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**DEMONSTRATION PROJECT ALTERNATIVES TO THE USE OF methyl  
bromide IN THE CULTIVATION OF Tomatoes, Strawberries, Tobacco  
and cut flowers :  
SURVEY ON methyl bromide CONSUMPTION IN MEXICO**

**Contract No 02/274**

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**BAJA CALIFORNIA:**

- 1) REGIONAL AGRICULTURAL UNION OF PRODUCERS OF VEGETABLES OF THE MEXICALI VALLEY**

**SINALOA:**

- 1) ASSOCIATION OF AGRICULTURISTS OF RIO CULIACAN**
- 2) ASSOCIATION OF AGRICULTURISTS OF RIO SINALOA, PONIENTE**
- 3) ASSOCIATION OF AGRICULTURISTS OF RIO FUERTE SUR**

**SONORA**

- 1) DIRECTORY OF PRODUCERS OF TABLE GRAPE**

**MICHOACAN Y GUERRERO:**

- 1) DIRECTORY OF PRODUCERS OF MELON**

**MEXICO:**

- 1) DIRECTORY OF PRODUCERS OF FLOWERS**

**JALISCO:**

- 1) DIRECTORY OF HORTICULTURIST**

**COLIMA:**

- 1) DIRECTORY OF HORTICULTURIST**

**DEMONSTRATION PROJECT ALTERNATIVES TO THE USE OF methyl  
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**1.- GOALS**

*The purpose of this subcontract is to identify the individual consumers of **methyl bromide**, their individual use, the sector to which they belong to, the crops that are using **methyl bromide** and the geographical location of such consumers.*

**2.- SINOPSIS**

AES S.C. enterprise has been selected by UNIDO in order to do the goals above mentioned. This investigation has been realized in Mexico, since January to May in 2003. In Mexico there are four companies that import and distribute methyl Bromide. They are the following ones: Trical de Baja California, S.A. de C.V. ; FAX, S.A. de C.V.; Centro Agroindustrial S.A. de C.V., (CAISA); and Koor Intercomercial S.A. To investigate the methyl bromide used in Mexico is very difficult. The obtaining of data is a continuous and slow process. It was impossible to obtain statistical data corresponding to year 2001, reason why it was decided on the most recent year 2002.

Accord to custom the imports of MB, would be around 2336 ton, however se have identified that in 2002, 1934681 kg. It was identified that in that year 1.830.851,19 kilos of methyl bromide were used in four great activities: 1/ soils fumigation 915.249,60 kg. 2/ quarentine and pre-shipment 719.119,67 kg, and 3/ commodities fumigation 196.481,90 kg and, In the soil fumigation for the fitosanitary control the product has come being gradually replaced by products like metam sodium, metam potassium and dazomet.

### 3.- INTRODUCCION

México is a country composed by 31 states which ones have a surface of two millions km<sup>2</sup>, in this project we have selected seventeen states, these are the follows : Aguascalientes, Baja California Norte, Baja California Sur, Chihuahua, Coahuila, Colima, Guanajuato, Jalisco, Michoacán, Nayarit, Nuevo León, San Luis Potosí, Sinaloa, Sonora, Tamaulipas, Veracruz, Yucatán. They are the best important in agriculture surface, ports and borders. We have visited the places most important to know: who, where, when and how much uses methyl bromide. We have let responsible person in many cities in order to obtain the information from supplies, growers, fumigation companies, farmer associations and sources reliable. For us is very important identify all the link of the chain.

#### 3.1 Subjects of methyl bromide

Methyl bromide is used as an insecticide since 1908, is a potent insecticide with some acaricidal properties and used for space fumigation and for the fumigation of plants and plant products in stores, mills and ships, also a soil fumigant used to control fungi, insects and nematodes. Methyl bromide is highly toxic to man (1), however, Pesticide Catalog Official, published 19 august 1991, in México, doesn't include methyl bromide into the list of restrict pesticide ;during a long time since now, that has been the main reason in which one methyl bromide has been uncontrolled in Mexico. Import companies consider methyl bromide highly toxic – Trical de Baja California, S.A. de C.V. – and light toxic – FAX, S.A.- when they fill request of importation, this is an important contradiction.

In fact, methyl bromide has been included in the list of substances that deplete the Ozone layer, and is subject to a phase-out schedule according to the Montreal Protocol, 1997 (to be reduced to 70% in development countries at January 2003 and whole on January 2005; to be reduced to 20% in not development countries at January 2005, and whole on January 2015). Companies know this Montreal Protocol and are afraid of give any information about it with regard to it, has been very difficult and long for us to find information about what actually happened with the methyl bromine uses.

### **3.2 Uses of the methyl bromide in mexican horticulture**

The application of Methyl Bromide for the control of pathogens of soil, obeys to different reasons, taking care of from the different geographic zones, the technology of handling, the infestation of soils, the soil not opened to the culture, ground disposition to make rotation of crops, and also in some cases to the conditions of commercialization contract of the products, that settle down between the producers and companies that control the international market and coverall some sectors of the North American market.

### **3.3 Definition of work**

In generally, the burocratic gestion is hard and long. In general terms a great difficulty for the obtaining of the information was had, as much at institutional level as prevailed. In institutions official information corresponding to year 2001 was sent in boxes of file died to warehouses, that they are not under responsibility of the units that gather together the information, and by such reason it is difficult and practically impossible to obtain it. By all mentioned-above we displayed information of year 2002.

## **4.- DEVELOPMENT OF THE WORK**

This investigation has been realized in Mexico, since January to May in 2003.

The accomplishment of this work has been carried out in three stages.

### **4.1 Step 1.- Companies-import of methyl bromide**

#### **4.1.1 Companies.**

An initial search became of the import companies register and authorized by CICOPLAFEST (1) (Intersecretarial Commission for the Control of the Process and use of Plaguicidas, Fertilizers and Toxic Substances)

They are :

- Trical de Baja California, S.A. de C.V.
- FAX, S.A. de C. V.
- Centro Agroindustrial, S.A. de C.V. (CAISA)
- Koor intercomercial S.A.

In this initial stage it was very difficult to obtain information, all of this companies answer us that they have an agreement among them not to give any information. As opposed to this , our group of investigators, realized a list of main growers like a possible consumers of methyl bromide. We get in

touch with expert agricultural fields and trade pesticides in order to obtain a directory of methyl bromide ending users.

#### **4.1.2. Methyl bromide imported in Mexico in 2002**

The estimation of volumens of import of the Methyl Bromide of year 2002 was made from the data provided by two sources of informations. The imports registered in the Economy Secretariat (A) whose data are expressed in million dollars; and the authorizations of import granted by CICOPLAFEST-SEMARNAT (B) these are expressed in tons.

The determination of the amounts of import of methyl bromide in Mexico was difficult because the sources of information display different indicators. The Secretariat of Economy counts on statistics of import in dollars. This information presents the difference of which the price by kilogram of the product is variable, it is based on the presentation of the package or container.

On the part of CICOPLAFEST-SEMARNAT it registers the import requests, nevertheless this request has a term of fulfillment a year, counted as of the date in which the request was elaborated, reason why the sum of import requests not necessarily corresponds to the sum of the import product.

##### **A) Economy Secretariat**

The statistic of import of the Economy Secretariat allows us the following information of year 2002. Of January to October a total of U.S.\$ 4.152.419,00 was concerned. In order to obtain the average of imports of the months of November and December was considered the average of the imports of last the five years (1997-2001) U.S. \$1 ,665,706.8 reason why we would have a total value of import of U.S. \$ 5.818.125,8 .

In order to obtain the amount of kilograms, that represents the total of the value in dollars determined an average price by imported kilogram of U.S. \$ 2.49, according to the values declared in the import requests. According to this price and to the total value of the mentioned import, one concludes that in year 2002 approximately 2,336,596.7 kg of methyl bromide were imported.



B) CICOPLAFEST- SEMARNAT.

The data obtained through CICOPLAFEST, through the Direction of Management of the Quality of the Air, Registry of Emissions and Transferences of Polluting agents of the Secretary of Environment and Natural Resources (SEMARNAT), confirmed that the imports at MB were:

<b>ENTERPRISE</b>
Trical de Baja California, S.A de C.V.
Koor Intercomercial, S.A. de C.V
Fax, S.A de C.V.
<b>TOTAL</b>

Source: SEMARNAT, Direction of Management of the Quality of the Air.

**4.2 Step 2. Sources of information.**

**4.2.1 CAADES, Unifrut, Associations and others**

In order to obtain more profit the group of investigators it will be introduced like a agronomist of Clean Field (Civil and Government Association which main objective is store containers from toxic pesticides). In this stage it will possible to visit farmers associations with a lot of several crops. In Sinaloa's state (headquarters place) we work together with CAADES (Confederación de Asociaciones de Agricultores del Estado de Sinaloa); in Chihuahua, with Regional Agricultural Union of Fruitgrowing of the State of Chihuahua (UNIFRUT); in Mexico's state with The Association of Producers Ornato Plants and Flowers, and Association of Producers of Gladiola. In Baja California, Association of agriculturists of North Baja California. In others states we work with individual producers Association of Producers and technical advisers of producers.

#### 4.2.2 AMIFAC

Another source of information was obtained from the Fitosanitary Industry Association Organization A.C. (AMIFAC), which ones has included into it distributing and marketing companies of plaguicidas in Mexico. The associates directory obtained and we consulted 5% of companies located in different states (1465 companies in Mexico). The consultation was relative to the levels of commercialization of the methyl bromide. It was obtained like result that a low percentage of the companies affirmed to commercialize the bromide in their presentation of metallic package of 1,5 pounds for provision of small producers without there was registries of these nor destiny or use of the product.

The product was quantified that is distributed to the tin retail of 1,5 pounds. Equivalent to 681 g. was that 85.000 tins take place and distribute, with a content equivalent to 57.885 kg.

This product distributes without registries nor systems of pursuit. The users are small producers, that use it in the fumigation of substrates for diverse cultures, specially those that they require of transplants, and in susbratos for the flower production. The users are located in the center of the country in the states of Mexico, Morelos, Puebla and Tlaxcala

That many small producers of flowers and vegetables are near the city of Mexico reason why, they produce less in microscale (than 1 ha)y directly commercialize its products to the cities of Mexico and Puebla.

The states of Jalisco, Guanajuato, Aguascalientes and Querétaro, also are consuming potentials of this type of presentation of BM, since great amount of small producers that provide the regional markets of the bordering urban zones (City of Guadalajara, Guanajuato, Leon, Celaya, Salamanca and Querétaro).

#### 4.3 Step 3. States, cultures and quarantine.

In this step our out of selfishness it was about **states** (Baja California Norte y Sur, Sinaloa, Sonora, Colima, Jalisco, Guerrero, Michoacán y Oaxaca),**cultures** (strawberry, tomato, bell pepper, melon, raspberry, blackberry, tobacco, garlic, flowers, sugar cane, cucumber, lemon and various) and **quarantine**.

We visited production areas by individual crop and we found a big diversity . Cut flower is cultivated in Mexico state. Garlic is produced in Guanajuato state, in addition, we get information from public institution like Unit of Protection of the Ozone Layer; General Deparment of Vegetal Health SAGARPA, Autonomous University of Chapingo, Mexican Advice of the

Flower. The pursuit of specific cases include interviews with personalities and investigators related to the handling of the cultures.

#### 4.3.1. States

##### Baja California State

In the states of Baja California Sur and Baja California Norte, the use of methyl bromide displays a very significant concentration and it is applied to the cultures of strawberry, tomato, Chile Bell, raspberry, cucumber and flowers.

In this region 641,053 kg of methyl bromide were located, which represents 70% of the total of the fumigated ground. To see the following picture

Culture	Baja California Norte		Baja California Sur	
	Kg	Ha	kg	Ha
Strawberry	277.859	708	59.378	188
Tomato	83.035	247	74.880	227
Bell pepper	32.960	112	77.521	351
Raspberry	10.920	28	---	---
Flowers	4.500	30	---	---
Cucumber	2.000	4	---	---
Others	18.000	---	---	---
Total	429.274	1.129	211.779	766

The demand of MB in this region obeys to three reasons:

1. Presence of pathogens like *fusarium*, *verticillium*, nematodes and complex of germ that cause the bacterial cancer, which have infested great part of grounds destined to vegetables.
2. Its about the regional climatic conditions, inferior average temperatures to the 20 centigrados degrees and high relative humidity (70-80%), as to the structure of the soil, it contributes to the presence of the indicated pathogens.
3. The low water disposition which is in fixed and located places, causes that lands work such, without rotation options, which are more prone to the infestación

##### Sinaloa State

This region constitutes the main horticultural zone of the country. There is a superficie of 50,000 to 65,000 hectares dedicated to the culture of the tomato, bell pepper, and cucumber, in addition there are 15,000 hectares that cultivate tomato saladez and hot pepper for national market. This region is not consuming important of methyl bromide (10,500 kg. in 30 ha of tomato and 35,542 kg in 115 ha of bell pepper – Table No 6), which had to a great extent to that the horticulturists count on ample ejidales land surfaces that can be rented during periods of three to five years, being able to have them

to make a rotation complete of cultures, that is to say, to a land it in some cycle without cultivating can be destined one or two cycles to horticulture and one or two cycles to the grain production, and even be left.

The following factor that determines the low consumption of methyl bromide in this region is related to the smaller presence of pathogens in soils, because some of them are controlled by ground heatings through waddings, whereas others are controlled directly through the fertirrigación systems adding plaguicidas as busán (sodium metan).

The costs of the rent of the ejidales ground Earth, can vary between 3.500,00 to 5.000,00 pesos Mexican by hectare to the year (equivalent to 350-500 dollars North American) whereas the costs of application of methyl bromide in band for cultures of chile bell pepper and tomato are of 2000 to 2250 dollars, and in total application of 3000 dollars, which implies compared costs of 4 to 6 superior times with the rent of the ground. These costs explain largely why the agriculturists prefer to rent lands that to apply Methyl Bromide.

This scheme of costs by rent of grounds is similar in other states like Jalisco, Colima, Michoacán, Guerrero and Oaxaca. In the state of Guanajuato specially it is applied in the garlic culture.

### **Sonora State**

In this region the production of vegetables counts on two restrictive elements.

In the first place it is the low water availability reason why the bell pepper, tomato, melon and watermelon are developed in small surfaces. The second restrictive element talks about the extremoso climate reason why solely in a period reduced of September, October and November cultures to open sky take place.

In this region the production of vegetables in greenhouses systems has been increased, most of the infrastructure for this construction has been contracted with Israeli companies, those that include in the technological package the use of methyl bromide like conditioner of the vegetal health. Therefore the production of tomato in Sonora state appears associate to the use of methyl bromide in greenhouses (7257 kg. in 40 ha. –Table No. 6)

### **Colima y Jalisco States**

In this region the horticolas cultures are of recent introduction, being outstanding the melon production, despite the ground availability it allows the horticulturists to make strategies of rotation by means of the ground renting that traditionally was destined to production of grains or pasturing for

extensive livestock, therefore seems to have decreased the volume of Methyl Bromide that originally was used in the region

In the state of Jalisco it was consulted to the Sandimex company (Mexican Watermelons S.P.R. of R.I.), its representative Mr. Arturo Medina Vizcaino indicated that this company for three years has been making melon cultures by means of the technique of grafts, that in the zone do not use methyl bromide, and that in the region knows that the producer that commonly uses MB he is Mr. Michel in the state of Colima.

<b>Culture</b>	<b>Colima</b>		<b>Jalisco</b>	
	Kg	ha	kg	ha
Melon	60.160	277	-	-
Raspberry	-	-	23.400	60,0
Blackberry	-	-	23.902	61,0
Flowers	-	-	3.050	16,5
<b>Total</b>	<b>60.160</b>	<b>277</b>	<b>50.356</b>	<b>137,5</b>

#### **Guerrero, Michoacan and Oaxaca States**

In these states the melon production was very important, in a relatively short period, since in 1998-1999, and later in 2001 there was a lot of problems in the North American market, considered to the Mexican melon like carrier of *sigella* and *salmonella*, which repelled solely in the fall of the exports that happened of 205 thousand tons in 1998-1999, to 73 thousand tons in 2001-2002. The production of melon destined to the export has lived the worse crisis in the last three years, the states of Guerrero and specially Oaxaca only produces for the national market

The investigation that was made with the producers of this regions indicates that methyl bromide is not used, apply metam sodium which counts on fertirrigación systems; but all consider the ground rotation like means of control of pathogens .

#### **4.3.2 Cultures**

Commentaries relative to the characteristics of some cultures that are potentially needed of methyl bromide.

## Culture of flowers

The main regions of production of flower in Mexico are located in the states of Mexico, Morelos and Puebla; they have favorable climatic conditions, but in addition, they are located very near the great city of Mexico, which one constitute a very important market for great and small companies and for the microcompanies and producers that directly commercialize their products through the local markets. Other regions of importance for the producción of flower are located in the states of Veracruz and Jalisco, this last one also counts favorable climatic conditions and it has exporting companies and suppliers of the local market of the city of Guadalajara.

In the northwest of the country it emphasizes the state of Baja California, in which companies are located that supply to the market of export and the local market of the city of Tijuana (Mexico) and San Diego (U.S.A.)

In relation to the specificationses for the production of flower and the procedures for the sterilization of substrates as much the companies as the technical organizations and advisers agree in specially indicating the steam use of the hot water in substitution of fumigantes of the Methyl Bromide. Also they are agree in indications about the small producers use the MB in tin container of 1,5 lbs .

In the region of Baja California Norte, the Flowers Producers Association indicates that it counts on an approximated zone of 30 ha of green houses, in which was applied the amount of 4,500 kg of BM in 2002. This organization indicates that they have proven other techniques to replace the BM, specially the sterilization of substrates by means of hot water steam, but that is a technique that has been more expensive than the bromide methyl reason from why this it continues itself using.

For the culture of flowers we visited the Academy of Floricultura of the Autonomous University of Chapingo and we can get information about master degree in flower production Maria de Jesus Juarez , this investigator explain us that the procedures for esterilization of the substrates of flower culture have excluded the use from methyl bromide. She indicates that the substrates in greenhouse sterilize by means of elevation of temperature with water vaporizer. For the case of the substrates used in flowerpot the use of organic product has been increased considerably, now producers are using compost and patterns resistant to diseases caused by fungi and bacteria. Other cultures that traditionally are made to field like the gladiolas, use a preventive treatment that is applied in bulbs by means of diverse combined hidrotermia and fungicide products.

The investigator concludes that the methyl bromide is used specially of occasional way and by the small producers, since they do not have technologies and greenhouses are forced to make the treatment of substrates using methyl bromine can (680 gr./m3 of substrate in treatment).

states of Mexico, Morelos and Puebla the use of the bromide is inferior to 1% of the total surface dedicated to the flowers. The teacher in sciences Ponce, specialist in Fitosanitary control of the Department of Parasitology of the Independent University of Chapingo, indicates that the control of the flower is made by means of preventive activities, such as the sterilization of substrates by means of hidrotermic treatment as the application of diverse pesticides in the bulbs and for reproduce them. The Dazomet like a biocida is used that controls an ample rank of phytopatogens. This investigator concludes that the methyl bromide is unusual in the flower production and he is agree with Juárez investigator whereupon they are the small producers that occasionally use it.

### ***Melon culture***

In relation to the melon culture the following commentaries are added: The person in charge of commercialization of the National Confederation of Producers of Hortalizas Sr. Mario Arnoldo Robles, indicates that in the year of 1999, some buds of diseases caused by *salmonella* and *sigella* appeared, in some states of the U.S.A., and that these problems were associated to the Mexican melon consumption, reason why a campaign was made that it had as consequence the drastic reduction of the volumes of consumption, which generated the fall of the price of this product; this has been pronounced clearly in the volumes of the Mexican exports. In 1999 Mexico exported 205,108 tons of Cantaloupe melon and 111,365 tons of Honey melon; nevertheless for the cycle of single culture 2001-2002 could be exported 73,628 tons of Cantaloupe and 73.864 of Honey. This drastic fall in the export generated a natural exclusion of producing regions with high production costs and those regions and companies with greater capacity of competitiveness only had left.

