial services                      | 3946             | 2130                 | 2791             | 1757              | 1559           | 949                 | 770           | 5638         | 14705   | 2282                |
| 9.1 Housing to rent                         | 387              | 250                  | 617              | 575               | 229            | 347                 | 86            | 1392         | 160     | 162                 |
| 10 Other services                           | 11920            | 1672                 | 4834             | 1847              | 6389           | 6338                | 2046          | 25605        | 15760   | 11454               |
| Intermediate inputs                         | 867.711          | 129.357              | 177.896          | 86.790            | 165.292        | 94.685              | 48.030        | 494.538      | 141.181 | 235.046             |
| Labor input remuneration                    | 0                | 0                    | 0                | 0                 | 0              | 0                   | 0             | 0            | 0       | 0                   |
| Gross capital remuneration                  | 0                | 0                    | 0                | 0                 | 0              | 0                   | 0             | 0            | 0       | 0                   |
| Net indirect taxes                          | 47.607           | 4.941                | 7.189            | 3.201             | 10.415         | 3.157               | 3.607         | 15.094       | 9.615   | 1.649               |

|                                    |           |         |         |         |         |         |         |         |         |         |
|------------------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Gross Value Added at Factor Prices | 195.446   | 88.088  | 144.594 | 87.534  | 112.652 | 59.892  | 64.880  | 454.376 | 713.514 | 225.440 |
| TOTAL OUTPUT                       | 1.063.157 | 217.445 | 322.490 | 174.324 | 277.944 | 154.577 | 112.910 | 948.914 | 854.695 | 460.486 |

**1975 SPANISH INPUT-OUTPUT TABLE**

At current millions pesetas

|   | 7.1                | 7.2 & 7.3      | 7.4           | 7.5           | 7.6            | 8                  | 9.1             |                |
|---|--------------------|----------------|---------------|---------------|----------------|--------------------|-----------------|----------------|
|   | Railroad transport | Land transport | Sea transport | Air transport | Communications | Financial Services | Housing to rent | Other services |
| 0.1 Agriculture and cattle raising          | 5,0                | 246,0          | 196,0         | 17            | 6              | 79                 | 412             | 8839           |
| 1.1 Energy, unless utilities                | 3301,0             | 46212,0        | 21709,0       | 11084         | 435            | 688                | 2696            | 6517           |
| 1.2 Electric, gas and water utilities       | 1050,0             | 1036,0         | 12,0          | 86            | 496            | 4636               | 2054            | 13012          |
| 2.1 Metal and non-metallic mining           | 0,0                | 0,0            | 1,0           | 0             | 0              | 0                  | 0               | 6              |
| 2.2 Primary transformation of metals        | 0,0                | 0,0            | 0,0           | 0,0           | 0,0            | 0,0                | 0,0             | 526,0          |
| 2.3 Nometallic minerals industry            | 135,0              | 58,0           | 27,0          | 1,0           | 5,0            | 19,0               | 69,0            | 784,0          |
| 2.4 Chemical industries                     | 767,0              | 566,0          | 553,0         | 139           | 52             | 314                | 734             | 22095          |
| 3.1 Industrial machinery and equipment      | 330,0              | 499,0          | 241,0         | 44,0          | 1009,0         | 377,0              | 840,0           | 4440,0         |
| 3.2 Transport equipment                     | 2393,0             | 42727,0        | 2920,0        | 5458,0        | 90             | 90                 | 341             | 14429          |
| 4.1 Food and tobacco products               | 6,0                | 54,0           | 1662,0        | 606,0         | 2              | 3                  | 3               | 6364           |
| 4.2 Textil mill products                    | 47,0               | 42,0           | 96,0          | 9,0           | 8              | 33                 | 21              | 423            |
| 4.3 Apparel and show                        | 60,0               | 68,0           | 174,0         | 65,0          | 18             | 90                 | 48              | 652            |
| 4.4 Lumber, woods and furnitures            | 197,0              | 169,0          | 36,0          | 27,0          | 16             | 127                | 53              | 842            |
| 4.5 Paper products, printing and publishing | 284,0              | 419,0          | 134,0         | 215,0         | 857            | 13204              | 143             | 14394          |
| 4.6 Rubber and plastics                     | 94,0               | 3818           | 95            | 260           | 14             | 193                | 87              | 3066           |
| 4.7 Miscellaneous manufacturing             | 16,0               | 46             | 29            | 11            | 34             | 132                | 62              | 2778           |
| 5 Construction                              | 1810,0             | 836            | 69            | 131           | 412            | 4593               | 12495           | 22573          |
| 6.1 Trade services                          | 830,0              | 8593           | 1339          | 1205          | 129            | 1358               | 854             | 12081          |
| 6.2 Hotels, restaurants and bars            | 215,0              | 373            | 46            | 108           | 198            | 1072               | 28              | 5965           |
| 7.1 Railroad transpot                       | 2245,0             | 1851           | 172           | 120           | 1226           | 289                | 185             | 1990           |
| 7.2 Land transport                          | 385,0              | 5938           | 8363          | 15179         | 332            | 614                | 740             | 9747           |
| 7.4 Sea transport                           | 75,0               | 911            | 712           | 40            | 294            | 53                 | 39              | 658            |
| 7.5 Air transport                           | 10,0               | 21             | 13            | 125           | 812            | 373                | 18              | 2414           |
| 7.6 Communications                          | 255,0              | 1727           | 1200          | 880           | 1596           | 5579               | 289             | 7941           |
| 8.1 Financial services                      | 630,0              | 6445           | 1939          | 1358          | 193            | 13837              | 4177            | 4005           |
| 9.1 Housing to rent                         | 0,0                | 1093           | 510           | 331           | 71             | 1558               | 280             | 5923           |
| 10 Other services                           | 1065,0             | 5710           | 1158          | 1889          | 493            | 9700               | 3691            | 61766          |
| Intermediate inputs                         | 16.205             | 129.458        | 43.406        | 39.388        | 8.798          | 59.011             | 30.359          | 234.230        |
| Labor input remuneration                    | 0                  | 0              | 0             | 0             | 0              | 0                  | 0               | 0              |
| Gross capital remuneration                  | 0                  | 0              | 0             | 0             | 0              | 0                  | 0               | 0              |

|                                    |               |                |               |               |               |                |                |                  |
|------------------------------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|------------------|
| Net indirect taxes                 | 45            | 2.008          | 548           | 455           | 6.971         | 13.041         | 482            | 5189             |
| Gross Value Added at Factor Prices | 39.267        | 221.968        | 38.765        | 26.332        | 67.081        | 83.309         | 313.907        | 1.002.225        |
| <b>TOTAL OUTPUT</b>                | <b>55.472</b> | <b>351.426</b> | <b>82.171</b> | <b>65.720</b> | <b>75.879</b> | <b>142.320</b> | <b>344.266</b> | <b>1.236.455</b> |

## 1975 SPANISH INPUT-OUTPUT TABLE

At current millions pesetas

|   | Intermediate Consumption | Domestic Consumption | Public Consumption | Gross Fixed Capital Formation | Stocks   | Exports | Total Final Demand | Total Resources Consumption |
|---|--------------------------|----------------------|--------------------|-------------------------------|----------|---------|--------------------|-----------------------------|
| 0.1 Agriculture and cattle raising          | 843849,0                 | 248039,0             | 0,0                | 19552,0                       | 10007,0  | 55454,0 | 333052,0           | 1176901,0                   |
| 1.1 Energy, unless utilities                | 546415,0                 | 117608,0             | 0,0                | 0,0                           | -30534,0 | 33192,0 | 120266,0           | 666681,0                    |
| 1.2 Electric, gas and water utilities       | 137772,0                 | 73711,0              | 0,0                | 0,0                           | 803,0    | 676,0   | 75190,0            | 212962,0                    |
| 2.1 Metal and non-metallic mining           | 78852,0                  | 104,0                | 0,0                | 0,0                           | -1396,0  | 4484,0  | 3192,0             | 82044,0                     |
| 2.2 Primary transformation of metals        | 447690,0                 | 0,0                  | 0,0                | 6864,0                        | -6200,0  | 36505,0 | 37169,0            | 484859,0                    |
| 2.3 Nometallic minerals industry            | 190378,0                 | 10971,0              | 0,0                | 1811,0                        | 4356,0   | 15807,0 | 32945,0            | 223323,0                    |
| 2.4 Chemical industries                     | 401545,0                 | 109271,0             | 0,0                | 0,0                           | 21883,0  | 24945,0 | 156099,0           | 557644,0                    |
| 3.1 Industrial machinery and equipment      | 376009,0                 | 120507,0             | 0,0                | 355067,0                      | 12229,0  | 82885,0 | 570688,0           | 946697,0                    |
| 3.2 Transport equipment                     | 170578,0                 | 199769,0             | 0,0                | 96357,0                       | 10039,0  | 57812,0 | 363977,0           | 534555,0                    |
| 4.1 Food and tobacco products               | 485478,0                 | 616661,0             | 0,0                | 0,0                           | 22916,0  | 51569,0 | 691146,0           | 1176624,0                   |
| 4.2 Textil mill products                    | 156760,0                 | 64028,0              | 0,0                | 478,0                         | 6105,0   | 15767,0 | 86378,0            | 243138,0                    |
| 4.3 Apparel and show                        | 48561,0                  | 241838,0             | 0,0                | 2079,0                        | 663,0    | 39954,0 | 284534,0           | 333095,0                    |
| 4.4 Lumber, woods and furnitures            | 86632,0                  | 64657,0              | 0,0                | 24645,0                       | 1513,0   | 9603,0  | 100418,0           | 187050,0                    |
| 4.5 Paper products, printing and publishing | 200971,0                 | 79950,0              | 0,0                | 6581,0                        | 5063,0   | 16175,0 | 107769,0           | 308740,0                    |
| 4.6 Rubber and plastics                     | 73380                    | 63206                | 0                  | 5975                          | 4266     | 17011   | 90458              | 163838                      |
| 4.7 Miscellaneous manufacturing             | 68572                    | 57919                | 0                  | 28803                         | 2723     | 7424    | 96869              | 165441                      |
| 5 Construction                              | 65970                    | 20409                | 0                  | 876014                        | 0        | 1071    | 897494             | 963464                      |
| 6.1 Trade services                          | 210018                   | 614084               | 0                  | 23907                         | 0        | 0       | 637991             | 848009                      |
| 6.2 Hotels, restaurants and bars            | 20202                    | 441554               | 0                  | 0                             | 0        | 0       | 441554             | 461756                      |
| 7.1 Railroad transpot                       | 26103                    | 11659                | 0                  | 2711                          | 0        | 2715    | 17085              | 43188                       |
| 7.2 Land transport                          | 191535                   | 144952               | 0                  | 17169                         | 0        | 13357   | 175478             | 367013                      |
| 7.4 Sea transport                           | 19297                    | 11487                | 0                  | 2603                          | 0        | 43838   | 57928              | 77225                       |
| 7.5 Air transport                           | 5229                     | 44229                | 0                  | 815                           | 0        | 18208   | 63252              | 68481                       |
| 7.6 Communications                          | 37594                    | 39354                | 0                  | 0                             | 0        | 2039    | 41393              | 78987                       |
| 8.1 Finnacial services                      | 90221                    | 49158                | 0                  | 5920                          | 0        | 20829   | 75907              | 166128                      |
| 9.1 Housing to rent                         | 16431                    | 328520               | 0                  | 0                             | 0        | 163     | 328683             | 345114                      |
| 10 Other services                           | 224693                   | 411144               | 588891             | 21007                         | 0        | 5721    | 1026763            | 1251456                     |



