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# UNITED NATIONS ECONOMIC AND SOCIAL COUNCIL







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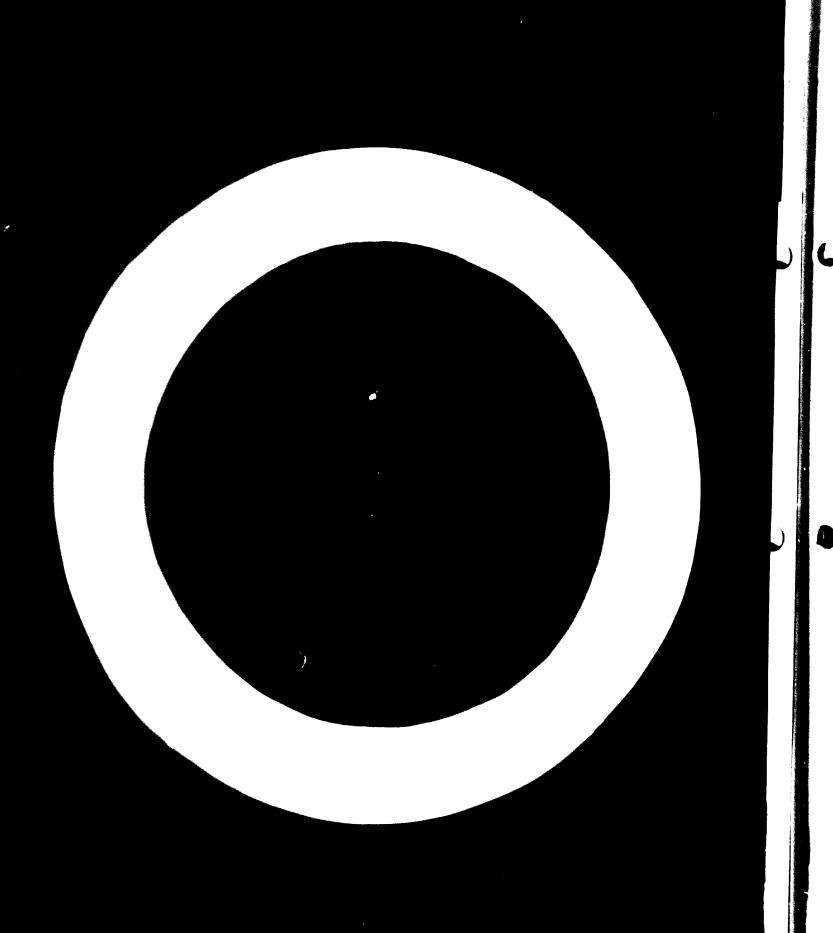
BCORDIC COMMISSION PUL APRICA AND CLUTRE FOR INDUSTRIAL DEVELOPMENT Symposium on Industrial Aprologment in Africa Caire, 27 January - 10 February 1966

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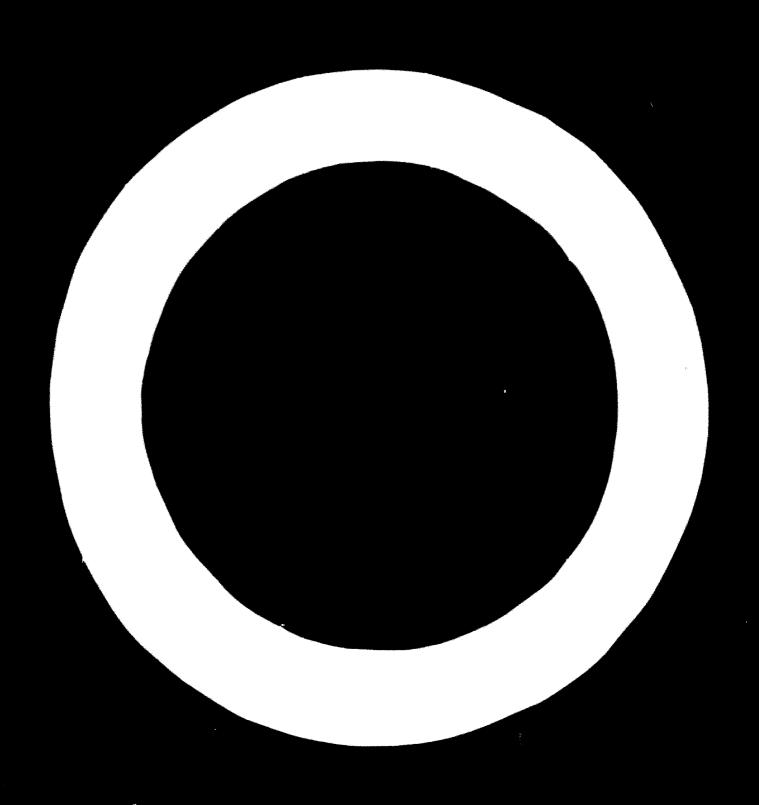


