



#### **OCCASION**

This publication has been made available to the public on the occasion of the 50<sup>th</sup> anniversary of the United Nations Industrial Development Organisation.



#### **DISCLAIMER**

This document has been produced without formal United Nations editing. The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Industrial Development Organization (UNIDO) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or its economic system or degree of development. Designations such as "developed", "industrialized" and "developing" are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Mention of firm names or commercial products does not constitute an endorsement by UNIDO.

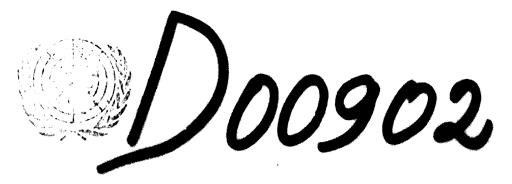
#### FAIR USE POLICY

Any part of this publication may be quoted and referenced for educational and research purposes without additional permission from UNIDO. However, those who make use of quoting and referencing this publication are requested to follow the Fair Use Policy of giving due credit to UNIDO.

#### **CONTACT**

Please contact <u>publications@unido.org</u> for further information concerning UNIDO publications.

For more information about UNIDO, please visit us at www.unido.org



United Nations Industrial Development Organization ENTIFY DATIONS ECONOMIC AND SOCIAL OFFICE IN BRITHE

Distr.
LIMITED
ID/W.55/10
9 April 1970

ORIGITAL: ENGLISH

Working Group on Industrial Project Planning Beirut, Lebanon, 27 April - 1 May 1970

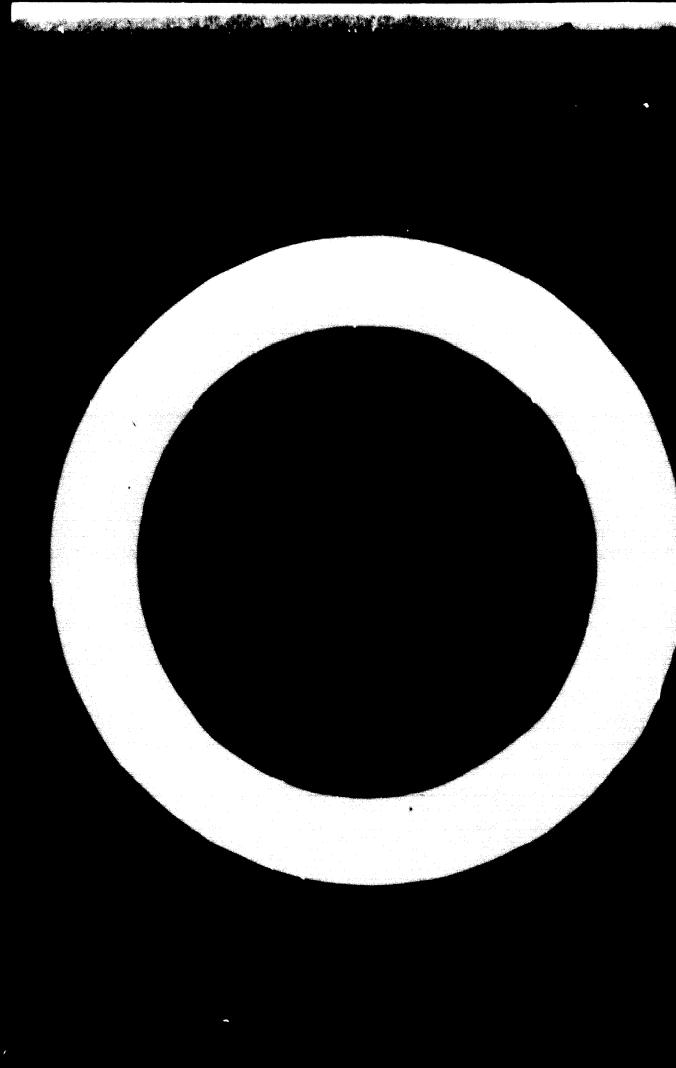
# AN INTRODUCTORY REVIEW 17

prepared by

The United Nations Economic and Social Office in Beirut

<sup>\* /</sup> his document has been reproduced without formal editing by UNIDO.

We regret that some of the pages in the microfiche copy of this report may not be up to the proper legibility standards, even though the best possible copy was used for preparing the master fiche.



### CONTENTS

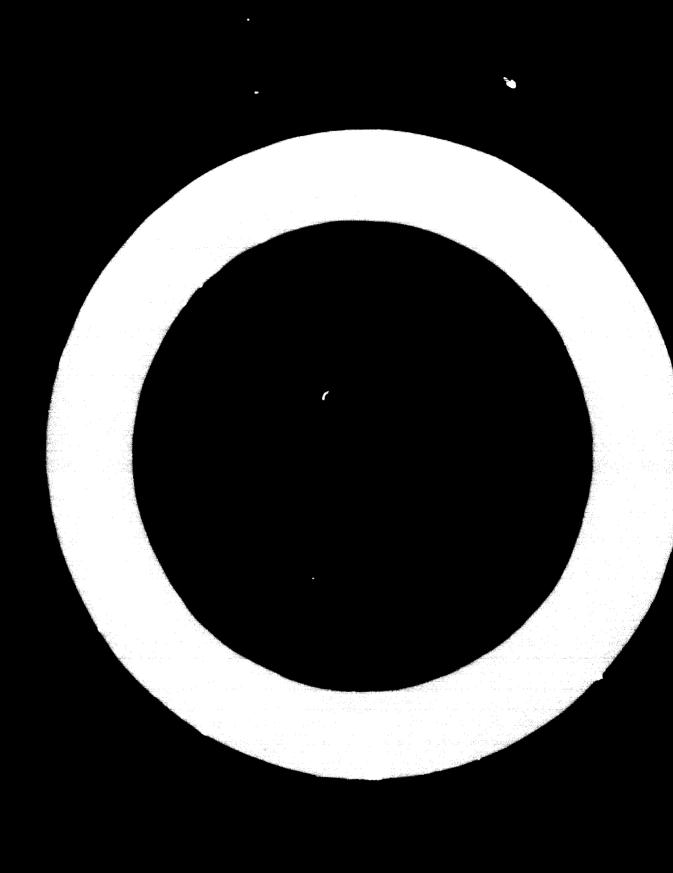
|      |   | <u> </u>    |
|------|---|-------------|
|      |   | Page        |
| I.   | THE JORDAN ECONO OF THE EVE OF THE 1967 WAR         | 7           |
|      | A. The industrial sector                            | *4          |
|      | B. The Seven Year (1964-1970) Detelopment Programme | 2".         |
|      | .C. The economic effects of the 1967 war            | :.6         |
| II.  | GOVERNMENT POLE IN INDUSTRIALIZATION                | 31          |
|      | Jordan Development Board                            | J.I         |
|      | Ministry of National Economy                        | ي<br>پير    |
|      | - Directorate of Industry                           | 2/4         |
|      | - Jordan Centre for Industrial Development          | 377         |
|      | - Investment Promotion Office                       | 47          |
|      | - Encouragement of Investment Committee             | ζ.          |
|      | Ministry of Firance                                 | r.          |
|      | The Industrial Lave comment Bank                    | 3           |
|      | Chamber of Industry                                 |             |
| III. | SURMARY AND CONCLUSIONS                             |             |
|      | LIST OF APPENDIX TABLES                             | in S        |
|      |   |             |
|      |   |             |
|      |   | allere<br>2 |

## LIST OF TEXT TABLES

|           | en e   | Page       |
|-----------|--|------------|
| ).        | Industrial ligin of pross d mestic product   | 8          |
| Ż.        | Ine net national product (at factor cost) of Jordan and contribution of samufacturing and mining   | 9          |
|           | Number of as elichments, mucher of person employed, exteries paid, value in including an invalue added of the manufacturing sector in 19., 1965 and 1966 |            |
| 4.        | Industrial establishments employing ten or more persons,   | 11         |
| 1.        | Industrial entirpolera established during the period   | 1.0        |
|           | Planned sectoral distribution of investment  | 22         |
| <b>!•</b> | Total investment in the manufacturing sector during the seven year place   | 25         |
| 8.        | Contribution of the West Bank to Jordan's gross domeotic   | Łó         |
| <b>6.</b> | Number of estab ishments, number of workers employed and walue of production in Jordan and the East Bank, 1987   | <b>.</b> % |
| 10        | .Government equity participation in 27 Jordanian Companies as on 31 December 1969  | <b>52</b>  |
|           |  |            |

### LIST OF APPENDIX TABLES

- 1. Jordan. Number of manufacturing establishments and pursons engaged, classified by ISIC major groups and size of establishments in 1965.
- 2. Jordan (East Bank). Value of fixed assets, average value of .
  fixed assets, number of employees and average number of employees, of establishments employing more than 10 persons, 1967.
- 3. Jordan (East Bank). Distribution of establishments and number of workers according to the value of production in manufacturing establishments, 1967.
- 4. List of new manufacturing projects and estimated capital requirements, feasibility studies prepared and actual capital investments, 1962-1967.
- 5. List of manufacturing projects and estimated capital requirements, actual investments, feasibility studies, in the seven-year plan, 1964-1970.
- 6. Leans approved by the Industrial Development Bank of Jordan, classified by Industry, 1986-1968.
- 7. Average size of loans granted by the Industrial Development Bank of Jordan, 1966-1968.



#### I. THE JORDAN ECONOMY ON THE EVE OF THE 1967 WAR

## A. The industrial sector

- Jordan is basically an agricultural country; about one third of the economically active population is engaged in agriculture 2, which, on the average, contributes about cre-fifth of the gross demestic product. However, agriculture is a highly unstable sector because a large proportion of agricultural output is cultivated in dry farming areas subject to frequent droughts. Because of this, Jordan has put in recent years more emphasis on other sectors and on irrigation schemes and on soil and water conservation programmes.
- 2. The country is also poor in other natural resources, metallic minerals in commercial quantities have not been discovered. Of the non-metallic ores, phosphate is the most important material currently exploited; potash and other salts offer promising prospects. Scarcity of resources in relation to population has caused the quantry to depend heavily on foreign and stance and trade.
- Jordan grow at an account rate of about 8 per cent. This high rate of growth reflected a renoral expansion in all sectors of economic activity, particularly in the service, manufacturing and agricultural sectors. But despite the favourable growth, Jordan's per capita income in 1966 remained low, at about 214 US Dollars. Furthermore, concamption in Jordan has always exceeded output and the difference was met by foreign assistance, mainly in the form of grants for budget support. Foreign assistance has been of general importance to the development of ordan; without it, the high rates of growth schieved in the past would not have been possible.
- The data available (see table 1) indicates that gross demostic product increased from an average of JD 47.7 million in 1954 to an average of JD 149.6 million in 1966, or by 217 per cent. This rapid increase was achieved despite the occurance of a number of droughts during this period.

<sup>1/</sup> At the end of 1966, the total population of Jordan amounted to 2.1 million and the labour force was estimated at 458,000 persons.

Table 1. Industrial origin of gross also under product (do million; at current factor coss)

| Sector   | 1504                  | 1958 | 1061   | 1964  |
|--|-----------------------|------|--|-------|
| The second secon |                       |      |  |       |
| Agriculture and forestry   | 14.2                  | 16.9 | 21.7   |       |
| Miding, compacturing and   |                       |      |  |       |
| electricity  | 4.2                   | 7.9  | 11.5   | 110.2 |
| Construction   | 1.2                   | €.4  | 5.3  | 9.3   |
| lmnsport   | 4.4                   | 9.0  | la de la companya de |       |
| Frade and bunking  |                       | Za.a |  |       |
| wnorship of dwellings  |                       |      |  | 14.1  |
| ublic edministration and defence   |                       |      |  |       |
| Services   | <b>3.1</b>            | 15.6 | . <b> </b>   | 22.0  |
|  | and the second second | 3.9  |  | 14.1  |
| Grose domestic product   | 7.7                   |      | 115.3  | 144.6 |

- 5. In the period 1959-1966, import of guede and services constituted, an the average, about 30 per cent of total available rescurces. As a result of this heavy dependence on imports and the small size of the country's export trade, Jordan's external commonic position remained mask, with a relatively large deficit on current account. This, however, was correlated by the large inflow of foreign ground and, to a lenser extent, toreign leans.
- 6. The expert earnings of Jordan wors provided mainly by agricultural products, especially vegetables, phosphater, memofactured products and tourism.
  The dynamic expert elements in Jordan's scenery are phosphates, potash and tourism.
- 7. In the past, economic development in Jordan was financed mainly by the private sector which contributed during the 1954-1966 period, on the average, about 57 per cent of the value of gross demestic capital formation.

# 

The Levelet and of the industrial center the been impressed. Income originating in mining / Charlesturing impressed from 19 6.0 in lines in 1959 to 17.0 million in 1966 (non able 2). This represents to impressed of about 193.5 for cent in nexts years. The share of industry in het national pendent (at factor open) rose from 5.9 per cent in 1959 to 15.7 per cent in 1966. This structure which in the fartestop sections.

Table 2. The mpt malional product (at factor come)
of Jordan and contribution of manufacturing
and manife

|      | N.M.P. as factor<br>cost (sullies JD)  | Valle alder of<br>construction and althou<br>exeter (million 339) | For the second s |
|------|--|---|--|
| 1959 | 87.0   |   | The state of the s |
|      | 91.0   |   | 7.7  |
| 1961 | 140  |   | 1.   |
|      | 18.4   |   | 6.5  |
| 1903 | and the second s |   | 9.1  |
| 1967 |  |   |  |
| 1969 | 157.0  | 36.0  |  |
| 1966 | 186.0  | 17.4  | w.T  |

Source: Department of Teatistics, the Ballumi legesta 1954-1961, Jordan, 1969.

Table 111 strates the progress made in the manufacturing sector 199 to 1995. The momber of total manufacturing establishments increased from 23,068 to 37,257 during the same 1995 to 1995 to 1995 to 1995 to 37,257 during the same 1995, while the value of production rose from JD 11.6 million to JD 42,343 million, respectively. The increase in the value of production was largely to the marked expansion in food manufacturing, toheood, clothing and features. Peather and leather products, petroleum, ron-metall minerals, and basic metal production. Average labour productivity thus rose from 1995 to JD 1,137 in 1966, representing an increase of 126 per cent.