**1962 SPANISH INPUT-OUTPUT**

| At 1958 millions pesetas                    | 0.1                           | 0.2     | 1.1                        | 1.2                        | 2.1                    | 2.2                    | 2.3                     | 2.4                  | 3.1                     | 3.2                    |
|---|-------------------------------|---------|----------------------------|----------------------------|------------------------|------------------------|-------------------------|----------------------|-------------------------|------------------------|
|   | Agriculture<br>Cattle raising | Fishing | Energy, not<br>Electricity | Electricity,<br>gas, water | Metal and<br>non metal | Primary<br>transformat | Nonmetallic<br>Minerals | Chemical<br>Industry | Machinery<br>and equip. | Transport<br>equipment |
| 0.1 Agriculture and cattle raising          | 81396,1                       | 2,8     | 85,2                       | 2,7                        | 40,0                   | 13,5                   | 109,9                   | 1289,0               | 6,6                     | 2,3                    |
| 0.2 Fishing                                 | 0,0                           | 0,0     | 0,0                        | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 4,9                  | 0,0                     | 0,0                    |
| 1.1 Energy, unless utilities                | 1074,5                        | 578,7   | 3359,0                     | 2451,8                     | 143,8                  | 3625,0                 | 1325,2                  | 1520,9               | 247,4                   | 191,0                  |
| 1.2 Electric, gas and water utilities       | 1404,9                        | 1,9     | 823,3                      | 332,0                      | 371,1                  | 2012,6                 | 849,2                   | 1551,0               | 615,9                   | 281,5                  |
| 2.1 Metal and non-metallic mining           | 394,9                         | 27,7    | 9738,9                     | 4,7                        | 0,0                    | 4079,2                 | 1184,0                  | 2140,3               | 17,3                    | 0,0                    |
| 2.2 Primary transformation of metals        | 44,0                          | 11,8    | 13,1                       | 54,4                       | 5,0                    | 32651,3                | 208,1                   | 244,9                | 16697,1                 | 10139,4                |
| 2.3 Nometallic minerals industry            | 10,6                          | 1,6     | 6,3                        | 34,2                       | 0,0                    | 186,5                  | 1013,9                  | 480,1                | 361,8                   | 266,0                  |
| 2.4 Chemical industries                     | 8294,1                        | 261,4   | 350,3                      | 38,3                       | 433,9                  | 668,1                  | 390,7                   | 16092,9              | 767,9                   | 369,4                  |
| 3.1 Industrial machinery and equipment      | 122,8                         | 116,8   | 40,3                       | 109,1                      | 28,2                   | 97,4                   | 70,7                    | 273,6                | 6161,4                  | 4228,8                 |
| 3.2 Transport equipment                     | 233,0                         | 0,0     | 0,0                        | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 0,0                  | 0,0                     | 11811,2                |
| 4.1 Food and tobacco products               | 16416,3                       | 1,6     | 3,8                        | 3,3                        | 1,0                    | 3,9                    | 11,1                    | 2250,7               | 1,4                     | 2,7                    |
| 4.2 Textil mill products                    | 975,9                         | 1003,8  | 28,6                       | 0,0                        | 28,5                   | 10,2                   | 16,6                    | 455,3                | 134,5                   | 212,1                  |
| 4.3 Apparel and show                        | 79,9                          | 0,7     | 3,4                        | 1,2                        | 2,4                    | 23,3                   | 4,3                     | 17,5                 | 32,0                    | 47,7                   |
| 4.4 Lumber, woods and furnitures            | 1724,8                        | 73,8    | 38,3                       | 16,5                       | 33,5                   | 13,3                   | 43,3                    | 133,1                | 663,4                   | 929,8                  |
| 4.5 Paper products, printing and publishing | 294,3                         | 5,2     | 21,8                       | 82,3                       | 8,5                    | 39,3                   | 723,7                   | 1031,4               | 160,5                   | 56,5                   |
| 4.6 Rubber and plastics                     | 42,7                          | 13,1    | 14,0                       | 4,5                        | 9,9                    | 25,0                   | 1,3                     | 423,0                | 1122,2                  | 1419,6                 |
| 4.7 Miscellaneous manufacturing             | 1667,3                        | 8,2     | 445,6                      | 78,2                       | 45,2                   | 4637,3                 | 39,2                    | 98,7                 | 309,9                   | 259,8                  |
| 5 Construction                              | 853,3                         | 2,0     | 21,5                       | 127,3                      | 2,7                    | 102,3                  | 18,7                    | 65,6                 | 52,2                    | 44,8                   |
| 6.1 Trade services                          | 3172,1                        | 97,9    | 71,2                       | 17,7                       | 60,4                   | 514,6                  | 182,2                   | 620,6                | 1650,1                  | 536,1                  |
| 6.2 Hotels, restaurants and bars            | 0,0                           | 0,0     | 0,0                        | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 0,0                  | 0,0                     | 0,0                    |
| 7.1 Railroad transpot                       | 640,1                         | 9,3     | 196,7                      | 73,3                       | 315,6                  | 346,3                  | 195,4                   | 451,0                | 266,7                   | 178,7                  |
| 7.2 Land transport                          | 1130,1                        | 27,9    | 132,1                      | 86,7                       | 162,8                  | 673,9                  | 395,5                   | 755,1                | 664,1                   | 365,1                  |
| 7.4 Sea transport                           | 105,9                         | 35,3    | 447,1                      | 21,5                       | 19,6                   | 607,1                  | 291,1                   | 156,7                | 64,8                    | 79,8                   |
| 7.5 Air transport                           | 0,0                           | 0,0     | 0,0                        | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 0,0                  | 0,0                     | 0,0                    |
| 7.6 Communications                          | 77,6                          | 17,6    | 66,6                       | 32,0                       | 23,9                   | 37,4                   | 9,9                     | 62,4                 | 49,2                    | 32,2                   |
| 8.1 Finnacial services                      | 3569,7                        | 310,5   | 888,5                      | 366,4                      | 524,2                  | 564,1                  | 349,2                   | 937,8                | 803,0                   | 857,7                  |
| 9.1 Housing to rent                         | 673,3                         | 24,4    | 143,6                      | 103,4                      | 16,5                   | 241,1                  | 80,3                    | 326,0                | 171,5                   | 327,0                  |
| 9.2 Education and health services           | 0,0                           | 0,0     | 0,0                        | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 0,0                  | 0,0                     | 0,0                    |
| 9.4 Domestic and Firm services              | 1774,9                        | 153,6   | 334,9                      | 61,7                       | 45,2                   | 165,6                  | 162,1                   | 736,0                | 468,2                   | 348,0                  |
| 10 Public services                          | 1572,2                        | 100,4   | 94,0                       | 63,3                       | 38,7                   | 68,5                   | 48,6                    | 322,2                | 204,2                   | 141,9                  |
| Intermediate inputs                         | 127745,3                      | 2888,0  | 17367,9                    | 4166,2                     | 2360,8                 | 51406,9                | 7724,2                  | 32440,8              | 31693,3                 | 33129,0                |

|                            |                 |               |                |                |               |                |                |                |                |                |
|----------------------------|-----------------|---------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|
| Labor input remuneration   | 26164,9         | 4997,4        | 5553,7         | 3049,8         | 2637,1        | 6115,0         | 4247,8         | 5665,9         | 10959,4        | 8981,4         |
| Gross capital remuneration | 125150,0        | 1377,8        | 4373,7         | 11984,5        | 1953,9        | 5776,7         | 4588,7         | 9675,4         | 9844,7         | 7695,9         |
| Net indirect taxes         | 1000,8          | 412,1         | 392,5          | 1331,0         | 330,1         | 1598,1         | 683,2          | 934,8          | 826,0          | 449,7          |
| <b>TOTAL OUTPUT</b>        | <b>280061,0</b> | <b>9675,3</b> | <b>27687,7</b> | <b>20531,6</b> | <b>7281,8</b> | <b>64896,6</b> | <b>17243,8</b> | <b>48716,9</b> | <b>53323,4</b> | <b>50255,9</b> |

### 1962 SPANISH INPUT-OUTPUT

| At 1958 millions pesetas                    | 4.1              | 4.2             | 4.3              | 4.4               | 4.5            | 4.6             | 4.7           | 5            | 6.1    | 6.2                |
|---|------------------|-----------------|------------------|-------------------|----------------|-----------------|---------------|--------------|--------|--------------------|
|   | Food and tobacco | Textil products | Apparel and show | Lumber, woods ... | Paper products | Rubber plastics | Miscellaneous | Construction | Trade  | Hotels, restaurant |
| 0.1 Agriculture and cattle raising          | 97374,9          | 10026,0         | 41,2             | 5296,3            | 593,8          | 2,0             | 11,9          | 33,8         | 45,8   | 137,3              |
| 0.2 Fishing                                 | 2537,7           | 0,0             | 0,0              | 0,0               | 0,0            | 0,0             | 2,4           | 0,0          | 0,0    | 0,0                |
| 1.1 Energy, unless utilities                | 674,4            | 338,7           | 19,6             | 32,7              | 196,1          | 64,1            | 28,1          | 554,3        | 150,5  | 307,4              |
| 1.2 Electric, gas and water utilities       | 967,0            | 915,5           | 165,4            | 226,9             | 551,8          | 222,3           | 95,3          | 384,8        | 687,9  | 850,6              |
| 2.1 Metal and non-metallic mining           | 67,0             | 0,2             | 0,6              | 0,0               | 18,0           | 22,7            | 0,5           | 776,9        | 2,7    | 0,0                |
| 2.2 Primary transformation of metals        | 1169,7           | 16,4            | 3,4              | 97,3              | 29,3           | 43,9            | 998,9         | 4662,5       | 0,0    | 0,0                |
| 2.3 Nometallic minerals industry            | 523,9            | 0,7             | 15,6             | 62,3              | 4,8            | 4,0             | 146,7         | 15460,1      | 0,0    | 266,1              |
| 2.4 Chemical industries                     | 1579,8           | 5572,9          | 472,0            | 630,8             | 745,5          | 3207,5          | 85,8          | 1747,6       | 1053,0 | 663,3              |
| 3.1 Industrial machinery and equipment      | 746,5            | 29,0            | 206,0            | 560,5             | 17,6           | 77,9            | 3356,4        | 6309,4       | 33,4   | 212,4              |
| 3.2 Transport equipment                     | 0,0              | 0,0             | 0,0              | 0,0               | 0,0            | 0,0             | 297,6         | 0,0          | 0,0    | 0,0                |
| 4.1 Food and tobacco products               | 39520,8          | 35,1            | 2404,2           | 26,6              | 12,7           | 122,9           | 9,0           | 70,7         | 1,7    | 2,0                |
| 4.2 Textil mill products                    | 1410,1           | 48972,1         | 23256,5          | 359,0             | 93,9           | 1124,5          | 198,3         | 118,2        | 308,2  | 223,7              |
| 4.3 Apparel and show                        | 51,0             | 319,1           | 3870,0           | 124,6             | 10,7           | 1,6             | 137,9         | 4,9          | 0,0    | 0,0                |
| 4.4 Lumber, woods and furnitures            | 656,9            | 39,7            | 80,9             | 5431,0            | 2,4            | 9,6             | 201,5         | 4021,1       | 145,3  | 131,5              |
| 4.5 Paper products, printing and publishing | 1154,2           | 124,3           | 257,5            | 14,9              | 9926,9         | 106,8           | 110,3         | 335,3        | 718,1  | 261,4              |
| 4.6 Rubber and plastics                     | 76,0             | 164,6           | 786,5            | 245,5             | 21,3           | 2480,2          | 273,1         | 330,4        | 15,6   | 111,9              |
| 4.7 Miscellaneous manufacturing             | 217,9            | 834,3           | 67,5             | 80,3              | 647,3          | 423,8           | 476,7         | 75,0         | 31,6   | 35,6               |
| 5 Construction                              | 207,5            | 64,5            | 36,0             | 23,0              | 27,1           | 12,8            | 21,8          | 0,0          | 384,8  | 428,3              |
| 6.1 Trade services                          | 1768,1           | 1620,3          | 1925,0           | 346,0             | 404,5          | 162,5           | 143,8         | 2181,0       | 4851,5 | 1534,3             |
| 6.2 Hotels, restaurants and bars            | 0,0              | 0,0             | 0,0              | 0,0               | 0,0            | 0,0             | 0,0           | 0,0          | 0,0    | 0,0                |
| 7.1 Railroad transpot                       | 717,7            | 344,9           | 52,9             | 187,0             | 275,8          | 120,4           | 243,7         | 415,5        | 80,8   | 190,6              |
| 7.2 Land transport                          | 2326,9           | 772,9           | 179,4            | 1093,2            | 245,8          | 142,9           | 160,1         | 2475,4       | 132,4  | 355,7              |
| 7.4 Sea transport                           | 81,2             | 31,6            | 34,7             | 367,3             | 237,4          | 8,9             | 224,5         | 223,0        | 8,2    | 4,7                |
| 7.5 Air transport                           | 0,0              | 0,0             | 0,0              | 0,0               | 0,0            | 0,0             | 0,0           | 0,0          | 0,0    | 1,3                |
| 7.6 Communications                          | 117,6            | 97,9            | 40,1             | 39,2              | 69,3           | 16,1            | 12,4          | 66,0         | 651,4  | 259,6              |
| 8.1 Finnacial services                      | 1812,3           | 1384,9          | 534,4            | 611,7             | 516,4          | 241,3           | 133,8         | 3088,6       | 4286,3 | 1053,6             |
| 9.1 Housing to rent                         | 993,0            | 428,0           | 319,9            | 156,0             | 186,5          | 79,7            | 200,9         | 104,5        | 4485,7 | 4605,6             |