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#### Hasan Asia avi

#### introduction

In the last Werld Food congress which was held in ashington p.c. in June 1963, I was asked by the Fac to speak about "Problems of esteblishing food industries in developing nations". In that presentation I compared the industrial development in U/As before and after the 1952 revolution. I also mentioned some of the problems we faced when we set our nirest Five Year Plan for establishing food industries and how they were solved.

In this presentation, which should be considered as a continuation to the previous paper. I feel that I should deal with the subject from another ungle in order to emphasize the points that were of special interest to us and to mention some of our accomplishments in this field.

#### The role of agriculture

In any economically developing country, the agricultural sector must provide more food for the increasing population. It must also provide the food processers with high standard raw materials instead of exporting these products to the highly industrialized countries and then turning around to import the processed foods from these countries. In UAR the arable land was always limited by the amount of water available. This water was made available by reserving some of the flood water of the Nile River. A plan was set up aiming to increase food production from the existing acreage, beside a plan for increasing the available land by reclamation of around 1.25 million acres to be added to our 6 million fertile acres. This was made possible by the completion of the Aswan High Dam. This high dam will also enable the transformation of around a million acres from basin to perennial irrigation which, in turn, will increase their productivity.

perfore 192, food processing industries were suffering from the heteropendus ra materials, and it was impossible to produce satisfactory processed
foods from fruits and vegetables of different varieties and of different
degrees of maturity. This made it very difficult for our products to compete
with those of righty developed countries in the world markets. In highly
developed countries the food processers work with standardized high quality
raw materials. They also have abundant specialists available to solve the
various rocessing problems that may arise from time to time.

As we believe that agricultural development is a prerequisite to the development of food processing industries, we set our aim, first to produce high quality raw materials, and then to improve production efficiency.

# Storage losses

The causes of spoilage resulting in losses during storage are marifold. It can be attributed to the action of enzymes in the stored product resulting from breathing or the dermination of seeds, or the sprouting of bulbs. Spoilage may also be caused by exidation, insects or micro-organisms. est of these spoilages occur only when a certain amount of moisture is present. to the main danger to products in storage comes from high humidity, insects and micro-organisms. It is important to distinguish between direct and indirect losses during storage. Direct losses occur when part of the stored product vanishes, usually through the action of insects, and less frequently by chemical decomposition or spontanious combustion; indirect losses are caused by other types of spoilage which either lower the market value of the stored product, or ever make it unsaleable. Sometimes the product becomes inetable then it must be used for other industrial purposes, as in the case of rancid fats and oils, or the fats and oils with high free fatty acids content extracted from spoiled or low quality oilseeds. Such indirect losses are more difficult to estimate than the direct losses, but the resulting low prices not only reduce the standard of living of the producers, sut also discourage farmers.

Storm e recases will be overcome as soon as the projects of the organiz-

#### Processing losses

Processing losses can be divided into three main groups:

- 1. Losses due to unripening or over-ripening, or faulty harvesting of products.
- 2. Direct losses due to wastage products or by-products.
- 3. Indirect losses resulting from faulty processing, giving low quality products.