Within the regions excluded for the Mexican melon export they emphasize Baja California, Guerrero and Oaxaca. In Baja California a culture of vertical production practiced, supporting the plant in artificial supports, and selecting the fruit of the best size, reason why this system reduces the production area and increases in price the unit costs. The region conformed by the states of Guerrero, Oaxaca and part of Michoacán is located to very remote distances of the border 2000 and 2500 km, in addition the technologies not fulfilllet the technical requirements that reduce the contamination risks.

In consultation with melon producers, directors of organizations of producers and technical advisers, have agreed in indicating that the control of pathogens in the culture of the melon, is made through the application of products like metam sodium through the systems of fertirrigation and making the cultures in free grounds of infestación by means of the rotation of cultures.

The indicators of export of last the nine years (1993-2002) of following products are annexed: tomato, Chile Bell, strawberries, melon, cucumber and watermelon. The data were provided by the Department of Commercialization of the National Confederation of Producers of Vegetables.

The graphs show a clear fall of the melon exports, which can constitute a reason to the low volumes of BM identified in the production of this culture.

### **Culture of strawberry, raspberry and blackberry.**

In some zones of the states of Michoacán (Jacona and Zamora) and Jalisco (Xocotepec), the cultures of strawberry, raspberry and blackberry, are being made under contract between small producers and some companies such as Becemex; Berry Mex; Bristoll's. These companies condition the technological package for culture that includes the obligatory application of methyl bromide. In the table of MB users, it appears the name of these companies although in fact they represent eight or ten small producers each one of them.

### **Cultures of tomato and chile bell**

The main producing zone of these cultures, is located in the state of Sinaloa, whose characteristics of production are indicated in the previous section, explaining the reasons for which these cultures do not demand MB.

### **Pursuit in garlic**

To give pursuit to the use of the methyl bromide in the production of garlic, the team work transfer to the state of Guanajuato visiting itself the main region of garlic production constituted by the municipality of Salamanca. The visit to the Farming Research Center of Bajio was made, obtaining interview with the director of the center Ing. Paul Gamez, with the M.C. Elena Heredia responsible for the Genetic Improvement program and the Dr Felipe Delgadillo responsible for the Control Fitosanitary program. The investigators indicate that the methyl bromide was used occasionally in the garlic production 4 or 5 years ago, and is used by the great companies of the family Usabiaga and Nieto. The bromide was used in an area of 50 hectare and had a cost from 2500 to 3000 dolars by hectare. Methyl bromide was used to control the white rot (*Sclerotium cepivorum*) which was the main problem that garlic has in Mexico, nevertheless the results were not good because the treated lands can be infected by the neighbors or the water of irrigation. Now two types of diseases control are used: *the first* is rotation of culture of 1 to 3 years in the same land and look for a new place, and the second estrategia consist in aplicacion of pesticides metam-sodium and metam-potasium (busam) through the systems of fertirrigation these guarantee the pathogens control during all grow and develop of garlic.



### **4.3.3. Quarantine and Pre-shipment, commodities fumigation and structural fumigation**

#### **4.3.3.1. Quarantine and pre-shipment.**

The source of information for the determination of the volume of the product destined to the quarantine use and pre-shipment, obtained when consulting the archives of the Direction of Normatividad of the Secretariat of Agriculture, Livestock, Rural Development, Fishing and Food (SAGARPA).

The quarantine control is applied for the import of grain seeds and diverse products. With respect to grains and seeds the import norm establishes that only even the original products of the United States and Canada the treatment with Aluminum Phosphide will be accepted. Despite the SAGARPA inspector it will determine if the product requires application of MB even though displays certificate of treatment of the origin country. The originating products of the rest of countries invariably will be dealt with MB except when sowing seeds of and/or product of test come destined for.

For the case of the exports the MB is applied to the pre-shipment of some grain products, whenever the destiny country asks for it. Some of main exported grains as the chick-pea receives treatment with Aluminum Phosphide.

The quarantine control is applied in all the terrestrial points of import as much as marine. They emphasize the North border in the points of connection of highways and railroads, the states of Chihuahua, Sonora, Coahuila, Nuevo Leon and Tamaulipas. The marine ports emphasize by their importance, Manzanillo, Veracruz, Tampico and Altamira.

#### **4.3.3.2. Commodities fumigations**

Commodities fumigations is the applications of methyl bromide for the internal product movement that is transported within Mexico, but which they are not exported. The applications of MB are made specially to fruits, for the control of the fly of the Mediterranean. Also it is applied in wheat to avoid the partial coal dispersion

#### **4.3.3.3. Structural fumigation**

Any companies were identified that use MB in mills, silos and warehouses of grains. Most of the companies interviewed reported the use of aluminum phosphide arguing that this product adapts better to the specifications of stored products.

The mill grain industry requests to its suppliers program its monthly or bimonthly supplying to reduce storage costs. The Associations of Agriculturists report use of Aluminum Phosphide because this product adapts better to the dynamics of the grain reception that depends on the periods of harvest

## 5.- RESULTS

It has been a hard work, the complexity of this investigation has caused that the time to present results has extended, but now we can present these results and database in Excel which ones contain information in: companies, crops and places of application.

1. The regulating organism in Mexico for the handling of toxic substances (CICOPLAFEST) only register four companies that import methyl bromide in Mexico.
2. In 2002 there was a net import of 1.934.681 kilos of methyl bromide
3. The regulating organism of the quarentine use of the methyl bromide, that is the Secretary of Agriculture. Livestock, Fishing and Food (SAGARPA), registers 56 fumigators companies.
4. The Mexican Association of Fitosanitaria Industry A.C. (AMIFAC) counts on a register of 1465 distributing pesticide's product companies, which can commercialize the methyl bromide, but they are not forced to report the use or handling before no organism of control.
5. The work allows to define in a 2002 total consumption of 1.830.851,19 kilograms of methyl bromide. of which 915,249,60 are used mainly by companies related to the market of export of vegetables
6. By order of importance as far as activities or uses, volumenes of consumption during year 2002 is the following ones:

SUBJECT	METHYL BROMIDE KG
QUARENTINE AND PRE-SHIPMENT	719.119,67
COMMODITIES FUMIGATION	196.481,92
STRAWBERRY	373.477,00
TOMATO	178.082,60
BELL PEPPER	146.223,00
MELON	60.160,00
RASPBERRY	45.240,00
BLACKBERRY	34.432,00
TOBACCO	29.637,00
GARLIC	15.000,00
FLOWERS	7.554,00
SUGAR CANE	3.624,00
CUCUMBER	2.000,00
LEMON	1.833,60
OTHERS	18.000,00
<b>TOTAL</b>	<b>1.830.851,19</b>

7. The consumption of methyl bromide in Mexico by states is as follows (kg):

STATES	QUARENTINE & PRE-SHIPMENT	COMMODITIES FUMIGATION	SOIL FUMIGATION	TOTAL
Aguascalientes			1.050,00	1.050,00
Baja California Norte	464,00		429.274,00	429.738,00
Baja California Sur		2037,90	211.779,00	213.816,90
Chihuahua	82.857,40			82.857,40
Coahuila	202.800,20	2.075,40		204.875,60
Colima	29.221,17		60.160,00	89.381,17
Guanajuato			15.000,00	15.000,00
Jalisco			50.356,00	50.356,00
Michoacán	12.344,00		57.690,00	70.034,00
Nayarit			29.637,00	29.637,00
Nuevo León		7348,36		7.348,36
San Luis Potosí		887,86	6.804,00	7.691,86
Sinaloa	149,92	69.527,90	46.242,00	115.909,82
Sonora		43.858,60	7.257,60	51.116,20
Tamaulipas	310.576,82	70.732,12		381.308,94
Veracruz	68.623,36	23,78		68.647,14
Yucatán	12.082,80			12.082,80
<b>TOTAL</b>	<b>719.119,67</b>	<b>196.481,92</b>	<b>915.249,60</b>	<b>1.830.851,19</b>

## **6.- CONCLUSIONS**

1.- The greater use of methyl bromide in Mexico 915.249 kg corresponds to the activity of soil fumigation in agriculture, in crops which production is destined to export

2.- The use of methyl bromide in the grain fumigation corresponds to the quarantine activity and pre-shipment is of 719,119.67 kg; important amount due to the grain fumigation that import Mexico.

3.- The methyl bromide that is commercialized in cans of 1,5 pounds (85.000 cans equivalent to 57.885 kg) freely in the national market through a very ample chain of distributors why it becomes difficult to give a precise pursuit of the same one.

4.- The difference between the net import of methyl bromide reported by the companies (1.934.681 kg) and the volume of consumption detected through the present work (1.830.851.19 kg) is of 104.230,81 kilograms, same that we suppose are in inventory of the companies or applications nonreported or in the not included states of the country in the area of study of this work.

## **7.- RECOMMENDATIONS**

1. - It is necessary to elaborate effective instruments for the pursuit to the use of methyl bromide, for which it is recommended that the Secretariat of Agriculture, Rural Development, Fishing and Food (SAGARPA) emits a specific Mexican Official Norm for the use and handling of methyl bromide, through commits the importer, usuary distributor or to take binnacles of control and to report it before the same SAGARPA

2.- In order to reduce to the environmental effect of the use of methyl bromide the authority it will have to emit obligations of recovery of remainders of the product, basically in the soils fumigatins, quarantines and pre-shipment . To develop, simultaneously, oriented technological processes to the substitution of methyl bromide in the mentioned activities.

## 8.- REFERENCES

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3. Worthing, Charles, 1991, The Pesticide Manual. A world Compendium. Ninth Edition. Published by the British Crop Protection Council, U.S.A.
4. Consejo Mexicano de la Flor, 2002, Directorio de socios.
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## **APPENDIX 1**

### **LIST OF USERS MB IN MEXICO 2002**

- 1. QUARANTINE AND PRE-SHIPMENT**
- 2. COMMODITIES FUMIGATIONS**
- 3. SOIL FUMIGATIONS**

**CONSUMO DE BROMURO DE METILO EN MEXICO DURANTE EL AÑO 2002  
QUARANTINE AND PRE-SHIPMENT**

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	AREA FUMIGADA m <sup>3</sup>	TONELADAS FUMIGADAS	PRODUCTOS	LUGAR APLICADO
Fumigación y Sanidad Fitopecuaria de Baja California S.A. de C.V.	Mexicali	Baja California Nte.	464.00	11.580.00	2.287,00	Frijol, Alfalfa, maiz	Bodega
Profesionales Administrativos y Técnicos, para el Desarrollo Rural S.C.	Ciudad Juárez	Chihuahua	65.476,80	1.558.773,00	955.350,00	maiz, trigo, sorgo, soya	Contenedores/FFC C/Bodegas
Tratamientos Especializados Fered, S.A. de C.V.	Ciudad Juárez	Chihuahua	17.380,60	438.986,00	230.153,40	soya, arroz, trigo, alpieste	Contenedores/FFC C/Bodegas
Aplicación Fitosanitaria Vegetal S.A. de C.V.	Piedras Negras	Coahuila	103.999,00		1.750.326,00	Trigo, Arroz, maiz	Contenedores/FFC C/Bodegas
Profesionales, Administrativos y Técnicos para el Desarrollo Rural, S.C.	Piedras Negras	Coahuila	78.269,20	2.593.286,00	1.693.540,00	Maiz y soya	Bodega
Sanidad y Fumigación Fitopecuaria del Norte S.A. de C.V.	Piedras Negras	Coahuila	5.206,00	118.291,00	68.050,30	Maiz, sorgo	Contenedor
Servicios Fitosanitarios de México, S.A. de C.V.	Piedras Negras	Coahuila	1.394,00	25.040,00	16.091,00	semillas varias	FF.CC.
Sistema Agroindustrial Samol S.A. de C.V.	Piedras Negras	Coahuila	13.932,00	309.102,00	204.341,00	Maiz y sorgo	Contenedores/FFC C/Bodegas
Compañía Mexicana de Fumigaciones S.A. de C.V.	Manzanillo	Colima	17.271,40	481.200,00	283.048,60	varios	Cont./Buque
Fumigación Especializada del Puerto S.A. de C.V.	Manzanillo	Colima	7.544,40	170.893,00	122.454,00	varios	Cont./Buque
Industrias Colima	Manzanillo	Colima	3.301,00	82.672,00	55.868,10	Varios	Bodega
MASEPO Fumigadora Fitozoosanitaria de México S.A. de C.V.	Manzanillo	Colima	636,36	70.465,00	4.469,19	Canela, Chile seco, haba	Cont./Buque
Servicio Especializado de Fumigaciones del Pacifico	Manzanillo	Colima	229,61	55.743,00	28.926,09	varios	Cont./Buque

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	AREA FUMIGADA m <sup>3</sup>	TONELADAS FUMIGADAS	PRODUCTOS	LUGAR APLICADO
Unidad Nacional de Servicios de Fumigación y Sanitización S.A. de C.V.	Manzanillo	Colima	238.40	11.584,00	8.793,92	Semilla calabaza, chile, cuacho	Cont./Buque
Fumigaciones Centro Occidente	Lázaro Cardenas	Michoacán	2.371,00	42.850,00		trigo	Bodega
Tratamientos Agroindustriales Fitosanitarios S.A. de C.V.	Lázaro Cardenas	Michoacán	9.973,00	178.116,00	124.942,00	Trigo	Contenedores
Cargo Control, S.A. de C.V.	Mazatlán	Sinaloa	149,92	3.709,50	1.060,51		Contenedores
Fumigación Fitosanitaria Mexicana S.A. de C.V.	Altamira	Tamaulipas	988,50	10.161,00	1.491,70	Tabaco,café. Varios	bodega
Fumigaciones Industriales del Norte S.A. de C.V.	Altamira	Tamaulipas	1.815,00	27.991,00	3.090,00	Café y semillas	Bodega
MASEPO Fumigadora Fitozoosanitaria de México S.A. de C.V.	Altamira	Tamaulipas	49,02	680,00	278,10	Hule natural, madera	Con./Buque
Uniservicios Altamat S.A. de C.V.	Altamira	Tamaulipas	1.580,00	38.477,00	28.371,00	Hule, sem. de calabazas	Cont./Buque
Proveedores Asociados Agroindustriales S.A. de C.V.	Cd. Camargo	Tamaulipas	9.206,00	39.734,00	134.614,00	Sorgo	Caja Trailers
Fumigaciones Noroeste de Tamaulipas S.A. de C.V.	Matamoros	Tamaulipas	24.923,00	136.988,00	360.063,30	Algodón,soya y maiz	Bodega
Fumigaciones y Servicios del Norte, S.A. de C.V.	Matamoros	Tamaulipas	11.531,30	115.122,00	163.440,00	Algodón y semillas	Bodega
FUMYSYSTEM, S.A. DE C.V.	Matamoros	Tamaulipas	47.887,00		1.010.145,00	Maiz, sorgo,algodón, soya	Contenedores,FF.C C.
Servicios Fitosanitarios de México S.A. de C.V.	Matamoros	Tamaulipas	626,00	51.216,00	30.307,00	Maiz, chile	Bodega
Aplicación Fitosanitaria Vegetal S.A. de C.V.	Nuevo Laredo	Tamaulipas	47.436,00	149.888,00	512.325,00	Maiz, Cacahuete	FF.CC.
Desarrollo Agrícola de Coahuila, S.A. de C.V.	Nuevo Laredo	Tamaulipas	1.360,80		11.214,00	Granos	Bodega



PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	AREA FUMIGADA m <sup>3</sup>	TONELADAS FUMIGADAS	PRODUCTOS	LUGAR APLICADO
FUMYSYSTEM, S.A. DE C.V.	Nuevo Laredo	Tamaulipas	1.489,00		40.523,00	Maiz, algodón	Bodega
Profesionales Administrativos y Técnicos para el Desarrollo Rural, S.C.	Nuevo Laredo	Tamaulipas	42.345,00	359.661,00	431.372,00	Maiz, sorgo, algodón, soya	Contenedor/Bodega
Servicios Fitosanitarios de México S.A. de C.V.	Nuevo Laredo	Tamaulipas	10.335,00	136.497,00	139.202,00	Granos y algodón	Bodega
Sistemas Agroindustriales Sanmol, S.A. de C.V.	Nuevo Laredo	Tamaulipas	18.513,76	236.398,00	236.772,00	Granos/algodón	Bodega
Tratamientos Cuarentenarios e Industriales S.A. de C.V.	Nuevo Laredo	Tamaulipas	16.762,00	206.859,00	180.765,00	Algodón, semillas, Maiz, sorgo, algodón, soya	Bodega
FUMYSYSTEM, S.A. DE C.V.	Nuevo Progreso	Tamaulipas	15.486,00	208.800,00	230.191,00	Maiz, Avena	Caja Trailers
Proveedores Asociados Agroindustriales, S.A. de C.V.	Nuevo Progreso	Tamaulipas	27.740,20	465.126,00	672.632,00	Maiz, Algodón, frijol, sorgo	Contenedor/bodega
Servicios Agropecuarios de Enlace S.A. de C.V.	Nuevo Progreso	Tamaulipas	2.904,00	71.150,00	53.457,00	Maiz, Avena	Bodega
Sistemas Agroindustriales Sanmol, S.A. de C.V.	Piedras Negras	Tamaulipas	16.517,86	294.089,00	214.455,20	Maiz, sorgo, soya	Bodega
Industrias del Río Bravo S.A. de C.V.	Río Bravo	Tamaulipas	2.449,44		28.325,00	Maiz	Bodega
Fumigaciones Industriales del Norte S.A. de C.V.	Tampico	Tamaulipas	398,00	8.716,00	4.043,09	Garbanzo	Contenedor
MASEPO Fumigadora Fitoosanitaria de México S.A. de C.V.	Tampico	Tamaulipas	7.637,94	183.903,00	122.490,40	Hule natural, madera	Cont./Buque
Uniservicios Altamat S.A. de C.V.	Tampico	Tamaulipas	596,00	7.266,00	5.499,00	Trigo	Cont./Buque
Fumigaciones Martisof, S.A. de C.V.	Tuxpan	Veracruz	21.500,00	274.019,00	118.629,00	trigo	Contenedores/bodega gas
Fitosanitaria S.A. de C.V.	Veracruz	Veracruz	1.222,10	30.553,00	12.011,00	trigo	Bodega

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	AREA FUMIGADA m <sup>3</sup>	TONELADAS FUMIGADAS	PRODUCTOS	LUGAR APLICADO
Fumigaciones Fitosanitarias Especializadas S.A. de C.V.	Veracruz	Veracruz	8.432,00	197.025,00	87.019,00	Calabaza, canela	Contenedores
Fumigaciones Solis, S.A de C.V.	Veracruz	Veracruz	1.632,00			Jamaica. Semilla calabaza	Contenedores
Galdisa S.A de C.V	Veracruz	Veracruz	11,36	198,00	36,62	Flor jamaica	Bodega
Inta Espacios Comercializadora	Veracruz	Veracruz	3,96	66,00	21,80	Muebles	Bodega
Internacional de Contenedores de Veracruz, S.A de C.V	Veracruz	Veracruz	18,00	450,00			
Maniobras Almacenes y Servicios S.A de C.V	Veracruz	Veracruz	17.303,00	263.559,00	168.234,00	Cacahuate, comino, cacao, ajo, etc.	Contenedores/barco
MASEPO Fumigadora Fitoosanitaria de México S.A. de C.V.	Veracruz	Veracruz	689,72	8.621,40	5.880,10	Trigo	Cont./Buque
Noriz, S.A. de C.V.	Veracruz	Veracruz	3,70	66,00	25,00	Comino	Bodega
Port de México S.A de C.V.	Veracruz	Veracruz	7,92	132,00	19,00		
Provisiones Sámano S.A de C.V.	Veracruz	Veracruz	3,70	66,00	12,00	Flor de jamaica	Bodega
Recinto Portuario de Veracruz	Veracruz	Veracruz	3,90	99,00	42,00	Mango, piña	Bodega
Renovatec, S.A de C.V	Veracruz	Veracruz	17.792,00	387.082,00	242.372,00	Maiz, Trigo	Contenedores/barco
Almacenadora Sur S.A de C.V	Puerto Progreso	Yucatán	11.644,80	158.121,00	384.992,20	trigo/henequén	Contenedores
Compañía Fumigadora Progreso, S. A. de C.V.	Puerto Progreso	Yucatán	438,00	13.864,00	5.500,00	Maiz, trigo	Contenedores
<b>SUBTOTAL</b>			<b>719.119,67</b>	<b>10.234.933,90</b>	<b>11.189.560,62</b>		