|                                   |          |          |         |         |         |         |         |         |          |
|-----------------------------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|
| 9.2 Education and health services | 0,0      | 0,0      | 0,0     | 0,0     | 0,0     | 0,0     | 0,0     | 0,0     | 0,0      |
| 9.4 Domestic and Firm services    | 1240,6   | 1366,3   | 497,9   | 139,0   | 334,4   | 160,2   | 68,0    | 1155,4  | 891,5    |
| 10 Public services                | 835,1    | 198,6    | 135,8   | 111,8   | 107,5   | 70,9    | 44,7    | 750,1   | 675,4    |
| Intermediate inputs               | 158827,8 | 73698,5  | 35403,2 | 16263,0 | 15276,9 | 8929,4  | 7684,0  | 45344,5 | 19641,8  |
| Labor input remuneration          | 8315,2   | 11966,4  | 5802,9  | 4395,7  | 3719,5  | 1914,6  | 3519,2  | 19793,7 | 11667,9  |
| Gross capital remuneration        | 20394,3  | 13209,9  | 8093,3  | 5415,3  | 3847,6  | 3053,3  | 3652,8  | 9562,4  | 58303,6  |
| Net indirect taxes                | 6360,4   | 1483,9   | 260,3   | 182,5   | 827,3   | 410,0   | 255,8   | 1149,6  | 17122,6  |
| TOTAL OUTPUT                      | 193897,7 | 100358,7 | 49559,7 | 26256,6 | 23671,4 | 14307,4 | 15111,9 | 75850,2 | 106735,8 |

### 1962 SPANISH INPUT-OUTPUT

|   | 7.1                    | 7.2 & 7.3          | 7.4               | 7.5               | 7.6               | 8                     | 9.1             | 9.2                     | 9.4                     | 9.4                |
|---|------------------------|--------------------|-------------------|-------------------|-------------------|-----------------------|-----------------|-------------------------|-------------------------|--------------------|
| At 1958 millions pesetas                    | Railroad<br>Transports | Land<br>Transports | Sea<br>Transports | Air<br>Transports | Comunica<br>tions | Financial<br>Services | Rent<br>housing | Education<br>and health | Domestic<br>and firm... | Public<br>services |
| 0.1 Agriculture and cattle raising          | 4,3                    | 471,7              | 1,4               | 0,0               | 0,7               | 5,5                   | 105,3           | 0,0                     | 322,4                   | 10,9               |
| 0.2 Fishing                                 | 0,0                    | 0,0                | 0,0               | 0,0               | 0,0               | 0,0                   | 0,0             | 0,0                     | 0,0                     | 0,0                |
| 1.1 Energy, unless utilities                | 1468,4                 | 3036,3             | 724,2             | 474,2             | 6,8               | 72,0                  | 321,7           | 0,0                     | 288,1                   | 368,1              |
| 1.2 Electric, gas and water utilities       | 359,1                  | 440,3              | 12,1              | 3,3               | 199,4             | 171,6                 | 209,0           | 0,0                     | 378,6                   | 708,4              |
| 2.1 Metal and non-metallic mining           | 0,0                    | 0,0                | 0,0               | 0,0               | 0,0               | 0,0                   | 0,0             | 0,0                     | 0,0                     | 0,0                |
| 2.2 Primary transformation of metals        | 0,0                    | 0,0                | 0,0               | 0,0               | 0,0               | 0,0                   | 0,0             | 0,0                     | 0,0                     | 0,0                |
| 2.3 Nometallic minerals industry            | 1,0                    | 0,0                | 0,0               | 0,0               | 0,0               | 0,0                   | 0,0             | 0,0                     | 9,7                     | 12,7               |
| 2.4 Chemical industries                     | 91,0                   | 150,6              | 80,9              | 2,5               | 6,4               | 49,4                  | 170,5           | 0,0                     | 1561,0                  | 137,0              |
| 3.1 Industrial machinery and equipment      | 26,6                   | 28,4               | 17,3              | 2,9               | 21,2              | 3,2                   | 17,4            | 0,0                     | 125,9                   | 365,5              |
| 3.2 Transport equipment                     | 168,9                  | 7415,0             | 129,0             | 238,2             | 0,0               | 0,0                   | 0,0             | 0,0                     | 11,1                    | 394,1              |
| 4.1 Food and tobacco products               | 7,0                    | 24,1               | 5,7               | 0,1               | 0,0               | 0,0                   | 0,0             | 0,0                     | 39,4                    | 2,5                |
| 4.2 Textil mill products                    | 46,6                   | 25,3               | 49,7              | 0,5               | 0,4               | 0,4                   | 0,0             | 0,0                     | 248,4                   | 73,6               |
| 4.3 Apparel and show                        | 4,2                    | 8,1                | 0,0               | 0,0               | 1,1               | 0,2                   | 0,0             | 0,0                     | 26,2                    | 17,4               |
| 4.4 Lumber, woods and furnitures            | 269,2                  | 20,3               | 11,2              | 2,4               | 10,2              | 19,3                  | 0,0             | 0,0                     | 68,2                    | 39,7               |
| 4.5 Paper products, printing and publishing | 75,4                   | 55,3               | 17,5              | 12,2              | 47,4              | 798,3                 | 13,2            | 0,0                     | 1345,3                  | 2347,6             |
| 4.6 Rubber and plastics                     | 10,0                   | 21,3               | 0,7               | 1,8               | 0,3               | 0,0                   | 0,0             | 0,0                     | 147,6                   | 26,6               |
| 4.7 Miscellaneous manufacturing             | 4,4                    | 7,1                | 5,3               | 1,2               | 15,7              | 3,2                   | 39,9            | 0,0                     | 18,2                    | 49,5               |
| 5 Construction                              | 105,9                  | 33,3               | 3,9               | 1,3               | 55,7              | 112,6                 | 882,2           | 0,0                     | 301,7                   | 790,6              |
| 6.1 Trade services                          | 586,4                  | 5168,5             | 479,7             | 109,0             | 30,4              | 152,4                 | 83,1            | 0,0                     | 803,2                   | 1564,7             |
| 6.2 Hotels, restaurants and bars            | 0,0                    | 0,0                | 0,0               | 0,0               | 0,0               | 0,0                   | 0,0             | 0,0                     | 0,0                     | 0,0                |
| 7.1 Railroad transpot                       | 485,8                  | 218,8              | 34,0              | 4,1               | 5,2               | 42,5                  | 94,5            | 0,0                     | 86,5                    | 116,3              |
| 7.2 Land transport                          | 274,2                  | 591,4              | 879,6             | 222,9             | 114,9             | 27,4                  | 54,1            | 0,0                     | 157,1                   | 191,2              |
| 7.4 Sea transport                           | 8,6                    | 336,7              | 67,5              | 1,1               | 11,0              | 5,1                   | 22,9            | 0,0                     | 2,9                     | 83,3               |
| 7.5 Air transport                           | 0,0                    | 0,0                | 0,0               | 17,8              | 31,7              | 0,0                   | 0,0             | 0,0                     | 4,3                     | 87,3               |

|                                    |                |                |                |               |               |                |                |            |                |                |
|------------------------------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|------------|----------------|----------------|
| 7.6 Communications                 | 92,8           | 141,9          | 402,3          | 98,7          | 3,0           | 294,8          | 30,4           | 0,0        | 1028,5         | 437,0          |
| 8.1 Finnacial services             | 320,9          | 1367,6         | 500,7          | 110,9         | 14,5          | 444,3          | 1060,9         | 0,0        | 381,9          | 6145,2         |
| 9.1 Housing to rent                | 244,7          | 589,1          | 60,5           | 31,2          | 248,1         | 1273,6         | 6,3            | 0,0        | 4260,2         | 1087,9         |
| 9.2 Education and health services  | 0,0            | 0,0            | 0,0            | 0,0           | 0,0           | 0,0            | 0,0            | 0,0        | 0,0            | 0,0            |
| 9.4 Domestic and Firm services     | 105,9          | 353,6          | 433,0          | 108,2         | 99,9          | 230,2          | 119,9          | 0,0        | 2971,0         | 789,3          |
| 10 Public services                 | 42,4           | 566,8          | 26,3           | 72,0          | 42,1          | 44,7           | 163,8          | 0,0        | 286,3          | 0,0            |
| Intermediate inputs                | 4803,5         | 21071,4        | 3942,5         | 1516,8        | 966,3         | 3750,6         | 3395,0         | 0,0        | 14873,7        | 15846,4        |
| Labor input remuneration           | 6303,8         | 9435,4         | 2696,4         | 532,7         | 2166,6        | 9588,6         | 809,4          | 0,0        | 26036,2        | 35397,5        |
| Gross capital remuneration         | 1587,9         | 12066,4        | 3301,0         | 486,9         | 3863,0        | 21687,3        | 39838,4        | 0,0        | 18966,5        | 1372,1         |
| Gross Value Added at Factor Prices | 7891,7         | 21501,8        | 5997,4         | 1019,7        | 6029,6        | 31275,9        | 40647,8        | 0,0        | 45002,7        | 36769,6        |
| Net indirect taxes                 | 238,1          | 541,9          | 251,7          | 60,4          | 727,3         | 716,4          | 386,9          | 0,0        | 899,6          | 0,0            |
| <b>TOTAL OUTPUT</b>                | <b>12933,3</b> | <b>43115,1</b> | <b>10191,6</b> | <b>2596,9</b> | <b>7723,2</b> | <b>35742,9</b> | <b>44429,8</b> | <b>0,0</b> | <b>60776,0</b> | <b>52616,1</b> |