Table 3. Mumber of cetabli imments, number of person; employed, salaries paid, value of production walue added of the manufacturing sector is 1959, 1965 and 1966

|              | Mumber of<br>cotoblish-<br>ments | Musher of<br>persons<br>employed | Salaries<br>paid | Value of production (000 JD) | Value udded      |
|--------------|----------------------------------|----------------------------------|------------------|------------------------------|------------------|
| 1919 Consus  | 6,807                            | 23.060                           | 1, 306           | 11,583                       |                  |
| 1745 Ceruse  | 6,830                            | 33,132                           | 4 108            | 34.933                       | 6 <b>,285</b>    |
| 1966 Canaula | 1.242                            | 31,231                           | 5,583            | 42,343                       | 13,732<br>17,267 |

Source: Department of Statistics, Industrial Consus. 1959, 1965 and 1966.

10. The industrial survey for 1966 indicates that there were in Jordan 486 manufacturing establishments employing 10 persons or more et an average and 17.5 persons per establishment (see table 4).

<sup>2/ 1959</sup> Census included bundicrafts (especially tailoring shops which numbered 1,700 shops).

Table 4. Industrial establishments employing ten or more persons, 1966

|   | Number of stablishments | Number of workers | Value of production (OOO JD) |
|---|-------------------------|-------------------|------------------------------|
| 1. All establishments                           | 7,242                   | 37,257            | 42,343                       |
| 2. Establishments employing ten persons or more | 486                     | 15,817            | 32,186                       |

Source: The Auman Chamber of Industry, The Industry of Jordan 1969, third Edition.

- 11. The value of production of those establishments amounted to JD 32,186 million and the average labour productivity was JD 2,035 per worker. This average may even rise in establishments employing a larger number of workers.
- 12. Two general remarks may be made with regard to the structure of industry as derived from the findings of the 1966 survey:
- (a) the typical industrial unit in Jordan is small; more than 90 per cent of the total number of establishments employ fewer than ten persons, and most of these are engaged in food manufacturing, the clothing industry, shoe-making, furniture manufacture and metal-working; and
- (b) the bulk of production originates in a relatively small number of establishments, which by the same token also employ more people and contribute more to value added than would be warranted by their actual numbers. About 7 per cent of the total number of establishments are responsible for more than 40 per cent of the industrial employment and 76 per cent of the total value of production in industry.

13. Since 1954, a large cement factory, a petroleum refinery, a number of foundries, a tannery, marble factories and an expanded phosphate mines plant have come into operation. Other industrial enterprises, including milling, oil processing, textiles, bettling and brewing, tobacco products, footnear, metal products, furniture, detergents, food products, batteries, glass, printing and publishing, were established between 1964 and 1967 (see table 5).

# Main industrial establishments

14. The following is a brief description of some of the main industrial establishments in Jordan.

# The Jordan Phosphate Mines Company

- 15. Large quantities of phosphate ore are available in various parts of Jordan. Proven reserves are estimated at 130 million tons. Of these, 100 million tons are located at Ruseifa, which lies 15 kitometres north of Amman, and 30 million tons in the El-Hasa area, which is about 100 kilometres to the south of Amman. An additional 140 million tons are presumed to be available but these reserves have not been proven yet. The quality of Jordanian phosphate is considered to be among the best in the world.
- Ruseifa area only. In 1953, the Government evaluated the assets of the company and established the Jordan Phosphate Mines Company with an authorized capital of JD 1.2 million. In 1966, the authorized capital was reised to JD 2 million, with Covernment participation amounting to 51 per cent. Moreover, recently, this capital was again raised to JD 3 million. For many years this company has extracted phosphate from its mines at Ruseifa and recently has initiated some extraction at El-Hasa.

- Meanwhile, the Government retained a specialized consulting engineering firm to determine the size and quality, markets, production techniques and transportation facilities relating to phosphate production from the El-Hasa area. The technical design and specifications of this project were issued for international bidding and tenders were swarded in 1964 and 1965. To ensure effective and efficient realization of this project, the Government created an implementation committee to supervise and co-ordinate construction works and also to establish the bases for integrating the Fuseifa and El-Hasa projects under one company. This amalgamation was effected as of 1 January 1966.
- The company's production of rock phosphate exceeded 1,230,000 tons in 1367 and is expected to surpass the 3 million ton mark by 1970. Almost the entire production of Jordanian phosphate is experted to European and Asian markets, particularly to India, Yugoslavia, Czechoslovakia and Poland.
- 19. Production and exports of phosphate for the period 1955-1967 were as follows (in 000 tons):

|            |   | 1955 | 1960 | 1965 | 1967  |
|------------|---|------|------|------|-------|
| Production | n | 166  | 392  | 852  | 1,236 |
| Exports    |   | 155  | 30)  | 605  | 881   |

# The Jordan Coment Tactories Itd.

- 20. The Jordan Cement Factories Ltd. was established in 1951 with an authorized capital of JD 1 million. Of this, the Government held 49.5 per cent and the remainder was issued for public participation. However, the company's capital was doubled in 1959 and again was increased to JD 2.5 million in 1962. The company's concession extends over fifty years.
- 21. Cement production commenced in 1954 with a capacity of 110,000 tons per year. However, the rapid growth in cement consumption warranted the expansion of productive capacity by adding one kiln in 1960 and another in 1962. Preliminary studies were completed for the addition of a fourth kiln. Production

in 1967 amounted to 467,826 tens, of which 358,775 tens were expected to neighbouring Avab countries. At at 100 to rivers are employed by the company.

22. Cement production has developed sinc 1956 as follows (in 000 tons):

| 1956       | 1960 | 1965 | 1967 |
|------------|------|------|------|
| <b>7</b> 9 | 165  | 327  | 467  |

## The Jordan Petroleum Refinery Ltd.

- 23. Jordan's consumption of petrol and petroleum products is estimated at 400,000 tons, valued at about JD 7.9 million. The growth rate of local consumption is put at 10 per cent per year.
- 24. The Jordan Petroleum Refinery was established in 1956 with an authorised capital of JD 4 million, of which the Government held shares worth JD 250,000. In 1968, the authorized capital was raised to JD 8 million. In 1961, the refinery production amounted to 181,126 tons and reached 392,628 tons in 1967, of which 383,000 tons were consumed locally and the remainder experted to Saudi Arabia and Lebanon.
- 25. The refinery employed 899 workers in 1967 as compared with 590 workers in 1963.
- 26. Following are the refinery's production figures by type of fuel for the period 1961-1965 (in 000 tons):

| Solar Fuel cil | 41.2<br>50.6<br>11.9 | 134.2<br>81.6 | 90 <b>.9</b> |
|----------------|----------------------|---------------|--------------|
| Asphelt        |                      | 30.0          |              |

## Olgarette occasanies

- 27. Cigarette manufacturing in Jordan dates back to the 1930's. At the end of 1966, there were three major companies producing cigarettes: the Jordan Tobacco and Cigarette Company, the National Tobacco and Cigarette Company, and the Jerusales Cigarette Company Ltd. The total paid-in capital of these companies amounted to JD 786,000. The total value of their annual production was JD 4.5 million in 1966. They employed 1,000 workers.
- 18. Jordanian cigarettes have become well known in neighbouring Arab countries, especially in Kuseit, Lebanon, Seedi Arabia and Iraq. They have proved capable of competing with foreign cigarettes in quality and price and are considered to be among the best brands in the Middle East. This is due to the method of processing and mixing locally produced tobacco with imported tobacco.
- 29. The digarette industry in Jordan obtains between 65 and 75 per cent of its needs from locally produced tobacco, and imports the rest from abroad, mostly from the United States, Turkey and Greece.

## Vegetable OIL Company

- 30. The original idea behind the establishment of the Vegetable Oil Company was to refine and process various vegetable oils, and particularly olive oil, which is produced in the East Bank of Jordan in sizable amounts. Prior to 1967, Jordan's production of plive, oil exceeded 20,000 tone in good years.
- However, the rise in the price of virgin clive oil and the increasing demand for it have rendered the process of refining it economically not viable. As a result, the company decided at the end of 1959 to produce vegetable gives and concluded an "greenent with a Dutch firm whereby the latter would supervise production and marketing operations. Production of vegetable gives started in 1960. Jordan used to import large quantities of this commodity.

- 32. On the eve of the 1967 war, the company conducted the necessary studies to expand its output. It also considered the establishment of a plant to press seed oils such as safflower and sunflower, both of which could be grown locally and in particular in the Chor area. Meanwhile the company was studying the possibility of installing a plant to produce margarine and another for oil hydrogonation.
- 33. The plant for refining vegetable cils was constructed in 1956 near the city of Nablus, with a productive capacity of 7,000 tons per year, capable of being expanded. The capital of the company was originally JD 200,000, but was increased to JD 500,000 in 1959.
- 34. Production of vegetable ghee in recent years (in tons) was as follows:

| 1.57 |          | 1. 13 |       | 4.5 |  |  |  |  |  |   |   |   | 11111 |  | . % |  |  |  | ¥. | 4.00 | 136    | 4 |       |  |
|------|----------|-------|-------|-----|--|--|--|--|--|---|---|---|-------|--|-----|--|--|--|----|------|--------|---|-------|--|
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      | 5.0      |       | 100.0 |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   | 6. E. |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   | O     |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
|      |          |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      |        |   |       |  |
| 2    |          |       |       |     |  |  |  |  |  | • | * | - |       |  |     |  |  |  |    |      |        |   |       |  |
|      | <br>· ** |       |       |     |  |  |  |  |  |   |   |   |       |  |     |  |  |  |    |      | 2.2 10 |   | 0.00  |  |

# The Jordan Tanning Company Ltd.

- 35. The Jordan Tenning Company was founded in 1957 with a capital of JD 250,000, which was then raised to JD 400,000. The Government's share amounts to JD 100,000.
- 36. The company commenced production in 1961. It employs about 275 workers. The factory is considered one of the biggest and most modern tenneries in the Middle East.
- 27. Production in 1965-1967 has been as follows:

| Product           | 1965       | 1967  |
|-------------------|------------|-------|
| Sole (tons)       | 361        | 240   |
| Box (1,000 sq.    | ft.) 1,818 | 1,258 |
| Lining (1,000 eq. | st.) 561   | . 412 |

## United Industries Corporation

- 38. This company was established in early 1960 with a capital of JD 325.000. Production commenced in 1961.
- 39. The United Industries Corporation produces various kinds of wet batteries for cars. Its productive capacity is about 300 batteries every eight hours. Sixty per cent of production is exported to neighbouring Arab countries.
- The company also produces reclaimed rubber and paper. Reclaimed rubber is used in producing various types of shoes and boots as well as battery containers. The product we capacity for this type of rubber is 3 tons per day. In addition, the company produces meen tubes which are used by commercial establishments for advertising purposes. Productive capacity is 100 metres per day.

|  | Dayse of the base | The state of the control of the cont | Tother<br>of projects | Authorities<br>capital        |  | 10 44 00 00 00 00 00 00 00 00 00 00 00 00  |  |
|--|---|--|-----------------------|-------------------------------|--|--|--|
| Jozdan Paper Company Al-Tubein Steel Company Jozdanian Textile Company                                 | 1366<br>1366<br>1366  | 19951<br>19951   | 884                   | 556,000<br>300,000<br>450,000 | 585<br>085<br>884                        | 7,000 %css<br>60,000 coss<br>180,000 y van | Control of the contro |
| Arabian Coapeny for Zaammaceutherlasses 18 111 a Pills Capsules Drops and liquids                      |   |  | <b>6</b>              | ે.<br>•                       | \$<br>\$<br>\$<br>\$                     |  |  |
| Hational Been Convers  | \$  | Š  |                       | 0 0.0.                        | V. V | 80 TO OCO                                  | the state of the s |
| Ø.   |   | W C  |                       | \$<br>\$                      | \$<br>\$<br>\$                           | á d<br>i s                                 | 1  |
| Yoddur (Sren)  |   | Commission of the Commission o |                       |                               |  | · · · · · · · · · · · · · · · · · · ·      | වූ දිවක අවසු අත්ය අවසු අත්ය අවසු අත්ය අවසු අත්ය අවසු අත්ය අවසු අත්ය අත්ය අත්ය අත්ය අත්ය අත්ය අත්ය අත්ය   |
| Modern Loutern Industrial Company Under-wear Cuter garments Wooller and Silk garments Willtary clothes |   |  |                       |                               |  | 40,000 (31,000)                            | (appropriate (appr |
| Imperiol Company Undertweat Crayton terralles  | \$  | Š  |                       | §                             | 8<br>10<br>10                            | 92,230 (5.5.500 ()93.<br>26,660 - 93053    |  |
| Jordanian Feedstook Company Poultry feed Cove feed   | \$  |  |                       | <b>8</b>                      | 8  |  |  |
| Wool Industries Company. Blankets  |   | ¥<br><b>9</b><br><b>5</b>  | Section 1             | E<br>E                        |  | in<br>Po<br>Pr<br>Pr<br>Pr<br>Pr           | 100 mm 10 |
| Aprona   |   |  |                       |                               |  | 100,000 meters                             | 25.43% aq.ac.baya  |

|   | - é                |                        | West messential content of the second of the | And the second s |             | A SECTION OF THE PROPERTY OF T | The state of the s   |      |
|---|--------------------|------------------------|--|--|-------------|--|--|------|
|   | Catal-<br>lishment | Starting<br>production | of empres  | Spital Control   | oapta<br>B  |  | production<br>1907   |      |
| Industrial Company for Gasting                                    | 1965               | 1966                   | Ş  | 100,001  | 64,000      |  | 23.2   |      |
| Sanitary products   |                    |                        |  |  |             | 200 1010   | STO FORE   |      |
| Dry Batteries Company R 20 batteries R 14 batteries R 6 batteries | 996                | 9967                   |  | <b>8</b>   | <b>8</b> ,8 |  | 1,183,622<br>539,887<br>707,612  |      |
| Jordanian Textiles Company  | \$<br><b>\$</b>    | 9967                   | X  | <b>8</b>   | 50,00       |  | n.a.   |      |
| Far East Industrial Company Pans Kettles Others                   | <b>3</b>           |                        | <b>3</b>   |  | 20,000      | 100,320 (pieces)<br>25,000 (rieces)  | 100,000 (pieces) 25,000 (pieces) Production to the   |      |
| New Oxygen Plant  | 3                  | Š                      | d  | 8<br>8   | 637         | 150,000  | 53,000 #3  |      |
| Sharawi Gums Plant  | 9967               | \$                     |  |  | 18,000      | 224 tons   | enot 79  | TA . |
| Mechanical Company for Industry<br>and Commerce                   | <u>\$</u>          | \$9.51<br>1362         | **   | 8<br><b>8</b>  | 18,000      |  |  | -    |
| Nylon scarfs Robes Skirts Other                                   |                    |                        |  |  |             | 300000<br>8 8 8 8<br>8 4 4 4 4   | 2,000 decend<br>5,000 decens<br>5,000 decens<br>7,000 decens<br>Production has a visas es  |      |
| Jordan's Buttons Company  | 388                | 35                     | H  | 16,300   | 16,000      | 252,000 Gross  | 100 C C C  |      |
| Modern Mechanical Company   | 1958               | 1964                   | 9  | 12,500   | 12,500      |  |  |      |
| Stone crushers<br>Sand Papering Machine<br>Other machines         |                    |                        |  |  |             | 25(pieces)<br>6(pieces)<br>10(pieces)  | (83008; 4) 72<br>(83008; 4) 72<br>(8 |      |
| Katural Marble Company  | 98                 | 1984                   | 8  | 10,000   | 10,000      | 8,462 m <sup>2</sup>   | 7,376 -2   |      |
| International Knitting Factories                                  | 1965               | 98                     | 8  | 00°07  | 10,000      | ***************************************  | Value of production  |      |
| Palmyra Wool Knitting Pactory                                     | 1364               | 3                      | ×  | 9<br>8<br>9  | 7,000       |  |  |      |
| Pull-overs  |                    |                        |  |  |             | 36,000(piece")   | 12,000(pieces)   |      |