**CONSUMO DE BROMURO DE METILO EN MEXICO DURANTE EL AÑO 2002**  
**COMMODITIES FUMIGATION**

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	AREA FUMIGADA m <sup>3</sup>	TONELADAS FUMIGADAS	PRODUCTOS	LUGAR APLICADO
Comité Estatal de Sanidad Vegetal	La Paz	Baja California Sur	221,90	7656	708	Citricos y frutales	Cámara especial
Comité de Sanidad Vegetal de Coahuila	Saltillo	Coahuila	1.814,4			Frutas varias	Cámara especial
Comité de Sanidad Vegetal de Coahuila	Saltillo	Coahuila	261,0		1041,2	mango	Cámara especial
Comité de Sanidad Vegetal de Nuevo Leon	Estación cuarentenaria	Nuevo León	725,8			Frutas varias	Cámara especial
Comité de Sanidad Vegetal de Sinaloa	Guasave	Sinaloa	23,0	560	50,8	Citricos	Cámara especial
Comité de Sanidad Vegetal de Sinaloa	La Concha	Sinaloa	2.242,9	30375	8616	Mango/citricos	Cámara especial
Comité de Sanidad Vegetal de Sinaloa	Las Brisas	Sinaloa	3.338,0			Trigo	Cámara especial
Comité de Sanidad Vegetal de Sinaloa	Los Mochis	Sinaloa	61.437,0	1535937	1181490	trigo	Cámara especial
Comité de Sanidad fitopecuaria del Estado de Sonora S.C.	Agua Prieta	Sonora	704,2	14879,57	9524	Tarimas, plumas	Cámara especial
Comité de Sanidad fitopecuaria del Estado de Sonora S.C.	Alamos	Sonora	10,0	316	1715	frutas varias	Cámara especial
Comité de Sanidad fitopecuaria del Estado de Sonora S.C.	Estación Don	Sonora	4.921,0	114891	33629	Citricos, trigo	Cámara especial
Comité de Sanidad fitopecuaria del Estado de Sonora S.C.	Guaymas	Sonora	2.676,0	66999	40000	Trigo	Cámara especial
Comité de Sanidad fitopecuaria del Estado de Sonora S.C.	Navojoa	Sonora	570,0	7837	7437	trigo/frutales	Cámara especial

**CONSUMO DE BROMURO DE METILO EN MEXICO DURANTE EL AÑO 2002**  
**COMMODITIES FUMIGATION**

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	AREA FUMIGADA m <sup>3</sup>	TONELADAS FUMIGADAS	PRODUCTOS	LUGAR APLICADO
Comité de Sanidad fitopecuaria del Estado de Sonora S.C.	Nogales	Sonora	33.969,0	3756364	2411193	Maiz, soya, algodón y Chicharo	Cámara especial
Comisión Tamaulipeca de apoyo a la Sanidad Agrícola	Cd. Victoria	Tamaulipas	2.721,6			citricos	Cámara especial
Control Integrado de Tratamiento Cuarentenarios y Plagas	Matamoros	Tamaulipas	31.241,04	508.196,00	424.830,50	Maiz. Frijol, soya	Bodega
Control Integrado de Tratamiento Cuarentenarios y Plagas Fumigaciones Gutierrez S.A.	Nuevo Laredo	Tamaulipas	36.769,48	505.326,00	301.401,19	Arroz, maiz granos	Bodega
Fumigaciones Técnicas y Jardinera S.A. de C.V.	La Paz	Baja California Sur	1.816,00		31.250,00	Granos	Bodega
Distribuidora Comunitaria de San Pedro S.A. de C.V.	Monterrey	Nuevo León	816,48			Granos	Bodega
Servicios Agrotecnológicos S.A. de C.V.	Monterrey	Nuevo León	181,44			Granos	Bodega
Rolando Loera Mendoza	Monterrey	Nuevo León	5.624,64			Granos	Bodega
Sabino Castillo	Delegación Bocas	San Luis Potosí	108,72	3.624,00	780,00	Legumbres	Termo King
José Macías	Delegación Bocas	San Luis Potosí	81,54	1.330,00	495,00	Legumbres	Termo King
	Matehuala	San Luis Potosí	1,81	60,00	12,50	Chile seco	Bodega
Rancho El Epazote	Matehuala	San Luis Potosí	30,00	600,00	1,00	Sustrato para invernadero	Bodega
Rancho el Huizache	Matehuala	San Luis Potosí	40,00	800,00	1,50	Sustrato para invernadero	Bodega
Arturo Garcia	Mercado de Abastos S.L.P.	San Luis Potosí	22,40	700,00	1.400,00	Chile seco	Bodega
Azcona	Mercado de Abastos S.L.P.	San Luis Potosí	19,20	600,00	1.200,00	Chiles	Bodega

**CONSUMO DE BROMURO DE METILO EN MEXICO DURANTE EL AÑO 2002**  
**COMMODITIES FUMIGATION**

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	AREA FUMIGADA m <sup>3</sup>	TONELADAS FUMIGADAS	PRODUCTOS	LUGAR APLICADO
Herminia Flores M.	Mercado de Abastos S.L.P.	San Luis Potosí	22,40	700,00	1.100,00	Chiles	Bodega
María de R. Velquez	Mercado de Abastos S.L.P.	San Luis Potosí	25,00	800,00	1.450,00	Chile seco	Bodega
Semillas San Luis	Mercado de Abastos S.L.P.	San Luis Potosí	19,20	600,00	1.400,00	Granos	Bodega
Juan Martínez Ibarra	Moctezuma	San Luis Potosí	1,36	45,00	10,00	Chile seco	Bodega
Maderas Tangamanga	Mpio. De San Luis Potosí	San Luis Potosí	100,00	2.000,00	56,00	Madera	Bodega
Maderería el Pino	Mpio. De San Luis Potosí	San Luis Potosí	150,00	3.000,00	84,00	Madera	Bodega
Maderería San Luis	Mpio. De San Luis Potosí	San Luis Potosí	150,00	3.000,00	84,00	Madera	Bodega
Erik Peña	San Luis Potosí	San Luis Potosí	35,00	875,00	1.650,00	Chile seco	Bodega
Herminio Aguilar	San Luis Potosí	San Luis Potosí	16,00	500,00	1.100,00	Chile seco	Bodega
Floral Decorativa	Soledad de Graciano Sanchez	San Luis Potosí	65,23	1.864,00	260,00	Flores	Contendor
Granos de Sinaloa S.A	Culiacán	Sinaloa	1.752,00		35.200,00	granos	Bodega
Molinera del Fuerte S.A. de C.V	Los Mochis	Sinaloa	725,00	17.097,00		vacio	Almacén
Fumigaciones y Servicios del Pacifico y Noroeste, S.A. de C.V.	Cd. Obregón	Sonora	163,00	2.038,00	1.630,00	trigo	Bodega
Fumigaciones y Servicios Pacifico y Noroeste, S.A de C.V.	Cd. Obregón	Sonora	845,60	10.570,00	8.456,00	trigo	Bodega
Cacahuates y Botanas Yens S. de R.L. de C.V	Veracruz	Veracruz	3,70	66,00	20,50	Habas	Bodega
Casa Guemes S.A de C.V.	Veracruz	Veracruz	2,64	66,00	10,00	Oregano	Bodega
Comercializadora Suarez S.A de C.V.	Veracruz	Veracruz	7,40	132,00	38.734,00	Canela	Bodega
Dar Internacional S.A de C.V.	Veracruz	Veracruz	3,96	66,00	24,80	muebles	Bodega
Fábrica de ropa Diamantes S.A. de C.V.	Veracruz	Veracruz	6,08	76,00	2.743,00	muebles	Bodega
<b>SUBTOTAL</b>			<b>196.481,92</b>	<b>6.600.545,60</b>	<b>4.550.788,00</b>		

**CONSUMO DE BROMURO DE METILO EN MEXICO DURANTE EL AÑO 2002  
SOIL FUMIGATION**

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	SUPERFICIE FUMIGADA	LUGAR APLICADO	CULTIVO
Agroproductos de Los Altos S.A	Aguascalientes	Aguascalientes	1.050,00	3,00	Suelo	Tomate
Compañía Agrícola Omega, S de R. L. de C.V.	Valle de Mexicali	Baja Calif. Norte	6.560,00	32,00	Suelo	Chile bell
Compañía Agrícola Omega, S de R. L. de C.V.	Valle de Mexicali	Baja Calif. Norte	1.435,00	7,00	Suelo	Tomate
Berry Mex	Valle de San Quintin	Baja Calif. Norte	3.900,00	10,00	suelo	Frambuesa
Santa Lucía	Valle de San Quintin	Baja Calif. Norte	7.020,00	18,00	suelo	Frambuesa
Berry Veg de Baja	Valle de San Quintin	Baja Calif. Norte	52.500,00	130,00	suelo	Fresa
Santo Domingo Berry Farm	Valle de San Quintin	Baja Calif. Norte	5.600,00	14,00	suelo	Fresa
Berry Mex	Valle de San Quintin	Baja Calif. Norte	3.900,00	10,00	suelo	Fresa
Agrícola Colonet	Valle de San Quintin	Baja Calif. Norte	4.300,00	10,00	suelo	Fresa
Rancho Nuevo Produce	Valle de San Quintin	Baja Calif. Norte	7.800,00	20,00	suelo	Fresa
Agrovida	Valle de San Quintin	Baja Calif. Norte	15.750,00	45,00	suelo	Fresa
Rancho Camino Real	Valle de San Quintin	Baja Calif. Norte	8.060,00	20,00	suelo	Fresa
Rancho Don Juanito	Valle de San Quintin	Baja Calif. Norte	26.500,00	65,00	suelo	Fresa
Agrolihere	Valle de San Quintin	Baja Calif. Norte	7.240,00	20,00	suelo	Fresa
Victor Balcazar	Valle de San Quintin	Baja Calif. Norte	6.804,00	15,00	suelo	Fresa
Manuel Sarabia	Valle de San Quintin	Baja Calif. Norte	2.160,00	6,00	suelo	Fresa
Felipe Ruiz	Valle de San Quintin	Baja Calif. Norte	14.400,00	45,00	suelo	Fresa
Rancho San Marcos	Valle de San Quintin	Baja Calif. Norte	23.600,00	60,00	suelo	Fresa
Rancho seco	Valle de San Quintin	Baja Calif. Norte	15.700,00	40,00	suelo	Fresa
Lomas de la Colonia Guerrero	Valle de San Quintin	Baja Calif. Norte	5.245,00	13,00	suelo	Fresa
Santa Monica	Valle de San Quintin	Baja Calif. Norte	4.000,00	10,00	suelo	Fresa
Santa Lucía	Valle de San Quintin	Baja Calif. Norte	7.800,00	20,00	suelo	Fresa
Hermanos Silva	Valle de San Quintin	Baja Calif. Norte	10.000,00	25,00	suelo	Fresa
San Vicente Camalú	Valle de San Quintin	Baja Calif. Norte	56.500,00	140,00	suelo	Fresa
Rancho Los Pinos	Valle de San Quintin	Baja Calif. Norte	2.000,00	4,00	suelo	Pepino
Agrícola San Simón	Valle de San Quintin	Baja Calif. Norte	42.000,00	120,00	suelo	Tomate
Rancho Santa Cruz	Valle de San Quintin	Baja Calif. Norte	26.400,00	80,00	suelo	Chile bell
Rancho Santa Cruz	Valle de San Quintin	Baja Calif. Norte	39.600,00	120,00	suelo	Tomate
Haim Ram	Agrícola ISRAMEX. La Paz	Baja California Sur	4.128,00	13,00	suelo	Chile bell
Victor Rodriguez	Agrícola San Simón, Vizcaino	Baja California Sur	6.532,00	36,00	suelo	Chile bell
Sonya Castañeda	Agrodelicias de la Baja Sur, La Paz	Baja California Sur	22.680,00	100,00	suelo	Chile bell
Conrado Gonzalez	Rancho Don Juanito, Vizcaino	Baja California Sur	6.532,00	36,00	suelo	Chile bell

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	SUPERFICIE FUMIGADA	LUGAR APLICADO	CULTIVO
José Paez	Rancho La Misión, La Paz	Baja California Sur	19.505,00	86,00	Suelo (campo abierto)	Chile bell
José Paez	Rancho La Misión, Vizcaino	Baja California Sur	18.144,00	80,00	suelo (casa sombra)	Chile bell
Andrew y Williamson de México, S. A. De C.V.	Agrícola Baja, Vizcaino	Baja California Sur	12.338,00	68,00	suelo	Fresa
Andrew y Williamson de México, S. A. De C.V.	Agrícola Baja, Vizcaino	Baja California Sur	4.080,00	12,00	suelo	Tomate
Andrew y Williamson de México, S. A. De C.V.	Agrícola Baja, Vizcaino	Baja California Sur	8.500,00	25,00	suelo	Tomate
Sonya Castañeda	Agrodelicias de la Baja Sur, La Paz	Baja California Sur	17.500,00	50,00	suelo	Tomate
Conrado Gonzalez	Rancho Don Juanito, Vizcaino	Baja California Sur	10.800,00	30,00	suelo	Tomate
Conrado Gonzalez	Vizcaino	Baja California Sur	15.680,00	40,00	suelo	Fresa
Manuel Ibarra	Vizcaino	Baja California Sur	31.360,00	80,00	suelo	Fresa
Grupo Misión	Vizcaino	Baja California Sur	22.400,00	70,00	suelo	Tomate
Vitorio Podesta	Rancho El Cardonal, La Paz	Baja California Sur	11.600,00	40,00	suelo	Tomate
José Verduzco	Colima	Colima	5.820,00	30,00	Suelo	Melon
Felipe Michel	Colima	Colima	54.340,00	247,00	Suelo	Melon
Rancho Familia Usabiaga	Celaya	Guanajuato	15.000,00	30,00	suelo	Ajo
Berry Mex	Xocotepec	Jalisco	23.400,00	60,00	suelo	Frambuesa
Berry Mex	Xocotepec	Jalisco	23.902,00	61,00	suelo	Zarzamora
Rancho Calderón	Santa Anita, Tiaquepaque	Jalisco	1.134,00	4,50	(invernadero)	Flores
Floricultores de Jalisco (varios)		Jalisco	1.920,00	12,00	suelo	Flores
Becemex S.A de C.V.	Zamora	Michoacán	10.920,00	28,00	suelo	Frambuesa
Becemex S.A de C.V.	Zamora	Michoacán	23.760,00	66,00	suelo	Fresa
Becemex S.A de C.V.	Zamora	Michoacán	10.530,00	27,00	suelo	Zarzamora
Brisols Berry	Jacona	Michoacán	12.480,00	32,00	suelo	Fresa
Tabacos del Pacifico, S.A. de C.V.	Acaponeta	Nayarit	11.226,00	25,00	Suelo	Tabaco
Tabacos del Pacifico, S.A. de C.V.	Santiago Ixcuincla	Nayarit	9.879,00	22,00	Suelo	Tabaco
Tabacos del Pacifico, S.A. de C.V.	Villa Hidalgo	Nayarit	8.532,00	19,00	Suelo	Tabaco
Fundación Produce S.L.P.	El Estrivo, Mpio. De Naranjo	San Luis Potosi	3.624,00	52,00	suelo	Caña de azúcar
Grupo Industrial Santa Engracia	Laguna del Mante, Cd. Valles	San Luis Potosi	1.820,00	26,00	suelo	Limón
Felix Tames Hernández	Cd. Valles	San Luis Potosi	1.360,00	0,30	Almácigo	Tomate
Gonzalo Espinoza	Agrícola EPSA, La Cruz	Sinaloa	3.742,00	15,00	suelo	Chile bell
Gonzalo Espinoza	La Cruz de Eliota	Sinaloa	10.500,00	30,00	suelo	Tomate
Del Campo y Asociados	Culiacán	Sinaloa	32.000,00	100,00	suelo	Chile bell

PRODUCTOR / EMPRESA	LUGAR	ESTADO	CONSUMO TOTAL Kg	SUPERFICIE FUMIGADA	LUGAR APLICADO	CULTIVO
Escala 2000	Cd. Obregón (Valle del Yaqui)	Sonora	907,20	5,00	Invernadero	Tomate
Agrícola las Cachoras	Cd. Obregón (Valle del Yaqui)	Sonora	907,20	5,00	Invernadero	Tomate
Agrícola Pablos	Cd. Obregón (Valle del Yaqui)	Sonora	907,20	5,00	Invernadero	Tomate
SPR Mar de Cortez	Cd. Obregón (Valle del Yaqui)	Sonora	907,20	5,00	Invernadero	Tomate
Desarrollo Agropecuario San Francisco	Cd. Obregón (Valle del Yaqui)	Sonora	907,20	5,00	Invernadero	Tomate
Agrícola Novobampo	Navojoa	Sonora	907,20	5,00	Invernadero	Tomate
Cuevas G. S.P.R. de R.I	Navojoa	Sonora	907,20	5,00	Invernadero	Tomate
SPR Ceiba de la Cuchilla	Tobarito, Valle del Yaqui	Sonora	907,20	5,00	Invernadero	Tomate
CASOS ESPECIALES:						
Pequeños productores de tomate, chile y pepino de la Región de Rosarito	Rosarito	Baja Calif. Norte	18.000,00		suelo, (a campo abierto e invernadero)	Varios
Asociación de Productores de Flor de Baja California Norte	Ensenada	Baja Calif. Norte	4.500,00	30,00	Invernadero	flor
<b>Total</b>			<b>915.249,60</b>	<b>2.824,80</b>		



## **APPENDIX 2**

### **TABLES:**

- 1. TOTAL CONSUMPTION OF METHYL BROMIDE IN MEXICO 2002**
- 2. QUARANTINE AND PRE-SHIPMENT**
- 3. COMMODITIES FUMIGATIONS**
- 4. SOIL FUMIGATION**
- 5. SOIL FUMIGATION BY STATE AND CULTURES**
- 6. TOTAL CONSUMPTION OF MB BY STATE AND USES**

# TOTAL CONSUMPTION OF METHYL BROMIDE IN MEXICO

2002

Table No.1

SUBJECT	METHYL BROMIDE KG	Ha
QUARANTINE AND PRE-SHIPMENT	719.119,67	
COMMODITIES FUMIGATION	196.481,92	
STRAWBERRY	373.477,00	994,00
TOMATO	178.082,60	547,30
BELL PEPPER	146.223,00	578,00
MELON	60.160,00	277,00
RASPBERRY	45.240,00	116,00
BLACKBERRY	34.432,00	88,00
TOBACCO	29.637,00	66,00
GARLIC	15.000,00	30,00
FLOWERS	7.554,00	46,50
SUGAR CANE	3.624,00	52,00
CUCUMBER	2.000,00	4,00
LEMON	1.833,60	26,00
OTHERS	18.000,00	
<b>TOTAL</b>	<b>1.830.851,19</b>	<b>2824,80</b>