## 1962 SPANISH INPUT-OUTPUT TABLE

At 1958 millions pesetas

|   | Intermediate Consumption | Domestic Consumption | Public Consumption | Gross Fixed Capital Formation | Stocks  | Exports | Total Final Demand | Total Resources Consumption |
|---|--------------------------|----------------------|--------------------|-------------------------------|---------|---------|--------------------|-----------------------------|
| 0.1 Agriculture and cattle raising          | 197433,5                 | 68546,4              | 4381,4             | 1330,9                        | 10891,1 | 16763,2 | 101912,9           | 299346,1                    |
| 0.2 Fishing                                 | 2545,0                   | 6812,1               | 270,0              | 0,0                           | 51,9    | 170,0   | 7303,9             | 9849,0                      |
| 1.1 Energy, unless utilities                | 23642,9                  | 1854,2               | 304,1              | 0,0                           | -232,9  | 2166,9  | 4092,2             | 27705,0                     |
| 1.2 Electric, gas and water utilities       | 15792,6                  | 8168,8               | 1111,3             | 0,0                           |         | 256,6   | 9536,7             | 25329,3                     |
| 2.1 Metal and non-metallic mining           | 18475,6                  | 37,0                 | 2,3                | 0,0                           | 1623,5  | 1708,2  | 3371,0             | 21846,4                     |
| 2.2 Primary transformation of metals        | 67090,5                  |                      |                    | 0,0                           | 2987,6  | 2063,8  | 5050,1             | 72135,0                     |
| 2.3 Nometallic minerals industry            | 18868,7                  | 1441,3               | 106,8              | 568,2                         | -114,3  | 325,4   | 2327,4             | 21196,0                     |
| 2.4 Chemical industries                     | 45674,3                  | 9806,8               | 2691,4             | 0,0                           | 2467,0  | 2121,8  | 17087,0            | 62761,3                     |
| 3.1 Industrial machinery and equipment      | 23406,9                  | 9380,9082            | 167,75558          | 44634,1                       | 1039,4  | 2064,5  | 57284,3            | 80689,7                     |
| 3.2 Transport equipment                     | 20698,2                  | 12382,2              | 3159,9             | 24359,2                       | 1481,4  | 1865,7  | 43247,7            | 63944,8                     |
| 4.1 Food and tobacco products               | 60980,3                  | 122193,3             | 6190,7             | 0,0                           | 2848,8  | 9207,2  | 140438,0           | 201404,5                    |
| 4.2 Textil mill products                    | 79375,1                  | 25647,0              | 1362,3             | 987,7                         | 3952,4  | 2311,4  | 34260,7            | 113635,6                    |
| 4.3 Apparel and show                        | 4789,4                   | 38878,5              | 2240,2             | 261,4                         | 847,8   | 960,4   | 43188,3            | 47977,7                     |
| 4.4 Lumber, woods and furnitures            | 14830,2                  | 4609,6               | 319,7              | 3788,8                        | 681,9   | 855,4   | 10255,5            | 25080,6                     |
| 4.5 Paper products, printing and publishing | 20145,4                  | 3526,8               | 1144,0             | 0,0                           | 639,8   | 1184,8  | 6495,5             | 26640,3                     |
| 4.6 Rubber and plastics                     | 7788,7                   | 5817,3               | 438,6              | 1461,3                        | 818,8   | 80,9    | 8616,6             | 16401,0                     |
| 4.7 Miscellaneous manufacturing             | 10623,8                  | 5179,6               | 78,4               | 4696,6                        | 121,6   | 193,3   | 10268,7            | 20891,4                     |
| 5 Construction                              | 4793,4                   | 2940,7               | 256,7              | 70650,6                       |         |         | 73848,0            | 78631,4                     |
| 6.1 Trade services                          | 30837,4                  | 68983,5              | 1108,9             | 2338,4                        |         |         | 72430,9            | 103268,2                    |
| 6.2 Hotels, restaurants and bars            | 0,0                      | 32675,7              | 0,0                | 0,0                           | 0,0     | 0,0     | 32675,7            | 32675,7                     |
| 7.1 Railroad transpot                       | 6390,1                   | 2934,8               | 2994,8             | 474,2                         |         | 185,3   | 6589,1             | 12979,3                     |
| 7.2 Land transport                          | 14790,9                  | 22248,2              | 1895,8             | 1691,1                        |         | 440,0   | 26275,1            | 41065,9                     |
| 7.4 Sea transport                           | 3589,4                   | 1019,4               | 575,9              | 232,1                         |         | 5881,2  | 7708,6             | 11298,0                     |
| 7.5 Air transport                           | 142,4                    | 1555,5               | 261,9              | 0,0                           |         | 526,7   | 2344,2             | 2486,6                      |
| 7.6 Communications                          | 4307,9                   | 2804,2               | 426,7              | 0,0                           |         |         | 3231,0             | 7538,8                      |
| 8.1 Finnacial services                      | 33181,2                  | 2590,7               |                    | 0,0                           |         | 89,3    | 2680,1             | 35861,3                     |
| 9.1 Housing to rent                         | 21468,5                  | 23382,3              | 926,0              | 0,0                           |         |         | 24308,4            | 45776,9                     |
| 9.2 Education and health services           | 0,0                      | 0,0                  | 0,0                | 0,0                           | 0,0     | 0,0     | 0,0                | 0,0                         |
| 9.4 Domestic and Firm services              | 15806,6                  | 37484,5              | 1132,5             | 498,7                         |         | 25,2    | 39119,4            | 54925,9                     |

|                    |        |        |         |     |         |         |
|--------------------|--------|--------|---------|-----|---------|---------|
| 10 Public services | 7157,6 | 4839,7 | 32055,4 | 0,0 | 36895,1 | 44032,7 |
|--------------------|--------|--------|---------|-----|---------|---------|

| 1970 SPANISH INPUT-OUTPUT TABLE |   | 0.1                            | 0.2     | 1.1                    | 1.2                     | 2.1                 | 2.2                 | 2.3                  | 2.4               | 3.1                  | 3.2                 |
|---------------------------------|---|--------------------------------|---------|------------------------|-------------------------|---------------------|---------------------|----------------------|-------------------|----------------------|---------------------|
| At 1962 millions pesetas        |   | Agriculture and Cattle raising | Fishing | Energy,not Electricity | Electricity, gas, water | Metal and non metal | Primary transformat | Nonmetallic Minerals | Chemical Industry | Machinery and equip. | Transport equipment |
| 0.1                             | Agriculture and cattle raising          | 90653,6                        | 5,7     | 12,2                   | 2,2                     | 41,7                | 7,9                 | 239,3                | 2325,1            | 12,9                 | 5,0                 |
| 0.2                             | Fishing                                 | 0,0                            | 1,8     | 0,0                    | 0,0                     | 0,0                 | 0,0                 | 0,0                  | 59,2              | 0,0                  | 0,0                 |
| 1.1                             | Energy, unless utilities                | 4854,3                         | 1190,8  | 8702,2                 | 15472,1                 | 421,5               | 9063,2              | 3728,1               | 3915,4            | 686,0                | 412,8               |
| 1.2                             | Electric, gas and water utilities       | 3054,3                         | 6,6     | 860,0                  | 8719,0                  | 536,7               | 4425,6              | 2507,0               | 3375,2            | 2427,4               | 1045,5              |
| 2.1                             | Metal and non-metallic mining           | 612,3                          | 44,8    | 27293,9                | 6,4                     | 6,3                 | 9236,7              | 2943,1               | 4411,8            | 33,5                 | 0,0                 |
| 2.2                             | Primary transformation of metals        | 8,6                            | 22,1    | 363,5                  | 80,9                    | 27,1                | 86319,1             | 771,9                | 1066,4            | 52344,1              | 15866,0             |
| 2.3                             | Nometallic minerals industry            | 109,0                          | 4,8     | 8,8                    | 387,1                   | 0,0                 | 928,2               | 4612,2               | 1559,3            | 816,4                | 948,5               |
| 2.4                             | Chemical industries                     | 17368,9                        | 367,5   | 645,7                  | 252,2                   | 772,5               | 1227,9              | 1020,4               | 41449,9           | 1377,6               | 1259,4              |
| 3.1                             | Industrial machinery and equipment      | 2748,5                         | 205,8   | 1078,9                 | 562,0                   | 216,1               | 1222,7              | 962,6                | 1400,9            | 27243,0              | 13156,8             |
| 3.2                             | Transport equipment                     | 0,0                            | 477,8   | 81,4                   | 0,0                     | 0,0                 | 7,8                 | 4,8                  | 0,0               | 0,0                  | 51527,9             |
| 4.1                             | Food and tobacco products               | 28257,6                        | 309,7   | 9,7                    | 8,2                     | 3,0                 | 11,2                | 132,1                | 4603,5            | 20,2                 | 11,9                |
| 4.2                             | Textil mill products                    | 681,1                          | 1472,1  | 7,3                    | 0,0                     | 32,9                | 12,8                | 113,2                | 486,0             | 364,2                | 703,7               |
| 4.3                             | Apparel and show                        | 361,5                          | 282,2   | 20,1                   | 22,2                    | 25,1                | 58,0                | 17,9                 | 22,2              | 55,2                 | 170,5               |
| 4.4                             | Lumber, woods and furnitures            | 2271,8                         | 270,8   | 250,4                  | 78,8                    | 58,4                | 56,6                | 197,3                | 268,1             | 1813,3               | 1479,6              |
| 4.5                             | Paper products, printing and publishing | 629,7                          | 12,7    | 65,1                   | 325,6                   | 27,0                | 181,8               | 1566,5               | 3170,8            | 954,9                | 289,8               |
| 4.6                             | Rubber and plastics                     | 1178,6                         | 156,6   | 77,3                   | 58,5                    | 59,6                | 147,3               | 99,3                 | 1959,0            | 4170,4               | 6882,4              |
| 4.7                             | Miscellaneous manufacturing             | 16,4                           | 11,9    | 17,3                   | 32,8                    | 14,6                | 104,0               | 65,7                 | 147,8             | 1025,2               | 1075,3              |
| 5                               | Construction                            | 1416,6                         | 2,9     | 58,9                   | 223,5                   | 20,0                | 246,4               | 211,5                | 323,6             | 247,5                | 108,6               |
| 6.1                             | Trade services                          | 4116,7                         | 253,7   | 187,3                  | 1030,5                  | 125,8               | 1062,1              | 961,4                | 1333,8            | 2817,8               | 953,2               |
| 6.2                             | Hotels, restaurants and bars            | 52,3                           | 1,7     | 25,3                   | 159,0                   | 2,2                 | 215,7               | 143,8                | 442,2             | 426,4                | 146,6               |
| 7.1                             | Railroad transpot                       | 730,9                          | 34,2    | 168,9                  | 314,4                   | 84,1                | 843,7               | 1036,7               | 516,0             | 547,9                | 202,4               |
| 7.2                             | Land transport                          | 2420,9                         | 455,4   | 309,6                  | 813,2                   | 135,1               | 1754,8              | 2346,7               | 1522,8            | 2055,8               | 686,1               |
| 7.4                             | Sea transport                           | 272,0                          | 37,2    | 390,6                  | 111,7                   | 38,1                | 916,3               | 562,1                | 308,3             | 246,0                | 174,1               |
| 7.5                             | Air transport                           | 4,4                            | 0,6     | 1,7                    | 4,4                     | 1,1                 | 23,8                | 10,5                 | 43,3              | 24,4                 | 21,1                |
| 7.6                             | Communications                          | 97,8                           | 24,4    | 46,2                   | 70,1                    | 28,3                | 104,9               | 82,0                 | 222,7             | 170,0                | 88,6                |
| 8.1                             | Finnacial services                      | 602,8                          | 85,3    | 289,9                  | 310,0                   | 116,8               | 306,7               | 415,1                | 542,3             | 731,8                | 460,8               |
| 9.1                             | Housing to rent                         | 0,0                            | 0,0     | 0,0                    | 0,0                     | 0,0                 | 0,0                 | 0,0                  | 0,0               | 0,0                  | 0,0                 |
| 9.2                             | Education and health services           | 405,1                          | 0,0     | 0,0                    | 0,0                     | 0,0                 | 0,0                 | 0,0                  | 0,0               | 0,0                  | 0,0                 |
| 9.4                             | Domestic and Firm services              | 2388,6                         | 170,9   | 755,4                  | 695,9                   | 93,5                | 9858,9              | 1356,5               | 4578,7            | 4005,3               | 3601,1              |
| 10                              | Public services                         | 243,2                          | 18,5    | 48,3                   | 124,3                   | 36,4                | 133,0               | 95,2                 | 145,8             | 155,2                | 129,0               |
| 11                              | Private households                      | 0,0                            | 0,0     | 0,0                    | 0,0                     | 0,0                 | 0,0                 | 0,0                  | 0,0               | 0,0                  | 0,0                 |
| Intermediate inputs             |   | 165557,3                       | 5928,7  | 41775,9                | 29865,2                 | 2923,7              | 128477,1            | 26202,9              | 80200,1           | 104772,5             | 101407,2            |

|                            |          |         |         |         |         |          |         |          |          |          |
|----------------------------|----------|---------|---------|---------|---------|----------|---------|----------|----------|----------|
| Labor input remuneration   | 40692,0  | 8186,4  | 7214,1  | 11578,4 | 6506,1  | 12874,2  | 10748,3 | 12211,2  | 40692,6  | 18710,7  |
| Gross capital remuneration | 139716,8 | 6312,0  | 5468,2  | 31837,5 | 6239,3  | 17145,5  | 14573,0 | 25215,9  | 22488,9  | 9446,5   |
| Net indirect taxes         | -3390,4  | -44,6   | 16623,1 | 1678,1  | 51,8    | 362,5    | 517,5   | 1119,9   | 1208,0   | -331,5   |
| TOTAL OUTPUT               | 342575,7 | 20382,5 | 71081,4 | 74959,2 | 15720,9 | 158859,4 | 52041,7 | 118747,2 | 169161,9 | 129233,0 |