Wable 5. Industrial Interprises Stablished during the Perion 1964-1967 (continued)

| on the contract of the contrac | THE BOTH OF THE PARTY OF THE PA | ST S | Sumper<br>of end- | Authoriced<br>capital | STATE OF THE STATE | Proceeding   | Action<br>production<br>nost   |      |
|--|--|--|-------------------|-----------------------|--|--|--|------|
|  |  | production                               | oyees             |                       | <u> </u>   |  |  |      |
| 1 The The state of Maintaine Company 1961  | 1961   | 1961                                     |                   | 86.4                  | 55.6   |  |  |      |
|  |  | *  |                   |                       |  | 12,000 (pieces)  | 6,000(pieces)  |      |
| 1 soket c  |  |  |                   |                       |  | 10,000(11ecos)   | 0,400(pteces)  |      |
| Children suits Children null-owers   |  |  |                   |                       |  |  | 3, 500 (pieces)  |      |
| echnical Industrial Company  | 3  | Š  | i<br>i            | 8                     | 8  |  | ,  |      |
|  |  |  |                   |                       |  | 040 (pheces)   | 200(piece:)<br>200(piece:)   |      |
| Cardboards   |  |  |                   |                       |  | ***************************************  | tue of producti  | ជ    |
|  |  |  |                   |                       |  |  | ್ಲಾ ಆ.ವಿ. ಆ.ವಿ.<br>ಶಾಗ್ರಾಮ   |      |
| rabian Conveny for the Manufacture   |  |  |                   |                       | {  | (1900/14/00/14   | (2004,60,10)   |      |
| of Belthauthauth   | 8  | ָרָהָאָר<br>מילי                         | <b>T</b>          | •                     |  |  |  | - :  |
| 1-Tawfik Blacksmith and Carponley  | i  | 3  | •                 | ?                     | ξ<br>•   | K.   | 8  | 20 - |
| orden Knitting Company   | X  | 3 2                                      | 2                 |                       | 4,418  | ( e e e e e e e e e e e e e e e e e e e  | ( 200 ( m4 5 C ma m)   | •    |
| Re bo Tai, sex   |  |  |                   |                       |  | 3.000 (chaces)   | in the   |      |
| Soleon Lacket  |  |  | Service Services  | a                     |  | 16,800 (pieces)  | 20,800(pieces)   |      |
|  |  | ä  | Ŋ                 | \$                    | 4,00,4   |  |  |      |
|  | o de la companya de   |  |                   |                       |  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | いいないのでは、このでは、このでは、このでは、このでは、このでは、このでは、このでは、こ   |      |
| # + + + + + + + + + + + + + + + + + + +  |  |  |                   |                       |  | 1 1000 0 1000 0 1000 C   |  |      |
| Couldbed objets Upony oronwes  |  |  |                   |                       |  | Control of the contro |  |      |
| rab Btork Coupany (atmoss for  | X  |  | *4                | •                     |  | かいいっか むしに でき   | - 132<br>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   |      |
| O D D D D D D D D D D D D D D D D D D D  |  |  | BWS               |                       | \$<br>\$<br>\$   |  |  |      |
|  | \$   | •  | 1                 | ì                     | 3  | 100  | Tues of the second seco       |      |
| - And - Over -   |  |  |                   |                       | <b>&amp;</b>   | (  | b. Pr  |      |
|  |  |  |                   |                       |  | できなっている。   | が年 また で 大変 (本)   |      |
|  |  |  |                   |                       |  | Section of the sectio | <ol> <li>Antigen in part of the data of the control of the data of the control of the contro</li></ol> |      |
|  |  |  |                   |                       |  |  |  |      |

# B. The Seven-Year (1967-1970) Property of the

- The first attempt at comprehensive development planning in 3 rdan was made a 1962 and look the shape of a five-year programme, 1962 1963. Early in 1963, this programme was revised, and a new sover-year programme, 1964-1967, was introduced. The revised programme introduced basic changes to the priorities of the first five-year programme. The emphasis has been shifted so that the main goals became the reduction of the large deficit in the balance of payments and minimization of the country's dependence on budget support and foreign aid. These were viewed as having priority over acceleration of the rate of employment and of income growth.
- The seven-year programme gave, therefore, high priority to these sectors which would increase exports and/or reduce imports, e.g., agriculture, mining, teurism and manufacturing industries. Investment allocations for these four sectors alone amounted to more than 43 per cent of the total investment allocation in the reven-year programme (see table 5).

1...

The aggregative targets set out is the Plan in a descending order of priority were: (a) a major reduction in the country's deficit on the goods and services account and the largest possible reduction to the level of budget support; (b) the fastest possible increase in per capita income consistent with (a); and, (c) a reduction in the level of unemployment.

Table 6. Planned sectoral distribution of investment (Nillions of Jordanian dinars; percentage)

| Sector                                | Private     | Public   | Total | Percentage of total |
|---------------------------------------|-------------|----------|-------|---------------------|
| griculture and water                  | 16.3        | 54.3     | 70.6  | 25.6                |
| <b>Lining</b>                         | 22.7        | 7.6      | 30.3  | 11.0                |
| famulacturing                         | 8.1         | •        | 3.1   | 2.9                 |
| Electricity                           | 2.0         |          | 8.5   | 3-1                 |
| Communication and                     |             |          | 93.2  | 19.2                |
| Tourien                               | 9.1         |          |       | 4.4                 |
| Fracie and services                   | 7.1         |          | . 14  | 2.6                 |
| Education, health and social services |             | <b>u</b> | 10.6  | 3.8                 |
| Mousing and building                  | <b>33.1</b> | J.       | У.0   | 13.4                |
| Public administration                 |             | 9.6      | 9.0   | 3.3                 |
| local government                      |             | 14.5     | 14.8  |                     |
| Unallocated                           | 14.6        |          | 14.6  |                     |
| Total                                 | 129.2       | 146.8    | 276.0 | 100.0               |

Source: Hashemite Kingdom of Jordan, Jordan Development Board, "The seven-year programme for economic development, 1964-1970" (mimeographed), (in Arabia).

In quantitative terms, the programme envisaged a fall in the trade deficit from JD 41 million in the base year (1963) to JD 24 million in the final year (1970); a reduction of about 60 per cent in budget support, from JD 14 million to JD 6 million, and an increase in the gross national product from JD 137 million to JD 226 million, i.e. am increase of 7.4 per cent per annua, over the same period. As for employment, the programme assumed that it would increase at an average rate of about 5 per cent per annum over the same period.

- 14. To achieve these targets, the programme called, among other things, for the following:
- (a) limiting the increase in aggregate private consumption to 4 per cent per anuma to offset population growth and to allow an annual increase of 1 per cent in per capita living standards; aggregate private consumption is thus programmed to increase from JD 116 million in 1963 to JP 153 million in 1970;
- (b) limiting the increase in public consumption so that recurring periodic expenditures of the Government would rise from JD 33 million in 1963 to JD Al million in 1970 and those of local governments from JD 1.6 million to JD 2.4 million, respectively;
- (c) investing the amount of JD 274 million, on 21 per cent of GDP, divided almost equally between the public and private sectors, during the seven-year period. Of this total JD 74 million are to be allocated to agriculture and water development schemes, JD 55 million to mining, manufacturing industry and electricity, JD 20 million to tourism, and the remainder to infrastructural and social projects; and,
- (d) raising the level of Jordan's exports of goods and services from about JD 20 million in 1963 to over JD 59 million in 1970.

# Manufacturing industry

Jerdan continues to import a significant proportion of its total consumption of mamufactured goods. On the other hand, exports of such goods constitute a limited proportion of local production. As a result, this sector accounts significantly for the adverse trade balance. Insefar as imports of consumer goods are determined by personal income, the increases in the latter as projected in the seven-year plan were bound to cause a deterioration in the p yments position of Jordan unless domestic production was sufficiently expanded to replace imports and/or to increase exports. Such an expansion in production was the objective for this sector.

- These are: (a) shortage of local raw materials and (b) small domestic market.

  Against these, Jordan is favoured by an easily adaptable and potentially productive labour force, a sound transport system, and, established trade connexions with neighbouring countries. Above all, the fact that industry has reached its present level and that the major limitation on faster development has been lack of finance rather than lack of opportunities or entrepreneurial ability, this sector may contribute effectively to the overall development of Jordan.
- The basis of the manufacturing industry programme has been a detailed scrutiny of the viability of individual industries with regard to consumption patterns, potential import substitution, output, and capital requirements. These industries were to be developed by the private sector, with the role of the Government confined to the creation of an economic climate in which industry can flourish through encouragement, technical advice and training, and the establishment of an adequate industrial credit system.
- The quantitative targets for manufacturing industry consisted of inpreasing local production by 62 per cent and exports by 72 per cent between the years 1963 and 1970. Consumption of manufactured goods was assumed to increase by 41 per cent during the seven-year period.
- 49. New products envisaged under the programme are the following:
- (a) food and feed: animal feed, biscuits, confectioneries, gluces and etarch, dairy products, fruit and vegetable juices, table salt, yeast, refined sugar;
  - (b) beverages and tobaccos carbonated beverages;
- (c) textiles and clothing: woollen clothes, underwear, blankets, rugs, cotton piece-goods;
- (d) non-metallic minerals: concrete pipes, ceramics, superphosphates, sheet glass bottles;
  - (e) petroleum refinery: expansion of existing capacity;

- (f) others: commetics, phara scenticals, screws, show polish rails, barbed wire, paper cartons, buttons, detergents, batteries, cuto parts, cardboard, paint, building hardware, plywood, ropus, truck and bus assembly, plastic electrical fittings, corregated cardboard, steel bars, and reinforced coment poles.
- 50. Total fixed capital requirements of these industries were estimated at JD 8.5 million, of which JD 6.5 million were allocated for the purchase of mechinery, JD 0.3 million for land, and JD 1.7 million for taildings.
- 51. The distribution of planned investment in the manufacturing sector and the projects actually implemented during the seven-year plan period are shown in tables 7 and 8.

Table 7. Total investment in the manufacturin; sector during the seven-year plan

(Value in thousands of Jordanian dinars, percentage)

| Sub-sector            | New plants | Existing plants | Potal  | Per gent                              |
|-----------------------|------------|-----------------|--------|---------------------------------------|
| Food manufacturing    | 970        | 1,270           | 2,240  | 20.1                                  |
| Reverages and tobacco | 291        | 1,266           | 1,557  | 14.0                                  |
| Textile and clothing  | 1,436      | 1,577           | 3,013  | 27.1                                  |
| Pctroleum refinery    |            | 560             | 560    | 5.0                                   |
| Non-metallic minerals | 851        | 459             | 1,310  | 11.0                                  |
| Cement                | egi ja     |                 |        |                                       |
| Coranics              | 320        | 339             | 659    |                                       |
| Fortilizers           | 124        |                 | 124    |                                       |
| Glass sheets          | 217        |                 | 247    | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Otho <b>rs</b>        | 160        | 126             | 280    |                                       |
| Other manufacturing   | 2,053      | 3,90            | 2,443  | 22.0                                  |
| Grand total           | 6,452      | 5,981           | 12,443 | 100.0                                 |

Searce: Jordan Development Pourd

of Potash plant excluded.

Includes cosmetics, pharmaceuticals, cardboard, detergent, batteries, automobile spare parts, paint, construction equipments, compressed wood and electric and plastic appliances.

## C. The sear made effects of the 167 and

- Jordan, it may be useful to quote some basic indicators. The total population of Jordan at the end of 1966 was nearly 2.1 million of them 98; thousand lived in the West Bank, or 47 per cent of the total population. The occupation of the West Bank and the Gazastrip brought an excdus from these areas to the East Bank, estimated at 209 thousand persons, mostly tow-income and often unskilled individuals. The population of the East Bank increased as a result of the 1967 war by roughly one-fourth.
- 53. In terms I the effects of the 1967 events on national income, it was estimated that the contribution of the West Bank to gross describe product occunted to 38 per cent in 1965. The contribution of individual sectors in the West Bank to gross describe product is given in table 8 below.

Table 8. Contribution of the West Bank to Jordan's gross demestic product, 1965

|  | Share of the Wort Book to total contribution   | Contribution<br>to ON  |                            |
|--|--|--|----------------------------|
| A Company of the Comp | Per sent   | an militar   |                            |
| Agriculture  | <b>y</b>   | 34.1   | <b>1.</b>                  |
| Inductry   |  | 15.2   | 10.1                       |
| Construction   |  | Service of the control of the service of the servic |                            |
| Electricity and water  | 1  |  | 1.1                        |
| Transportation   | 47   | 12.6   | 8.3                        |
| Wholesele and retail   | tion that and the second secon | <b>114</b>   | a managain <b>BA</b> dan n |
| Bonking and insurance  | 7  | <b>LI</b>  | 1.1                        |
| Real estate  |  |  | errezaren <b>11</b>        |
| Public ecministration  | 1  | 21.4   | 14.2                       |
| Services   | The second of th | 12.0   | 8,5                        |
| ODF (factor cost)  | 38   | 150.9  | 100.0                      |

Scureat N.I. Dajani, The Israeli Aggression, Roomomic Impact, July 1967, p. 2.

This part of the study on Jordan draws heavily on information and statistical data contained in a paper published by N.I. Dajani in Amman in July 1967, and on information contained in Jordan's reply to a U.N. Questionnaire on Economic Trends, Problems and Policies, 1967-1968.

The decline in GNP in 1967 compared to 1966 was alternatively estimated at 45 per cent.