**CONSUMPTION OF METHYL BROMIDE IN MÉXICO**  
**(QUARANTINE AND PRE-SHIPMENT)**  
**2002**

Table No. 2

STATE	TOTAL CONSUMPTION Kg
Baja California Nte.	464,00
Chihuahua	82.857,40
Coahuila	202.800,20
Colima	29.221,17
Michoacán	12.344,00
Sinaloa	149,92
Tamaulipas	310.576,82
Veracruz	68.623,36
Yucatán	12.082,80
<b>TOTAL</b>	<b>719.119,67</b>

## CONSUMPTION OF METHYL BROMIDE IN MÉXICO

(Commodities fumigation)

2002

Table No. 3

STATE	TOTAL CONSUMPTION Kg
Baja California Sur	2.037,90
Coahuila	2.075,40
Nuevo León	7.348,36
San Luis Potosi	887,86
Sinaloa	69.517,90
Sonora	43.858,60
Tamaulipas	70.732,12
Veracruz	23,78
TOTAL	196.481,92

**CONSUMPTION OF METHYL BROMIDE IN MEXICO  
BY STATE, SOIL FUMIGATION  
2002**

Table No. 4

STATE	CONSUMPTION Kg	Ha.
Aguascalientes	1.050,00	3,00
Baja Calif. Norte	429.274,00	1.129,00
Baja California Sur	211.779,00	766,00
Colima	60.160,00	277,00
Guanajuato	15.000,00	30,00
Jalisco	50.356,00	137,50
Michoacán	57.690,00	153,00
Nayarit	29.637,00	66,00
San Luis Potosí	6.804,00	78,30
Sinaloa	46.242,00	145,00
Sonora	7.257,60	40,00
<b>TOTAL</b>	<b>915.249,60</b>	<b>2.824,80</b>



## TOTAL CONSUMPTION OF METHYL BROMIDE IN MEXICO

(By State, Quarantine and pre-shipment, commodities fumigation, structural fumigation and soil fumigation)  
2002

Table No. 6

ESTADO	QUARANTINE AND PRE-SHIPMENT	COMMODITIES FUMIGATION	SOIL FUMIGATION	TOTAL Kg
Aguascalientes			1.050,00	1.050,00
Baja California Nie.	464,00		429.274,00	429.738,00
Baja California Sur		2.037,90	211.779,00	213.816,90
Chihuahua	82.857,40			82.857,40
Coahuila	202.800,20	2.075,40		204.875,60
Colima	29.221,17		60.160,00	89.381,17
Guanajuato			15.000,00	15.000,00
Jalisco			50.356,00	50.356,00
Michoacán	12.344,00		57.690,00	70.034,00
Nayarit			29.637,00	29.637,00
Nuevo León		7.348,36		7.348,36
San Luis Potosí		887,86	6.804,00	7.691,86
Sinaloa	149,92	69.517,90	46.242,00	115.909,82
Sonora		43.858,60	7.257,60	51.116,20
Tamaulipas	310.576,82	70.732,12		381.308,94
Veracruz	68.623,36	23,78		68.647,14
Yucatán	12.082,80			12.082,80
<b>TOTAL</b>	<b>719.119,67</b>	<b>196.481,92</b>	<b>915.249,60</b>	<b>1.830.851,19</b>

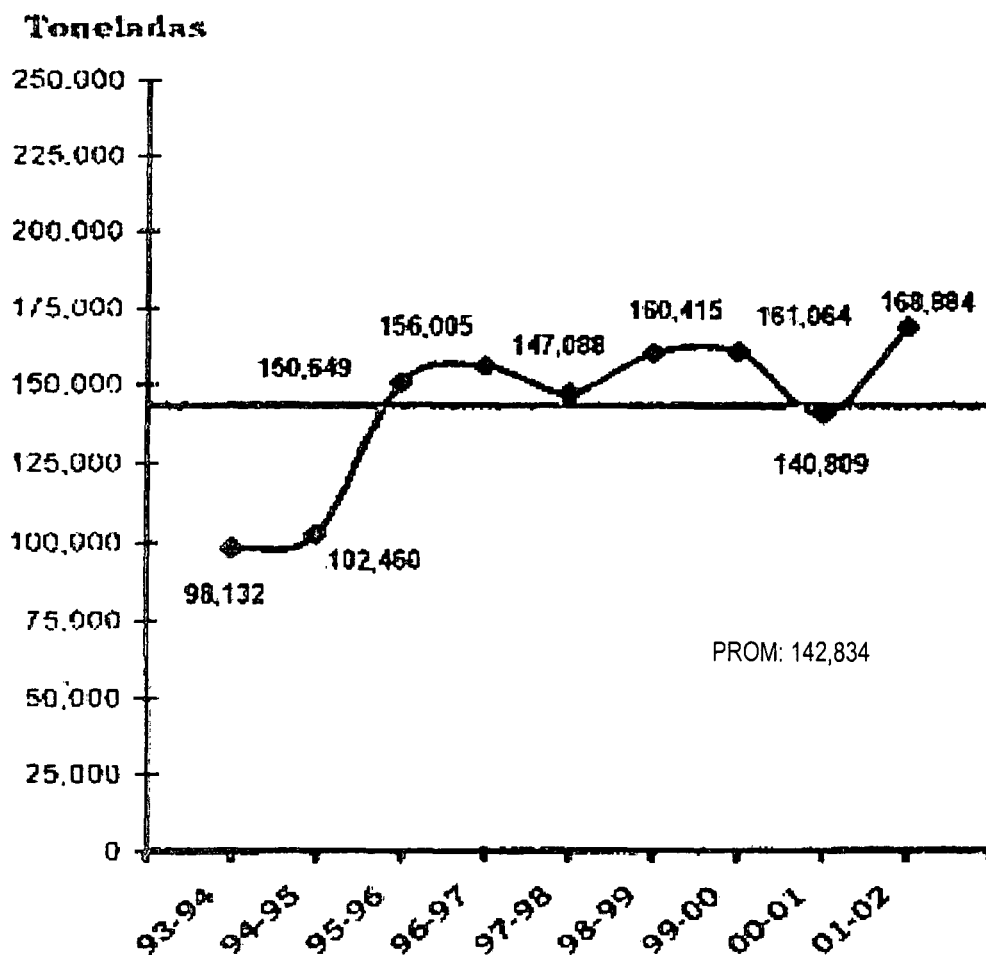
**APPENDIX 3**

**GRAPHS OF EXPORT OF VEGETABLES**



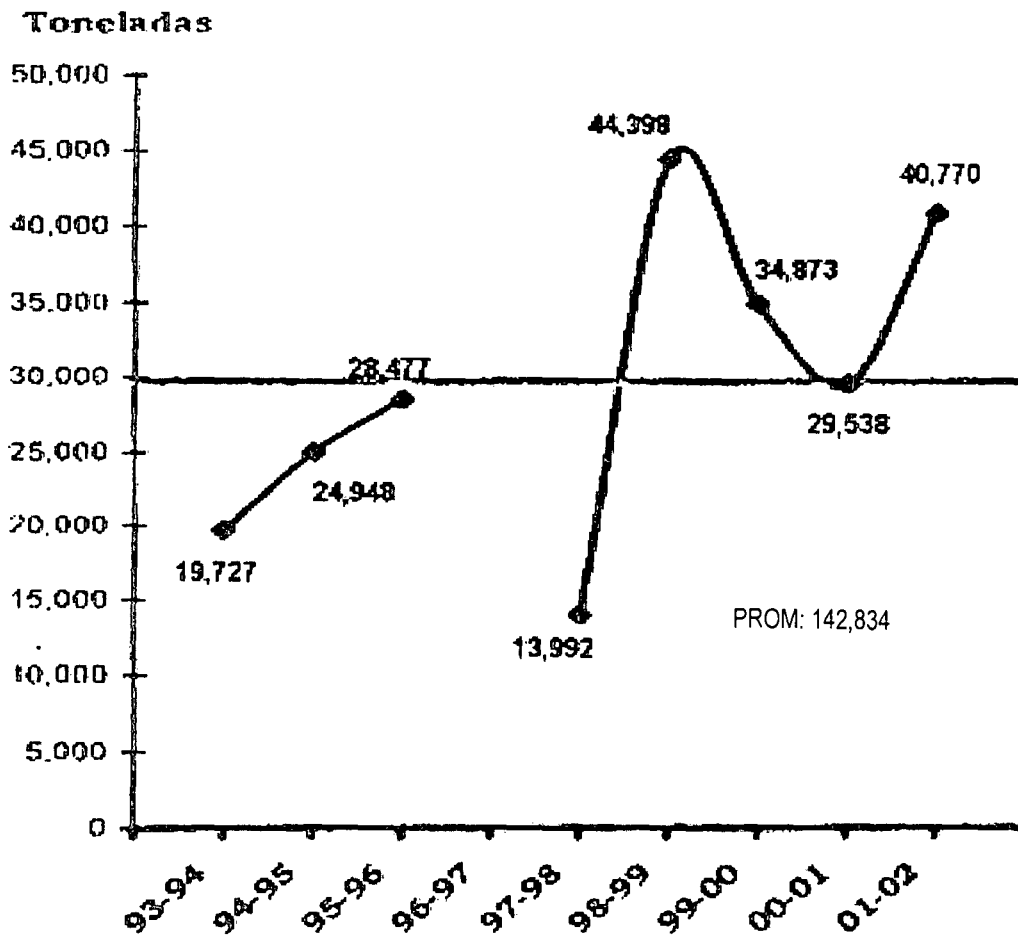
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COMPARATIVO DE EXPORTACIONES  
PERIODO DE 1993-94 A 2001-02

CHILE BELL



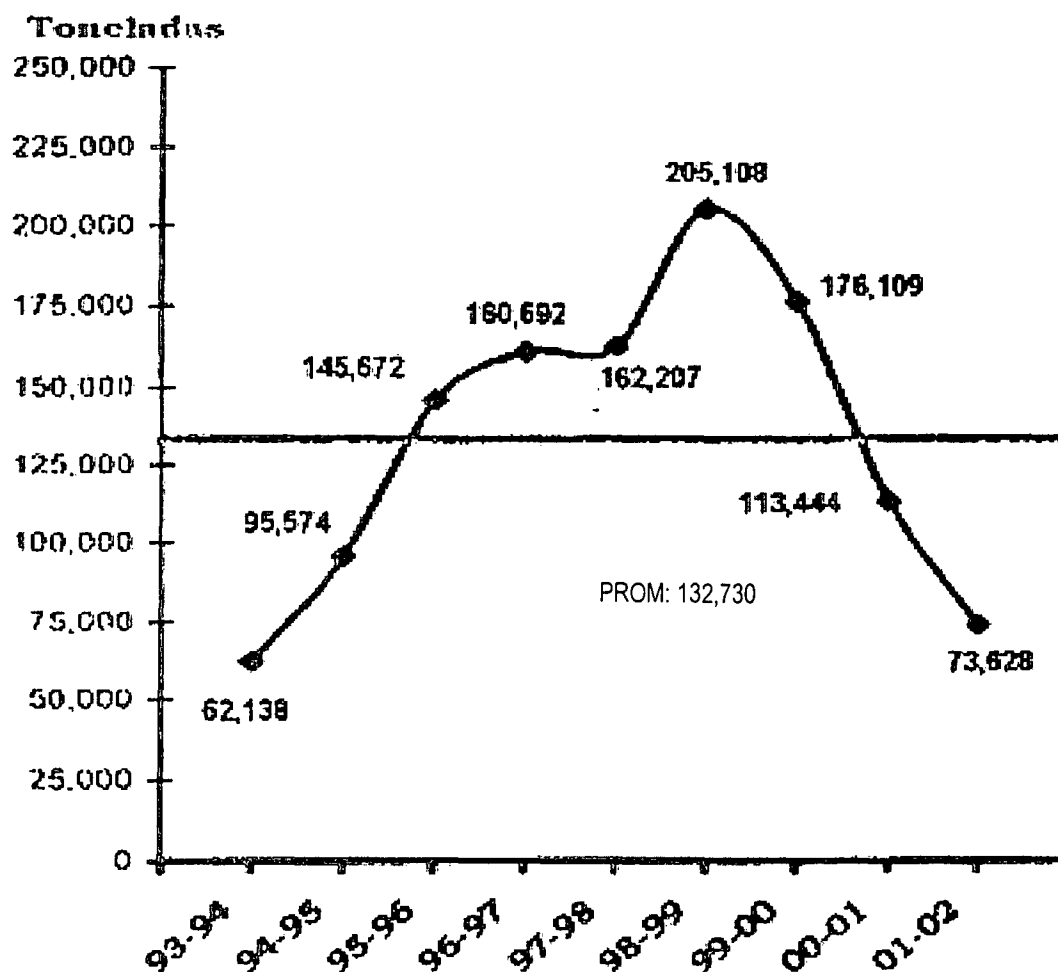
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STRAWBERRY



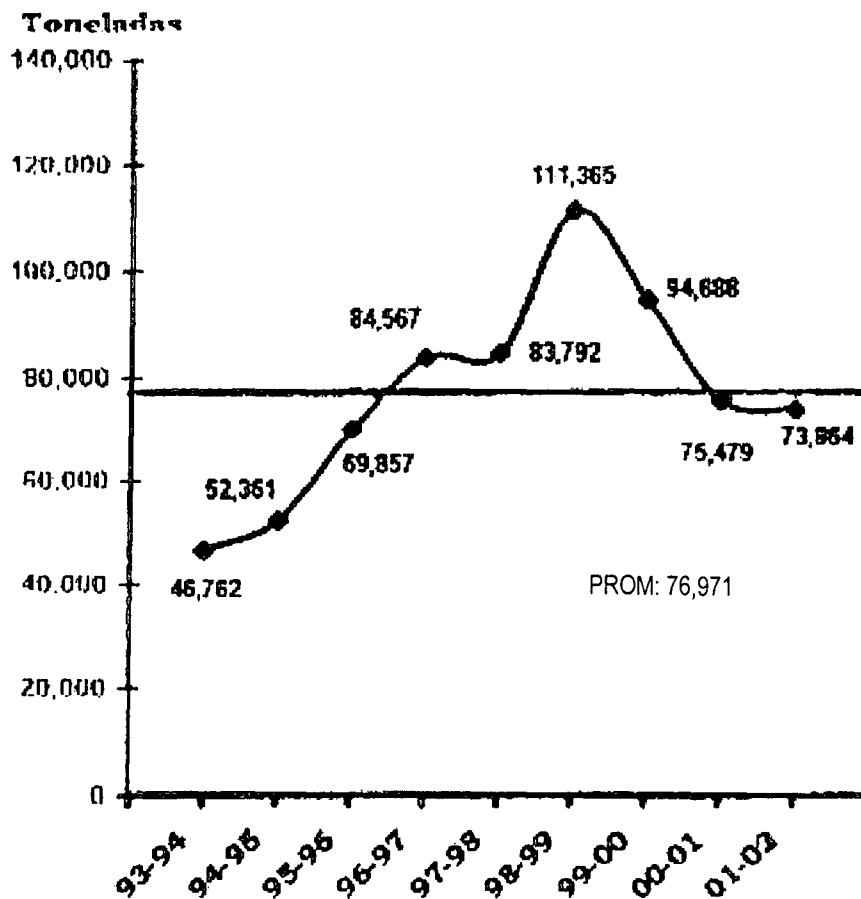
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COMPARATIVO DE EXPORTACIONES  
PERIODO DE 1993-94 A 2001-02

MELON CANTALOUPE



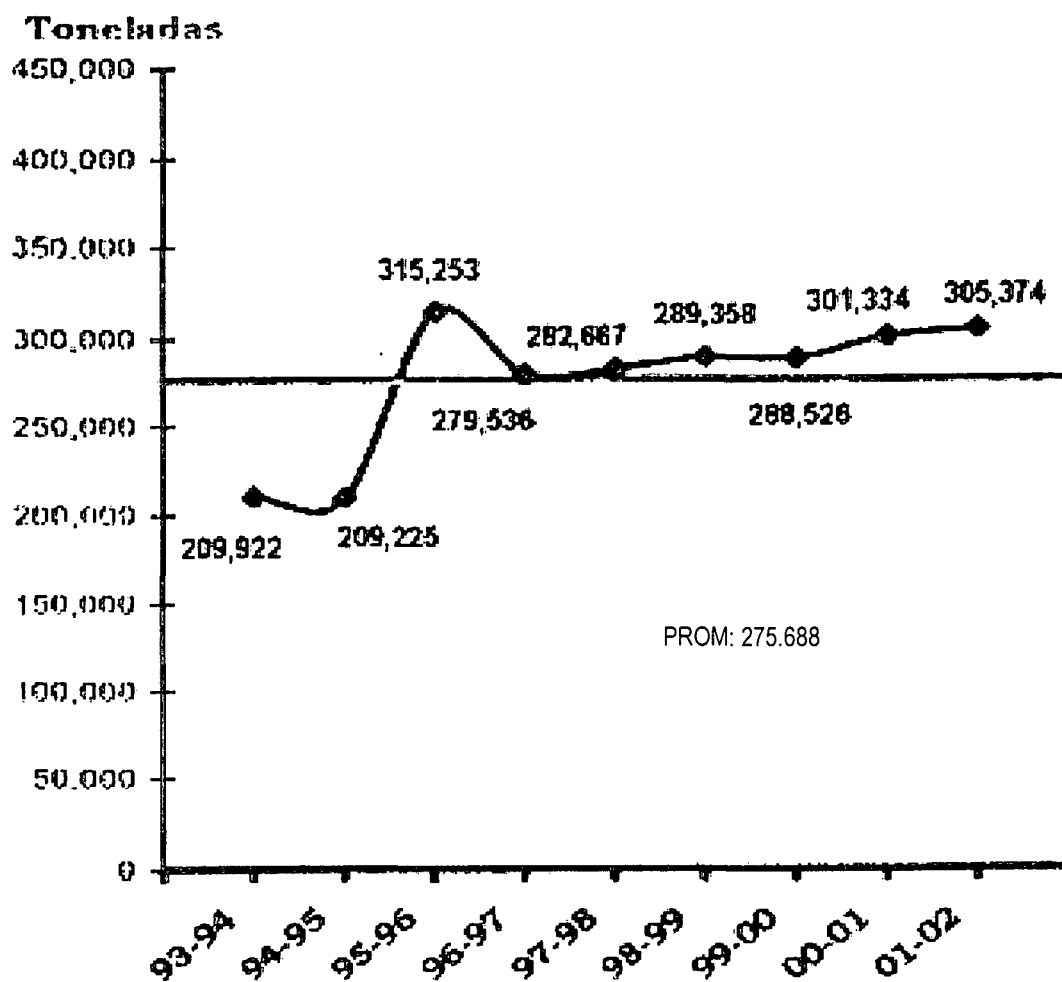
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PERIODO DE 1993-94 A 2001-02