There was a tendency among the farmers in UAR to harvest unripe products. This can be easily explained by their anxiety to sell the crop as soon as possible because of lack of cash money. This was done to most fruits and vegetables such as oranges, grapes, water melons, sugar cane and groundnuts. The unripe crops usually have a lower sugar, high acidity and/cr low oil content. Such losses appear only after processing and are accompanied by the different problems experienced by processing unripe products. The size of these losses is not easy to assess but it is normally quite large. With better processing methods and better control and through extension service, the farmers can become more conscious of these losses. In the UAR there is a continuous effort exerted by the rural industries on farmers to improve their harvesting procedures, and so these losses are now reduced to a minimum.

Direct processing losses occur in the form of by-products or waste products, such as oil cakes, mollasses and bagasse, husks, bran and orange peel. Some of these by-products in the past had limited use as animal food or as fuel. Although certain losses in processing are unavoidable, these should be small and efforts should be made to reduce them to a minimum by applying modern techniques and using modern equipment. The solvent extraction method for example can reduce the oil content of oil cakes to about 1 or 2 per cent and, by replacing the existing oil mills in UAR with the solvent extraction method, an increase in the output of oil production estimated at 30,000 tons will be realized before 1970. Another example for making use of the by-products is the factories established in UAR for the extraction of oil from rice bran. One factory is already operating in Alexandria since 1961 and another four factories are under construction. The total production of rice bran oil after the completion of these factories will be 8,000 tons, having a value of \$E 700,000.

The UAR experts, after extensive studies, have succeeded in finding use for the sugar basasse, the Food Organization has inaugurated in Hay 1965 the first paper pulp plant from bagasse, the second line is under construction. Another plant for the production of paper for the press from bagasse pulp is also under construction.

The value of these products manufactured from bagasse after the completion of these projects is estimated at L E 23,076,000, in place of its former fuel value which was L E 1.500.000.

These projects are only a few examples of what UAR experts have achieved in developing food industries and making use of the by-products.

Primitive and/or faulty processing procedures indirectly affect production, since products of bad quality are low in price or may not be marketable at all.

Very often, the extent of processing losses is not known because of lack of control and insufficient facilities for analyzing the by-products and waste products, or because there is not enough trained staff available. It must be considered that the first step towards reducing the processing losses is to improve control methods in order to make all concerned aware of the extent of their financial losses.

The next few pages demonstrate the developments achieved in UAR food industries after the revolution of 1952.

# 2. The Sugar Industry

Sugar is produced in UAR from sugar cane. This crop was first introduced in Egypt by Arabs in the 7th century. Primitive sugar production started around the 9th and 10th centuries. Before the 1952 revolution the newest sugar factory was established in 1903.

The total production of sugar cane in the year 1952 was 188,000 metric tons. In our first Five Year Industrial Plan, a programme was set up in order to develop this industry and to increase the amount of sugar production. And as the expansion of sugar cane plantations depends on the amount of irrigation water available, the sugar production is planned jointly with the establishment of various irrigation schemes. The High Dam of Aswan is considered the main project on which the expansion in sugar cane plantation depends.

After the completion of this project the cane plantation will cover about 270,000 acres (115,000 hectares) and produce around 10 million tons of cane which, in turn, will yield more than one million tons of sugar each year.

The present area of sugar cane plantation amounts to 115,000 acres and this area will be increased to 272,000 at the beginning of 1970.

At present the average yield of sugar cane per acre is around 40 tons. A series of studies are carried out by the technicians of our sugar companies, in collaboration with the Ministry of Agriculture and Professors from the UAR Universities to improve the yield. These studies already improved the yield per acre. The research is also directed to eliminate the low varieties and to prevent the "stunting disease" by treating the seeds before planting.