- 54. The contribution of the West Bank to GDP was particularly high for services, transportation and wholesale and retail trade. In agriculture, the centribution of some products was even higher than the one shown in the previous table.
- 35. According to some estimates, the area under fruit, vegetable, ceres. and livestock and poultry cultivation that was in the West Bank varied from 35 to 50 per cent of the total area under cultivation for each entegery of production in the whole country. It was also estimated that the West Bank produced 65 per cent of Jordan's total production of vegetables, 60 per cent of fruits, 80 per cent of clives and 30 per cent of cereal:
- 56. In the industrial sector, the number of enterprises that existed in 1966 in the Most Bank numbered more than 3,500, or about 58 per cent of the total number of industrial establishments in Jordan, employing about 16,000 persons or 45 per cent of total industrial employment 6 (see table 2).
- 57. The occupation of the Wost Bank and the fluctuations that had taken place in Jordan since 1967 have a versely affected Jordan's foreign exchange carnings

This is due to the fact that most of industrial establishments in the West bank are small consumer industries, whereas in the East Bank most industries are large ones which include such industries as cement, phosphato, petroleum refinery, iron foundries and tamery. Industries in the West Fonk ere usually small industries such as food processing and canning, distilleries, scap, handicrafts, wearing apparel, corfectioneries, shoes and furniture.

- ofrom tourism, remittances and experse. The tourist trade, which respected J rdon's balance of payments substantially, has been drastically reduced by the occupation of the holy places. It has been roughly estimated that ancome from tourism has decreased by 60 to 90 per cent and remittances from Jordanian living abroad have declined by more than one-half? In addition, government taxation and tariffs were expected to decline sharply.
  - More significantly are the consequences of the 1967 war in the implementation of the Seven-Year Plan of Jordan. Several projects have been suspended while other projects are being re-examined in light of the present situation. The initiation of several new projects has been delayed.
  - 59. A tight budget for 1968 was prepared. Recurring civil expenditure was elightly lower than that of 1967. In the past, recurring expenditure increased at a rate of 5-12 per cont. In ally.
  - Investment allocations for 1968 were reduced to the low level of JD 27.9 million. Almost one-half of this amount is to be financed from external sources. The planned projects are of the labour intensive type which have a short construction period; their hard currency requirements are low. They are to be carried out mainly in the rural areas and villages, thus surving the dual purpose of being of immense value to the people and, at the same time, reducing the high lovel of unemployment and integrating its undesirable effects. Take projects include road construction, irrigation schemes, low cost housing and tourist's projects.

It is significant to note that despite the substantial loss of foreign exchange earnings, the country's gold and foreign exchange reserves remain relatively high, due mainly to the foreign aid provided by the three oil-producing Arab countries of Saudi Arabia, Kuwaii and Libya, which, following the Khartoum Arab Summit Conference, produced Jordan financial aid totalling \$112 million yearly, of which \$21.5 million had been paid by the end of 1967. (See the Quarterly Bulletins of the Central Bank of Jordan, volume 3, Numbers 2 and 3, 1967).

Table 9. Number of establishments, number of workers employed and value of production in Jordan and the East Bank, 1967

| Industry                | Numb<br>ostabl | er of      |             | or of            | Value of | Production  |
|-------------------------|----------------|------------|-------------|------------------|----------|---|
|                         | Jordan E       | ast Bank   | Jordan      | District Control | Jordan 1 | AND COMPANY OF THE PROPERTY OF THE PARTY OF |
| Mining & quarrying      | 190            | 79         | 4,372       | 2,493            | 3,517    | 2,700   |
| e. Phosphates           | 1              | 1          | 1,347       | 1,345            | 1,870    | 1,870   |
| b. Stone orushing       | 189            | 78         | 3,027       | 1,148            | 1,127    | 440   |
| c. Quarrying            |                |            |             |                  | 520      | 390   |
| . Food Manufacturing    | 1,615          | 738        | 6,905       | 2,933            | 9,463    | 5,395   |
| e. Grain mills          | 324            | 174        | 1,162       | 615              | 3,008    | 2,300   |
| b. Bakeries             | 796            | 372        | 1,824       | 1,219            | 2,001    | 1,128   |
| c. Confectionary        | 123            | <b>5</b>   | 761         | 349              | 881      | 449   |
| d. Vegetable oil        |                |            | 145         |                  | 1,300    |   |
| 6. Olive oil            | 183            |            | 2,049       | 270              | 189      | 21  |
| f. Canneries            | 1              | 2          | M           | 26               | 228      | 149   |
| g. Other                | 184            | •          | 141         | 305              | 1,856    | 1,348   |
| . beverages             | 15             | 18         | 345         | 269              | 621      | 560   |
| . Tobacco               | 8              | 1          | 902         | 716              | 3,169    | 2,507   |
| . Textiles              | 108            | 59         | 2,267       | 1,487            | 2,642    | 2,119   |
| . Clothing              | 804            | 391        | 1,889       | 985              | 1,254    | 762   |
| Pootvear                | 537            | 196        | 1,589       | #36              | 1,011    | 683   |
| . Wood & cork           | 39             |            | 530         |                  | 46       |   |
| . Furniture & fixtures  | 1,093          | 383        | 3,822       | 1,506            | 2,019    | 971   |
| . Paper & products      | 15             |            | 763         | 442              | 415      | 394   |
| . Printing & publishing | 69             | <b>3</b> 5 | 751         | 415              | 8)7      | 407   |
| . Leather & products    | 29             | 12         | <b>2</b> 66 | 21.2             | 474      | 457   |
| Rubber & products       | 93             | 8          | 220         | 146              | 69       |   |
| A. Chemical products    | 49             | •          | 1,125       | 350              | 2,072    | 1,131   |
| . Petroleum refinery    |                |            | 917         | 917              | 4,805    | 4,885   |

a/ Due to difficulties in obtaining information on the West Bunk, these estimates are based on the 1966 census figures, adjusted on the basis of the fluctuations which took place in the East Bank as a result of the 1967 war.

Table 9. Number of establishments, number of workers employed, and value of production in Jordan and the East Bank, 1967 (cont.)

|                         | Industry                 |        | er of<br>ishments | war    | er of<br>kers | (00)     | Production<br>O JD) |
|-------------------------|--------------------------|--------|-------------------|--------|---------------|----------|---------------------|
| anna agai na salah mada |                          | Jordan | East Pank         | Jordan | Lant Bank     | . Jurdan | Hast Pank           |
| 16.                     | Non-metallic minerals    | 231    | 115               | 1,949  | 1,413         | 2,657    | 2,154               |
|                         | a. Cement                | 1      | 1                 | 604    | 604           | 1,530    | 1,530               |
|                         | b. Tiles                 | 173    | 91                | 1,133  | 693           | 1,035    | 552                 |
|                         | c. Other                 | 57     | 23                | 212    | 116           | 92       | 72                  |
| 17.                     | Basic metal products     | 436    | 242               | 3, 454 | 2,1/3         | 2,522    | 1,571               |
| 18.                     | Non-electrical machinery | 4      | 4                 | 23     | 18            | 17       | 14                  |
| 19.                     | Electrical machinery     | 208    | 132               | 784    | 603           | 415      | 376                 |
| 20.                     | Transport equipment      | 219    | 145               | 1,156  | 852           | 485      | 379                 |
| 21.                     | Miscellaneous            | 474    | 113               | 1,0.,2 | 235           | 961      | 359                 |
| Market Service          | Total                    | 6,234  | 2,711             | 34,771 | 18,979        | 39,611   | 28,273              |

Source: Department of Statistics, Industrial Consus, 1967, January 1968.

# II. GOVERNMENT ROLE IN INDUSTRIALIZATION

61. Industrial activity in Jordan falls mainly within the private sector. The government, however, performs a crucial role which consists in (a) providing the proper environment for industrial development; (b) participating in the equity of industrial projects; and (c) creating an adequate institutional and financial structure to stimulate industrial development. This role is undertaken through a number of (byernment ministries and agencies currently concerned with industrial development. These are: the Jordan Development Board, the Ministry of National Economy, including the recently-established Jordan Centre for Industrial Development, the Ministry of Finance and the Jordan Industrial Development Bank.

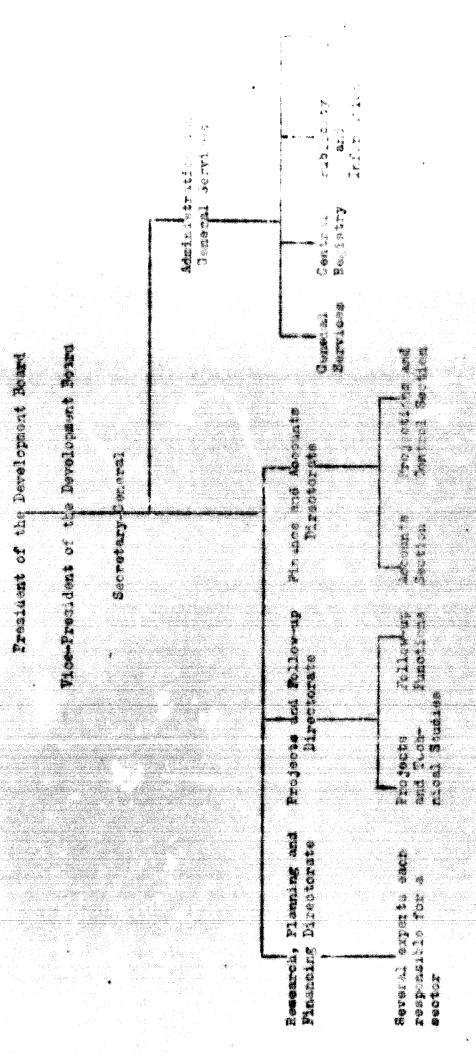
# The Jordan Development Board

- 62. The first institution to be created for the preparation of the annual programmes, for the planning of projects and for the setting of priorities was called in 1952; it was called the "Development Brand". Three times since its establishment, the Board was reorganized, the last time in 1965 when it was reorganized in order to increase its effectiveness as a planning and follow-up agency.
- 63. The Boarl is an autonomous agency composed of representatives of a number of ministries and the private sector; it consists of three technical directorates (see chart 1). These are (a) Research, Planning and Finance; (b) Projects and Follow-up; and, (c) Finance and Accounts. The Board's staff include specialists in economics, finance, accountancy; engineering, agriculture, geology, etc.
- 64. The main functions of the Board are:
- (a) to prepare comprehensive economic programmes for the development of Jordan's economic resources;
- (b) to prepare, in co-operation with the concerned ministries and departments, annual implementation programmes for projects approved in the plan;

- programmes in the light of sarrent development and practical requirements;
- (a) to prepare studies and agreements for projects financed by foreign sources and to make arrangements for the implementation and continued supervision of these projects; and,
- (e) to prepare studies pertaining to the negatiation of loans between the Jordan Overnment and other external authorities for the financing of projects.
- it only retains the right to supervise and review the progress of work underway. But, the Board is empowered to take over implementation if projects require a new technical body which does not exist in any of the ministries, or it they fall within the responsibility of more than one ministry.
- 66. Implementation by the Board follows one of the following methods:
- (a) creation of a specialized implementation department within its ablighment;
- (b) giving the department concerned autonomous powers or attaching it to any of the concerned ministries if the project happens to be of a permanent nature; or,
  - (c) tender the implementation of projects.

## Evaluation of projects

- 67. Initiation and evaluation of new projects is the main activity of the Board.
  The Directorate of Planning is responsible for the initiation and preparation of
  feasibility studies; the responsibility of the Directorate of Projects and
  Follow-up is confined to follow-up of implementation.
- 68. The identification and initiation of industrial projects is based on two factors: the existence of raw materials and the availability of markets. Normally, the Board requests the Jordan Centre for Industrial Development, or foreign consultants, to carry out pre-investment surveys for the preliminary evaluation of projects. The results of these surveys determine whether the Board should go into the second stage of preparing a full feasibility study.



Source: He healte Kingdom of Fordar, Derelopment Board, Objectives Firetions -Organizations, Cotober 1967, p. 21.

- The Development I and is the only governmental agency which is empowered to approve the carrying out of fermibility attribute by the Jordan Centre for India rual Development or by foreign concultants. Approval has recently been given to the Centre to undertake the preparation of a fermibility study for the metal transforming industries. Other consultants have also been emtacted for the preparation of feasibility studies for caramics, glass, electrical fittings, fruit and vegetable processing and vegetable seeds. West Germany is currently undertaking a feasibility study for a Triple Super-phosphate project in Jordan.
- In addition to the feasibility studies which have been prepared recently by the Centre, the following is a list of the feasibility studies prepared by the Industrial Research Institute in Lebanon. All of these feasibility studies were completed in the early sixties:

| glose industry      | (1962)              |
|---------------------|---------------------|
| concrete pipes      | (1962)              |
| cardboard           | (1961)              |
| ceramic rew materi  | als (1962)          |
| glass raw materials | (1962)              |
| superphosphates     | (1961)              |
| ceramic tiles       | (1961)              |
| nitrogenous fortili | ser <b>s</b> (1961) |
| glass containers    | (1961)              |

## Ministry of National Economy

## Directorate of Industry

- 71. Within the Ministry of National Economy, the Directorate of Industry is divided into three sections, namely:
  - (a) Industrial Licensing;
  - (b) Industrial Studies; and,
  - (c) Follow-up and Supervision.

- 72. The functions of the Directorate of Industry may be becomerized as follows:
- (a) supervision of developments in the industrial sector and the licensing of industrial projects;
  - (b) proparation of industrial legislation;
- (c) co-operation with other agencies in the planning of industrial estates and ir. providing these with the necessary facilities;
- (d) preparation for and follow-up of activities related to industrial co-ordination with other Arab countries; and,
- (c) co-operation with other Government agencies in the development of technical training.
- 73. The activities of the Industrial Studies Section can be divided into three closely inter-related divisions; namely,
- (a) preparation of pre-investment budies for new projects and evaluation of applications for protection;
- (b) participation in the collection of industrial data and preparation of the industrial plan in co-operation with other agencies, capecially the Jordan Development Board, the Jordan Centre for Industrial Development and the Directorate of Statistics; and,
- (c) preparation of standard forms for licensed projects, a directory of industrial enterprises in Jordan, and a record of all licensed projects, including relevant details as to size of capital, expansion, etc.
- 74. The follow-up section undertakes, among other things, to study and analyze the problems and difficulties faced by industrialists and to formulate recommendations in this respect. The section also co-operates with other agencies in developing industrial training programmes.
- 75. Project evaluation is embodied mainly in the licensing policy of the Directorate of Industry. Enterpreneurs desirous of establishing new industrial

erterprises have to apply to the Directorate for Licensing on a form which contains basic information, such as production place, fixed and operating costs, capital, expected profits, type of product to be produced, size of the dementic market, and other detailed information related to existing products and market prices.