MELON HONEY DEW



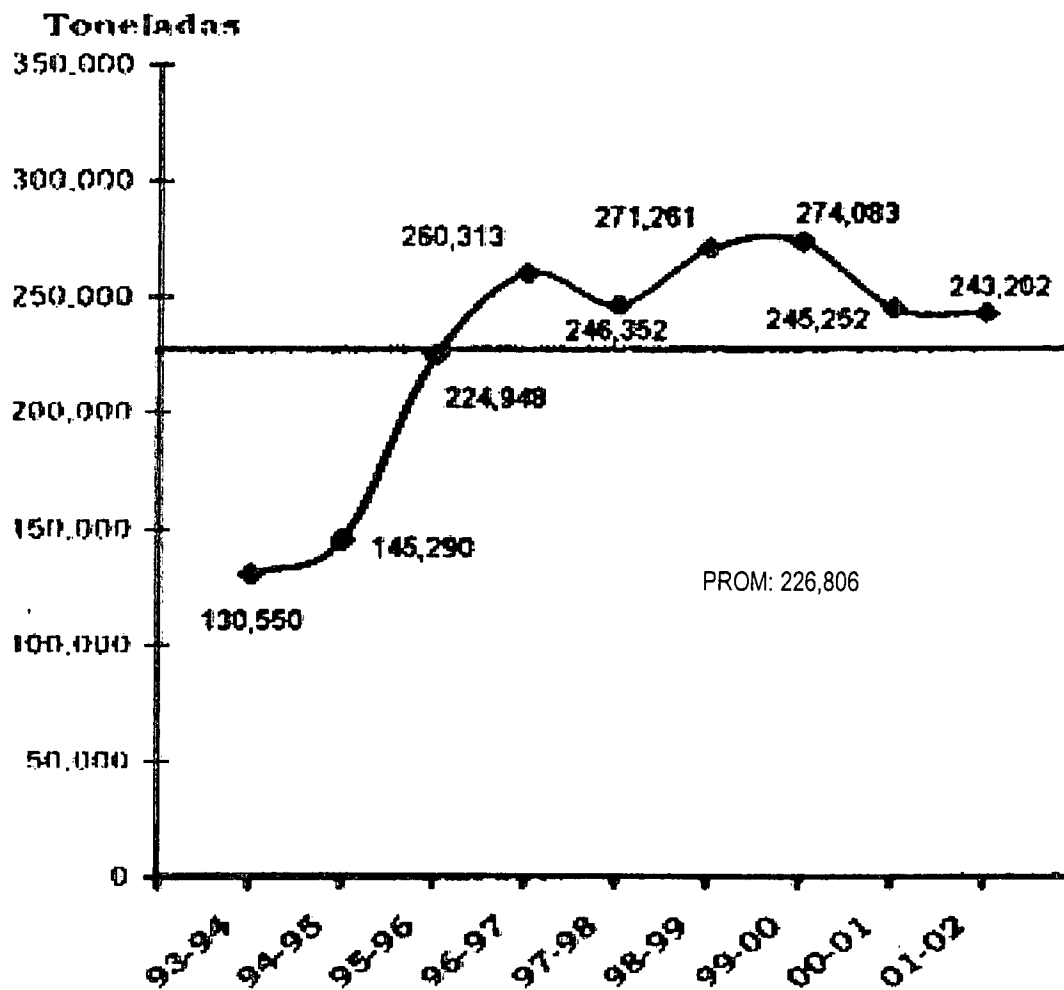
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PERIODO DE 1993-94 A 2001-02

CUCUMBER



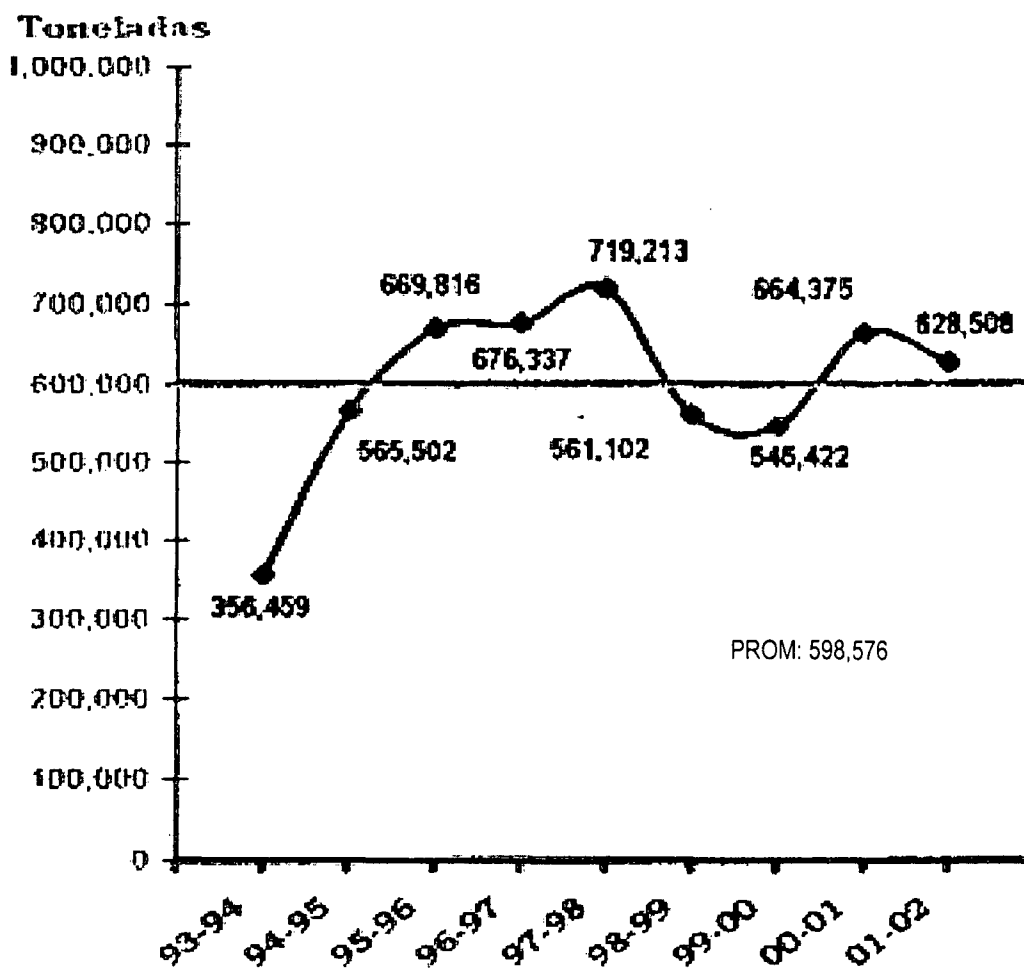
CONFEDERACION MEXICANA DE PRODUCTORES DE HORTALIZAS  
COMPARATIVO DE EXPORTACIONES  
PERIODO DE 1993-94 A 2001-02

WATERMELON



CONFEDERACION MEXICANA DE PRODUCTORES DE HORTALIZAS  
COMPARATIVO DE EXPORTACIONES  
PERIODO DE 1993-94 A 2001-02

TOMATO



## **APPENDIX 4**

### **DIRECTORY OF AGRICULTURISTS AND HORTICULTURISTS**

#### **BAJA CALIFORNIA:**

- 1) REGIONAL AGRICULTURAL UNION OF PRODUCERS  
OF VEGETABLES OF THE MEXICALI VALLEY**

#### **SINALOA:**

- 1) ASSOCIATION OF AGRICULTURISTS OF RIO  
CULIACAN**
- 2) ASSOCIATION OF AGRICULTURISTS OF RIO  
SINALOA, PONIENTE**
- 3) ASSOCIATION OF AGRICULTURISTS OF RIO  
FUERTE SUR**

#### **SONORA :**

- 1) DIRECTORY OF PRODUCERS OF TABLE GRAPE**

#### **MICHOACAN Y GUERRERO:**

- 1) DIRECTORY OF PRODUCERS OF MELON**

#### **MEXICO:**

- 1) DIRECTORY OF PRODUCERS OF FLOWERS**

#### **JALISCO:**

- 1) DIRECTORY OF HORTICULTURIST**

#### **COLIMA:**

- 1) DIRECTORY OF HORTICULTURIST**



**DIRECTORIO DE HORTICULTORES DEL ESTADO DE  
BAJA CALIFORNIA**

**UNION AGRICOLA REGIONAL DE PRODUCTORES DE HORTALIZAS  
DEL VALLE DE MEXICALI, B.C.  
DIRECTORIO DE SOCIOS EXPORTADORES- VIGENCIA 2002-2003**

NOMBRE	DOMICILIO	TEL.	FAX
AGRICOLA LA GRANA, S. DE R. L. DE C. V. LIC. HERIBERTO VILLASEÑOR H.	EJ. VERACRUZ No.2 DOM. CONOCIDO MEXICALI, B. C. C. P. 21720	01-658-51-6-90-88	01-658-51-6-90-80
AGRICOLA LAS MONTAÑAS, S. DE R. L. DE C. V. C. P. ALEJANDRO CORONA	AV. REFORMA Y CALLE F #1401-2, COL. NUEVA MEXICALI, B.C. CP. 21100	5-52-30-54	5-52-30-51
AGRICOLA NUEVA ERA S.A. DE C. V. ING. JAVIER NAVARRO PULIDO	CARRETERA SAN LUIS-EJ. TOLUCA KM.27, EJIDO MEZQUITAL MEXICALI, B.C. C.P. 21840	01-653-53-4-32-27	01-653-53-4-51-85
AGRICOLA QUINTANA, S. DE R. L. DE C. V. SRA. CARMEN QUINTANA	BLVD. DE LAS AMERICAS #483-1 COL. CUAUHTEMOC NTE. MEXICALI, B.C. CP. 21200	5-65-23-44	5-65-23-44
AGRO ALTIMA, S.A. DE C. V. LIC. EZEQUIEL VIVEROS AREVALO	KM. 14.5 CARRET. A SAN LUIS GONZALEZ ORTEGA, MEXICALI, B. C. CP. 21397	5-61-02-33	5-62-76-15
AGROINDUSTRIA DEL SOL, S. DE P. R. DE R. L. SR. GREGORIO KODAMA	AV. ROMULO O'FARRIL #971 CENTRO CIVICO MEXICALI, B.C. C.P. 21100	5-56-90-43	5-56-90-43

BAJA AJO, S. DE R.L. DE C.V. SR. JOSE JUAN DOJAQUEZ MARTINEZ	LOTE AGRÍCOLA NO. 17 INT. 1 COL. ELIAS, GPE. VICTORIA VALLE DE MEXICALI, C.P. 21800	01658-51-62125	01658-51-62125
COMPañIA AGRICOLA OMEGA, S. DE R. L. DE C. V. ING. ERNESTO MORENO	CARR. MEXICALI- SAN LUIS KM. 17.5 EJIDO PUEBLA, VALLE DE MEXICALI	01-658-51-6-90-97 6-90-99	01-658-51-6-90-97
EMPRESA SAHARA, S. A. DE C. V. SR. MANUEL HERNANDEZ	KM.3 CARRET. SAN LUIS- MEXICALI COL. MIGUEL ALEMAN MEXICALI, B. C.	01-653- 5 34-08-18	01-653-5-34-08-08
ESTRELLA NUEVA, S. DE R. L. DE C. V. C. P. ALONSO LAZARIN	HONDURAS Y JUSTO SIERRA #377, LOCAL 22, CC. LA PLAZITA MEXICALI, B. C. CP. 21200	5-68-12-71	5-68-12-83
HORTALIZAS BELTRÁN, S. DE R. L. DE C. V. SR. EFREN BELTRÁN	JOSE MARIA MICHELENA #423,COL. MAGISTERIAL MEXICALI, B. C. CP. 21290	5-66-23-68	5-66-87-78
HORTICOLA SAN PEDRO, S. DE R. L. DE C. V. SR. ALEJANDRO ELIAS S.	KM. 14,5 CARRETERA A SAN LUIS GONZALEZ ORTEGA MEXICALI, B. C. CP. 21397	5-61-01-33 5-61-03-00 61-04-78	5-61-11-02
PRODUCTORES AGRICOLAS DE MEXICALI, S. DE R. L. DE C. V. SR. PEDRO PALMERIN A.	AV. ZARAGOZA Y CALLE E #1298, COL. NUEVA MEXICALI, B. C. C.P.21100	5-54-19-75	5-54-19-75
PROMOTORA AGRICOLA EL TORO, S.A. DE C. V. ING. MARIO MARTINEZ HAROZ	JUAN ALDAMA #300-A CIUDAD MORELOS VALLE DE MEXICALI	01-658-51-4-70-12	01-658-51-4-73-18

RANCHO EL GOLFO, S.A. DE C. V. SR. CALVIN K. MASON	CALLE VENUS No.33 ESQ. ARGENTINA FRAC. HIPICO C. P. 21219	5-67-86-02	5-66-63-88
RANCHO SAN PABLO C. FRANCISCA LOPEZ SANCHEZ	BLVD. BENITO JUAREZ #3420-1 COL. SANCHEZ TABOADA MEXICALI, B. C. C. P. 21360	5-61-69-60 5-61-68-96	5-61-97-52
SOLORIO GARCILAZO JOSE OTILIO	DOMICILIO CONOCIDO EJIDO MICHOACÁN DE OCAMPO VALLE DE MEXICALI	522-40-20	522-40-20
VEGETALES DEL DESIERTO, S. A. DE C. V. SR. HECTOR SADA	BLVD. LAZARO CARDENAS #1590 EX EJIDO ZACATECAS MEXICALI, B.C. C.P. 21370	5-61-85-06	5-61-95-86

**HORTICULTORES DEL ESTADO DE SINALOA  
COMPRENDE TRES ASOCIACIONES:**

**ASOCIACION DE AGRICULTORES DEL RIO CULIACAN, A.C.**

**ASOCIACION DEL RIO SINALOA PONIENTE**

**ASOCIACION DE AGRICULTORES DEL RIO FUERTE SUR**

**RELACION DE GRUPOS LEGUMBREROS SOCIOS DE LA AARC DEL RIO CULIACAN, A. C.  
TEMPORADA HORTICOLA 2002-2003**

CLAVE	GRUPO LEGUMBRERO	DIRECCION Y TEL. (OFICINA)	NOMBRE, UBICACIÓN Y TEL. EMPAQUE
1	PROM AGROINDUSTRIAL DEL TAMAZULA (ING. ENRIQUE RODARTE SALAZAR)	3RA. CERRADA DE MERIDA #1323 COL. LAS QUINTAS TELS. 715-51-92 715-52-12 Y FAX 715-57-02	
2	CAMPO SAN NIKOS, SA DE CV (JORGE STAMATOPULOS RODRIGUEZ)	JUAN JOSE RIOS No. 366 PTE. COL. ALMADA CULIACAN, SIN. TELS 713-84-93 Y FAX 716-06-99 D	"ESTRELLA" CANAL 10 KM 1. CARR. LA 20 TEL (672) 8-51-28
3	AGROGORE HORTICOLA, SA DE CV (L.A.E. MARIANO GOMEZ AGUIRRE) REPRESENTANTE	DOMINGO RUBI No. 117 NTE. COL. CENTRO CULIACAN, SIN. TEL. Y FAX 717-59-55 Y 718-05-01	"SILVIA" KM. 3.5 CARRETERA LA 20, COSTA RICA SIN.
4	VALORES HORTICOLAS DEL PACIFIC SA DE CV (IOANIS STABROPULOS ESCOBOSA) REPRESENTANTE	CARRT. NAVOLATO KM. 13 TEL 710-04-01 710-04-04	"MOROLEON" CARRT. NAVOLATO KM. 13
5	S.P.R. DE R.L. EL NAZARIO DE R. L. (JOSE M. FRAUSTO NAVARRO) CEL 11-72-73	GPE. VICTORIA NO. 227 SUR TELS. 713-04-21 Y FAX. 716-58-80	"EL NAZARIO" KM. 40 CARRT. INTERNACIONAL AL NTE
6	ADMORA. HORTICOLA DEL TAMAZULA ( SRES. CANELOS )	KM. 0.600 CARRT. CUL-ELDORADO TELS 760-28-07 FAX 760-28-18	"VICTORIA" CRUCE CARRETERAS LA 12 Y LA 50
7	DANIEL CARDENAS CEVALLOS	ALVARO OBREGON No. 1379 SUR TELS. 713-12-57 Y 713-02-33 FAX. 715-23-72 D	"EL PORVENIR" CANAL 10 BATAOTO TEL (672) 8-53-12 8-53-94 Y FAX 8-51-59
8	EXPORTALIZAS MEXICANAS SA DE CV (SR. RENE CARRILLO CARAZA	KM. 5 CARRETERA A ELDORADO TELS. 760-24-97 760-25-01 760-25-81 FAX. 760-26-25 D	"PATRICIA" KM. 24 CARRETERA A ELDORADO TELS 717-41-30 Y FAX 749-22-26
9	SAN RAFAEL AGRICULTORES SA DE CV (LIC. ADOLFO CLOUTHIER MONTOYA)	KM. 16 CARRETERA A ELDORADO TELS. 846-10-05 Y 846-10-06 FAX. 846-10-07	"SAN RAFAEL" KM. 16 CARRETERA A ELDORADO
10	AGRIC. TODO EN TEMPORADA SRL DE CV REPRESENTANTE: NAM UT HUYNH	KM. 45 CARRT CULIACAN-ELDORADO TEL. 01-66-77-28-16-72 FAX 8-16-11	" AGRICOLA BUEN AÑO " KM. 45 CARRET CULIACAN-ELDORADO
11	ING. THEOJARY CRISANTES ENCISO	AUTOPISTA BENITO JUAREZ KM 9.5 TELS 760-29-81 Y 760-56-56 FAX 760-53-46 D	"SANTA FE" KM. 7.5 CARRETERA A NAVOLATO TEL. 760-00-08
12	AGRICOLA CHAJOMA (SR. ANGEL DEMERUTIS ELIZARRARAS)	CARRETERA LA 50 BATAOTO TEL Y FAX 717-60-60	"PENJAMO" CARRETERA LA 50 BATAOTO
13	DEMETRIO CRISANTES ENCISO	KM. 3.0 CARRETERA A NAVOLATO TEL Y FAX 760-00-20	"INVERNADEROS SANTA FE" KM. 7.5 CARRETERA A NAVOLATO
14	AGRICOLA Y GANADERA DE CULIACAN ( ELSA DINORAH SULIVAN )	KM. 3.5 CARRETERA LA 20 TEL Y FAX 717-59-55 Y 718-05-01	"ANDREA" KM. 3.5 CARRETERA LA 20
15	AGROPRODUCTOS Y SEMILLAS LAGUNA SR. VICTOR ESPINOZA AVILA	GUADALUPE VICTORIA No. 40 SUR TEL. 715-15-73 CASA NO TIENE FAX	"LAGUNA" KM. 23 CARRETERA A ELDORADO
17	LIC. FLORENTINO ESQUERRA DELGADO	CONSTITUCION No. 143-3 PTE. TELS 716-88-30 Y FAX 716-82-15	"SAN JOAQUIN" KM. 30 CARRETERA A ELDORADO
18	JOSE C. DE SARACHO CALDERON	KM. 12.5 CARRETER A ELDORADO TEL. Y FAX 760-54-08	"CHULA VISTA" KM. 12.5 CARRETERA A ELDORADO
19	AGRICOLA BELTRAN SA DE CV (SR. ANGEL ANTONIO BELTRAN SAUCEDA)	HIDALGO No. 739 PTE. TEL 712-85-05 Y FAX 717-14-60	"BELTRAN HERMANOS" VILLA A. FLORES TEL 01-672-72-2-03-80
20	AGRICOLA OPESA SA DE CV (SR. BASILIO GATZIONIS TORRES)	CAMPO ARBACO COSTA RICA TELS. 749-22-31 Y 32 FAX 749-22-29	"ARBACO" COSTA RICA, SIN