**1970 SPANISH INPUT-OUTPUT TABLE**

|   | 4.1              | 4.2                  | 4.3              | 4.4               | 4.5            | 4.6                 | 4.7           | 5            | 6.1     | 6.2                 |
|---|------------------|----------------------|------------------|-------------------|----------------|---------------------|---------------|--------------|---------|---------------------|
| At 1962 millions pesetas                    | Food and tobacco | Textil mill products | Apparel and show | Lumber, woods ... | Paper products | Rubber and plastics | Miscellaneous | Construction | Trade   | Hotels, restarurant |
| 0.1 Agriculture and cattle raising          | 182810,7         | 5152,3               | 251,4            | 9011,9            | 1664,7         | 5,7                 | 70,3          | 33,8         | 79,0    | 12845,7             |
| 0.2 Fishing                                 | 4478,4           | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 81,1          | 0,0          | 0,0     | 2186,0              |
| 1.1 Energy, unless utilities                | 2154,3           | 446,7                | 72,0             | 141,4             | 613,2          | 235,9               | 45,1          | 2515,9       | 126,6   | 723,3               |
| 1.2 Electric, gas and water utilities       | 2002,3           | 1509,9               | 454,6            | 539,1             | 1611,7         | 645,0               | 229,0         | 1349,9       | 1573,1  | 3034,6              |
| 2.1 Metal and non-metallic mining           | 225,2            | 0,0                  | 1,3              | 0,0               | 70,4           | 45,4                | 14,1          | 4505,1       | 7,7     | 1,3                 |
| 2.2 Primary transformation of metals        | 1822,0           | 9,3                  | 24,3             | 171,4             | 105,7          | 402,0               | 3396,6        | 22441,6      | 0,0     | 0,0                 |
| 2.3 Nometallic minerals industry            | 2133,7           | 11,2                 | 43,8             | 638,8             | 26,5           | 31,3                | 522,5         | 45627,2      | 43,3    | 765,5               |
| 2.4 Chemical industries                     | 3064,4           | 10141,7              | 2029,8           | 893,2             | 2178,2         | 12471,3             | 1665,6        | 3647,1       | 548,5   | 916,0               |
| 3.1 Industrial machinery and equipment      | 3198,6           | 278,6                | 1034,5           | 1439,3            | 169,6          | 1516,3              | 1255,0        | 21453,6      | 938,5   | 1250,2              |
| 3.2 Transport equipment                     | 0,0              | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 0,0           | 0,0          | 0,0     | 0,0                 |
| 4.1 Food and tobacco products               | 71133,4          | 540,3                | 5134,0           | 39,6              | 53,0           | 233,6               | 45,9          | 109,0        | 13,4    | 46506,2             |
| 4.2 Textil mill products                    | 1013,1           | 57104,8              | 49593,1          | 1048,6            | 246,4          | 2430,4              | 851,5         | 215,4        | 319,4   | 129,6               |
| 4.3 Apparel and show                        | 687,0            | 313,8                | 10906,5          | 189,2             | 60,9           | 48,0                | 134,0         | 63,1         | 321,0   | 659,9               |
| 4.4 Lumber, woods and furnitures            | 1616,8           | 182,3                | 214,2            | 12270,1           | 38,1           | 62,8                | 705,3         | 13841,6      | 1022,1  | 303,5               |
| 4.5 Paper products, printing and publishing | 3033,4           | 428,8                | 1113,1           | 244,6             | 26920,7        | 694,8               | 556,7         | 1218,4       | 4537,5  | 370,0               |
| 4.6 Rubber and plastics                     | 929,9            | 223,6                | 2894,2           | 1215,1            | 177,6          | 3756,6              | 1359,3        | 2182,5       | 1250,7  | 592,4               |
| 4.7 Miscellaneous manufacturing             | 48,3             | 17,3                 | 386,4            | 34,7              | 23,7           | 44,7                | 2090,2        | 75,7         | 125,0   | 71,1                |
| 5 Construction                              | 355,0            | 105,8                | 128,6            | 65,7              | 26,9           | 53,2                | 26,9          | 12,0         | 1553,8  | 840,9               |
| 6.1 Trade services                          | 2440,0           | 934,2                | 2655,6           | 457,8             | 515,5          | 620,1               | 316,8         | 3554,4       | 10196,5 | 3284,9              |
| 6.2 Hotels, restaurants and bars            | 138,8            | 87,6                 | 118,5            | 30,9              | 135,4          | 106,7               | 119,1         | 134,8        | 780,4   | 116,9               |
| 7.1 Railroad transpot                       | 846,8            | 345,6                | 81,7             | 300,4             | 340,1          | 165,0               | 52,1          | 867,8        | 194,6   | 223,4               |
| 7.2 Land transport                          | 4556,9           | 1103,5               | 571,8            | 1772,9            | 626,6          | 852,7               | 280,9         | 5645,0       | 3226,8  | 999,1               |
| 7.4 Sea transport                           | 253,8            | 81,4                 | 39,0             | 345,6             | 109,1          | 52,0                | 45,9          | 716,3        | 52,8    | 33,8                |
| 7.5 Air transport                           | 15,5             | 7,2                  | 10,5             | 5,0               | 14,4           | 6,7                 | 5,0           | 11,6         | 23,3    | 6,7                 |
| 7.6 Communications                          | 175,5            | 93,4                 | 133,1            | 58,1              | 58,7           | 40,7                | 33,7          | 273,3        | 1771,1  | 609,6               |
| 8.1 Finnacial services                      | 813,7            | 392,4                | 441,5            | 269,3             | 290,7          | 152,5               | 129,4         | 897,7        | 3127,6  | 481,9               |
| 9.1 Housing to rent                         | 0,0              | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 0,0           | 0,0          | 0,0     | 0,0                 |
| 9.2 Education and health services           | 154,4            | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0                 | 0,0           | 0,0          | 0,0     | 0,0                 |

|                                       |          |          |          |         |         |         |         |          |          |          |
|---------------------------------------|----------|----------|----------|---------|---------|---------|---------|----------|----------|----------|
| 9.4 Domestic and Firm services        | 4020,6   | 1758,2   | 1450,9   | 663,2   | 3218,4  | 1480,2  | 1005,8  | 2962,1   | 3507,5   | 2004,8   |
| 10 Public services                    | 243,2    | 66,2     | 83,2     | 76,7    | 75,6    | 63,2    | 63,2    | 764,8    | 579,1    | 546,3    |
| 11 Private households                 | 0,0      | 0,0      | 0,0      | 0,0     | 0,0     | 0,0     | 0,0     | 0,0      | 0,0      | 0,0      |
| Intermediate inputs                   | 294365,7 | 81336,0  | 79867,5  | 31922,5 | 39371,8 | 26216,8 | 15101,0 | 135119,6 | 35919,2  | 79503,6  |
| Labor input remuneration              | 19030,1  | 13689,4  | 20449,7  | 11355,6 | 11490,1 | 6533,9  | 5615,0  | 61169,0  | 47526,4  | 21599,1  |
| Gross capital remuneration            | 35582,2  | 14935,3  | 20174,4  | 12938,1 | 13002,5 | 10177,6 | 2700,7  | 21557,6  | 130598,6 | 42993,5  |
| Net indirect taxes                    | 9664,9   | 557,0    | 352,6    | 254,2   | 267,3   | 337,5   | 168,5   | 854,6    | 1981,7   | 266,5    |
| Gross Value Added at Productor Prices | 54612,3  | 28624,7  | 40624,1  | 24293,8 | 24492,6 | 16711,6 | 8315,7  | 82726,5  | 178124,9 | 64592,6  |
| TOTAL OUTPUT                          | 358642,9 | 110517,7 | 120844,2 | 56470,4 | 64131,8 | 43265,8 | 23585,2 | 218700,8 | 216025,9 | 144362,8 |

**TABLA INPUT-OUTPUT DE 1970**

|  | 7.1                    | 7.2&7.3            | 7.4               | 7.5               | 7.6            | 8               | 9.1                   | 9.2                  | 9.3                | 9.4                   |
|--|------------------------|--------------------|-------------------|-------------------|----------------|-----------------|-----------------------|----------------------|--------------------|-----------------------|
| At 1962 millions pesetas               | Railroad<br>Transports | Land<br>Transports | Sea<br>Transports | Air<br>Transports | Communications | Rent<br>Housing | Financial<br>Services | Personal<br>services | Public<br>Services | Private<br>households |
| 0.1 Agriculture and cattle raising     | 2,2                    | 171,7              | 66,8              | 35,2              | 1,4            | 7,2             | 117,8                 | 623,7                | 536,0              | 191,1                 |
| 0.2 Fishing                            | 0,0                    | 3,0                | 24,8              | 4,2               | 0,0            | 0,6             | 0,0                   | 142,6                | 46,5               | 0,0                   |
| 1.1 Energy, unless utilities           | 1260,2                 | 13831,3            | 2733,6            | 1839,2            | 44,2           | 169,1           | 1124,9                | 359,9                | 268,9              | 714,7                 |
| 1.2 Electric, gas and water utilities  | 474,3                  | 453,0              | 13,1              | 17,2              | 317,6          | 1455,8          | 803,4                 | 679,5                | 654,8              | 7162,3                |
| 2.1 Metal and non-metallic mining      | 0,0                    | 0,0                | 0,6               | 0,0               | 0,0            | 0,0             | 0,0                   | 0,6                  | 0,6                | 0,0                   |
| 2.2 Primary transformation of metals   | 0,0                    | 0,0                | 0,0               | 0,0               | 0,0            | 0,0             | 0,0                   | 0,0                  | 160,7              | 287,8                 |
| 2.3 Nometallic minerals industry       | 13,6                   | 16,0               | 10,4              | 0,8               | 0,8            | 4,0             | 13,6                  | 93,0                 | 97,0               | 177,9                 |
| 2.4 Chemical industries                | 78,0                   | 115,8              | 193,0             | 12,9              | 16,9           | 38,6            | 327,3                 | 1682,6               | 970,5              | 333,8                 |
| 3.1 Industrial machinery and equipment | 184,3                  | 137,8              | 79,2              | 24,1              | 186,8          | 76,2            | 186,0                 | 154,1                | 2665,8             | 889,4                 |
| 3.2 Transport equipment                | 1574,9                 | 2094,4             | 1133,9            | 2538,3            | 0,0            | 0,0             | 0,0                   | 0,0                  | 2239,3             | 3105,3                |
| 4.1 Food and tobacco products          | 3,0                    | 15,7               | 422,4             | 279,9             | 0,7            | 1,5             | 0,7                   | 1019,5               | 295,5              | 1,5                   |
| 4.2 Textil mill products               | 44,7                   | 65,7               | 40,2              | 3,7               | 5,5            | 5,5             | 4,6                   | 48,4                 | 234,6              | 41,1                  |
| 4.3 Apparel and show                   | 34,4                   | 40,8               | 118,9             | 24,4              | 5,7            | 40,8            | 22,9                  | 209,2                | 227,1              | 138,3                 |
| 4.4 Lumber, woods and furnitures       | 94,7                   | 122,1              | 45,1              | 10,6              | 12,4           | 81,4            | 31,9                  | 168,1                | 216,8              | 546,0                 |
| 4.5 Paper products                     | 103,2                  | 136,6              | 38,9              | 64,3              | 275,5          | 3972,8          | 34,1                  | 956,1                | 1783,1             | 3449,5                |
| 4.6 Rubber and plastics                | 42,8                   | 2140,4             | 63,7              | 105,1             | 5,2            | 52,2            | 49,1                  | 235,1                | 919,3              | 1246,5                |
| 4.7 Miscellaneous manufacturing        | 20,1                   | 25,5               | 38,3              | 8,2               | 11,9           | 49,3            | 25,5                  | 133,8                | 596,7              | 1051,6                |
| 5 Construction                         | 128,6                  | 307,0              | 14,9              | 26,9              | 72,6           | 622,5           | 2778,8                | 485,9                | 517,9              | 5059,7                |
| 6.1 Trade services                     | 239,5                  | 1954,4             | 427,9             | 338,1             | 22,9           | 289,6           | 207,4                 | 674,0                | 818,2              | 1170,5                |
| 6.2 Hotels, restaurants and bars       | 60,7                   | 81,5               | 15,7              | 21,9              | 71,9           | 334,3           | 0,0                   | 111,2                | 551,2              | 857,4                 |
| 7.1 Railroad transpot                  | 416,4                  | 457,7              | 92,6              | 59,9              | 238,9          | 101,2           | 119,1                 | 55,3                 | 113,6              | 435,9                 |
| 7.2 Land transport                     | 284,9                  | 2634,3             | 3732,4            | 4330,2            | 91,6           | 92,3            | 234,7                 | 214,0                | 363,1              | 2929,8                |
| 7.4 Sea transport                      | 19,9                   | 113,5              | 373,3             | 20,8              | 13,9           | 8,7             | 15,6                  | 13,0                 | 41,6               | 312,7                 |