- 76. Once this information is presented to the Directorate of Industry, the Industrial Studies Section undertakes preliminary pre-investment studies to determine the viability of projects. These studies analyze projects in terms of invested capital, products to be produced, domestic market, accessic production, price per unit of domestic and imported products, takes imposed on locally produced and imported goods, rew materials used and their sources of supply, production plans, and comparison between the cost of production of domestic and imported products.
- 77. The Directorate of Industry uses the following criteria in evaluating projects:
- (a) economic feasibility of projects in terms of quality and cost of product in relation to-similar products imported in Jordan;
- (b) extent of import substitution, taking into account the volume domestic consumption and the contribution of projects to Gross National Product;
  - (c) increase in export potentialities;
- (d) maximum exploitation of domestic raw materials and agricultural products;
  - (e) effects on employment;
  - (f) fair distribution of industries among different regions;
  - (g) levels of protection needed;
- (h) avoidance of flooding the market with projects producing similar products;
- (i) effects on bilateral and multi-lateral agreements with other countries; and,
- (j) availability of skills and effects on the development of training programmes.

78. This type of malysis may be abaquate for a prelimator of large of large projects. But, in the case of large scale projects, more intensive studies are carried out by the Jordan Bevelopment Brand and the Jordan Centre for Industrial Development.

# Jordan Centre for Industrial Development

- 79. The Jordan Centre for Industrial Development was established in 1966 within the Ministry of National Economy with assistance from the United Nations Development Programme/Special Fund.
- 80. The main functions of the Centre as provided in its plan of operations irolude the following:
- (a) advising and assisting in the preparation of a programme of industrial development;
- (b) keeping under review the order of priorities and mivining the Government on its industrial policies;
  - (c) conducting feasibility studies;
  - (d) providing management training and advisory services;
- (e) establishing and improving standards and quality control of products, particularly with a view to industrial exports; and,
- (f) developing industrial estates and other means which will Lid the development of the industrial sector.
- 81. These f notions are distributed among four specialized sections. These are:

Industrial studies section: In consultation with the Jordan Development Board, this section is responsible for the development of the industrial programme, including the initiation, formulation and evaluation of industrial projects.

Standards section: This section prepares standardisation legislation and formulates specifications and standards for various products produced in Jordan.

- C--

\*\*

1

.

Expert procts resistant This section studies and recommends ways of receiving the level disputs.

Management scotter. The amagement section offers advisory services to private industries and erconizes management training courses. It is sub-divided into four units, each dealing with a specialized area of industrial management. These ares (a) administration; (b) production; (c) accounting; and, (d) markstim and orders.

- by. The role of the Centre in project evaluation is reflected in the continuous preparation of pre-feosibility studies whose peops and centent are wider than those prepared by the Directorate of Industry. The following is a list of preferability and market studies completed by the Centre by the end of March 1970:
  - 1. Phoarbate fertilizers.
- 2. Structural clay, pattery and non-motallic products on I raw materials requires sats.
  - 3. Ceremic industry in Jorden.
  - 6. Well tiles and sanitary ware in selected Arab countries.
  - 5. Laboratory evaluation of indigenous ceremic raw materials .
  - 6. Measuring of firing temperatures in Jordan Clay Works Company.
  - 7. Conglements pipes.
  - 8. Carton and borneds printing requirements.
  - 9. National educational printing requirements.
  - 10. Public sector printing requirements.
  - 11. Paper and Cardboard Industry Ltd.
  - 12. Printing Industry.
  - 13. Tywood.
- 83. Once completed, these studies are put under the disposal of the Directors of Industry and the Jerdan Davelepment Board for licensing purposes and for the resparation of an industrial programme. The Centre is not involved in the followinges of implementation.

1.

# The Centre's approach to project identification-

- The Jordan Centre for Industrial Development observed that the basis of expanding the menufacturing sector is the development of the metal and metal-transforming industries. This type of industry has the important property of accing as a catalyst in industrial development by promoting new enterprises and consolidating the existing ones, thus creating a multiplier effect necessary for expansion. In addition, a large part of the products involved may be produced by medium and small-scale industrial enterprises requiring a relatively small amount of capital, thus making it possible for an individual or a small group of enterpreneurs to initiate an enterprise; quick and generally high returns can be achieved and the technologies involved are easy to learn and to copy.
- 85. Maximum advantages could be obtained by a careful selection of products based primarily on a policy of import substitution and an analysis of inter-industry relationships. However, the main objective of the import substitution policy should be the establishment of a basis for the gradual development of industry and the use of new, simple manufacturing techniques by relatively labour-intensive procedures rather than the objective of overcoming the balance of payments problem.
- 86. Selection should be based on the following groups of products:

# (a) Containers and tinware

ng

ur.

ate

Tin cans, miscellaneous metal covers, timplates, capsules, caps and simple items produced in long series by stemping with multiple cutting and shaping dies.

These products are manufactured by means of presses, guillotine cutters or shears, and special flonging and sealing machines.

# (b) Hot-forged and hot-pressed products

Agricultural tools, hand tools, ploughs, etc.

<sup>8/</sup> Extracted from a memo prepared by Alexander Feraldis, Acting Project Manager, JCID, Amman.

#### (c) Wire products

Nails, steples for fencing, miscellaneous wire products, metal screening, mesh.

Produced by special machines and shaping dies;

#### (d) Small products, primarily stamped

Hardware, locks and padlocks, miscellaneous fastenings, plugs, switches, sockets, etc. Products shaped by pressing, cutting, drilling and bending, manufactured in long series (simple parts which do not require high tolerances);

## (e) Small products, primarily machined

Hardware, locks, etc., parts of ovens, stoves and water heaters, screws, nuts, etc. Products manufactured primarily with metal-outling machine-tools (lathes, milling-machines, planers, shapers), requiring certain working tolerances, and which can be manufactured in short series;

## (f) Boiler shop products and metal structures

Boilers for farm use and accessories, metal siles, steel tanks and receptacles, girders, structural shapes, etc.

Products for which plate, tubes and profiles are used as raw materials manufactured by means of bending, cutting, and joined either by welding or riveting.

## (g) Sheet-metal products

Small tanks and various receptacles, metal drums, parts of ovens, stoven and water heaters, agricultural pulverizers, kitchenware, etc.

Products manufactured by stamping and bending; and,

# (h) Light machinery and machine parts

Pumps, oilpresses, spare parts, castings, etc.

Products manufactured primarily by machining, with strict quality control and great precision.

- 87. The Centre plans to examine and advise on the types of small-scale metal and metal-transforming industries which can be established in she country, and in particular it will:
- (a) draw up a progresse of development of small-scale in varies as part of the national industrial development plan, taking into account import substitution, trends of demand, market opportunities, etc.;
- (b) undertake surveys of possibilities of development of sacil-scale industries on a national basis;
- (c) carry out detailed feasiblity and pre-investment studies on the priority industries, including specifications, estimated cost of plant, machinery, raw materials, etc. as well as profitability estimates both from the enterprenerial and national points of view;
- (d) examine the establishment and operation of industrial estates having in view the common service facilities, such as foundry, forgs, electroplating, etc.; and,
- (e) examine the possibility of an industrial assistance u.cv ce, as part of the industrial estate, providing advice and assistance for all technical questions (maintenance, repair of equipment, quality control, cost accounting, marketing and so on).
- 88. Since the object is to create the necessary background for development through the strengthening of industrial inter-relationships, the effectiveness of such development depends strengly on the establishment of an industrial estate.

# Two cases of project development in Jordan

89. This brief rate is intended to illustrate the process of planning of industrial projects in Jordan. For the purpose of relating, step by step, the procedure involved, two specific projects were selected from among those that have so far reached an advanced stage of planning. These ares the proposed Triplo-Superphosphate plant, Agaba and the proposed Ceramic Plant, whose location is to be decided upon at a future stage. Both projects have been processed by the Jordan Centre for Industrial Development.

# on the most elementary of the Plant at Archa

- 90. Thosobox rock has been expected for many years in Jerden, especially in its mills at Bunchia m., more recently, at El-Hear. In 1966, production and expect reached approximately one million tons per year. Under the Seven-Year Programme for Economic Development of Jordan, 1964-1970, a terms of two million tons per year was set for 1970.
- 91. The main proviews in the development of phosphate have not been those of cutlets or of production, but rather the serious limitation of the capacity of the inland transport system, both in Jordan and through the neighbouring countries of Syria and Lebason.
- Surprisingly, the 1964-1970 programme gave no priority to the further processing of local phosphate into more valuable product; despite/that such an opportunity had been at times considered by the Government. Thus, at the request of the Government, the Industry Institute of Beirut was commissioned in April 1961, to carry out a feasibility study on the local manufacture of phosphatic fortilizers. The study concluded that a single superphosphate plant with an installed capacity of 4,500 tens per year, located at Ruseifa and catering for demestic consumption only, was quite a feasible project even when operating, resembly for the initial few years of the project's life, at the break-even point of 2,452 tens per year, located at full capacity<sup>2/</sup>.
- Jordan and "MP/Special Fund to establish the Jordan Centre for Industrial bevelopment, a number of investment opportunities, which was under consideration for some time, was reviewed by the JCID and the specific project of manufacturing phosphatic fertilizers was thought to be among the most promising, even under the prevailing difficult circumstances of Jordan.

<sup>9/</sup> At the time, it was estimated that the rate of return on capital is 11.4 per cent when the plant operates at full capacity.

- 94. A consultant was commissioned in September 1967 and assigned, under the supervision of the JCID, to carry out the pro-investment study involved. The related report was submitted by the consultant on 20 February 1968. The major recommendations could be summarized as follows:
- (a) dementic demands for fertilizers in Jordan were not significant enough to fully support a viable scale of fertilizer manufacture. Export to countries located scuth and east of the Suez Canal should be scught as an indispensable complement to the local market;
- (b) the proposed fertilizer plant should not be involved in the manufacturing nitrogenous fertilizers because the Arabian Gulf area was expected to have great surplus of that type of fertilizer in the very near future; without the advantage of cheap resources of oil or gas, Jordan would not be able to compete suggesfully with the oil-producing countries. The small quantity of refinery off-gas available in Jordan was no help in this respect; and,
- (c) Jordan should take full adventage of its being well endowed with phosphate rock. Provided the necessary sulphuris imported it would be feasible to develop a triple-superphosphate plant located at Aqaba Port and catering primarily for export. The minimum installed capacity should be at least 200,000 tons of TSP per year.
- 95. The study referred to in paragraph (94) above was, however, only a preinvestment study in the sense that, in order to further ascertain the project
  feesibility, a number of crucial issues had still to be clarified. Transportation
  costs of phosphate rock, which represented a significant input, should be
  investigated further in the light of decisions the Government may take as to the
  basic infrastructural network, whether road or railways, that had to be completed
  and strengthened between the phosphate mines and the Port of Aqaba. The import of
  sulphur as essential material input, should be looked upon more carefully. The

<sup>10/</sup> Kr. K.K. Aelto, UNIDO.

that tre expected to be or atreas very four in the Guli avera

96. The JOID was, in 1969, is the wese of following-op the project, and further stages of feasibility study preparations were under consider tion with a specialized oppositing firm. Also, preliminary contacts were initiated by the JOID with international banking institutions for the financing of the project. In the meantime, however, the Jovernment of Jordan succeeded in concluding with the Covernment of the Federal Republic of Germany a bilateral agreement whereby a number of Jordanian projects were to be financial by Germany, including the proposed triple-superphosphate plant at Aquba and the railway apur, that was the missing link in the existing network, from Macin to Aquba.

#### Geramic.

- 97. The coracic industry has been considered a worthwhile project in Jerdan for sometime now. The Government of Jordan has commissioned several preliminary studies in this respect, especially the following:
- (a) deposits of ceremic raw meterials in Jordan, December 10, 1960. Battels Institute, Frankfurt,
- (b) analysis and evaluation of Jordanian certain raw materials, January 10, 1961. Industry Institute, Beirut;
- (c) feasibility study of a coremic whitewere industry, wall tiles, sanitary ware and dinner-tare in dordan, Industry Institute, Beirut;
- (d) in-plant trials with Jordanian ceramic raw materials, July 10, 1962.
  Industry Institute, Beirut;
- (e) a market survey of ceramic products in Jordan, March 14, 1961.
  Industry Institute, Beirut.
- (f) evaluation of ceremi, rew materials in selected areas, August 31, 1964.

  Jordan Office for Geological and Engineering Services, Amman, Jordan; and,
- (g) market survey of wall tiles, sanitary were and dinner ware in Jordan, September 30, 1965. Buretu of Engineering Services, Amman, Jordan.

as a jeint venture in which the Compression of Jordan, and a production of the Compression of Jordan, and a production of the Compression of the rest of the contractions are patternabled, before offering the rest of the company or vinegae contracting to a commitment formular further as vestigations and the fersibility of the industry. An invitation for leader was insued to interested firms on the basis of the following proposed scope of work or the feasibility study:

- (a) the study of markets, both domestic and export :
- (b) a re-appraisal of the project's feasibility in the light of the market studies indicated above;
- (c) if the project's teamibility is confirmed, mivious as to plant's \*
  location and proparation of plant's specifications and related tonder documents:
  - (d) assistance in analysing offers and selecting contractors; and,
- (e) supervision of construction work, and assistance in tecting and starting up the plant's machineries.
- 39. In 1967, the feasibility study of the ceramic industry project in question was assigned to the JCID. In March 1968, an interactional expert in correct industries was recruited and appointed to the JCID. The expert undertock to review the scope of work for the feasibility study cetablished by Jordan Ceramic Industries Co. referred to above and recommended a number of amendments with a view to elucidating some of the issues involved and, especially, to carry out, with the help of the limited manpower and facilities then available in Amain, some preliminary investigations on raw materials and markets that were deemed to be desential for further stages of the project's study.

<sup>11/</sup> Mr. Zdinek Engelthalor was recruited by UNIDO and stationed at the JCID.

I may the army everyone of a complete compality of nervices on a content of a few a

- (a) replicat testing of raw cottrible for the play and if continuity of an alterial qualities and appointment or and products;
- (b) propering detailed design openifications of plant's machineries and equipments and related books of tenior;
- (c) assisting in analysis of ffers received for the supplement of matteriors and an election of contractor(s);
- (a) increating equipment and machinery delivered at plent's and machinery delivered at plent's and
- (e) ptart-up production, testing performance guarantees and checking quality
- 101. A pre-investment study for a coronic industry in Jordan was completed by the cold in Bovember 1968. The curvey o markets for wall tiles and samitary weres in neighbouring arab countries was completed in carly 1969. The general conclusions of the JCID studies involved were as follows:

# (a) As reserve the proposed somefacture of wall tiles

- (i) the decand for wal tiles in Jordan, amounting to 1,500 tone per year, was too small to support an import-substitution project.