21	AGRICOLA ANNIA SA DE CV MANUEL URANGA GONZALEZ	CALZADA AEROPUERTO #7356 COL BACHIGUALATO TEL Fax 760-20-28	"EL VERGEL " KM. 12.5 CARRT LIMONCITO-ALTATA
23	AGRICOLA GOTSIS SA DE CV (SRES. JORGE Y ROBERTO GOTSIS RICO)	KM. 3.4 CARRETERA LA 20 TELS 714-34-38 717-10-20 FAXS. 760-54-67 Y 760-54-68 EXT 112	"NICK GOTSIS" KM. 3.5 CARRETERA LA 20 760-58-15, 18 Y 19
24	AGRICOLA TABALOPA SA DE CV (SRES. MIGUEL Y MANUEL TARRIBA U.)	KM. 32 CARRETERA A ELDORADO TEL Y FAX CEL 044-66-77 11-61-01	"EUREKA" KM. 32 CARRETERA A ELDORADO
26	NUEVA YAMAL S. A. DE C. V. (SR. LUIS FELICIMO HERNANDEZ ACEDO)	COLON No. 58 OTE. 2DO. PISO TELS 716-78-50 716-36-21	"DEL VALLE" KM. 29.5 CARRETERA A ELDORADO
28	JOSE ABRAHAM LICHTER SALIDO	EPITACIO OSUNA No. 1202 PTE. TELS. 714-19-37 714-19-44 714-87-50 Y FAX 714-87-00 D	"LA FLOR" KM. 4.5 CARRETERA LA 20 TEL CEL. 044-66-77 20-58-19
	SR. THEODORO GLAROS XINGUI	KM. 3.3 CARRETERA LA 20 TEL. 760-54-71 Y FAX 760-54-70	"LOS LAURELES" KM. 3.3 CARRETERA LA 20
30	INDUSTRIAL HORTICOLA DE MEXICO (SR. ROBERTO ORTIZ HERNANDEZ)	KM. 6 CARRETERA A NAVOLATO TELS. 760-25-65 Y FAX 760-24-94	"EL GATO" KM. 28 CARRETER A ELDORADO
31	AGRICOLA PRISA SA DE CV (SR. VITTORIO PODESTA RIVAS)	BENITO JUAREZ No. 611 PTE. TEL Y FAX 716-81-98	"PODESTA" KM. 3 CARRETERA LA 20 TEL 8-54-84
32	SR. ARNOLDO GODOY SALAZAR	BLVD. ZAPATA # 2390 PTE. COL. VALLADO TEL Y FAX 717-86-90	
33	AGROEXPORTADORA DEL NOROESTE SA CV (SR. JOSE MARIA PABLOS GONZALEZ)	VILLA ANGEL FLORES TEL 717-08-66 Y Fax 01-672-72-2-01-60	"PABLOS" VILLA ANGEL FLORES TEL 717-08-67
34	AGRICOLA DEL SUR K SA DE CV (SR. JUAN KASTIS PERU)	ALVARO OBREGON No. 1155 TEL Y FAX 713-45-15 Y 715-55-40	"SAN JUAN" KM. 58 SUR CARRT INTERNACIONAL
35	SR EDUARDO RITZ ITURRIOS	JUAN CARRASCO No. 689 NTE. TELS 715-35-50 Y 715-35-60 FAX 713-69-00 D	"SACRIFICIO" KM. 18.5 CARRETERA LA 50 TELS 714-04-45 Y 717-38-18
36	SR. ERNESTO PADILLA URTUSUASTEGUI	KM. 5.5 CARRETERA A NAVOLATO TEL Y FAX 714-10-10 714-11-25	KM. 24 CARRETERA LA 50
37	AGRICOLA SAN ISIDRO DE CULIACAN SPR (ING. EDUARDO LEYSON CASTRO)	KM. 12.5 CARRETERA LA 20 TEL 717-29-84, FAX 01-672-72-37-15 D	"SAN ISIDRO" KM. 12.5 CARRETERA LA 20
39	AGRICOLA CHAPARRAL, S. P. R. DE R. L. (SR. JOSE MARIA GALLARDO)	KM. 8 CARRETERA A ELDORADO TEL 760-50-05 Y FAX 760-51-55	"CHAPARRAL" KM. 8 CARR. ELDORADO TEL 760-50-02
40	SR. MIGUEL ANGEL RAMOS RETAMOZA	ANTONIO ROSALES No. 856 OTE TEL Y FAX 716-43-53	"BELLA VISTA" VILLA JUAREZ
41	PRODUCTORA AGRIC LAS TRANCAS SA CV ( SEÑORES CANELOS )	KM. 0.600 CARRT CUL-ELDORADO TEL7 60-28-32	" VICTORIA " KM 0.600 CARR CULIACAN-ELDORADO
42	MELONES INTERNACIONAL SA DE CV	KM. 0.600 CARRT CUL-ELDORADO TEL. 760-27-56	" SANTA CECILIA " KM. 0.600 CARR CULIACAN-ELDORADO
43	AGRICOLA PAREDES SA DE CV (SR. SERGIO F. PAREDES VERDUGO)	KM. 0.4 CARRETERA A ELDORADO TELS 760-35-40 760-35- 50 760-35-60 FAX 760-35-70 D	"PAREDES" KM. 33 CARRETERA A ELDORADO TELS. 717-17-60 Y 717-06-27
45	SR. ARMANDO PADILLA ALVARADO	BODEGA 27 MODULO "O" TEL 718-26-13 Y FAX 718-23-42	"EL TAPATIO" SAN PEDRO SINALOA
47	SERG AGRICOLA (ING. SEVERO GUTIERREZ BELTRAN)	CARRETERA LA 20 MARGEN DERECHA TEL 749-27-77 Y FAX 749-28-88	EMPAQUE "SAN ROBERTO" PREDIO BATAOTO

48	ING. JORGE KONDO LOPEZ	MIGUEL HIDALGO No. 760 PTE. TELS 716-12-93 716-28-29 FAX 716-06-09 D	"DON CANDIDO" KM. 16 CARR. A VILLA ANGEL FLORES
49	AGRICOLA SAN EMILIO SA DE CV TAMBIEN ES FAX 7-42-13	KM. 27 CARRETERA A VITARUTO TEL 717-50-70 FAX 716-38-00	"SAN EMILIO" VILLA A. LOPEZ MATEOS
50	SR. HERIBERTO VLAMINCK SEIDEL	CALLE 2DA. BODEGA 9 MODULO "N" TELS 718-23-04 Y FAX 718-23-31 D	"ABASTOS" MECADO DE ABASTOS
51	SR. ERNESTO URTUSUASTEGUI ALCARAZ	AGUILES SERDAN No. 540 NTE. Tels 712-92-57 713-42-13 FAX 715-36-91 D	"PIA" KM. 23 CARRETERA LA 50 CELULAR 044-66-77-68-81-19
52	AGRICOLA SINALOA, SA DE CV (SR. ALVARO BRITO FLORES)	KM. 45 CARRETERA A ELDORADO TELS 717-98-05 Y FAX 714-17-63 D	"EL CHAPO" KM. 45 CARRETERA A ELDORADO
53	AGROBIONOVA SA DE CV (C. P. ALFREDO PACHECO GARZA)	KM. 9 CARRETERA A ELDORADO TELS 760.50.01 760-50-02 FAX 760-52-18 D	"LA PEQUEÑA JOYA" M. 9 CARRETER A ELDORDO TELS 760-51-52 Y 760-51-71
54	AGRICOLA SANTA AURORA SA DE CV MA. CRISTINA PALMA BELTRAN REPRESENTANTE	RAFAEL BUELNA Y OBREGON TEL Y FAX 760-56-26 Y 760-56-58	" SANTA AURORA " KM. 9.5 CARRETERA A ELDORADO TEL. 760-56-26
55	GRANJA DE FACIL TRIUNFO, S.A. DE C.V. SR. WAI MING KWOK REPRESENTANTE	PREDIO BATAOTO CANAL 10 A 5 KM. TELS CEL 63-74-84 FAX 71229-24	DE LA INTERSECCION CON LA CARR. LA 20, NAVOLATO, SIN.
57	AGRICOLA LA PRIMAVERA, S. A. DE C. V. (ARQ. EDUARDO DE LA VEGA ECHAVARRIA) SRA ROSALBA MENDOZA DE SAINZ GTE VTAS	JUAN JOSE RIOS No. 711 PTE. TELS 715-38-40 Y 715-38-41 715-38-42 Y FAX 715-38-51 D	"VERONICA" NAVOLATO SINALOA TEL 01-672-72 7-18-84
59	VEGETALES Y GRANOS SANTA MARTHA (SR. JOSE GASPAR ESPINOZA LUGO)	CALZADA AEROPUERTO #5750 COL. BACHIGUALATO TEL 760-14-54 NO SIRVE	"ESPINOZA LUGO" CONOCIDO ESTACION OBISPO
60	DEL CAMPO Y ASOCIADOS SA DE CV (SR. DIEGO LEY LOPEZ)	KM. 12.5 CARRETERA A NAVOLATO TELS 710-00-49 710-01-42 710-04-49 Y FAX 710-00-18 D	"BATAN" KM. 12.5 CARRETERA A NAVOLATO TEL 710-03-86
62	AGRICOLA LA GUAJIRA SA DE CV ( L.C.P. GUILLERMO MENDOZA BURGOS )	KM. 5.3 CARRETERA LA 20 TEL 044-66-77-11-68-05	" LA GUAJIRA " KM. 5.3 CARRETERA LA 20
65	SR. MANUEL ZAZUETA CANELOS	RODOLFO G. ROBLES No. 407 SUR TELS 713-17-57 716-47-29 FAX 715-56-32 D	"PERRAS PINTAS" KN. 27.5 CARRETERA A ELDORADO TEL. 717-68-28
66	AGRICOLA EL PONY SA DE CV (SR. JESUS MASAO CASTRO)	KM 18.5 CARRT. INTERNACIONAL NTE. TEL 761-01-70 Y FAX 761-01-71	"EL PONY" KM. 2, LAT 27, V.A.L.M. (TAMARINDO) TEL. (672) 1-04-01 Y FAX 1-04-00
67	AGRICOLA PARALELO 38 (LIC. DRAJA GERMAN CRUZ DEL RINCON) REPRESENTANTE	OBREGON Y ROSALES 2DO.PISO EDIF. CLOUTHIER TELS 716-58-00 716-58-01 Y FAX 716-32-34 D	"PARALELO 38" CALLE 12 CRUCE CANAL 10 TEL 714-34-44
68	AGRICOLA DEL PIAXTLA SA DE CV (LIC. DRAJA GERMAN CRUZ DEL RINCON) REPRESENTANTE	OBREGON Y ROSALES 2DO PISO EDIF. CLOUTHIER TELS. 716-58-00 716-58-01 Y FAX 716-32-34	" PARALELO 38 " CRUCE CARRT. LA 12 Y CANAL 10 TEL. 714-34-44
69	JOVA PRODUCE, SA DE CV (ING. CANUTO REY VALENZUELA PARRA)	EL LIMON DE LOS RAMOS TELS 717-07-47 Fax 01-66-77-24-01-04	"JOMARVI" EL LIMON DE LOS RAMOS TEL 717-07-57
71	AGRICOLA EJAM SA DE CV (SR. EDUARDO RITZ HABERMANN)	RAFAEL BUELNA No. 138 PTE. TELS 716-82-82	"SANTA JULIA" KM 24 CARR ELDORADO TEL 717-78-00
74	AGRICOLA BELHER (ING. ROSARIO ANTONIO BELTRAN U.)	AV. DEFENSA NACIONAL No. 62 NTE. VILLA ANGEL FLORES TELS 01-672-72 2-00-91 Y FAX 2-03-20	"DON MEMO" SANTA FE NAVOLATO SIN
75	SR. JUAN RAMON OCHOA CAMACHO	DR. MORA No. 1283 COL. LAS QUINTAS	"MARISOL"



		TEL Y FAX 713-28-50	KM. 39 CARR INTERNACIONAL AL NTE
76	AGRICOLA 2 CORONAS (SR. MARIO ESPINOZA LUGO)	RIO SENA No. 3085 LOMAS DEL BLVD. TELS 714-16-94 Y FAX 717-00-82 D	"2 CORONAS" HIGUERAS-DE ABUYA
77	AGROEXPORTADORA SAN RAFAEL, S.A. C.V. (ING. JACOBO GAXIOLA LUGO)	TEL. 761-55-63	
79	ING JUAN ENRIQUE HABERMANN GASTELUM	DR. ANDRES VIDALES No. 114 OTE. COLONIA CHAPULTEPEC TEL Y FAX 712-72-74 Y 715-56-72	"LA ESPERANZA" KM 11 CARRETERA DEL VERGEL A LAS AGUAMITAS TEL 727-42-41 Y 42 NAV.
81	ING. SERGIO AGUILAR MAGALLON	AV. PRIMERA EN CULIACANCITO TEL. 715-35-88 DOMICILIO CULIACAN	"SAN ALEJANDRO" TEL Y FAX 723-03-00 EN LA OFNA.
83	AGROBATIZ, S.A. DE C.V.	KM. 24 CARRTERA A ELDORADO TEL. 846-10-02 Y FAX 846-10-01	EJIDO CANAN
84	ING. RICARDO VAZQUEZ DE LA ROCHA	CALLE LICHIS # 1861 FRACC LA CAMPIÑA TEL CASA 712-32-71 Y OFNA. 712-35-87	
85	AGRICOLA EL CRISOL DE LA COSTA (ING. JORGE AMADO LOPEZ ESTOLANO)	FCO. I. MADERO No. 328 PTE. TEL Y FAX 01-672-72 7-36-14	"EL CRISOL" NAVOLATO, SIN.
86	AGRICOLA 5 HERMANOS (SR. JORGE MARIO BON BUSTAMANTE)	JUAN DE LA BARRERA No. 1249 NTE COL CHAPULTEPEC TEL FAX 716-18-31	"5 HERMANOS" TEL 717-88-00, FAX 044-66-77 63-60-01
89	AGRICOLA BUEN AÑO S DE R L DE C V (SRITA. LIEN LY)	EJIDO LA ARROCERA TEL 01-66-77-28-16-24 FAX 8-16-11	"BUEN AÑO" KN. 45 CARRETERA A ELDORADO
90	MARIA TRINIDAD DIAZ RAMIREZ	LAGO DE IPACARAI # 3034 FRACC. LOMAS DEL BOULEVARD TELS 714-91-73 CASA 761-25-82 OFNA	
91	AGRICOLA LARSEL S DE RL DE CV (SR. RODOLFO SEPULVEDA REATIGA)	KM. 15 CARRT. INTERNACIONAL NTE. TEL Y FAX 713-68-31	"LARSEL" RANCHO LAS PALMAS
92	CAMPAÑA AGRICULTORES SRL DE CV (FRANCISCO CAMPAÑA ACOSTA) REPRESENTANTE	A. ROSALES 336 PTE COLONIA CENTRO TEL. Y FAX 712-06-48	"CAMPAÑA " CARRETERA LA 20 TEL CEL 044-66-77- 20-96-10

ACTUALIZADA AL MES DE MARZO DEL AÑO 2003.



PRODUCTOR	EMPAQUE	UBICACION	OFICINA	TEL./FAX	R.F.C. Y E-MAIL
971-00 BENJAMIN BON BUSTAMANTE	AGRICOLA BON, S. DE R.L. DE C.V.	EST. BAMOA, GVE.	JESUS GARCIA 150 PTE. EST. BAMOA, GUASAVE	01687 88 10034 01687 88 10067 FAX 88 1-05-44	ABC-930924-413 ernesto@agricolabon.com.mx todaarava@hotmail.com
610-00 MIGUEL A. ECHAVARRIA VALENZUELA	AGRICOLA MAEVA	CALLE 300 Y CANAL 27+1000	CALLE 300 Y CANAL 27+1000	(687) 2-95-99 FAX 87 2-97-99 (681) 8- 97-70	tomates@hotmail.com
3220-00 ERNESTO ECHAVARRIA SALAZAR-C.P. ABRAHAM P. HEREDIA MELENDEZ	EXPORTADORA AGRICOLA SACRAMENTO, S.A. DE C.V.	POB. LIC. BENITO JUAREZ	KM. 164.5 CARRET. INT. LIC. BENITO JUAREZ	01687 87 70229 01687 87 70515 FAX 87 71657	EAS-970613-7ZA signature@prodigy.net.mx-KARINA
40-00 LUIS ALBERTO SAEZ UNGER	GREEN WORLD DE MEXICO, S.A. DE C.V.	CARRET. INT. SIN ENTRE CALLE DOS Y CERO, RUIZ CORTINES	RUIZ CORTINES	01687 89 70040 FAX 89 70366	GWM-991018-8VA
700-00 JOSE IGNACIO BORQUEZ SAINZ	AGRICOLA BORQUEZ, S.A.	CALLE 11 KM. 1.5	NIÑOS HEROES Y RAMIREZ	01687 87 20419 FAX 87 29070	iborquez@gve.megared.net.mx agborquez@gve.megared.net.mx
185-00 MANUEL ESCOBAR CASTRO	AGRICOLA MAYOLI, S.P.R. DE R.I.	CALLE 9 FTE. COL. 24 DE FEB. GABRIEL LEYVA	VICENTE GUERRERO S/N L 15 PLAZA SACRAMENTO, GVE.	01687 87 29535 01687 87 70880	AMA-990715 1G1 agrimayoli@gve.infodata.com.mx agrimayoli@hotmail.com
681-00 SR. ALEJANDRO/SOCRATES 044687 87 80155 ACOSTA	VARELA GRUPO VARELA, S.P.R. DE R.L.	CANAL PRINCIPAL BAMOA KM. 22	MACARIO GAXIOLA 40 INT. B	01687 87 25365 01687 87 20799 FAX 87 20548	GVA 900926 OC 9 grupovarela@hotmail.com
84-00 ALEXIS VARELA ALVAREZ	CANAL PRINCIPAL BAMOA KM. 22	CANAL PRINCIPAL BAMOA KM. 22	B. VALENZUELA 44 SUR Y MACARIO GAXIOLA 40 INT. B	01687 87 10273 25365, 20799 FAX 87 20548	teresia.alexvarsn@hotmail.com
445-00 MARIA C. CORONEL VILLAREAL PDTA. DE CONSEJO	SANTA MARIA AGRICOLA, S.P.R. DE R.I.	CARRET. A EST. BAMOA KM. 12 S/N.	CAMPO SAN MARTIN	01687 87 29589 87 29592-93-94 FAX 87 29591	smagricola@prodigy.net.mx
299-00 FELIPE FIGUEROA GALLARDO (OMAR)	AGRICOLA FIGUEROA	CARRET. HUITUSS/CALLE 11Y 100, LAS PARRITAS	BLVD. JUAN DE DIOS BATIZ No. 40-5 OTE. LOS MOCHIS	016688 152384 FAX 88 186447	FIG-470501-2N9 felipe_figueroa@hotmail.com
1970-00 SR. MANUEL COTA MARTINEZ	PRODUCTORA AGRICOLA SAN JOSE, S.P.R. DE R.I.	KM. 16 CARRET. INTER. TRAMO GVE-MOCHIS	KM. 16 CARRET. INTER. TRAMO GVE-MOCHIS	01687 87 71197 fax 87 715 83	PAS 990108 SR2 productoragricola@prodigy.net.mx
6-00 JUAN DIEGO BERNAL AMADOR		CALLE 2 DE ABRIL ENTRE CORREGIDORA Y B. JUAREZ	NIO	01687 87 45060	
60-00 MANUEL OTHON CRUZ BURGOS	CAMPO DOÑA ALICIA	PROL. DR. DE LA TORRE Y LOPEZ MATEOS, GUASAVE		01687 87 12474	CUBM-690525-KV9 manuelo1525@hotmail.com
36-00 CARLO ALBERTO FRATINI CHACINI		TEOFILO NORIS 610, GUASAVE	TEOFILO NORIS 610, GUASAVE	01687 87 20467 01687 87 70880 044687 87 58095	FACC-620507-C9A fratinica@hotmail.com
411-00 ALIMENTOS DEL FUERTE, S.A. DE C.V.		KM. 10.5 CARRET. MOCHIS - SAN BLAS, MOCHICAHUI, EL FUERTE	KM. 10.5 CARRET. MOCHIS - SAN BLAS, MOCHICAHUI, EL FUERTE	016688 185051 016688 118322 FAX 88 160200	AFU-731029-PZ9
70-00 PRISCILIANO VALDEZ FELIX, SPR DE RI	PVF-961010-277	EJ. MAQUIPO, SIN. DE LEYVA	EJ. MAQUIPO, SIN. DE LEYVA	01687 88 10610	
100-00 ERNESTO GUTIERREZ ARMENTA		MADERO/AV 1A. Y 2A. LEON F.	MADERO/AV 1A. Y 2A. LEON F.	87 30234	GUAE-550408-8UA netos1955@hotmail.com
8-00 JOSUE BELTRAN ALDANA		CALLE 1ERO. DE MAYO 12	EST. BAMOA	01687 88 10220	BEAJ-700822-9W3
31-00 JOSE RUBEN PARRA CUADRAS-ROSY	HORIZONTE DE ESPERANZA PRODUCTORA AGRICOLA, S.P.R. DE R.I.	CALLE ZAPATA Y AV. 1 LEON FONSECA	CALLE ZAPATA Y AV. 1 LEON FONSECA	01687 87 30098	
33-00 MIGUEL ANGEL RAMOS MENDEZ	AGRICOLA EL NIÑO, SPR DE RL	BLAS VALENZUELA No. 170, COL. CENTRO, GUASAVE	BLAS VALENZUELA No. 170, COL. CENTRO, GUASAVE	01687 87 22083	ANI-001004-UJA miguelangel_72@yahoo.com