|                                   |         |          |         |         |         |         |          |         |          |          |
|-----------------------------------|---------|----------|---------|---------|---------|---------|----------|---------|----------|----------|
| 7.5 Air transport                 | 0,6     | 3,3      | 1,1     | 10,0    | 139,8   | 29,4    | 0,0      | 4,4     | 43,8     | 669,9    |
| 7.6 Communications                | 95,1    | 280,9    | 522,6   | 354,8   | 552,5   | 817,1   | 95,6     | 80,4    | 519,9    | 794,8    |
| 8.1 Finnacial services            | 123,1   | 641,5    | 419,3   | 165,5   | 41,6    | 30815,8 | 654,5    | 76,0    | 367,6    | 308,4    |
| 9.1 Housing to rent               | 0,0     | 0,0      | 0,0     | 0,0     | 119,6   | 0,0     | 0,0      | 719,3   | 0,0      | 1173,5   |
| 9.2 Education and health services | 0,0     | 0,0      | 0,0     | 0,0     | 0,0     | 0,0     | 0,0      | 70,6    | 0,0      | 0,0      |
| 9.4 Domestic and Firm services    | 194,7   | 4736,4   | 287,8   | 498,2   | 274,6   | 757,1   | 571,3    | 407,2   | 5914,0   | 1812,6   |
| 10 Public services                | 10,5    | 218,5    | 44,3    | 36,7    | 15,6    | 132,0   | 198,1    | 56,3    | 249,7    | 0,0      |
| 11 Private households             | 0,0     | 0,0      | 0,0     | 0,0     | 0,0     | 0,0     | 0,0      | 0,0     | 0,0      | 0,0      |
| Intermediate inputs               | 5504,4  | 30798,7  | 10955,0 | 10831,0 | 2540,2  | 39955,0 | 7617,1   | 9473,9  | 21414,0  | 34861,9  |
| Labor input remuneration          | 8185,8  | 28757,0  | 5871,0  | 5219,2  | 8123,0  | 21727,7 | 4978,7   | 43764,1 | 56564,8  | 84063,3  |
| Gross capital remuneration        | 2508,8  | 40684,8  | 3906,2  | 2665,9  | 4554,9  | -3478,1 | 95507,5  | 18439,9 | 79827,5  | 3771,6   |
| Net indirect taxes                | -1821,1 | 262,5    | -255,0  | 26,7    | 1015,5  | 1447,0  | 0,0      | -212,0  | 386,9    | 82,1     |
| TOTAL OUTPUT                      | 14377,9 | 100503,0 | 20477,2 | 18742,9 | 16233,7 | 59651,5 | 108103,3 | 71465,9 | 158193,2 | 122778,9 |

#### 1970 SPANISH INPUT-OUTPUT TABLE

| At 1962 millions pesetas                    | Intermediate Consumption | Domestic Consumption | Public Consumption | Gross Fixed Capital Formation |         |         | Exports  | Total Final Demand | Total Resources Consumption |
|---|--------------------------|----------------------|--------------------|-------------------------------|---------|---------|----------|--------------------|-----------------------------|
|   |                          |                      |                    | Stocks                        |         |         |          |                    |                             |
| 0.1 Agriculture and cattle raising          | 306978,3                 | 65659,5              | 0,0                | 2398,2                        | 2319,6  | 21192,7 | 91568,4  | 398543,8           |                             |
| 0.2 Fishing                                 | 7024,4                   | 11972,9              | 0,0                | 0,0                           | 267,7   | 976,4   | 13213,2  | 20237,5            |                             |
| 1.1 Energy, unless utilities                | 77866,7                  | 24835,5              | 0,0                | 0,0                           | -1513,8 | 9031,2  | 32352,9  | 110219,6           |                             |
| 1.2 Electric, gas and water utilities       | 52035,3                  | 37998,5              | 0,0                | 0,0                           | 515,3   | 820,6   | 39334,5  | 91369,7            |                             |
| 2.1 Metal and non-metallic mining           | 49159,7                  | 23,7                 | 0,0                | 0,0                           | 829,0   | 2133,2  | 2951,0   | 52088,4            |                             |
| 2.2 Primary transformation of metals        | 185665,9                 | 0,0                  | 0,0                | 2911,2                        | 4416,7  | 5909,0  | 13219,9  | 198885,7           |                             |
| 2.3 Nometallic minerals industry            | 59645,1                  | 3867,1               | 0,0                | 313,3                         | 519,0   | 2213,9  | 6913,1   | 66558,2            |                             |
| 2.4 Chemical industries                     | 105852,1                 | 42073,3              | 0,0                | 0,0                           | 7373,3  | 6744,4  | 56025,8  | 160730,8           |                             |
| 3.1 Industrial machinery and equipment      | 85497,1                  | 36548,0              | 0,0                | 117422,8                      | 2593,1  | 23430,3 | 179035,0 | 264395,1           |                             |
| 3.2 Transport equipment                     | 64781,9                  | 39104,4              | 0,0                | 53685,3                       | 6242,7  | 16428,6 | 115452,9 | 180234,7           |                             |
| 4.1 Food and tobacco products               | 159196,0                 | 217001,0             | 0,0                | 0,0                           | 3585,7  | 26534,8 | 247121,0 | 406315,0           |                             |
| 4.2 Textil mill products                    | 117316,1                 | 16929,2              | 0,0                | 46,9                          | 1092,9  | 5631,1  | 23699,4  | 141014,5           |                             |
| 4.3 Apparel and show                        | 15280,0                  | 92043,7              | 0,0                | 791,6                         | 3126,3  | 9223,3  | 105184,7 | 120463,7           |                             |
| 4.4 Lumber, woods and furnitures            | 38313,7                  | 20629,2              | 0,0                | 10888,0                       | 1720,6  | 3844,2  | 37082,0  | 75392,6            |                             |
| 4.5 Paper products, printing and publishing | 57108,0                  | 19982,4              | 0,0                | 381,2                         | 751,4   | 4759,8  | 25866,5  | 82971,4            |                             |
| 4.6 Rubber and plastics                     | 34183,4                  | 32511,2              | 0,0                | 1449,6                        | 2151,2  | 3809,4  | 39916,9  | 74097,5            |                             |
| 4.7 Miscellaneous manufacturing             | 7335,9                   | 23963,5              | 0,0                | 5177,8                        | 1316,4  | 2594,9  | 32986,3  | 40321,6            |                             |
| 5 Construction                              | 16043,0                  | 2806,8               | 0,0                | 161904,2                      | 0,0     | 1027,8  | 165738,9 | 181781,9           |                             |

|                                   |         |          |         |        |     |         |          |          |
|-----------------------------------|---------|----------|---------|--------|-----|---------|----------|----------|
| 6.1 Trade services                | 43960,5 | 141264,6 | 0,0     | 5163,6 | 0,0 | 0,0     | 146428,2 | 190388,7 |
| 6.2 Hotels, restaurants and bars  | 5490,2  | 115730,7 | 0,0     | 0,0    | 0,0 | 0,0     | 115730,7 | 121220,9 |
| 7.1 Railroad transpot             | 9987,5  | 4873,1   | 0,0     | 527,7  | 0,0 | 430,4   | 5831,3   | 15881,3  |
| 7.2 Land transport                | 47044,1 | 52437,0  | 0,0     | 4437,2 | 0,0 | 5333,4  | 62207,6  | 109251,7 |
| 7.4 Sea transport                 | 5718,9  | 3352,7   | 0,0     | 766,5  | 0,0 | 17087,3 | 21206,5  | 26925,3  |
| 7.5 Air transport                 | 1143,5  | 10419,3  | 0,0     | 271,7  | 0,0 | 4850,8  | 15541,8  | 16685,3  |
| 7.6 Communications                | 8295,8  | 6749,1   | 0,0     | 0,0    | 0,0 | 477,0   | 7226,1   | 15521,8  |
| 8.1 Finnacial services            | 44471,5 | 6373,7   | 0,0     | 228,1  | 0,0 | 1141,4  | 7743,2   | 52214,8  |
| 9.1 Housing to rent               | 2012,4  | 95418,6  | 0,0     | 0,0    | 0,0 | 0,0     | 95418,6  | 97431,0  |
| 9.2 Education and health services | 630,1   | 17720,8  | 36523,1 | 0,0    | 0,0 | 0,0     | 54243,9  | 54874,0  |
| 9.4 Domestic and Firm services    | 64301,1 | 48705,6  | 0,0     | 3341,3 | 0,0 | 2115,7  | 54162,6  | 118463,7 |
| 10 Public services                | 4652,5  | 2291,2   | 65077,1 | 0,0    | 0,0 | 0,0     | 67368,2  | 72020,7  |
| 11 Private households             | 0,0     | 6756,8   | 0,0     | 0,0    | 0,0 | 0,0     | 6756,8   | 6756,8   |