  Markete in neighbouring area countries should be sought in order to raise the plant's production to 5,000 tone per year which will, then, ensure a return of 10 per cent on an investment estimated to be roughly JD 624,000;
- (ii) loom resummerials were decided to be suitable for wall tile body;
  but glore and stains would have to be imported; and,
- (iii) the plant should be designed so as to allow at the minimum cost, the addition of a semitary were production line, an appropriate, in the future.

# (b) As regards the proposed manufacture of sanitary ware

- (i) as in the case of wall tiles, markets of neighbouring Arab countries should be sought to complement the Jordanian demestic demand up to a minimum economic plant capacity of 3,000 tons per year. The return would be, then, about 31 per cent on an investment estimated to be around JD 537,000;
- (ii) because no deposits of high-grade body raw materials have been found in Jordan at the time of the JCID Report, the raw materials involved should be imported. If, in the future, such deposits were to be found and the import of high-grade body raw materials discontinued thereafter, the return on investment could be expected to increase up to 44 per cent instead of 31 per cent as indicated in (i) above.
- 102. The study and planning of the proposed ceramic project is reported at present to be progressing satisfactorily as planned by the JCID.

# Investment Promotion Office

- 103. The Investment Promotion Office was created under the Encouragement of Investment Law of 1967 as an integral part of the Ministry of National Economy. Its functions were defined as follows:
- (a) to collect, co-ordinate and publish studies necessary for the encouragement of investment of local, Arab an' foreign capital in various development projects and to maintain liaison with potential investors;
- (b) to provide statistical, economic, financial and legal information, with a view to acquainting potential investors with all aspects and institutions in the country; and,
- (c) to facilitate the procurement of entrance visas and residence permits for now-Jordanian businessmen visiting the country for this purpose.
- 104. The Office plays a key role in determining the extent of the facilities and exemptions that should be granted to prospective investors. Projects applying for

facilities and exemptions are studied by the Office on the basis of the preinvestment studies undertaken by the Directorate of Industry or the Jordan
Development Board; its recommendations and comments are put before the
"Encouragement of Investment Committee" for final referral to the Council of
Ministers for approval. Implementation of projects is followed up by the Office
with a view to checking on the proper use of facilities granted.

105. On the encouragement side, the Investment Promotion Office publishes regular information on investment opportunities in Jordan. Recently, it has publicized information on industrial opportunities believed to possess definite attractions to investors. These industries include: food processing, commic products, glass sheets and glass containers, tourism facilities, ancillary industries related to phosphate mining and potash. The Office already has in its possession pre-investment studies for some of those industries while others are being contemplated. Also, the Office advises and encourages potential investors to carry out their own pre-investment investigations prior to embarking on proposed ventures.

106. The following are samples of the information publicized:

# 1. Food Processing Industry

New investment opportunities due to the opening of new land as a result of the initiation of the East Chor Canal Project and the existence of a substantial local market.

# 2. Coramic Products

- (a) local market: In 1964, Jordan imported in excess of 2,600 tone of ceramic products, with a value of more than JD 400,000;
- (b) available raw materials. (i) suitable clay for the manufacture of fine ceramic products such as wall tiles and dinner ware; (ii) suitable sand that can be used as flint; and, (iii) suitable granites in abundant quantities in the Aqaba region which may be substituted for foldspare.

#### 3. Sheet glood and stone e atminers

- (a) Market: In 1967, in oris of (a) gland bottler, jour, into not the like amounted to 1,000 tens; (ii) glass were amounted to more than 1,000 tens; and, (iii) undrawn and drawn glass amounted to more than 2,000 tens. The value of these total imports of glass and glassware amounted to JD 350,000;
- (b) raw material availability: suitable high-quality eand for the production of games sheet and containers existe in extensive deposits in various areas in Jordan; hence, wide choice of scleetien of plant site exists; and,
- (c) studies by the Battelle Institute of Frankfurt, West Germery and by the Industry Institute, Beirut, emphasized the availability of high quality sand deposits and suggest :
  - (i) the 1. middlity of a plant for the manufacturing of approximately 2,000 tons of flat glass per year with a full capacity of approximately 3,000 tons per year. This plant is expected to capture 75 to 85 per cent of the flat glass market; and,
  - (ii) the feasibility of a plent for the manufacture of 1,500 tons
    per year of bottles and 1,000 tons per year of tumblers and
    other glass items. There products can be precised at prices
    lower by approximately 10 per cent for bottles and 15 per cent
    for tumblers then corresponding import prices. The project is
    expected to capture 75 to 80 per cent of the bottle market and
    100 per cent of the tumbler market, and may, in admition, have
    a good potential for export.

# 4. Industries related to Phosphate Mining

(a) phosphote experts constitute 40 per cent of Jordan's total experts. The use of fertilizers has been increasing considerably due to the high rate of population increase and the urgent need to provide more foodstaff.

- (b) firstbility study to set up a fortilizer plant in Jordan undertaken by a UNIDO Consultant in 1968 suphazised that raw materials for nitrogen fertilizers are absorbed (except wester from the Petroleum Refinery). Other countries in the Bear East are rish in raw materials and new large plants are already operating in the region, while others are being planned. It is expected that the supply of nitrogeness fertilizers will exceed demand in the near future; and,
- (a) Jordan has ample supply of phosphete but elemental sulphur or sulphidic ords have to be imported. A plant with a capacity of 200,000 tons of ISP was recommended.

#### 5. Potesh

A feasibility study prepared by a private consulting firm and reviewed by international bodies coseluded that:

- (a) the establishment of a plant with a capacity of one million metric tens of potash per year is feasible;
- (b) capital requirements are US \$88 million (including working capital and interest during construction);
- (c) for long range appraisal, the price applied would ove a rate of return on equity equal to 26 per cent; and,
  - (d) technically, the project was found to be acound and femible.

# Encouragement of Investment Committee

in 7. The Encouragement of Investment Committee was also created in 1967 under the new Encouragement of Investment law; it is composed of representatives of a number of ministries, government agencies and the private sector and is concerned with the encouragement of local and foreign investment as well as with the creation of a favourable atmosphere for such investment.

- 108. Two of the norm functions of the Committee and is consider paration for the invostment of Arab and force, a capatal; one to make a process for facilities and exemptions of local and foreign investors. The Committee's recommendations are subject to the approval of the Council of Britisters.
- 109. Although no feasibility studies are prepared by the Committee itself, the Committee, nevertheless, evaluates projects on the basis of existing studies taking into account national as well as commercial profitabilities.

#### Kinistry of Fina.ce

110. Involvement of the Ministry of Finence in the process of industrial development planning takes two main forms: (n) equity participation in industrial ventures; and, (b) the granting of such facilities as tax exemptions, protection and concessions to industrial enterprises.

# Emity participation

- 111. One of the most effective instruments for the encouragement of industry in Jordan has been the purchase by the Government of shares in new injectiful enterprises. To some extent, this policy has been a step-gap because of the copital shortage in the country. The extent of Government equity porticipation in major industries has been considerable. The covernment of Jordan is a shareholder in a number of large industrial enterprises (see rable 10). As of 31 December 1969, Covernment inventments in such ventures amounted to JD 12.1 million, or to 32.8 per cent of the total padd-up capital.
- the establishment of new enterprises with the understanding that the government would dispose of its interests as soon as private investors and be found. The returns on capital invested by the Government have, a some cases, been, high enough to inhibit, for budgetary consideration, the side of government-owned chares.

Table 10. G. vernment equity particulation in 27 Japanetic for Companies as on 31 December 1969 (in Japanetic for Companies)

|  | Enterprise                                       | Faid-up cepital                             | Government share |
|--|--|---|------------------|
| de compression de la compression della compressi | Je . The Coment Footonies Co.                    | 4,500,000                                   | , 8,227,500      |
| Ž, s   | Jordan Petroleum Refinery Co.                    | 8,000,000                                   | 417,500          |
| Şa.  | erdan Phosphate Mines Co. Ltd.                   | 3,000,000                                   | 1,904,413        |
| 4  | Pho Jordan Vegetable Oil Industries              | Co. 500,300                                 | 178,806          |
| Ç., .  | ordan Fisherius Co.                              | 100,000                                     | 16,357           |
|  | The Areb Pharmacenticals Memufecturi<br>Co.      | ng<br>250 <b>,0</b> 00                      | 55,000           |
|  | The Jurd <b>an Paper Industries Co. Ltd.</b>     | 600,000                                     | 367,715          |
| ١, ,   | Iord on Tanning Co.                              | 400,000                                     | 100,100          |
| . i  | ALIA The Royal Jordanian Airilnes Co<br>Ltd.     | •<br>3 <sub>*</sub> <b>0</b> 00,00 <b>0</b> | 3,000,600        |
| θ.   | Mordan Hotels and Tourist Co.                    | 723,400                                     | 620,000          |
| 1. 1   | irat rotash Co.                                  | 4,501,000                                   | 500,000          |
| A A  | ljioan Electric Co.                              | 1,000,000                                   | 178,852          |
| 3. 7   | Pac Jordanian Electric Power Co.                 | 2,500,000                                   | 33,528           |
| 4.1  | Holy! and Hatels Co.                             | 600,000 <b>∗</b>                            | 500,030          |
| 5. 1   | The I.C.A. Co. Ltd.                              | 1,000,000                                   | 28,6%            |
| 6. 1   | iimweh Mineral Wators Co.                        | 85,000                                      | 35,000           |
| 7. 1   | laman Union Bus Co.                              | 800,000                                     | 249,810          |
| 8. 1   | The Jordan Confectionary and Chocola<br>Go. Ltd. | le 150,000                                  |                  |
| ). "   | The Jordan Worsted Mills Co. Ltd.                | 450,000                                     | 110,800          |
| 4). I  | Carrist Transport Co.                            | 300,000                                     | 25,.20           |
| 1. )   | industriål Development Co.                       | 250,000                                     | <b>70,5</b> 75   |
| 12. 9  | The Jordan Dairy Co.                             | 100,000                                     | ?£,500           |
| 0. 1   | The Jordan Bakery Co.                            | 100,000                                     | 26,000           |
| 4. A   | iqaba Hotels Co.                                 | 300,000                                     | 130,000          |
| 5. 1   | ndustriat Development Bank                       | 3,000,000                                   | 1,000,000        |
| 6, 1   | Institute of Marketing Agricultural<br>Products  | 600,000                                     | 200,000          |
| - Seite Marie Con. 1   | Total  | 36,884,400                                  | 12,074,114       |

Bourge: Bulletin of the Ammon Chember of Industry, Fo. 45 Feb. 1970, p. 19.

# 2 Borners and Market Logic and

- manion a such a discourse the formal to the arrest country, we discourse a formal entering the concession, provide the concession, provide the concession and to 50 years of frenchise. For the duration of the concession, Jerdan under the prong other trings, to prohibit the catally absent of possibility firms and to prohibit protection to the franchised enterpresses.
- 114. Other types of facilities granted to approve landstries include exception from our constant detics and other face in respect of imported mechanics, equipment and consideration materials, full or aption from indeed to for special period and protection from foreign a well as local as position through the important of restrictions on the important similar natural actors or the establishment of identical descents, industries.

# The Industrial Devolute of Book

## lumearial eredit

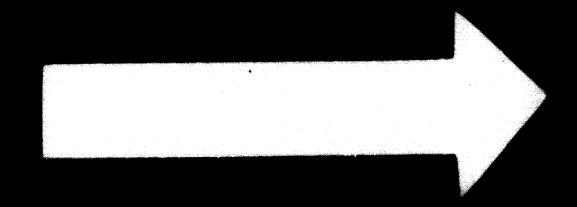
- it; It has a grown recognized that secretty of operal funds was one of the major obstacles from industrial growth in Jordan. To alleviate the situation, the Government orested the Industrial Arvelope at Ford (IDF) to Assert 1957. Leans said out by IDF between Agrest 1957 and the and of June 1965 amounted 5 about 30 1 million.
- 116. It is 63, it was remissed that the IDF ocald not meet the credit demands of industry. It was felt that it was necessary to outsilish an expended institution with adequate resources to take over the functions of the TOF. The Industrial bevelopment Bank was, therefore, created in Jul, 196°, as a predeficiently private institution with an anthorized capital of JD 3 million. Of this, the givenment was to participate to the extent of JD 1 million, and the remainder was to be issued for public subscription. The bank commenced its operations on 15 October 1965, with a subscribed empited of JD 2.24 million.

The brista of collect one:

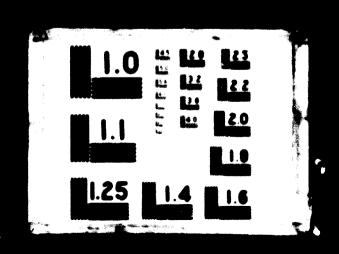
- (a) to ancourage, notavete, count, expand and develop industrial projects;
- (b) to ancrease opportunities of work in the country;
- (c) to assist in developing an organized credit market in the country;
- (d) to encourage small-scale industries through the establishment of apparative societies and to support these industries by providing them with technical assistance and leans; and,
- (e) to encourage the financing of industrial projects from internal or external public, private or international sources.
- 118. The bank is divided into four mein sections. These are:
  - (a) the technical meetica;
  - (b) the investment section;
  - (c) the financial unotion; end,
  - (d) the whitefrative section.
- lig. However projects which apply to the Bank for loans are required to fill contact forms based on questionnaires prepared by the Directorate of Industry. On the basis of these forms, the various technical sections at the Bank report on the economic, commercial and technical feasibility of projects. In determining the issuance of loans, the Bank tries to balance between its role as a development bank and its role as a semi-commercial bank.
- The Industrial Revelopment Bank does not initiate new projects. Its role in project evaluation is restricted to the semi-commercial pro-investment studies which are carried out specifically for the purpose of granting loans. Fellow-up of projects is undertaken for the specific purpose of ensuring the proper use of loans granted. Appendix tables 6 and 7 illustrate the volume of the Bank's eparations between 1966 and 1968.