An experimental station for sugar cane equipped with greenhouses was established in upper Egypt at "lataana" in order to make the inflorescence, of the sugar cane possible thus new hybrids and varieties can be obtained.

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the juice extracted from bagasse is of higher purity.

\*\*International Society of Sugar Cane Technologists" in its twelfth congress to Juan, Fuerto mice (1965).

# Je invelopent of interior

There is a continuous increase in the consumption of edities  $c_1 b_2$ , scape and detergents in the  $U\Delta k$ . It is due to the rise in this standard of living and population.

The edible oil industry in the Sas depends nainly on the extremises of oil from setten seeds. The oil obtained to thus dependent on the setten crop. The amount of oil produced to the last for reach the country's growing needs.

About 30 oil stile are presenting outing sent using extine tydeumite or server present. Only one still to uning the salvent extraction action.

Conventional nothers of oil refining to carried out to met plants. As a result they experience a high percentage of large.

Another reason for such high less may in due to become eccuping as a result of storage.

Procedures for the extracting, refining and storage of cools one contemplated. The plan has provided for all the existing other to gottom to the modern and efficient extraction nethod of cits using counts extraction. This will lead to the installation of id production units capable of processing were than 840,000 tons of seeds a year. A corresponding number of continuous law-less refining plants are also ordered, some of which are under construction and some are already functionally. Yell to attained seed a torque facilities are to be constructed as a part of this plant. These ingressments will impresse the annual cil production by about 27,000 tons.

To increase the oil resources of the spuntsy, ether projects are in the way of realisation, nataly:

(a) Increasing the area cuitsveted by est tearing products, seen's ground-

four solvent plants for the extract, and all from rice

no more solvent plant for processing and manute and processing and these oils a personal appearance.

yield and of good fibre and oil waits are undergoing.

Leation of westes in slaughter house and fine
carried out: All these efforts will be cover

elible oils needed for the country to real

replaced butter fat for domestic constitutions and some efforts can be made to double increasing needs. In anticipation with are being added.

forms has also developed in quantity.

Performs use continuous mechanized equipment.

The development and modernization of the development and modernization of the development and modernization.

Las also increased rapidly in process.

commonly used. The increase in consumption of the consumption of the main constituent is now leader the the main powders are going also to the consumption of the con

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will the courally with all other progressing to the possessing according to the second

# The development of preserved food industry in the UAR

Food preservation as an industry did not exist before the 1952 revolution. Individual efforts of few persons, with insufficient experience in this field existed in a limited way. Their main objective was to obtain the highest and quickest possible profits. The country till 1952 was importing big quantities of preserved vegetable and fruit products in order to meet the local needs.

In the year 1951, the imported vegetable and fruit products reached 4,185 tons valued at & E 349,886, compared to a total local production of only 800 tons.

Since the revolution the preserved food industries were given the same attention given to other industries. As a result of intensive studies, planning this industry was accordingly guided, and many factories were established. The canned food production in the year 1964 was 22 times that of the year 1951.

This was accompanied by a big decrease in imports. Imports of processed foods nearly vanished in the year 1961. In the contrary, UAR exports of processed food increased by 55 folds during this period.

The canning industry has the advantage of the completion of the commercial purpose for the development of vegetables and fruits cultivated and fresh packaged, because of transferring the surplus to preserved products, consequently prolonging the consumption season to 12 months. The development plan in this industry includes the establishment of six new canneries for fruits and vegetables distributed among the following governorates:

1. Kalyubia

- 2 Kafr-el-Shekh
- 3. Beni Suef

4. lunufia

- 5. Sharkia
- 6. Fayum

Besides other projects are going into effect such as replacement, expansion and perfect utilization of the existing factories' capacities.

# Sardine and chrimp canning

The UAR coasts are considered to be an important source of fish, which is not profitably and economically exploited up till now. In spite of the fact that the coasts of the UAR are about 2,500 kilometres long and the area of lakes are 600,000 acres, only a small portion of this area is exploited.