**TABLA INPUT-OUTPUT DE 1975**

at 1970 millions pesetas

|   | 0                             | 0.2      | 1.1                       | 1.2                        | 2.1                    | 2.2                    | 2.3                     | 2.4                  | 3.1                     | 3.2                    |
|---|-------------------------------|----------|---------------------------|----------------------------|------------------------|------------------------|-------------------------|----------------------|-------------------------|------------------------|
|   | Agriculture<br>Cattle raising | Fishing  | Energy,not<br>Electricity | Electricity,<br>gas, water | Metal and<br>non metal | Primary<br>transformat | Nonmetallic<br>Minerals | Chemical<br>Industry | Machinery<br>and equip. | Transport<br>equipment |
| 0.1 Agriculture and cattle raising          | 133231,6                      | 7,7      | 15,5                      | 10,7                       | 60,2                   | 10,7                   | 343,3                   | 2295,9               | 22,1                    | 9,6                    |
| 0.2 Fishing                                 | 0,0                           | 70,7     | 0,0                       | 0,0                        | 0,0                    | 0,0                    | 0,0                     | 93,3                 | 0,0                     | 0,0                    |
| 1.1 Energy, unless utilities                | 17941,6                       | 4913,7   | 63313,0                   | 20915,3                    | 926,3                  | 15753,9                | 7528,1                  | 10833,7              | 1989,5                  | 787,9                  |
| 1.2 Electric, gas and water utilities       | 5481,5                        | 19,3     | 1516,4                    | 10729,9                    | 1246,7                 | 9254,8                 | 5275,7                  | 7205,6               | 7465,4                  | 2417,4                 |
| 2.1 Metal and non-metallic mining           | 482,7                         | 77,2     | 80,4                      | 25,1                       | 176,8                  | 25681,6                | 9510,5                  | 12745,7              | 515,2                   | 2,6                    |
| 2.2 Primary transformation of metals        | 50,1                          | 28,3     | 869,0                     | 264,3                      | 83,6                   | 100446,7               | 2123,0                  | 1872,8               | 87299,5                 | 32949,0                |
| 2.3 Nometallic minerals industry            | 175,3                         | 9,4      | 14,1                      | 551,0                      | 0,0                    | 1611,9                 | 24069,7                 | 2464,4               | 1521,3                  | 1200,2                 |
| 2.4 Chemical industries                     | 26376,0                       | 216,7    | 1691,3                    | 379,2                      | 1200,4                 | 2086,9                 | 2143,0                  | 90638,7              | 4483,3                  | 1941,7                 |
| 3.1 Industrial machinery and equipment      | 5524,1                        | 324,1    | 1341,4                    | 881,7                      | 534,9                  | 2894,0                 | 1120,7                  | 2127,7               | 97508,8                 | 36296,0                |
| 3.2 Transport equipment                     | 195,3                         | 488,1    | 115,3                     | 157,1                      | 67,9                   | 2553,1                 | 251,1                   | 164,1                | 459,9                   | 62640,2                |
| 4.1 Food and tobacco products               | 58836,2                       | 526,8    | 11,2                      | 8,9                        | 4,1                    | 14,8                   | 216,6                   | 6526,3               | 35,5                    | 14,8                   |
| 4.2 Textil mill products                    | 950,3                         | 902,5    | 3,5                       | 0,0                        | 56,5                   | 12,6                   | 141,6                   | 710,0                | 1179,0                  | 1659,1                 |
| 4.3 Apparel and show                        | 428,3                         | 255,0    | 25,4                      | 25,4                       | 35,6                   | 81,6                   | 48,3                    | 43,5                 | 97,7                    | 460,4                  |
| 4.4 Lumber, woods and furnitures            | 1398,2                        | 301,5    | 102,4                     | 61,2                       | 70,2                   | 74,1                   | 326,7                   | 389,4                | 2973,2                  | 2128,9                 |
| 4.5 Paper products, printing and publishing | 787,8                         | 21,8     | 82,3                      | 420,4                      | 45,3                   | 256,3                  | 2694,5                  | 5599,7               | 2202,4                  | 528,0                  |
| 4.6 Rubber and plastics                     | 1995,0                        | 190,0    | 97,7                      | 55,7                       | 68,8                   | 228,7                  | 153,4                   | 3920,5               | 6593,3                  | 8448,1                 |
| 4.7 Miscellaneous manufacturing             | 35,4                          | 12,3     | 15,9                      | 43,3                       | 15,9                   | 26515,2                | 70,7                    | 728,4                | 5353,2                  | 1829,5                 |
| 5 Construction                              | 1869,3                        | 6,9      | 143,9                     | 282,3                      | 40,3                   | 304,5                  | 298,5                   | 467,9                | 523,9                   | 358,7                  |
| 6.1 Trade services                          | 8836,5                        | 360,6    | 642,2                     | 1389,4                     | 351,1                  | 2076,7                 | 2032,1                  | 3972,0               | 7685,7                  | 4180,4                 |
| 6.2 Hotels, restaurants and bars            | 143,4                         | 5,6      | 36,1                      | 184,5                      | 6,7                    | 247,8                  | 232,8                   | 733,5                | 690,7                   | 318,4                  |
| 7.1 Railroad transpot                       | 1042,4                        | 15,4     | 312,1                     | 508,6                      | 94,6                   | 1316,4                 | 694,1                   | 769,7                | 755,6                   | 384,5                  |
| 7.2 Land transport                          | 5422,5                        | 702,2    | 1101,7                    | 1533,7                     | 331,5                  | 3280,9                 | 5583,7                  | 5496,1               | 5501,7                  | 2115,2                 |
| 7.4 Sea transport                           | 295,4                         | 46,1     | 714,5                     | 900,8                      | 73,0                   | 1166,4                 | 1009,9                  | 824,3                | 617,0                   | 275,0                  |
| 7.5 Air transport                           | 17,3                          | 8,2      | 9,0                       | 16,4                       | 2,5                    | 71,5                   | 43,5                    | 137,2                | 93,7                    | 73,1                   |
| 7.6 Communications                          | 266,7                         | 63,9     | 129,1                     | 212,6                      | 86,3                   | 282,8                  | 251,9                   | 625,3                | 893,3                   | 421,1                  |
| 8.1 Financial services                      | 1291,3                        | 187,3    | 575,8                     | 533,6                      | 242,0                  | 737,7                  | 917,9                   | 1106,1               | 2092,0                  | 1124,0                 |
| 9.1 Housing to rent                         | 360,4                         | 7,4      | 169,7                     | 96,6                       | 9,9                    | 17,3                   | 65,0                    | 400,0                | 363,5                   | 33,4                   |
| 10 Other services                           | 3191,3                        | 365,5    | 688,8                     | 1280,3                     | 237,6                  | 2126,2                 | 1423,1                  | 8922,4               | 5247,1                  | 4004,3                 |
| Intermediate inputs                         | 276625,8                      | 10134,49 | 73817,75                  | 41468,02                   | 6068,525               | 199105,1               | 68.570                  | 171.814              | 244163,4                | 166.602                |
| Labor input remuneration                    | 77110,51                      | 16588,5  | 12866,1                   | 16904,8                    | 8467,2                 | 22718,4                | 22150,4                 | 25901,7              | 103972,2                | 68636,8                |

|                                    |          |         |          |          |         |          |          |          |          |          |
|------------------------------------|----------|---------|----------|----------|---------|----------|----------|----------|----------|----------|
| Gross capital remuneration         | 239107,0 | 12170,5 | 17968,4  | 55094,5  | 11466,5 | 32866,2  | 23432,5  | 45815,8  | 42999,1  | 46819,7  |
| Net indirect taxes                 | -11141,1 | -6447,5 | 64620,1  | -1335,8  | 451,9   | -1303,5  | 2013,2   | 4423,2   | 7701,7   | -286,6   |
| Gross Value Added at Factor Prices | 316217,5 | 28759,0 | 30834,5  | 71999,3  | 19933,7 | 55584,6  | 45582,9  | 71717,5  | 146971,3 | 115456,5 |
| TOTAL OUTPUT                       | 581702,2 | 32446,1 | 169272,4 | 112131,6 | 26454,1 | 253386,2 | 116165,9 | 247954,9 | 398836,3 | 281771,6 |

### TABLA INPUT-OUTPUT DE 1975

| at 1970 millions pesetas                    | 4.1              | 4.2                  | 4.3              | 4.4               | 4.5            | 4.6              | 4.7           | 5            | 6.1     | 6.2                |
|---|------------------|----------------------|------------------|-------------------|----------------|------------------|---------------|--------------|---------|--------------------|
|   | Food and tobacco | Textil mill products | Apparel and show | Lumber, woods ... | Paper products | Rubber, plastics | Miscellaneous | Construction | Trade   | Hotels, restaruant |
| 0.1 Agriculture and cattle raising          | 307675,1         | 5425,8               | 631,0            | 12302,1           | 5130,1         | 272,9            | 98,3          | 150,8        | 129,9   | 23628,7            |
| 0.2 Fishing                                 | 5009,1           | 0,0                  | 0,0              | 0,0               | 0,0            | 0,0              | 256,3         | 0,0          | 0,0     | 3786,5             |
| 1.1 Energy, unless utilities                | 3271,2           | 436,3                | 175,1            | 227,5             | 1563,6         | 612,7            | 94,1          | 4427,1       | 350,6   | 906,2              |
| 1.2 Electric, gas and water utilities       | 3600,2           | 1999,9               | 1112,1           | 1268,6            | 2559,9         | 1201,4           | 541,4         | 2301,5       | 4355,4  | 7291,6             |
| 2.1 Metal and non-metallic mining           | 579,2            | 6,6                  | 2,0              | 0,0               | 147,1          | 117,4            | 51,5          | 9009,2       | 15,2    | 2,6                |
| 2.2 Primary transformation of metals        | 3594,5           | 11,3                 | 66,6             | 276,4             | 248,7          | 826,2            | 7025,1        | 71990,6      | 0,0     | 0,0                |
| 2.3 Nometallic minerals industry            | 4345,6           | 93,2                 | 68,6             | 991,3             | 35,8           | 35,2             | 662,5         | 71914,2      | 93,2    | 1182,8             |
| 2.4 Chemical industries                     | 5284,8           | 15998,6              | 3718,8           | 1976,5            | 4411,0         | 27805,9          | 3094,6        | 8321,2       | 782,5   | 1361,6             |
| 3.1 Industrial machinery and equipment      | 4950,3           | 679,2                | 1762,5           | 2024,9            | 748,6          | 1980,8           | 4080,8        | 51317,6      | 1454,7  | 1445,3             |
| 3.2 Transport equipment                     | 571,6            | 71,5                 | 153,5            | 179,0             | 85,6           | 73,6             | 111,8         | 632,5        | 3282,6  | 1117,1             |
| 4.1 Food and tobacco products               | 132345,0         | 401,2                | 6072,2           | 114,9             | 69,3           | 124,3            | 151,7         | 202,4        | 24,3    | 70390,0            |
| 4.2 Textil mill products                    | 833,3            | 46360,9              | 49183,9          | 1143,2            | 159,7          | 5370,0           | 681,3         | 279,7        | 562,1   | 174,3              |
| 4.3 Apparel and show                        | 189,7            | 265,3                | 22720,1          | 242,3             | 48,3           | 65,9             | 253,0         | 99,1         | 507,6   | 2381,3             |
| 4.4 Lumber, woods and furnitures            | 1812,4           | 167,5                | 605,7            | 18429,9           | 61,9           | 104,4            | 982,6         | 21681,8      | 1788,7  | 317,7              |
| 4.5 Paper products, printing and publishing | 6266,5           | 376,3                | 1835,4           | 333,4             | 65558,9        | 950,1            | 862,5         | 2037,2       | 8105,1  | 780,8              |
| 4.6 Rubber and plastics                     | 1832,5           | 196,1                | 5127,2           | 1606,7            | 411,1          | 5837,7           | 1338,2        | 5401,3       | 2683,7  | 754,1              |
| 4.7 Miscellaneous manufacturing             | 117,6            | 43,3                 | 1397,2           | 42,6              | 4658,6         | 320,4            | 6724,0        | 1036,4       | 498,7   | 97,4               |
| 5 Construction                              | 530,8            | 121,3                | 119,4            | 142,1             | 56,5           | 115,7            | 61,6          | 445,2        | 3407,7  | 1371,8             |
| 6.1 Trade services                          | 6300,6           | 4895,3               | 9105,9           | 1794,6            | 1744,7         | 2133,4           | 1104,1        | 11276,4      | 20152,2 | 7345,8             |
| 6.2 Hotels, restaurants and bars            | 208,9            | 131,7                | 222,8            | 92,8              | 143,4          | 277,8            | 151,7         | 460,7        | 2228,3  | 260,1              |
| 7.1 Railroad transpot                       | 1263,6           | 276,4                | 232,8            | 518,5             | 563,3          | 224,2            | 117,9         | 1299,8       | 267,8   | 414,6              |
| 7.2 Land transport                          | 11465,2          | 1841,6               | 2620,8           | 5119,7            | 3073,0         | 1583,7           | 737,6         | 16820,8      | 7697,2  | 2374,2             |
| 7.4 Sea transport                           | 463,5            | 58,4                 | 99,2             | 699,9             | 184,5          | 94,0             | 117,9         | 1770,0       | 201,4   | 29,8               |
| 7.5 Air transport                           | 59,2             | 36,2                 | 48,5             | 24,7              | 29,6           | 27,9             | 13,1          | 109,3        | 318,0   | 46,8               |
| 7.6 Communications                          | 520,7            | 176,8                | 345,3            | 187,4             | 141,8          | 141,8            | 96,1          | 776,1        | 5170,5  | 1931,2             |
| 8.1 Finnancial services                     | 1646,4           | 888,7                | 1164,5           | 733,1             | 650,5          | 395,9            | 321,3         | 2352,3       | 6135,3  | 952,1              |

|                                    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 9.1 Housing to rent                | 239,7           | 154,8           | 382,1           | 356,1           | 141,8           | 214,9           | 53,3            | 862,0           | 99,1            | 100,3           |
| 10 Other services                  | 6411,5          | 882,0           | 2595,3          | 965,5           | 3457,2          | 3442,5          | 1101,5          | 13636,6         | 8359,8          | 6060,9          |
| Intermediate inputs                | 511388,9        | 81996,11        | 111568,5        | 51793,2         | 96084,28        | 54350,85        | 30885,81        | 300611,8        | 78671,36        | 136505,5        |
| Labor input remuneration           | 46522,4         | 27424,36        | 44391,5         | 28800,31        | 28104,63        | 17683,01        | 14931,88        | 143737,0        | 106871,2        | 56964,3         |
| Gross capital remuneration         | 62561,0         | 18686,74        | 31878,39        | 16776,15        | 24690,31        | 13542,18        | 19654,84        | 58819,7         | 287796,7        | 63303,1         |
| Net indirect taxes                 | 29703,2         | 1207,201        | 1228,508        | 1219,691        | 5417,34         | 422,4835        | 2005,143        | 10024,98        | -4912,56        | 933,1           |
| Gross Value Added at Factor Prices | 109083,3        | 46111,1         | 76269,89        | 45576,47        | 52794,94        | 31225,19        | 34586,72        | 202556,7        | 394668,0        | 120267,4        |
| <b>TOTAL OUTPUT</b>                | <b>650175,4</b> | <b>129314,4</b> | <b>189066,9</b> | <b>98589,36</b> | <b>154296,6</b> | <b>85998,52</b> | <b>67477,67</b> | <b>513193,5</b> | <b>468426,8</b> | <b>257706,1</b> |