# Chamier of Industry

- 121. The Chamber of Industry was established in 1967 to represent and assist private industrialists in Jerdan.
- 122. Newbership in the Chamter of Industry is compulsary for all licensed adustrial establishments. The Chamber maintains along relationships with industrial planning matherities and advises the latter on matters related to industrial development through various means, especially through the Chamber's representation at:
  - (a) the Committee for Encouragement of Investment;
  - (b) the Permanent Committee for Foreign Pairs;
  - (a) the Export and Import Committee; and,
  - (d) the Board of Directors of the Industrial Development Bank.
- 123. No feasibility studies are prepared by the Chamber, since these are carried out by the Jordan Development Board and the Jordan Jenter for Industrial Development. However, the Chamber helps small industrialists in reviewing the profitability and economic feasibility of their planned projects.
- 124. The Chamber of Industry assists in the initiation of projects by drawing the attention of potential investors to feasible and profitable projects. Its role in initiating industrial projects is, however, limited to small-scale industries.
- 125. During 1958 and 1969, twenty four industrial compenies were registered at the Chamber of Industry with a total authorized capital of JD 650,998. The size of these enterprises ranged from JD 500 to JD 200,000; the majority of these projects are of small size type, whose activities are distributed among mining, food processing, beverages, textiles, clothing and feetwear, furniture and fixtures, chemical products, and non-electrical machinery.



74.10.2



# III. ONTHREADY AND CONCINETOES

- Up to 1000, the development i industry in discount. Then crite inpresent the manufacturing increased from JP 6.0 million in 1959 to JP 17.0 rillion in 1966, or by about 183 per cent in secon years. The share of industry in met national product (at factor cost) rose from 6.9 to 10.7 per cent during the same period. This structural shift, slight as it may seem, indicates that industry has become an important element in the economy of Jordan.
- has risen from the 1967 war, have periously affected the economic development efforts of Jordan, including the growth momentum which had just been started in the industrial sector. The number of industrial enterprises that existed in the West Bank in 1966 constituted around 58 per cent of the total number of industrial establishments in Jordan. These establishments employed around 45 per cent of the total industrial employment.
- Of particular eignificance are the effects of the 1967 war on the Seven-Tear Programme, 1964-1970, of Jordan. The implementation of several projects had to be suspended while others are being re-examined in the light of the present situation. The invitation of several new projects have been delayed.
- Although industrial activity in Jordan falls mainly within the private sector the Government, nevertheless, performs a crucial role which consists in (a) providing the proper environment for industrial development; (b) equity participation in industrial projects; and, (c) creating an adequate institutional and financial structure to stimulate industrial development.
- 130. A number of Government Ministries and Agencies is involved in industrial development, in general, and in project planning, in particular. These are: the Jordan Development Board, the Ministry of National Economy,

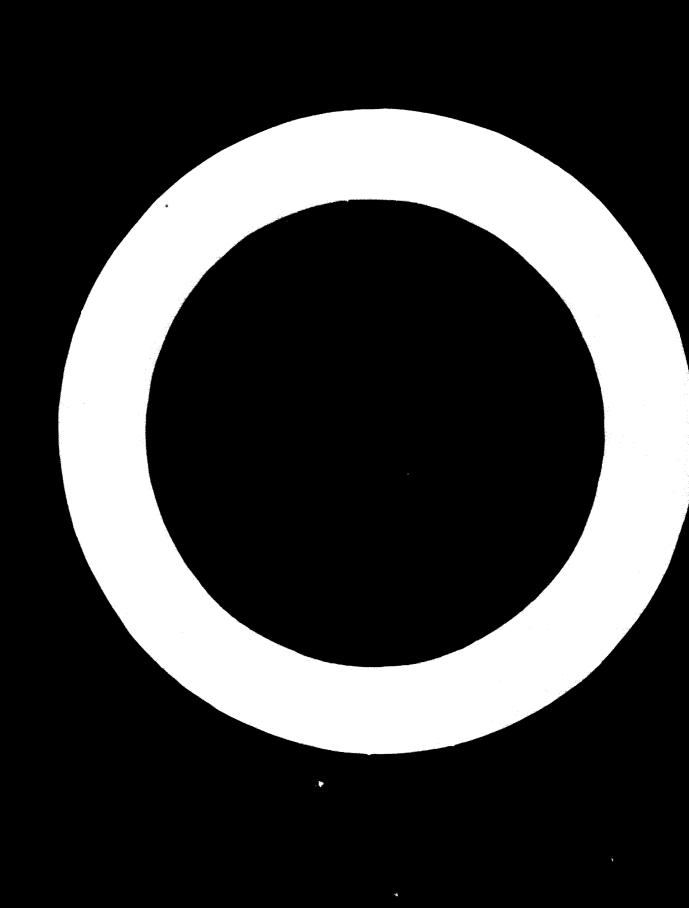
including the recently established Jordan Centre for Industrial Development, the Ministry of Finance, and the Jordan Industrial Development Bank.

- Aside from its main responsibility of preparing the everall economic and social plan, the Jordan Development Board was involved in project identification, evaluation and initiation. Prior to the establishment in 1967 of the Jordan Centre for Industrial Development within the structure of the Ministry of National Economy, the Jordan Development Board commissioned a number of feasibility studies to foreign committants. These involved such industries as glassware, concrete pipes, cardboard, ceramics, superphosphate and nitrogenous fertilizers.
- Mith the establishment of the Jordan Centre for Industrial Development, the major part of the responsibility for the preparation of the sectoral plan for Industry, including project identification and evaluation was transferred to the Ministry of National Economy. Within the Ministry, the Directorate of Industry, in cooperation with the Jordan Centre for Industrial Development, took over responsibilities for industrial planning which used to be part of the overall functions of the Jordan Development Board. The Board, however, retained the power to approve the carrying cut of feasibility studies by the Jordan Centre for Industrial Development or by foreign censultants.
- 133. Up to the beginning of 1970, the Jordan Centre prepared a number of pre-feasibility and market studies for such industries as the phosphatic fertilizers, ceramics, conglomerate pipes, paper and cardboard and plywood. When completed, these studies are usually put under the disposal of the Jordan Development Board and the Directorate of Industry for execution within the adopted programme. The Centre itself is not involved in the implementation stages.
- 134. Small-size projects are evaluated on the basis of information supplied in the process of licensing by the Directorate of Industry, Ministry of National Economy.

- 135. Other Governmental Agencies involved in the industrial planning are the Investment Premetion Office, the Encouragement of Investment Committee, the Ministry of Finance and the Jordan Industrial Development Bank. In the private sector, the Chamber of Industries also plays an important role in industrial development.
- of National Economy, plays a key role in determining the facilities and exemptions that are to be greated to prespective investors. Projects applying for such facilities and exemptions are studied by the Investment Promotion Office on the basis of pre-investment studies undertaken by the Directorate of Industry. Implementation of projects is followed-up by the office for the specific purpose of checking on the proper use of facilities granted.
- Minister of National Economy, evaluates the recommendations of the Investment Promotion Office and recommends to the Council of Ministers the type of action which should be taken in respect of the granting of facilities and exemptions. Neither the Investment Promotion Office nor the Encouragement of Investment Committee are involved in the preparation of pre-investment studies.
- takes two main forms: (a) equity participation in industrial ventures; and,
  (b) granting of concessions to industrial enterprises. The capital resources
  provided for industrial development in the form of government equity participation
  in individual projects by the Ministry of Finance are supported by the credit
  facilities extended to the private sector by the Industrial Development Bank.
  The Bank's role in project evaluation, however, is restricted to (a) the
  pre-investment studies prepared by applicants which are usually based on
  those prepared by the Directorate of Industry, and (b) the semi-commercial
  pre-investment evaluation that are prepared by the Bank itself. Follow-up
  of projects are undertaken by the Bank for the specific purpose of ensuring
  the proper use of loans granted.

- 139. From the point of view of industrial plannin, the torse around most directly involved in project identification and execution and the Illinistry of National Economy, through its Directorate of Industry, the Jerdan Centre for Industrial Development and the Jordan Development Beard. In the past, the Jordan Development Deard was the most active and technically better equipped for industrial planning than other agencies of the Government.

  More recently, however, emphasic has been shifted to the Jordan Centre for Industrial Development. The Jordan Development Beard retains its original function of coordinating the sectoral programmes into an overall programme of Development.
- 140. The last plan of Jordan was prepared in 1963 at which time the Jordan Centre for Industrial Development had not existed. Since 1967 the Centre has been engaged mainly in identifying and preparing projects for the forthcoming plan. The Centre is a specialized insitution which is well equipped for the task involved.
- 141. However, it would be difficult for the Jordan Centre to ferction satisfactorily without closely coordinating its activities with those of the Directorate of Industry at the Ministry of National Economy and the Jordan Development Board.
- 142. A pre-requisite for better coordination of industrial planning activities between the Jordan Centre for Industrial Development, on the one hand, and the Directorate of Industry, Ministry of National Economy and the Jordan Development Board, on the other, require the strengthening of the technical planning units at the latter agencies and the creation of an efficient means of communications between the three areas involved.



Jordan. Musber of semulacturing establishes and persons engaged, classified by Island persons engaged, classified by

| Manufacturing mater order (Tate)     |              | 100 TO 100 HO                          |                  | 100 Le             | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 44<br>0<br>64 |                 |
|--------------------------------------|--------------|--|------------------|--------------------|--|---------------|-----------------|
|                                      | (Yersons per | 20 V = V                               | ACT OF THE STATE | 7 - 9 (Persons per | LO + establishment)                    | Number of     | Musber of       |
| Pood (20)                            | .3           | 287                                    | 147              | 101.5              |  |               |                 |
|                                      |              |  | Į,               |                    |  | 000           | 286             |
|                                      |              |  | 2                | 91                 | 24                                     | 19            | 388             |
|                                      |              |  |                  | (V                 | 760                                    | ~             | 836             |
|                                      | •            | 5                                      | *                | 233                | 1.139                                  | 101           | 31.932          |
| Pootuear apparel and made un         |              |  |                  |                    |  |               | 4//4            |
| 77                                   | Ž            | S                                      | A                | 3,692              | 1,026                                  | 2             | 4.718           |
| Yook and cork (23)                   | 8            | 2                                      |                  | 3                  |  | 2             | er.             |
| Puralture and fixtures (26)          | \$           | F                                      | 4                | 2,646              | 9                                      | 500-6         | 740             |
| Paper and paper products (27)        |              |  |                  |                    |  |               | 4               |
| Printing, publishing (28)            | *            |  |                  | <b>\</b>           |  | <b>:</b> 1    | 197             |
| Leather, fur and products (29)       |              | • •                                    | )<br>}           | ? :                |  | 2             | 1,163           |
| Rubber products (10)                 |              |  |                  | 1                  |  | ÷             | 313             |
|                                      |              |  |                  | 2                  |  | <b>9</b>      | 152             |
| CIT - STORDOLD TERRESPONDED THOUSAND | •            | 7                                      | 8                | 8                  | a                                      | 8             | 1,043           |
| Petroleum and coal products (32)     |              |  |                  | *                  |  |               |                 |
| Non-metallic mineral preducts (33)   | 777          | M                                      |                  | ľ                  |  |               | <u> </u>        |
| Basin metala (34)                    |              |  |                  |                    |  | *67           | \$02 <b>6</b> 2 |
| Metal products (35)                  |              | į                                      |                  |                    |  | <b>★</b>      | ı               |
| Nachtnery. non-electries (ak)        |              |  |                  |                    |  | 65            | 4,20%           |
|                                      |              | •                                      |                  | A                  |  | *             | 29              |
| appliances and supplies (37)         | \$           | <b>*</b>                               |                  |                    |  | \$ \$ \$      | i               |
| Transport squipsent (36)             | 92           |  | a                |                    |  | 3             | (33             |
| X soellessix                         |              | •                                      |                  |                    |  | 290           | 1,630           |
|                                      |              | 9                                      | ^                |                    | eo<br>fy<br>fy                         | 220           | 973             |
|                                      | V.250        | ************************************** | 11.7             | 19,623             |  | 2.4.3         |                 |

Jordan Department of Statistics, Industrial Survey of 1965 (Arabia), July 1967. As quoted in a paper prepared by E. Asfour for the United Nations Booncaic and Scalal Office in Detrut, No. ESCE/ID/Meet.2/1 (ID/NG.17/2 dated 1958).

TO ALL THE PROPERTY OF THE PRO

|  | #16000 TENDON  | -1  | The state of the s | 1.00         |            |  | A Company of the Comp |
|--|--|-----|--|--------------|------------|--|--|
|  |  | 723 | 0.525  | - <b>₹</b> * | 5          | 3  | १८<br>१८   |
| A CONTRACTOR OF THE CONTRACTOR |  |     | 54 <b>64</b>   |              | . 97.7     | 25.55  | 0  |
| # cheshoson  |  | ;   |  | 8            | 409        | 8  | 1,530.0  |
|  |  |     |  | 55.00        | 116        | 236.6  | 3£7.0  |
| 0000   |  |     |  | S            | 3          | 146.50                                       | 137.5  |
| Non Manual Control of the Control of |  | * * |  | 5            | Ż          | 71.14  | 162.4  |
|  |  |     |  | 3            | <b>9</b> . | 5  | 14.3   |
| Project Sea Application  |  |     |  |              | \$         | 62.86  | က်က်   |
| BERTHADON STORY LONG BERTHADON   |  |     |  |              | 000        | 36.13  | 270.3  |
| 巻 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一  |  |     |  |              | G          | 23.73  | <b>6.</b> Og:  |
|  |  |     |  | ?            | 2.373      | 62.50  | 92.9   |
| · · · · · · · · · · · · · · · · · · ·  |  | •   |  | *            | *          | 8.8  | 74.5   |
| Canus I to   |  |     |  | R            | 126        | 21.00  | 158.8  |
| THE PROPERTY OF THE PROPERTY O | The second secon |     |  | 8            | <b>18</b>  | 16.64  | 25.5   |
| THE STATE OF THE S |  |     |  | 3,016        | T19        | 26.86  | 35.0   |
| ・ 一 ・  |  |     |  | 8,           | 5          | 40.18  | 48.2   |
|  |  |     |  | •            | Š          | 8.40   | 25.5   |
| THE RESERVE OF THE PROPERTY OF |  |     |  | <b>*</b>     | Ž.         | 24.90  | 52.3   |
|  |  | į   |  |              | C\$        | <b>*</b> * * * * * * * * * * * * * * * * * * | 19.6   |
|  |  |     | 8  | ***          |            | 00.71  | 15.0   |
|  |  |     |  | *            | 6          |  | E:24   |
| The state of the s |  |     |  |              | CX         | 22.96  | 33.6   |
| · · · · · · · · · · · · · · · · · · ·  |  |     |  |              | S.         | 8  | <b>0</b> •⊗  |
|  |  |     | ***  | 8            | 237        |  | 15.8   |
|  |  |     |  | \$           | 7.18       | 15.13  | 5.6  |
| Wone legition backlager  |  |     |  | 4            | 7          | 8-11   | 17.0   |
|  |  | 2   |  | 2            | 237        | 19.75  | 25.6   |

|   | Marie Commission Com  |
|---|---|
| では、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、 | COO. SA TONO. CON   |
| のでは、「大きな、大きな、大きな、大きな、大きな、大きな、大きな、大きな、大きな、大きな、   | SOSON - OSO POR PORTER OF THE PROPERTY OF THE |
|   | SCO + CC - COC CE   |
|   | 1000  |
|   | Specific Commission of the Commission of  |