The consumption of sardines in cans in the year 1964 was about 7,000,000 cans. Damietta is considered to be the biggest and largest fish producing area in the country, the fishing season lasts for four months. The Suez area is also an important one as the fishing season is long and practically covers the whole year.

The industrial plan included the establishment of a factory for eardine and shrimp canning, which was completed and inaugurated at the end of the year 1960. The plan also included the construction of another factory at Horgada in the Red Sea area, a factory for canning tuna fish and sardines in Suez, fish meal in Damietta and Red Sea area, and the establishment of a modern fishing fleet, which will supply these factories.

# Frozen food industry

# a) Frozen thrimp

This industry is new in the UAR, it did not exist before the year 1952. The first plant producing frozen shrimp started in 1955.

The Epyptian frozen shrimp took an important position among the group of the manufactured food products exported by the UAR in the last years. The exported amount reached 382 tons in the year 1964 valued at 529,496 pounds in foreign currency.

We have at present in our country six freezing factories, four are located at Alexandria, the other two at Port Said, another factory is being added to the four in Alexandria. 10,000 tons of fresh shrimp are needed annually for running these factories with its full capacity producing 4,000 tons of frozen shrimp mainly for export.

## b) Frozen vegetables and fruit products ....

The demand for frozen products shows a remarkable increase in the different countries of the world. As these products are preferable to other processed foods because of taste, colour and nutritional values. In the UAR a programme was put for developing this industry in order to be in a position to meet both export and local market requirements.

Refrigerated transportation vans, cold storage distributing centres and freezing storage, are considered to be joining objectives to verify the successful developments in this industry. The production programme for this year is over 200 tons of frozen vegetables.

#### Drying industry

#### a) Drying of onions

The exportation of fresh onions takes the third position in experts of the UAR after cotton and rice regarding the total values of agricultural experted products, also regarding the total income from exporting operations.

The UAR is considered to be the leading country in exporting onions. The industrial dehydration for onions and some vegetables started on a small scale in Egypt during the last world war. The industry developed and exportation of dehydrated onions started in the year 1950 with 661 tons. This increased to 7,200 tons in the year 1959 and fluctuated in the range of 6,000 tons till the year 1964.

At present there are nine drying factories in the UAK. Six are located at Alexandria and one at each of the following cities: Fort Said, Maghaga and Subag. The last factory at Subag is considered to be the largest and most modern in the UAR and is one of the projects of the first five year industrial plan. Subag Governorate was selected for establishing this factory as it is the second producing governorate in the Lat (25-15) of the total winter onion crop. To recover, it is famous for a product of excellent pungency and early ripening qualities.

# b) Drying of vegetables and fruits

The sun-drying of vegetables is known in this country since the time of the ancient gyptians i.e., 4,000 b.C. The same sun-drying method with some modifications still exists in all the different parts of UAR, rural, urban and casis. Tany families of different social standards are drying their annual needs of certain vegetables such as owns and water mallows ...etc.

The quantity of vegetables sun-dried is enormous. Accurate estimations are not available. The dehydration of vegetables for expert started in recent years.

The main vegetables dehydrated for expert are beans, tenatoes, & wite, celery ...etc.

The sum drying of dates is in existence in several places in UAR. Several modern units of dehydrating and packaging of dates are either operating or under construction in order to replace the old method of emergying and to produce high standard qualities of processed dates for local consumption and export.

for its fresh dates. They are normally consumed in the coloured state. They are normally consumed in the coloured state. They are normally consumed in the coloured state. The dates are sections stuffed with almonds, and seasoned with mandarine pools and cloves.

The drying of grapes was also established according to the table to the production of the table to the production of 7,500 tens of relation to order to see the local consequents.

# The Divolopment of Daley Ladue ter

perfore the 1952 revolution, the niry industry was limited to the private sector in Egypt. There were no factorise in the country with a capital exceeding b E 10,000.

The following short statistics show the attention of the daily industry before the 1952 revolution.