**TABLA INPUT-OUTPUT DE 1975**

At 1970 millions pesetas

|     | 7.1                                     | 7.2 y 7.3 | 7.4                    |                    | 7.5    | 7.6     | 8       | 9.1      | 10       |        |
|-----|---|-----------|------------------------|--------------------|--------|---------|---------|----------|----------|--------|
|     |   |           | Railroad<br>Transports | Land<br>Transports |        |         |         |          |          |        |
| 0.1 | Agriculture and cattle raising          |           | 3,0                    | 141,3              | 72,1   | 3,0     | 3,6     | 47,1     | 245,6    | 4857,2 |
| 0.2 | Fishing                                 |           | 0,0                    | 4,5                | 37,6   | 6,0     | 0,0     | 0,0      | 0,0      | 347,1  |
| 1.1 | Energy, unless utilities                | 1530,8    | 20611,5                | 6505,8             | 3859,8 | 203,6   | 322,0   | 1261,9   | 3050,3   |        |
| 1.2 | Electric, gas and water utilities       | 699,3     | 689,9                  | 8,0                | 57,3   | 330,3   | 3087,4  | 1367,9   | 8665,4   |        |
| 2.1 | Metal and non-metallic mining           | 0,0       | 0,0                    | 0,7                | 0,0    | 0,0     | 0,0     | 0,0      | 4,0      |        |
| 2.2 | Primary transformation of metals        | 0,0       | 0,0                    | 0,0                | 0,0    | 0,0     | 0,0     | 0,0      | 372,7    |        |
| 2.3 | Nometallic minerals industry            | 79,1      | 34,0                   | 15,8               | 0,6    | 2,9     | 11,1    | 40,4     | 459,5    |        |
| 2.4 | Chemical industries                     | 407,9     | 305,6                  | 296,0              | 76,7   | 27,5    | 166,4   | 388,9    | 11914,8  |        |
| 3.1 | Industrial machinery and equipment      | 192,7     | 291,4                  | 140,7              | 25,7   | 589,2   | 220,2   | 490,5    | 2617,9   |        |
| 3.2 | Transport equipment                     | 1693,0    | 30333,7                | 2065,8             | 3975,2 | 63,7    | 63,7    | 241,2    | 10363,9  |        |
| 4.1 | Food and tobacco products               | 3,6       | 32,0                   | 983,8              | 355,3  | 1,2     | 1,8     | 1,8      | 3767,0   |        |
| 4.2 | Textil mill products                    | 32,8      | 29,3                   | 67,0               | 6,3    | 5,6     | 23,0    | 14,6     | 295,0    |        |
| 4.3 | Apparel and show                        | 36,3      | 41,1                   | 105,1              | 39,3   | 10,9    | 54,4    | 29,0     | 394,0    |        |
| 4.4 | Lumber, woods and furnitures            | 126,9     | 108,9                  | 23,2               | 17,4   | 10,3    | 81,8    | 34,1     | 542,5    |        |
| 4.5 | Paper products, printing and publishing | 167,0     | 246,3                  | 78,8               | 126,4  | 503,9   | 7762,9  | 84,1     | 8462,6   |        |
| 4.6 | Rubber and plastics                     | 68,0      | 2759,2                 | 68,8               | 180,9  | 10,1    | 139,7   | 63,0     | 2219,0   |        |
| 4.7 | Miscellaneous manufacturing             | 11,5      | 33,2                   | 20,9               | 7,9    | 24,5    | 95,3    | 44,7     | 2005,0   |        |
| 5   | Construction                            | 837,7     | 386,9                  | 31,9               | 60,6   | 190,7   | 2125,7  | 5782,8   | 10447,1  |        |
| 6.1 | Trade services                          | 440,2     | 4556,9                 | 710,1              | 639,0  | 68,4    | 720,2   | 452,9    | 6406,6   |        |
| 6.2 | Hotels, restaurants and bars            | 119,5     | 207,3                  | 25,6               | 60,0   | 110,0   | 595,7   | 15,6     | 3314,6   |        |
| 7.1 | Railroad transpot                       | 1379,1    | 1137,0                 | 105,7              | 73,7   | 753,1   | 177,5   | 113,6    | 1222,4   |        |
| 7.2 | Land transport                          | 216,3     | 0,0                    | 4698,3             | 8527,5 | 186,5   | 344,9   | 415,7    | 5475,8   |        |
| 7.4 | Sea transport                           | 43,8      | 531,8                  | 415,6              | 23,4   | 171,6   | 30,9    | 22,8     | 384,1    |        |
| 7.5 | Air transport                           | 8,2       | 17,3                   | 10,7               | 102,7  | 667,2   | 306,5   | 14,8     | 1983,6   |        |
| 7.6 | Communications                          | 178,9     | 1211,9                 | 842,1              | 617,5  | 1120,0  | 3915,1  | 202,8    | 5572,6   |        |
| 8.1 | Financial services                      | 262,9     | 2689,0                 | 809,0              | 566,6  | 80,5    | 5773,1  | 1742,7   | 1671,0   |        |
| 9.1 | Housing to rent                         | 0,0       | 676,9                  | 315,8              | 205,0  | 44,0    | 964,8   | 0,0      | 3667,9   |        |
| 10  | Other services                          | 570,7     | 3022,8                 | 613,7              | 1016,8 | 259,0   | 5255,4  | 1954,9   | 33766,2  |        |
|     | Intermediate inputs                     | 9108,971  | 70099,69               | 19068,52           | 20.631 | 5.438   | 32.287  | 15026,46 | 134250,1 |        |
|     | Labor input remuneration                | 14854,8   | 60361,6                | 10665,4            | 8429,3 | 19745,4 | 82015,4 | 12960,7  | 362272,4 |        |

|                                    |                |                 |                |                |                |                |                 |                 |
|------------------------------------|----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| Gross capital remuneration         | 4870,3         | 56993,7         | 9799,1         | 5177,9         | 15347,8        | -51083,2       | 170953,8        | 145361,5        |
| Net indirect taxes                 | -9032,3        | -3564,3         | -3998,5        | -1510,7        | 1300,5         | 9352,7         | 354,2           | -4034,5         |
| Gross Value Added at Factor Prices | 19725,1        | 117355,4        | 20464,5        | 13607,3        | 35093,2        | 30932,3        | 183914,5        | 507633,9        |
| <b>TOTAL OUTPUT</b>                | <b>19801,8</b> | <b>183890,7</b> | <b>35534,5</b> | <b>32727,3</b> | <b>41832,2</b> | <b>72571,6</b> | <b>199295,1</b> | <b>637849,5</b> |

**TABLA INPUT-OUTPUT DE 1975**

at 1970 millions pesetas

|   | Intermediate Consumption | Domestic Consumption | Public Consumption | Gross Fixed Capital Formation | Stocks   | Exports | Total Final Demand | Total Resources Consumption |
|---|--------------------------|----------------------|--------------------|-------------------------------|----------|---------|--------------------|-----------------------------|
| 0.1 Agriculture and cattle raising          | 496811,4                 | 122552,7             | 0,0                | 11688,1                       | 5821,6   | 30805,2 | 170865,6           | 667673,6                    |
| 0.2 Fishing                                 | 9599,2                   | 21950,9              | 0,0                | 0,0                           | 206,7    | 1890,7  | 24048,4            | 33647,5                     |
| 1.1 Energy, unless utilities                | 180871,5                 | 51180,0              | 0,0                | 0,0                           | -12218,5 | 15535,7 | 54608,6            | 232024,1                    |
| 1.2 Electric, gas and water utilities       | 91750,1                  | 49088,3              | 0,0                | 0,0                           | 534,8    | 450,2   | 50073,3            | 142453,5                    |
| 2.1 Metal and non-metallic mining           | 58871,7                  | 74,5                 | 0,0                | 0,0                           | -906,8   | 2958,0  | 2125,7             | 60967,6                     |
| 2.2 Primary transformation of metals        | 310310,9                 | 0,0                  | 0,0                | 4855,2                        | -4393,4  | 25868,1 | 26329,8            | 336629,4                    |
| 2.3 Nometallic minerals industry            | 111682,7                 | 6467,8               | 0,0                | 1069,5                        | 2532,2   | 9265,0  | 19355,3            | 131038,0                    |
| 2.4 Chemical industries                     | 217444,1                 | 58374,3              | 0,0                | 0,0                           | 11593,6  | 13215,9 | 83182,6            | 300611,0                    |
| 3.1 Industrial machinery and equipment      | 223519,6                 | 71198,4              | 0,0                | 216515,2                      | 7141,4   | 48402,8 | 343144,6           | 566646,5                    |
| 3.2 Transport equipment                     | 122142,2                 | 141900,3             | 0,0                | 69353,6                       | 7102,2   | 40899,9 | 259245,3           | 381385,1                    |
| 4.1 Food and tobacco products               | 281142,4                 | 361275,0             | 0,0                | 0,0                           | 13518,1  | 30525,0 | 405314,7           | 686430,8                    |
| 4.2 Textil mill products                    | 110825,5                 | 44950,8              | 0,0                | 333,4                         | 4257,6   | 10995,9 | 60537,2            | 171359,7                    |
| 4.3 Apparel and show                        | 28982,6                  | 145735,0             | 0,0                | 1253,1                        | 400,6    | 24141,4 | 171530,0           | 200510,1                    |
| 4.4 Lumber, woods and furnitures            | 54688,7                  | 41438,4              | 0,0                | 15865,4                       | 974,9    | 6187,5  | 64465,9            | 119146,2                    |
| 4.5 Paper products, printing and publishing | 117171,2                 | 46625,8              | 0,0                | 3856,8                        | 2976,7   | 9509,7  | 62968,3            | 180139,3                    |
| 4.6 Rubber and plastics                     | 52410,1                  | 45245,2              | 0,0                | 4231,9                        | 3087,5   | 12311,6 | 64874,2            | 117283,8                    |
| 4.7 Miscellaneous manufacturing             | 51760,3                  | 42440,1              | 0,0                | 22542,9                       | 1965,2   | 5358,0  | 72234,6            | 123990,4                    |
| 5 Construction                              | 30531,8                  | 9445,6               | 0,0                | 405430,6                      | 0,0      | 495,7   | 415371,9           | 446323,3                    |
| 6.1 Trade services                          | 111374,0                 | 325653,1             | 0,0                | 12678,1                       | 0,0      | 0,0     | 338331,1           | 449705,1                    |
| 6.2 Hotels, restaurants and bars            | 11225,8                  | 245362,3             | 0,0                | 0,0                           | 0,0      | 0,0     | 245362,3           | 256588,1                    |
| 7.1 Railroad transpot                       | 16034,8                  | 7167,5               | 0,0                | 1665,3                        | 0,0      | 1667,8  | 10500,6            | 26535,4                     |
| 7.2 Land transport                          | 107603,9                 | 81433,7              | 0,0                | 9645,5                        | 0,0      | 7503,9  | 98583,1            | 206187,1                    |
| 7.4 Sea transport                           | 11265,0                  | 6705,8               | 0,0                | 1519,6                        | 0,0      | 25591,4 | 33864,0            | 45081,7                     |
| 7.5 Air transport                           | 4296,6                   | 36342,6              | 0,0                | 669,7                         | 0,0      | 14961,4 | 51973,7            | 56270,3                     |
| 7.6 Communications                          | 26381,8                  | 27616,8              | 0,0                | 0,0                           | 0,0      | 1430,9  | 29047,7            | 55429,5                     |
| 8.1 Financial services                      | 37642,3                  | 20509,8              | 0,0                | 2470,0                        | 0,0      | 8690,3  | 31670,1            | 69312,4                     |
| 9.1 Housing to rent                         | 10175,3                  | 203443,2             | 0,0                | 0,0                           | 0,0      | 100,9   | 203544,1           | 213946,2                    |
| 10 Other services                           |                          | 218892,5             | 160648,5           | 11523,3                       | 0,0      | 3138,2  | 531710,0           | 652568,9                    |