NUEVA YAMAL, S.A. DE C.V.	NUEVA YAMAL, S.A. DE C.V. 970726-GU5	NYA-	KM. 29.5 CARRET. CULIACAN-EL DORADO	KM. 29.5 CARRET. CULIACAN- EL DORADO	016877 139300 EXT. 764 762
OSCAR GARCIA LOPEZ	GALO-670214-UX9			PRINCIPA # 21 LOMAS DEL VALLE. GUAMUCHIL, SIN.	01673 73 28365 01673 73 25872
	AGRICOLA SOTELO, SPR DE RI				87 21822
	ANTONIO CAMACHO GONZALEZ				01687 87 23056 FAX 87 10686
WERNER y GUILLERMO COTA	AGRICOLA COTA				01687 87 20115 FAX 87 12244
					gcola@ges.gob.mx



**ASOCIACION DE AGRICULTORES DEL RIO SINALOA PONIENTE  
RELACION DE EMPAQUES Y JEFES DE GRUPOS LEGUMBREROS**

**TEMP. HORTICOLA 2002-2003**

PRODUCTOR	EMPAQUE	UBICACION	OFICINA	TEL./FAX
RAMIRO CASTRO SOTO	AGRICOLA YORY, S.P.R. DE R.I. AYS-900927-A49	KM. 6.5 CARRET. A LAS GLORIAS	KM. 6.5 CARRET. A LAS GLORIAS	(687) 2-95-56, 57, 58, 59 8-71-25
CARLOS BATIZ ECHAVARRIA	AGRICOLA BATAMOTE, S.A. DE C.V. FE-ABA-950712-URB	KM. 165 CARRET. CULIACAN-LOS MOCHIS	LIC. BENITO JUAREZ, GUASAVE, SIN.	(687) 7-01-81 7-01-82
ARTURO LOMELI VILLALOBOS	GRUPO EXPORTADOR DE OCCIDENTE, S.A. DE C.V.	KM. 1.575 CARRET. INT. RUIZ CORTINES	KM. 1.575 CARRET. INT. RUIZ CORTINES	(689) 7-02-36 03-70 70953
IGNACIO BORQUEZ ZAZUETA ALPROSA, S.P.R. DE R.S.	CAMAGUEY ASR-790105-CBO	CARRETERA A NARANJO KM. 3.5	CARRET. INTER. Y AV. REFORMA, COL. OCORO	(687) 2-75-16 FAX 2-45-18 2-12-90
DEMETRIO VARELA SARABIA	BAMOA VASD-650130-C22	BAMOA, PUEBLO	NORZAGARAY No. 90 SUR	(687) 2-22-93
ARMANDO LEYSON CASTRO	LEYSON, EL TROMPO ALP-950805-IKO	POB. ROJO GOMEZ	BLVD. 16 DE SEP. E IGNACIO RAMIREZ, GUASAVE	(687) 2-62-19
FRANCISCO SANCHEZ BOJORQUEZ	SAN JOSE AGRICOLA, S.P.R. DE R.L. SJA-980528-IS7	EL BURRION	BLVD. 16 DE SEPT. 470, GUASAVE, SIN.	(687) 2-82-85 2-91-49 9068685318
RENE CAMACHO GARCIA	STAR WAY AGROINDUSTRIAS, SPR DE RI	EST. BAMOA	FCO. I. MADERO 543 TORRE 1 GUASAVE	(687) 2-20-43
FAUSTO PEREZ CASTRO	PRODUCTORA AGRICOLA EL ENCANTO	PALOS BLANCOS	G. NELSON Y CUAUHEMOC	(91-687) 2-16-41
JUAN H. GONZALEZ MONTOYA	TAMAZULA GOMJ-561103-L19	TAMAZULA, GUASAVE	REVOLUCION No. 1098	(687) 2-62-16 (688) 1-50-10
RADAMES BORQUEZ BATIZ	AGRICOLA RB, SPR DE RI	CALLE 7 Y CARRET. INTER, LEYVA SOLANO	CALLE 7 Y CARRET. INTER, LEYVA SOLANO	(687) 7-07-77 7-09-53
AURELIO ARMENTA GUERRERO	EL YAQUI	CALLE 15 Y CARRET. INTER.	CALLE 1 Y AV. RINCON, JUAN JOSE RIOS	6-06-77
JOSE MARIO LABRADA ESPINOZA	AGRICOLA EL LABRADOR DE GUASAVE, S DE RL	EJ. EL CRUCERO	BLAS VLA. Y JUAN CARRASCO, GUASAVE	(687) 2-25-53 2-24-10
BENJAMIN ZAZUETA HIGUERA	LAS FILIPINAS	CALLE 300 Y CANAL 27	MIGUEL C. CASTRO 256	(687) 2-33-41 5-90-82
JOSE DE JESUS CASTRO VALDEZ CHICORABIAS PRODUCTORA, SPR DE RI	BALTA CRP-970623-A19	GUAYPARIME	OBREGON No. 336, GUASAVE	(687) 2-59-77 2-22-80 2-52-30
GUILLERMO COTA RIVERA			BLVD. CENTRAL 366/ PEDRO. INFANTE Y A. ROSALES	(687) 2-16-62 01-15
JESUS A. VALENZUELA ASTORGA		TAMAZULA, GUASAVE	TAMAZULA, GUASAVE	(688) 1-50-08
HERNANDEZ MONJE LUIS				
ELADIO ADALBERTO RUBIO LOPEZ	RUBIO AGRICOLA RULE-560122-P66	CALLE 100 Y CANAL DIAGONAL 27	GUASAVE, SIN.	2-46-15
MARIO CASTRO DEL ANGEL	YACORANDA, S.P.R. DE R.I. YSP-900823-P31		20 DE NOVIEMBRE No. 3 COL. IPIS, GUASAVE	2-20-62 2-73-50
RUBEN VALENZUELA	SAN JAVIER, S.P.R. de R.I.		DR. DE LA TORRE, GUASAVE.	2-60-71
JESUS ENRIQUE CASTRO GARCIA	AGRICOLA TEPACHOIPA, S.A. DE C.V. agricolatepachoispa@prodiqy.net.mx		BLVD. INSURGENTES No. 312, GUASAVE, SIN.	2-16-59 41-67
EDUARDO HASHIMOTO BELTRAN.	GALA	CALLE 17 Y CARRET. INT	RIO FUERTE No. 83 SUR COL. JARDINES DEL VALLE LOS MOCHIS, SIN.	9068682325 687 5 93-13
GUADALUPE A. VELDERRAIN AYALA	SAN ENRIQUE VEAG-451130-3S9	CANAL VALLE DEL FUERTE Y CANAL CERO	CJON. SINALOA No. 655 PTE. LOS MOCHIS	15-66-99
CESAR MANUEL DE LA ROSA COVARRUBIAS	BALTA ROCC-380120-MKA	CANAL 27 CAMINO VIEJO A LOS MOCHIS	NORZAGARAY No. 904	(687) 2-03-82
PRODUCTORAS AGRICOLAS SANTA MARTHA, SPR DE RI	SANTA MARTHA PAS-970821-J46	CALLE 15, POB. 5 DE MAYO	MACARIO GAXIOLA 319	(687) 2-01-15

DAMIAN GAXIOLA ANGULO	TAKEDA		SAN RAFAEL	ENRIQUE DUNANT 705 SUR, GUAMUCHIL, SIN.	(687) 2-73-70
ARTURO DE JESUS SOBERANES GONZALEZ	TEPACHOIPA		CARRET. INT. KM. 150 TRAMO CULIACAN-MOCHIS	A. NORZAGARAY No. 137, GUASAVE, SIN.	2-26-57
ENRIQUE VALADEZ DE LA CERDA	SAN ANGEL		CALLE 100 Y 23, GUASAVE, SIN.	CORREGIDORA No. 633 GUASAVE, SIN.	2-03-89
SERGIO DIAZ MALACON	PARDIS	DIMS-580523-SA3	CARRET. A NARANJO KM 2.5	NELSON No. 421	(687) 2-05-14
CONTRERAS VALLE	AGRICOLA CONVA, SPR DE RI ACS-980714-LW4		BLVD. BENITO JUAREZ No. 222 COL. ANGEL FLORES		2-86-14
JOSE CARLOS SOTELO MONGE	SOMC-580221-J1A			CASA BLANCA	687 2-43-37
MARTIN LUGO HEREDIA	TAMAZULA LUHM-610130-B84			LAZARO CARDENAS 1049	687 2-29-93
PRODUCTOS AGRICOLAS DE EST. BAMO, S. DE R.L. DE C.V.	PAE-910919-H16		JESUS GARCIA SIN. EST. BAMOA		688 1-03-43
ALFREDO ANGULO MONTOYA	AUMA-430303-GR7		CALLE 33 - 700	1° DE MAYO ESQ. FLORES MAGON, COREPE	2-48-67 6-52-99
SOCRATES VARELA SARABIA	VASS-701024-118			NORZAGARAY No. 90 SUR	2-22-93
MARIA DEL ROSARIO CAMACHO VALERIO				EL BURRION, GUASAVE	*6-03-16
TRINIDAD VALERIO GAMEZ				EL BURRION, GUASAVE	6-00-67
MARCO ANTONIO BORQUEZ LLANES	BOLM-700516-IDO			IGNACIO RAMIREZ Y NORZAGARAY	2-25-99
LEONARDO OLIVAS SIQUEIROS			RANCHITO DE ZAVALA	BLVD. CENTRAL 115-3 NTE. GUASAVE	2-97-31
VICTOR CANTU AGUILERA			CALLE 11 CARRET. AL HUITUSI	CONSTITUCION NO. 375 GUASAVE, SIN.	2-23-68
IVAN DE JESUS GARCIA BUELNA	GABI-751130-DR3			LAZARO CARDENAS 255	2-44-21
RAFAEL MADUENO FELIX	MAFR-431221-NF2			16 DE SEPTIEMBRE	(688) 1-50-54
FELIPE RIVERA FAVELA	RIFL-560826-DIA			CUAUHTEMOC No. 384 PTE. DEPTO. 3	2-88-50
GPO. VISTA, S DE R.L. DE C.V.	GVI-970218 ID3		CALLE 7 KM. 3 SIN		(0168) 21-56-28
MANUEL ARTURO VALLE VELAZQUEZ	VAVM-370409-CJ6		MANUEL M. PONCE # 370, COL. EJIDAL, GUASAVE		2-51-90
MANUELA GARCIA DE LEON DE VILLAVERDE	GALM-100510-001		FCO. I. MADERO No. 632 SUR, COL. MORELOS, GUAMUCHIL		(673) 2-14-68
AGRICOLA B.B. S.A. DE C.V.	ABB-971110-2N6		BLVD. A. LOPEZ MATEOS Y CANAL ALTO, BENITO JUAREZ	BENITO JUAREZ, GUASAVE	
NACIONAL AGROEXPORTADORA, S.A. DE C.V.	NAG-990803-EB5		CALLE 7 Y CARRET. INT. GABRIEL LEYVA SOLANO	CALLE 7 Y CARRET. INT. GABRIEL LEYVA SOLANO	
MANUEL OTHON CRUZ BURGOS	CUBM-690525-C41		PROL. DR. DE LA TORRES Y LOPEZ MATEOS, GUASAVE	PROL. DR. DE LA TORRES Y LOPEZ MATEOS, GUASAVE	2-59-44 95
EMETERIO MEXIA CASTRO	MECE-340303-B57		VENUSTIANO CARRANZA No. 371 SUR, GUAMUCHIL	VENUSTIANO CARRANZA No. 371 SUR, GUAMUCHIL	
ROQUE ALAN CASTRO MENCHACA	CAMR-631222-KH5		20 DE NOVIEMBRE, COL. IPIS GUASAVE	20 DE NOVIEMBRE, COL. IPIS GUASAVE	
COSME RAFAEL ALMADA LOPEZ	AALC-451119-91A		TEOFILO NORIS No. 16, GUASAVE	TEOFILO NORIS No. 16, GUASAVE	2-96-37

RELACION DE HORTICULTORES DEL ESTADO DE SINALOA, MOCHIS

NOMBRE	DIRECCION	TELEFONO	FAX	R.F.C
AARON GAMEZ ROBLES	OBREGON No. 28, AHOME, SINALOA.	8630172		
AGRICOLA BRAZILES,S.A. DE C.V.	NICOLAS BRAVO No. 202, INT.210	15-56-28	15-56-28	
AGRICOLA CARDAVIZ,S.A. DE C.V	BLVD.MORELOS Y J.O. DE DOM. COL. BUROCRATA,EJ. MORELOS	24-10-38	24-10-38	
AGRICOLA CHINITO, S.P.R. DE R.L.	I. RAMIREZ No. 72 PTE., LOS MOCHIS, SIN.	812-33-30	044688610678	ACI-000912-CJ2
AGRICOLA CEPRAMI, S.P.R. DE R.L.	CARRET.INT. #15 MEX.-NOG. KM.203, COL.MIGUEL HGO., LOS MOCHIS, SIN.	8172964	8151477	ACE-020830-374
AGRICOLA GOTSIS, S.A. DE C.V.	CALLE 400 Y 2, VILLA GUSTAVO DIAZ ORDAZ.	0446688215035	0446688215035	AGO-931124-CJ9
AGRICOLA KOPY,S.A. DE C.V.	CJON. GALEANA No.216 PTE., A-2 COL.CENTRO	04468216362	04468216362	AES-971104-R2A
		815-45-39	815-45-39	ALU-990915-427
		864-02-86	864-02-86	ANA-950324-3N3
		815-26-66	815-26-66	APS-900926-3GA
		815-14-77	815-14-77	APE-010206-DK5
AGRICOLA PECAS	DOMICILIO CONOCIDO SN CAMPO 35	(686)5-50-27	(686)5-50-27	ARF-971231-831
AGRICOLA RIO FUERTE,S.A. DE C.V.	LAS VEREDAS No. 2052 PTE., FRACC. ALAMOS COUNTRY	8248197	8248197	ASV-941022-P90
		818-54-32	818-54-32	AIM-001016-BK5
		812-16-36	812-16-36	AGR-000128-RQ0
		817-05-06	817-05-06	AFU-731029-P29
ALFREDO GASTELUM BORQUEZ	DOMICILIO CONOCIDO			CABA-620227-KA7
		15-74-07	15-74-07	
ALONSO REYES VIVAS	GUILLERMO PRIETO No. 62 NTE.,LOC.. 1 ALTOS			
ANTONIO IBARRA BARRIOS	CONOCIDO CAMPO 35			
ANTONIO LUGO ASTIAZARAN	HIDALGO No. 525 PTE., CENTRO	815-47-75	815-47-75	PRU-001017-J50
A.P. RUIZ S.P.R. DE R.L. DE C.V.	ZARAGOZA # 324 NTE.,ALTOS 108 COL. CENTRO	812-13-15	812-13-15	SABA-281223-J63
ARTURO SANCHEZ BORJA	BLVD. JUAN DE DIOS BATIZ No. 344-1 OTE. FRACC. EL PARQUE, LOS MOCHIS, SIN	812-85-20	818-08-39	
AURELIO ARMENTA VEGA	CALLE 1 AVE. RINCON			
CABORITA RS.S. DE P.R. DE R.S.	ZARAGOZA No. 324 NTE., ALTOS 101 CENTRO	8120205/8120189	818-45-22	APR-960717-EG7
		18-65-23	8180711	CRS-851215-J64
CARLOS ALBERTO GARCIA CARBO	RIO FUERTE No. 241 SUR, SCALLY		863-05-19	CAM-000807-7K8
CARLOS EDUARDO VILLEGAS GONZALEZ	CALLE 3 No. 120, JUAN JOSE RIOS, GUASAVE, SIN.	01687896-00-05	18-65-23	
CARLOS ENRIQUE MARTINEZ Y RIVERA	CIRCUITO LAS PALMAS No. 959, FRACC. LA HERRADURA	815-33-20	01687896-00-05	MARC-430104-P27
CARLOS MAGALLANES HERNANDEZ	LEYVA No. 201 NTE.	0446688201030	815-33-20	
CARLOS MARTIN IBARRA ESTRADA	MORELOS No. 320 PTE., LOC. 5 ALTOS,CENTRO	12-69-51	0446688201030	
CARLOS RODOLFO SOTO GUZMAN	ANGEL FLORES No. 2254 NTE., LAS FUENTES	12-56-03	12-69-51	
CARLOS VELDERRAIN HARO	ADOLFO LOPEZ MATEOS No. 2095 NTE.,	815-21-49	12-56-03	
CESAR LIZARRAGA LIZARRAGA	A. SERDAN No. 181 OTE., CENTRO	12-49-05	815-21-49	
CREMCAS,S. DE R.L	HERIBERTO VALDEZ No. 1555 PTE. FRACC. LASTRAS	15-45-54	12-49-05	
CHRISTIAN PAUL APODACA HERRERA	BLVD. MACARIO GAXIOLA No. 840 SUR	812-33-30	15-45-54	
CRUZ ALBERTO VALENZUELA LARA	ALLENDE No. 1130 FOVISSITE 4	11-01-05	815-01-50	AOHC-761003-VEA
DANIEL IBARRA HEREDIA	BLVD. LOPEZ MATEOS No. 1360 NTE.,	812-99-57	815-01-50	IAHD-460103-7K2
DAVID GALLEGOS ZAZUETA	RIO PRESIDIO No. 353 NTE., SCALLY	18-01-38	812-99-59	DVS-970519-AQ2
		812-52-81	18-01-38	DAHE-720126-FP4
EDGAR ADOLFO DAVALOS HERNANDEZ	GUERRERO No. 723 NTE., SECTOR FATIMA, LOS MOCHIS, SIN.	812-52-81	815-42-23	LUCE-661013-S97
EDMUNDO NAFARRATE MANZANAREZ	MADERO No. 530 PTE.,CENTRO	12-51-82	812-52-81	GAAE-541226-IC2
		812-01-35	12-51-82	EPR-970428-D65
ELISA GASTELUM ARVIZU	ZARAGOZA No. 1695 NTE., FRACC. LAS FUENTES	812-01-35	812-01-35	AUFE-631204-EK4
EMILIO LEON VALENZUELA	PRIVADA LOS PINOS, FRACC. LOS PINOS	18-67-73	812-01-35	
ENID, S.P.R. DE R.L.	I. ZARAGOZA No. 324 NTE., LOC. 1	818-46-35	18-67-73	
		818-46-35	818-46-35	
ESTEBAN LUQUE LUQUE	ZARAGOZA No. 57	(01-686)4-00-05	8152900	
			(01-686)4-00-05	