- 450 Shope solling silk, the capital of each to
- 170 Small dairses, the capital of each to
  - 26 helatively large bairton, the capital of cash to 10,006 agriction pounds.

The total number of all furteries was about 600, and the total immediate sout tale were 600,000 lightims produce.

The quantity of mile processed in licensed today plants by that the resolution 20,000 tens, i.e. 1.5% of the total side production. 20.5% of the mile production is the Esk was bandled with prinitive sounds in Filleges of the mail plants which demonst secure the semilary conditions, and some act against to accurate protection actions.

fith the start of the industrialisation in 1957 great attention was given to food industries as one of the main brane to raise the standard of living, health and nutrition.

# Participant of the transition

The establishment of the tairy industry in developing countries depends to a great extent on the availability of raw milk. In our case, special attention so it be given to the problems of milk production and notheds of preceduing characteristic to same countries.

In some developing countries, wilk collection and distribution schemes have been established through international organisations.

An interesting example is the development in the village of Amend in India , but morth of humbay for co-operative collection and proceeding of milk.

In the Bak, considerable attention was given to increasing the production of mile. This production is a limiting factor in the development of dairy instead to;

instantly. Several ministries, and institutes co-operated to increase milk production. The Ministry of Agriculture, the Ministry of Agrerian Reform, the Ministry of Local Administration, which supervises the combined control, the Ministry of Local Administration, which supervises the combined control, the Paralleles of Agriculture in the Distantly and the improvement in the production of Americality of the lives book which ind to the improvement in the production in an important selected foreign brooks and the product in a set of the important progresses in this feature to Americal project, which is a co-operative progresses at monomiation the factor to purpose of improving all production.

total contact to the first that the part like resolved 2,400,815 tone,110

End for an interest to the second second and a second and a second as the second secon

Your	Total dairy Products
1952	67,840
1964	133,902,7 Tone

# The Industrial development

In the year 1954, "The Supreme Council For Public Serwice" established 12 milk collecting and cooling centres. The capacity of each centre is 5 tens to supply the dairy factories with their requirements of raw milk. In the same year lier Hilk and Food Company was founded and the construction of the Cairo plant was completed and it started its operation in the year 1959.

The capacity of the plant is 100 tons of raw milk per day. In the year 1956 the Sakha plant for dried milk was constructed in Kafr El-Sheikh Gevernorate.

# industrial projects after the 1952 revolution

Programmen were emerged and revised to be more adaptable for developing the industry. The policy is aiming at establishing a central big dairy plentous each town in the UAR in order to improve the health standard of the people by providing them with the healthy essential milk products which enter in most of the daily diets as we are well aware of the great importance of adequate nutrition and its effect on the improvement of the productivity and the westing efficiency of human beings, and in greating a healthy new generation.

A list of completed projects is given below to illustrate the accomplishment achieved according to the first development plan.

# A. The list lik and Food Company

Factories.

i) The Cairo Central Dairy plant (capacity 100 tons/day)

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Oach to 20 the feet.

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reduction of forder yeast will begin within one year with a capacity of about 2,000 tons/annum. It is anticipated that the new production will represent a new source of cattle feed and subsequently will help to increase production in the country.

in order to partially replace corn and rice as a source for starch production, sweet potatoes are now being tried.

It was decided that starch factories may use sweet potatoes as raw material for starch production for 3 - 4 months a year.

The programe of the second five year plan includes some projects to serviced out by these factories such as:

- \*) The erection of new dextrin plants at Cairo and Alexandria.
- b) The erection of a new plant for the concentration of corn steep water.
- e) .he erection of two modern Slucose factories with a total capacity of 160 tons of glucose/day.

# Application and Uses

testile manufacture.

Today, starch has been demanded by the paper industry, disging of oil

Flucione also has many uses. Apart from its use in sweets, candies, etc., it can be used as a floating media in the separation of many

## 

#### The carbonated teverages intention

This industry is considered one of the viscost adaptation in the tail.