70.000 - 99,000 7004 - 10 - 10 - 10

Jones at and

|                         | Conductant attended | The Pe                                 | ・ 一  | <b>第二条约条件</b> |  | 1       |   | 40   | 10分割の利益性 | NO LEGATOR   |  |
|-------------------------|---------------------|--|--|---------------|--|---------|---|--|----------|--|--|
| 無料的機能可能量                | to Leaden           | 10 x 10 m                              | TO MERCENTAGE OF THE PERCENTAGE OF THE PERCENTAG | #10 mm co.    | **************************************   | S TANKS |   |  |          | B. C. L. M. C. | And the second s |
|                         | 04 Marga 77 6 81 84 |  |  |               | ada and an annual and an a   |         |   | Andrick (Charles Control of the Cont | ₽◆       | 1,345  |  |
| Minist and supplied     | ~                   | 61.7                                   | •  | #<br>*        |  | ŧ       |   | i i  |          | 3.345  |  |
|                         |                     |  | ***  | *             |  | ŧ       | •                                       | ŧ  | •        |  |  |
| A Prompted              |                     | 1                                      | ne na<br>Lineag  |               |  |         | •                                       | *  |          | F  |  |
| b) Stone eruching       | <b>3</b>            | •                                      |  |               |  |         | *                                       |  |          | •  |  |
| · Service               |                     |  |  | •             |  |         |   |  | 1        | 1  |  |
| The Assert Contract the |                     | 1                                      |  | Ļ             |  |         |   |  | <b>)</b> | ١  |  |
|                         |                     | •                                      |  | *             |  | •       |   | i N  | •        | <b>,</b>   |  |
|                         |                     |  |  |               | ***  |         |   | •  | •        | 1  |  |
| V) Patentes             |                     |  |  |               |  |         |   | •  | •        |  |  |
| e) Confectiones         |                     |  |  |               |  |         |   | •  | ٠        | •  |  |
| 4) Vegetable ofl        | ***                 | ************************************** | in the second  |               |  |         |   |  | •        | •  |  |
| 170 mile (*)            |                     | #                                      |  | •             | •  |         |   |  | •        | •  |  |
|                         |                     | 8                                      |  |               |  |         |   | F. <b>(</b><br>1225  | : 1      | •  |  |
|                         |                     | •                                      |  | ×             |  | 570v    |   | 7  | ì        |  |  |
|                         |                     |  |  |               |  |         |   | •  | •        | •  |  |
|                         |                     | 3                                      |  |               |  |         |   | ī  | -        | 0  |  |
| Pobeces                 |                     |  | •  | • 1           |  |         |   | F  | p4       | 742  |  |
| Testiles                |                     | 8                                      |  |               |  |         |   | *  | •        | .,   |  |
| #174.0G                 |                     | 8                                      |  |               |  |         |   | 8  | •        | 1  |  |
|                         |                     | 5                                      |  |               |  |         | •                                       | *  | •        | 1  | •  |
| Not and north           |                     | •                                      |  | •             |  |         | •                                       |  | •        | ı  |  |
| Paraiture and flatheres |                     | •                                      |  | <b>X</b> 1    |  |         |   | *  | •        | 1  |  |
| Paper and products      |                     |  | *  | <b>I</b> (    |  |         |   | *  | •        | ı  |  |
| Printing and Publishing |                     | 2                                      |  |               |  |         |   | ā  | ,        | ŧ  |  |
| Lenteer and products    |                     | *                                      |  | •             |  | 1       |   | *  | •        | •  |  |
| Public and products     |                     |  |  |               |  |         |   | •  | A        | 240  |  |
| Chesteal products       |                     | •                                      |  | •             |  | ere i   |   |  | -        | 716  | P  |
| Petrologa refinery      |                     | •                                      | •  |               |  |         |   | •  | 4        | 709  |  |
| Mon-wethlite atments    |                     | Ē                                      |  | •             |  |         |   | •  | -        | 4.20   |  |
| .) Conests              |                     | *                                      |  | <b>I</b>      |  |         |   | •  | •        | į  |  |
| ****                    |                     | 1                                      | *  |               | The state of the s |         |   | •  | •        | ı  |  |
| ** O.18***              |                     |  |  | •             | •  | •       |   | <b>.</b>   |          | į  |  |
|                         |                     |  |  | f             | E Constitution of the Cons |         |   | *  | •        | ) i  |  |
|                         |                     |  |  | ***           | •  | •       | *************************************** | *  | •        | ı  |  |
|                         |                     |  |  | <b>#</b>      |  | Å       |   | •  | ı        | ţ  |  |
|                         | •                   | •                                      |  | \$            | *  |         |   | •  | •        | •  |  |
| Paradia Paradia         |                     |  |  |               |  |         |   | *  | •        | •  |  |
| を決めるを見べ はそなる 大田         |                     |  |  |               |  | 7 0.1   |   | 111  | •        | 3,698  |  |
|                         | 800                 |  |  |               |  |         |   |  |          |  | P4-4 414   |

Table 4. List of new manufacturing projects and estimated capital requirements, feasibility studies prepared and actual capital investment, 1962-1967.

(In thousands of Jordanian dinars)

| Industrial sub-sectors and projects (ISIC) | Capital requirements   |
|--|--|
| Food, beverages and tobacco (20-22)        | and the state of t |
| Chocolate and confectionary                | 121  |
| Biscuits b/                                | 100  |
| Carbonated beverages                       | 62   |
| Starch and glucose                         | 50   |
| Dairy products                             | 100  |
| Fruit and vegetable processing             | . 100  |
| Sugar refining <sup>C</sup> /              | 1,400  |
| Textiles (23)                              |  |
| Woollen textiles                           | 660  |
| Cotton textiles                            | 600  |
| Clothing and footwear (24)                 |  |
| Apparel item2                              | 300  |
| Paper and paper products (27)              |  |
| Cardboara                                  | 146  |
| Rubber products (30)                       |  |
| Rubber tires2                              | i da sina bila bila bila bila bila bila bila bil   |
|  | 500  |
| hemical and petroleum coal products (31-32 | 추위 방송병이 가셨습니다 입니다.   |
| Painta                                     |  |
| Super phosphate                            |  |
|  | <b>143</b>   |
| on-metallic mineral products (33)          |  |
| Coranics                                   |  |
| Concrete pipe 4                            | 300  |
| Concrete blook                             | 156  |
| [ <b>91****</b>                            | 141  |

SOURCE: Jordan Development Board, Five-Year Programme for Economic Development, 1962-1967.

The programme envisaged additional total investment of JD 4,134 million in existing firms.

b/ New industries already determined feasible.

c/ New industries possibly feasible.

d/ New industries probably feasible.

Table (a. list of manifersuring projects and east-rated eagles) regulations, a total investments, feast-align last a, in the neventy-cer plan, 1764-1970.

(In thousands of Jerdamina dinare)

| Takana and a salar and a salar in (1918)   | Captial  | Approximately and the second s |  |
|--|--|--|--|
| Industrial cub-sector and projects (ISIC)  | rectionest   | indial onb- or bor and projects (1810)   | Capital requiremen   |
| Food, beverages and tobacco (20-72)  | 254  |  | Compared to the community of the compared to the community of the communit |
| inocolate and confectioneries a/1/h/   | 138.5  | Cleaning products a / 1/h/   |  |
| , Figurity & f/L   | 100.0  |  | 15.0   |
| Carbonated hoverages   | 62.0   | Plantic observe fittings   | 23.7   |
| Starch and glucone 4/1/2/  | 44.0   |  | 107.5  |
| Dairy groduote <sup>0</sup>  | 100.0  | Won-motalling mineral products (33)  | <b>9</b> 17  |
| Fruit and vegetable processing   | 100.0  | Coraajes   | 350.0  |
| Sugar refining 2   | 1.400.0  | Cenerata pipa  | 300.0  |
| Animal family Ch   | 30.0   | Concrete block   | 300.0<br>356.0   |
| Table salt@E/2/  | 30.0<br>60.0   | 614621   | 141.0  |
| Yeas 2/K/1/  | 180.0  |  | ******   |
| Beer WW  | The state of the s | Notal products (35-18)   | 681  |
| Camping food 2/6/1/  | <b>250.0</b>   | Rand toclab  |  |
| The state of the s |  | Builder's bardware   | 24.0   |
| Textiles (23)  | 1,600  | Shoat metal products by  | 27.0   |
| Vocilen textiles   | 660.0  | Electrical fittings  | 93.0   |
| Cotton textiles  | 600.0  | Pacios Pacios  | 27.0   |
| Noolles clotheu  | 250.0  | Truck and tus manambly 2   | 35.0   |
| Rugs and blankets  | 100.0  | Metallic acrays 115  | 400.0  |
| Clothing and footwear (24)   |  | Weil's and barbed wires /5/b/  | 10.0   |
| Apparel tters2   |  | Dr. batterise V/W  | 35.0   |
| Ledies underveur VVV   |  | 50000 1000 1000 1000 1000 1000 1000 100  | 30.0   |
| Vaciles blankets W   | 1.0  | 0ther (39)   | 16.0   |
|  |  | Auttono <sup>1</sup> C/2/  | 16.0   |
| Vood products (25-26)  |  | Invoctment requirement in existing firms   | 1  |
| Flywood  | 300.0  | Manufacturing firms in which the coverage  |  |
| Paper and paper products   |  | avias a atoor interest Vel   | 634.0  |
| Cardboard  | <u>646</u><br>146.0  | All other presently existing manufacturing   |  |
| Paper and cartons UV   | 이 경쟁이 나타왔다. 보험 사람들에게 되었다.  |  | 350.0  |
|  | 520.0  |  |  |
| Rubber products (30)  Rubber tires   |  |  |  |
| And the second of the second o | 500.0  | Source: Jordan Day Reprent Found, The Se   | ***  |
| Chesical, petroleum and oal products (31-32)   | 4.0  | 100 100 100 100 100 100 100 100 100 100  | · · · · · · · · · · · · · · · · · · ·  |
| Detergents 2   | 72.0   | Way industries already determined feasible   | lu.  |
| Pataco   | 16.0   | Was industries probably feasible.  | ••   |
| Superphosphate   | 12).0  | Wer industries probably feasible.  [ New industries possibly feasible.  [ Includes (1) petrolous industry (1) leather  | haw tannapy  |
| Chemical fortilisers   | 3,810 0  | (3) vegetable of refining (4) comment com-   |  |
| Cossetine and pharascenticals VIV  |  | Wanagement of large computers. Yearly to   |  |
| Cometica   | #00.0  | Minimized to the second of the second of the second | 705300Ax   |
| Insecticides LA  |  | f/ Licensed.   |  |
| Shoe polish 1/h/   | 66.5   | Under execution.   |  |
|  | ***  | Under study.   |  |
|  |  |  |  |
|  |  |  |  |
| The second of the second of the second   |  |  |  |
|  |  |  |  |

 $\mathbf{F}^{1}:=\mathbb{F}_{2}^{n}\times\mathbb{F}_{2}$ S'obs me Lever Bury Clay 19.27 20.9 Term. 50,000 8.7 3 22,000 6.00 37.000 7.7 Ima Land material 120,000 37.72 25,000 5.3 Electrical 85,000 14.8 1 22,000 6.00 45,000 9.4 Chem, and the 3 134,000 23.3 45,000 12.27 8.3 40,000 Wooden, retal. and placetic 19,500 3.4 42,300 11.53 79,000 16.5 Paper and davia (ton) 162,500 28.3 1 20,000 5.45 Miccellaneous 123,500 21.5 9,500 2.58 3 33,000 6.9 574,500 100 366,800 100 18 479,000 100

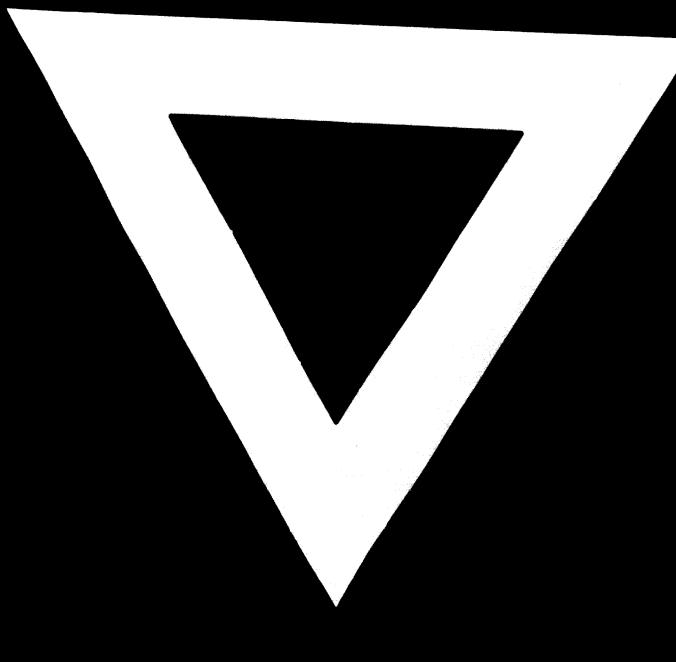
Source: Jordan Industrial Development Bank, Annual Reports, 1966, 1967, and 1965, Amman.

Table 7. Average size of loans granted by the Industrial Develorment Bank of Jordan, 1966-1968

| THE REST PROPERTY AND ADDRESS.  | Mill But Mades Mar. Mill terminate and Administration, and discontinuous actions are complete and produced the statement of t | the state of the s | The control of the co |
|---------------------------------|--|--|--|
| Year                            | Number of loans  | Amount JD  | Avorago II/Loan  |
| 3066                            |  | entres ant final actional segment or white the management  | er i vida gerlajna emisjanjanji vijakoh seriansipilagi nerakin perkinjakin menje dennega mengenjula, dag   |
| 1966                            | 30   | 933 <b>,</b> 600   | 31,220   |
| 1967                            | 29   | 472,800  | 16,000   |
| 1968                            | 50   | 549,000  | 2 <b>7,</b> 450  |
| A william and the second second |  |  |  |

Source: Jordan Industrial Development Lank, Annual Report 1968, p.6





74.10.2