Vith its start in the year 1874 and until 1988, the betting plants core oid fashioned and primitive. Inly hand operation, numbers of semi-extensis were used. No attention was given to quality or samitation. Setting becomes were of poor quality as there was no standard for solicus or fishers to be followed. In the year 197 the first neckers plant was notesticated and seem after four other bottling plants were built. In 1977, the state gave special attention to this industry. Now bettling plants open, year to make a special attention to this industry. Now bettling plants open, year to make modern automatic machines were established.

Availability of standard good quality products increased the demand for soft drinks and at the same time formed the past quality products out of the picture. The nodern bettling techniques, the high etemperate of specific ations and the vell-organized distribution apotent of the modern products played a significant role in the development aphrend in the carbonacted becomes field.

Although some small outdated bettling lines were formed to star producttion when modern products became available, "there with the being of the Pante were forced to upgrade their products, redormine their epopulates and some able to compete with the modern plants.

Tith this background in mind it is easier to understand the remote the production of earlocated beverages made a seasification increase was accompanied by improvement of quality and establishment of specifications for the different products graduate.

The following figures illustrate the tearrows in production between the years 1952-1964 and the expected production in the year 1976.

·····································	Production per militare bottles
	156
	324
	568
	660
	850
Maria da	1,400

scatters. Seventy-come of the bottled by three big bettling community to the bottled by three big bettling community.

a factory
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continued of all other food industries in the Use

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concupt flavours and beverage basis so that it is also
experted.

4 new bottle different governorates, and the expension of existing the existing the

# dring.

The product to be also one of the oldest industrice in the product of the product of the founded in the years 1884 and 1916.

kets.

The rum comes first in the order of products suitable for export, it is manufactured by the fermentation and distillation of sugar cane syrup.

On account of the high quality of the Egyptian sugar cane, the produced rum is considered to be the best in the world. The wine and brandy produced from the grapes grown under the shining sun of the Nile Valley has a special quality which makes it preferable to other kinds produced in other countries.

The Alexandria company for distilled drinks has a new project to produce Scotch whisky locally under license from a Scottish company.

The following data show the increase in the production of distilled

armidian and are				
Year and a	60/61	61/62	62/63	63/64
Production : Velue L E.	372,696	391,158	575,434	654,561

The annual production of wine in the UAR amounts to 6,000,000 litres. The new projects for land reclamation include a plan for the expansion of the grape cultivation to add 70,000 acres to the existing grape area. Of this new plantation, 20,000 acres will be for wine production. The increase in wine production is expected to be around 80,000,000 litres within the next seven years.

## Beer production in the UAR

Beer production is carried out in the United Arab Republic by the "Société de Bière les Pyramides", which is one of the companies of the "Egyptian General Organisation for Food Industries", and operates two breweries in Gisa and Alexandria, and also a malthouse in Gisa, which is the biggest and the newest in the hiddle East.

The breweries' capacity is now around 300,000 Hls. per annum and our effective production for the year 1964/1965 has reached 200,000 Hls.

# 8. The Development of the Biscuit Industry in the UAR

Biscuits are produced in the UAR by several companies. The most important producing companies are those belonging to the Expital undered Organization for Food Industries.

The "Piaco Mier" Company share amounts to 50 per ecet of the total biscuit production in the UAR, and it operates the manufacturing lines at the present time at full capacity.

To improve the nutritional standard of achoolehildren, biccuite were included in their diet as a bread substitute. This was done not only because of their nutritional value or being highly accepted by infants, reheckalidren and young students, but also because of the easiness of their manufacturing, storage and distribution.

As a result, all the covernorates in the Republic have applied for establishing modern biscuit factories locally in order to meet the increasing demands of the citizens and to fulfil the nutrition programs of echeck

The local biscuit market is growing very fact in the UAR, as this product is becoming a pormal foodstuff for all the people.

In the past, biscuits have been looked upon as a luxury item, but novadays and according to the raised living standard in the State, this image changed and now it is considered a basic feed essential for children.

The following table points out the development of biscuit production in the UAR during the years 1960-1964 and the expected production in the year 1970, taking into consideration that all the production is consumed locally except a small quantity that is experted.

lear		The said the said that the said that the said th
1960		11.920
1761		12,616
1962		13.727
196)		13,400
1964	A P M C M	16.500
1970		77,000

The projects of the second five-year industrial plan can be commutated as follows:

- 1. The establishment of two factories is lumidia and sharkis governorates.
- 2. Projects for the establishment of three new production lines to the relating factories.
- ). Projects for expansion by adding now equipment in order to everyome insufficiency of the present lines and to operate with the full capacity of production.

The total each of these projects assumts to b  $\mathbb{Z}$  2,000,000 of local and foreign currency

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	4,173,615		- · · · · ·
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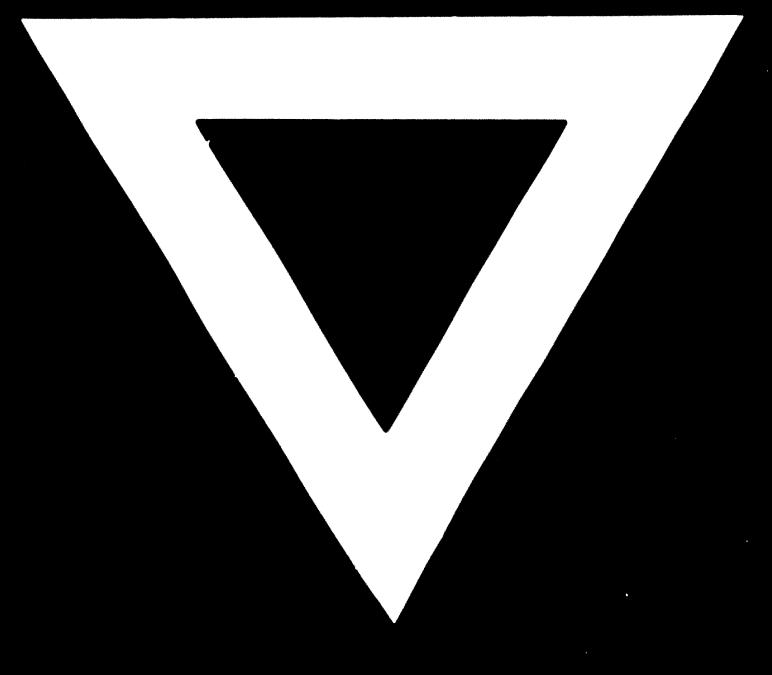
Like these theorem represent the rates of products from emporate belows. to the applican Commercial Crambination for Food Industrian major

- The total value of the production of these companies in the year 1960 was a blighty, and agreement to \$11,466,130 to the year 1365. The increase accorded
- The expected relate of production in the year 1970 to b 129,978. MJ, terroses This has a special feet more than it was in the year latter, then 150 per cont.

The sound trents downtone the first first bear bear bear form to all the ware A A LA CASTA COMPANY OF THE ANGELOW TO SEE SHELD THE RECORD PLAN (1965-1970) WILL The American State of the State · 是一点点,不是一种,一个一个多种,还是更新的一种情况,他们就是一种的。

Spier to a table aboring the distribution of the thorn contioned budget between companies:

Des Laborates	tains of invest- sents completed during the first	tains of tarest- sents aspected to be completed during the assemble also
i. •	34.067.624	306,117,100
i. District order	2,0)3,170	1,952,000
j. Tobases	2,479,676	4,750,000
4. + 6 lb products	2,140,40%	834,460
). Properted products	520,41)	8,070,140
f. Morulto 4 secrets	44,016	1,950,000
1. Prime	1.100.973	454.500
I, haptered protects	437,076	2,420,000
% states a glumose	456,697	1,700,000



22.3.74