FERNANDO SINGH IBARRA	RIO CULIACAN No. 122 NTE., SCALLY	12-27-03	12-27-03	512-27-03	
FRANCISCO JAVIER CALDERON LOPEZ	GUILLERMO PRIETO No. 870 NTE., COL. CENTRO, LOS MOCHIS, SIN.	812-86-33/35	812-86-33/35	812-86-33/35	CALF-620308-8J8
FRANCISCO JAVIER LEON GUTIERREZ	BLVD. 10DE MAYO No. 191 PTE., 1-7, LAS FUENTES	15-45-41	15-45-41	15-45-41	
GABRIEL RODRIGUEZ MUNIZ	BAHIA DE OHUIRA No. 187 SUR, FRACC. GRIJALVA, LOS MOCHIS, SIN.	4468610202	4468610202	4468610202	ROMG-630531-170
GEIDI ARACELY GALLEGOS CONTRERAS	PRIVADA FUENTE DE MERCURIO No. 233 PTE., LAS FUENTES	18-43-48	18-43-48	18-43-48	
GEOBANI VALENZUELA HEREDIA	RIO QUELITE No. 251 NTE., FRACC. LASTRAS				
GERMAN QUIROZ TALAMANTE	L.CARDENAS No. 783 PTE., CENTRO	61-44-56	61-44-56	61-44-56	GAAG-651201-L11
GILBERTO GASTELUM ACOSTA	VENUSTIANO CARRANZA No. 135 PTE., COL. CENTRO, LOS MOCHIS, SIN.	812-22-75	812-22-75	812-22-75	GAE-000510-HK7
GPO. AGRICOLA MEZQUITE, S.P.R. DE R.L.	GUILLERMO PRIETO No. 660 NTE.	815-42-88	815-42-88	815-42-88	GAR-910701-249
GREGORIO INZUNZA CASTRO	MORELOS No. 59 OTE., CENTRO	15-72-92	15-72-92	15-72-92	GAR-961106-J28
GUILLERMO CARBAJAL MARKOVICH	CORREGIDORA No. 562	815-46-88/83464	815-46-88/83464	815-46-88/83464	GOS-850704-ZZA
		18-17-74	18-17-74	18-17-74	AUBG-530627-KM4
HERMANOS MATSUDA, S.P.R. DE R.L.	REPUBLICA DE ARGENTINA No. 185 PTE., FRACC. JUAN COTA, LOS MOCHIS, SII 812-20-94	812-20-94	812-20-94	812-20-94	HMA-001211-RK9
ISMAEL GAMEZ ROBLES	SOR JUANA INES DE LA CRUZ No. 1629, JARDINES DEL VALLE, LOS MOCHIS, SI 812-61-47	812-61-47	812-61-47	812-61-47	GARI-480309-ZDA
ISMAEL LOPEZ LOPEZ	ISLA MAGDALENA No. 608, FRACC. LAS HADAS	15-84-62	15-84-62	15-84-62	
GRUPO AGRICOLA EL EMPAQUITO, S.P.R. I I.	ZARAGOZA No. 1555 NTE., LOC. 29 LAS FUENTES	815-71-51	815-71-51	815-71-51	GAE-001013-4T6
JAVIER ANGULO HERNANDEZ Y COP.	ANGEL FLORES No. 357-A NTE., COL. CENTRO, LOS MOCHIS, SIN.	812-29-84	812-29-84	815-18-65	AUHJ-280810-V79
JESUS CRISTIAN CASTRO GARCIA	CALLEJON ZAVALA SIN	(01-689)2-01-05	(01-689)2-01-05	(01-689)2-01-05	
JORGE ALEJANDRO GARZA CORONADO	JAVIER MINA No. 577 NTE., CENTRO	15-26-82	15-26-82	15-26-82	
JORGE LOPEZ GUERRERO	FUENTE DE MERCURIO No. 188 PTE., LAS FUENTES	815-24-24	815-24-24	815-24-24	
JOSE ALFREDO JIMENEZ VIRGEN	V. CARRANZA No. 779 OTE., CENTRO	12-58-81	12-58-81	12-58-81	
JOSE CARLOS ROMERO AGUILAR	ANDRES ZAMUDIO No. 40 PTE., MIGUEL HIDALGO	12-46-00	12-46-00	12-46-00	
JOSE ERNESTO LUGO CORDOVA	MADERO No. 1406 PTE.	812-92-12	812-92-12	812-92-12	HIRG-541114-538
JOSE GUADALUPE HIGUERA ROMERO	MACARIO GAXIOLA No. 755 NTE., COL. CENTRO, LOS MOCHIS, SIN.	818-86-06	818-86-06	818-86-06	QUCI-390223-J15
JOSE IVAN QUIÑONES CRUZ	L. CARDENAS No. 340-A PTE., COL. CENTRO, LOS MOCHIS, SIN.			811-80-20	AOSM-510113-LV5
JOSE SANTOS BECERRA RON	DEL PINO No. 2205, FOVISSSTE 3	818-24-61	818-24-61	818-24-61	
JUAN CARLOS VEGA RIVERA	PROL. BLVD. ROSALES Y L. CARDENAS	818-11-55	818-11-55	818-11-55	
JUAN MARTIN HERNANDEZ RUIZ	DOMICILIO CONOCIDO CACHOANA	(68789) 60606	(68789) 60606	(68789) 60606	COMJ-490608-275
JUAN MIGUEL COTA MURRIETA	CALLE 8 No. 313 JUAN JOSE RIOS, SINALOA	12-12-89	12-12-89	12-12-89	GOGI-410203-MZ0
JULIO ANDRES MONTIEL IBARRA	MORELOS No. 59 PTE., CENTRO	20-00-01	20-00-01	20-00-01	
LEONEL MENDOZA PACHECO	CALLE PRINCIPAL	12-22-75	12-22-75	12-22-75	
LUIS ABRAHAM GASTELUM ACOSTA	V. CARRANZA No. 135 PTE., CENTRO	04468215868	04468215868	04468215868	COPL-271020-LX3
LUIS ALBERTO ALVAREZ GAXIOLA	BAGOJO DELRIO	812-10-28	812-10-28	812-10-28	
LUIS COTA PAZOS	HERIBERTO VALDEZ No. 299 PTE. COL. CENTRO, LOS MOCHIS, SIN.	818-35-48	818-35-48	818-35-48	
LUIS ROBERTO ALTAMIRANO RUELAS	I. RAMIREZ No. 304 PTE.	(01-689)6-00-05	(01-689)6-00-05	(01-689)6-00-05	VERM-620805-H59
MANUEL ALBERTO GALLARDO VILLEGAS	CALLE 3 SIN AVE BATEQUIS	15-43-39	15-43-39	15-43-39	
MARIA FRANCISCA RUIZ FIGUEROA	PARQUE NOROESTE No. 281., OTE., FRACC. EL PARQUE	12-74-00	12-74-00	12-74-00	NACS-540124-P9A
MARTE NICOLAS VEGA ROMAN	CALENDARIO OCHOA No. 649 SUR, JARDINES DEL COUNTRY, LOS MOCHIS, SIN 818-09-43	0446688323037	0446688323037	0446688323037	PIPN-621103-SF5
MIGUEL E. ROBLES USSHER	RIO SINALOA No., 380 NTE., SCALLY	812-11-95	812-11-95	812-11-95	
SERGIO NAFARRATE CASTRO	RIO DE LAS CAÑAS No. 1135 NTE., FRACC. LAS PALMAS, LOS MOCHIS, SIN.	13-25-91	13-25-91	13-25-91	AORO-520504-595
NICOLAS ANTONIO PIÑA PAEZ	JUAREZ No. 237 PTE., COL. CENTRO	818-58-21	818-58-21	818-58-21	GAAP-570918-3T9
OSCAR RUIZ RUIZ	CONOCIDO EJ. MOCHIS	812-22-75	812-22-75	812-22-75	VEFP-561218-TG7
OTHONIEL ACOSTA ROMERO	BLVD. JUSTICIA SOCIAL No. 237 LOC. 6 PTE., LAS FUENTES, LOS MOCHIS, SIN.	(68789) 6-00-06	(68789) 6-00-06	(68789) 6-00-06	GAAR-701001-L54
PABLO I. GASTELUM ACOSTA	V. CARRANZA No. 135 PTE., COL. CENTRO, LOS MOCHIS, SIN.	818-28-58	818-28-58	818-28-58	
PRODUCTORA NACIONAL DE SEMILLAS	KM. 1609 CARRET. INTERNACIONAL MEXICO-NOGALES				
RAUL ENRIQUE GALAVIZ ACOSTA	PRIVADA GUERRERO No. 558 PTE.,				

RAMON LUGO ROSAS	DOM. CONOCIDO SAN VICENTE	04468680184	04468680184	818-37-22	COMR-260802-AB3
RAQUEL MARTINEZ VEGA	RIO FUERTE No. 37 SUR, FRACC. JORDAN, LOS MOCHIS, SIN.	812-23-57	812-23-57	812-07-48	MAVR-721029-PX4
RENE DE JESUS VALENCIA ROBLES	RIO SINALOA No. 753 NTE., FRACC.SCALLY	12-12-24	12-12-24	815-13-85	PEFR-310811-IDA
RIGOBERTO CUADRAS CUEVAS				12-24-71	
ROLANDO ZUBIA RIVERA	CARDENAS Y ZARAGOZA	815-13-85	815-13-85	812-45-23	WOUR-540629-JC5
ROMULO GOMEZ BELTRAN	LIBERTAD No. 1530 PTE., FRACC. LAS PALMAS	12-24-71	12-24-71	818-79-95	SAC-900927-LDA
ROSA ELENA WONG URREA	RIO PIAXTLA No. 903 NTE., LOS MOCHIS, SIN.	818-53-80	818-53-80	818-56-89	BADS-541022-N88
RUBEN FELIX GASTELUM	ALLENDE No. 511 NTE.	818-79-95	818-79-95	824-10-97	AUBS-340823-6Y3
S.P.R. AGRICOLA CUCHUJAQUI DE R.I.	BLVD. ADOLFO LOPEZ MATEOS No. 2386 NTE.,	818-59-24	818-59-24	815-45-39	SGR-010406-UM7
SAMUEL BAUTISTA DIAZ	BLVD. MORELOS No. 2951-B SUR BUROCRATA	824-10-97	824-10-97	15-82-01	RORV-410314-PV1
SERGIO AHUJA BALMORI	OLAS ALTAS No. 66, AHOME, SINALOA	863-01-95	863-01-95	815-73-90	
SPINE GREENHOUSES, S.A. DE C.V.	BLVD. 10 DE MAYO No. 191 PTE., INT. 7, LAS FUENTES, LOS MOCHIS, SIN.	815-45-41	815-45-41	12-12-45	
VICTOR MANUEL MENDOZA TAVAREZ	BLVD. ANTONIO ROSALES No. 89 SUR, INT. 7	15-82-01	15-82-01		
VICTOR RAUL MERCADO MEXIA	I. ZARAGOZA No. 1555 NTE. INT. 27, LAS FUENTES	12-12-45	12-12-45		

**REGISTRADOS**



**DIRECTORIO DE PRODUCTORES DE UVA DE MESA  
EN SONORA**

**DIRECTORIO DE PRODUCTORES DE UVA DE MESA EN SONORA**

Alfcomex, S.A. de C.V.  
Tel. Fax (662) 2107106

Agrobionova, S.A. de C.V.  
Tel. Fax (623) 212 8066

Aguirre Alan / Bon Carlos  
Tel. Fax. (662) 261 0320  
261 0322

Agrícola Terramara S. de RL. De CV.  
Tel. Fax. (662) 210 5753  
210 5754

Alianza de Productores Agrícolas S.A. de C.V.  
Tel. Fax. (662) 260 9095

Alonso Luis Enrique  
Tel. Fax. (662) 216 7667

Baranzini Agustín  
Tel. Fax (662) 215 9266  
215 9267  
214 6547

Camou Gerardo  
Tel. Fax (662) 213 1662  
213 6227

Castelo Arturo  
Tel. Fax. (662) 218 3165  
218 3169

Castelo Rolando  
Tel. Fax. (662) 214 9033  
215 4111

Coppel Eduardo / Quiróz Jorge  
Tel. Fax. (662) 215 8765  
215 8785

De la Serna Rodrigo  
Tel. Fax. (662) 216 0460  
216 6985

Donnadieu Gustavo  
Tel. (662) 214 4099  
215 66 85

Elias – Wagner  
Tel. (662) 216 2346

García Adolfo Tarriba Iván  
Tel. Fax. (662) 214 1452

Grupo Ciscomani Félix  
Tel. Fax (662) 271 5062  
Grupo Agropecuario El Diamante.  
Tel. (662) 261 0877  
261 0879

Grupo Ortiz Ciscomani  
Tel. Fax (662) 215 9330  
214 8616  
210 2824

Hernández Fernando  
Tel. Fax. (662) 216 2928  
218 5721  
218 6624

Hurtado Víctor  
Tel. Fax. (662) 218 7212

Las Moras de Sonora  
Tel. Fax (662) 213 2056

Lohr Omar  
Tel. Fax (662) 212 1025

Molina Marco Antonio  
Tel. Fax. (662) 214 4664  
215 3770

Moreno Arnoldo / Coppel Carlos  
Tel. Fax. (662) 214 7000  
214 0885  
210 1371

Platt Héctor  
Tel. Fax. (662) 213 3530  
212 5069

Proyectos Agrícolas, S.A. de C.V.  
Tel. Fax. (662) 210 5758  
2105759

**DIRECTORIO DE PRODUCTORES DE MELON DE  
MICHOACAN Y GUERRERO**

**DIRECTORIO DE PRODUCTORES DE MELON DE MICHOACAN Y GUERRERO**

EMPRESA	TELEFONO
<b>M.V.Z. Salvador Sánchez Garibay. Rancho "El Herradero"</b> Km. 5 Carretera a Altamirano – Toluca.	01 (767) 2-23-69 01 (767) 2-21-64
<b>Antonio Samano Ochoa.</b> Jacona, Michoacán.	01 (351) 51 60 199
<b>Agustín García Ramírez</b> Jacona Michoacán,	01 (351) 51 60 197 51 65 022
<b>Agustín Torres V.</b> Jacona Michoacán,	01 (351) 51 62 766
<b>Bristoll*s Berry</b> Productores Asociados a esta empresa.	
<b>Sergio García de Alba</b>	01 (351) 5170390 5166333
<b>Benjamín Pérez López</b>	
<b>Alberto García Vega</b>	
<b>Sergio Armando Herrera Calixto</b>	
<b>Luis Hernández Barrera</b>	
<b>Uriel Morales Fernández</b>	
<b>SPR LEGUMBREROS SAN LUCAS DE RL</b> Representante Gerzain Martínez González Domicilio: Av. Rivapalacio No. 11 Colonia Riva Palacio, Municipio San Lucas, Michoacán. Superficie 750 ha. En Guerrero y 1500 en Michoacán	767 67 21524 21575
<b>EMPACADORA SAN GERONIMO MICHOACAN, RANCHO LA ORDEÑA</b>	
<b>ARIC, ALTA PROVIDENCIA DE RL DE CV</b> Representante: Sr. Abelardo Monroy Medrano Domicilio: Camino Antiguo de San José Poleutla a San Bartola Km. 1.5 Municipio Tlapehuala	01 7323642446
Siembra 400 ha. Municipio de Arcelia, Guerrero Rancho el Escondido y Municipio a Ajuchitlan Rancho el Aguaje.	
<b>SSS EL CANTON</b> Representante: Sr. Santana Ríos Baena y/o Sra. Reyna Gaspar Molina Domicilio: Calle Jaime Nuno No. 110 atrás del centro de convecciones Vogar , Ciudad Altamirano Guerrero. Superficie: Siembra 300 ha. En Municipio a Ajuchitlan del Progreso Ejido Nicolás Bravo y en el Municipio San Antonio de Los Libres Ejido el Cantón.	01 767 67 24041

**DIRECTORIO DE PRODUCTORES DE FLOR  
MEXICO**

**DIRECTORIO DE PRODUCTORES DE FLOR  
MEXICO 2002**

**Asociación de Floricultores de Villa Guerrero, A.C.**

ASFLORVI, A.C.

Carretera Federal Toluca IXTAPAN s/n Col. Centro

51760 Villa Guerrero, Edo. De México

Tel. 52 714 146 0883

52 714 146 1441

E-Mail: [asflorvi@prodigy.com.net](mailto:asflorvi@prodigy.com.net)

**Asociación de Productores de Flores y Plantas de Ornato de Oatepec Harinas**

Saúl Rubí

Juárez s/n, Col. San Miguel

51700 Coatepec Harinas, Edo. de México

Tel. 52 723 145 0029

52 723 145 0484

**Asoación de Productores de Gladiola, A.C.**

Sr. Vicente Chávez Lagunas

Anden nO. 4 Local 125 y 126, Mercado de Flores, Central de Abastos,

Col. Zona Urbana Ejidal, 09310 México, D.F.

Tel. 52 55 5600 3721

**Asproflor**

Oscar Castro Gurria

Insurgentes Nte., 301, col. Centro

Tenacingo, Edo. De México

Tel. 52 714 142 1579

52 714 142 5025

**Atlixco Viveros**

Ing. Jorge Cruz y Torres

Ing. Agustín Nova Huerta

Av. Héroes del 4 de mayo No. 3

Col. Cabrera

74360 Atlixco, Puebla

Tel. 52 244 445 6145

52 244 445 6149

E-mail: [atlixcoviveros@yahoo.com.mx](mailto:atlixcoviveros@yahoo.com.mx)

**Bioplants Viveros, S.A. de C.V.**

Ing. Juan Carlos Alcántara Neco

Jazmín No. 17, col. El castillo

62550 Jiutepec, Morelos

Tel. 52 777 320 6151

52 777 319 4654

E-mail: [bioplants@infosel.net.mx](mailto:bioplants@infosel.net.mx)

**Consejo Mexicano de la Flor, A.C.**

Lic. Claudia Lee Basurto

Gutenberg 80, Col. Anzures

11590 México, D.F.

Tel. 52 55 52 55 0360

E-mail: [eguerra@conmexflor.com.mx](mailto:eguerra@conmexflor.com.mx), [dbecerril@conmexflor.com.mx](mailto:dbecerril@conmexflor.com.mx)

Website: [www.conmexflor.com.mx](http://www.conmexflor.com.mx)

**Cosmoflor, S.A. de C.V.**

Km. 64.5 Carretera Federal Toluca-Ixtapan de la Sal

51760 Villa Guerrero, Edo. De México

Tel. 52 714 146 0799

52 714 146 0798

52 714 146 05 77

E-mail: [mramirez@cosmoflor.com.mx](mailto:mramirez@cosmoflor.com.mx)

**Coxflor y Steenvoorden, B.V.**

Sr. José Ángel García Beltrán

Peores del 14 de Septiembre No. 20

51760 Villa Guerrero, Edo. De México

Tel. 52 714 146 0034

52 714 146 0032

52 714 146 0667

E-mail: [coxflor@prodigy.net.mx](mailto:coxflor@prodigy.net.mx)

**Finca Argovia Div. Flores "Río Cuilco"**

Ing. Bruno Giesemann E.

21 Priv. Ote. No. 70 entre 7ª y 9ª Nte. Tapachula Chiapas

30700 Tapachula, Chiapas

Tel. 52 962 625 9356

52 962 626 6115

52 962 626 3199

E-mail: [riocuilco@cuilcovalley.com.mx](mailto:riocuilco@cuilcovalley.com.mx)

**Flores naturales**

Ing. Pharis Rico

Rancho La Cofradía s/n

Tuxpan, Michoacán

Tel. 52 786 155 0101

52 786 155 0392

E-mail: [natflow@prodigy.net.mx](mailto:natflow@prodigy.net.mx)

**Incoplants, S.A. de C.V.**

Ing. Jesús Manuel Tinoco Mata

Francisco Ramírez Villareal No. 428

28010 Colima, Colima

Tel. 52 312 312 8525

E-mail: [incoplants@hotmail.com](mailto:incoplants@hotmail.com)

**Plantamar, S.A. de C.V.**

Filemón Martínez Chávez  
López Máteos 16-b  
52400 Santa Ana Tenancingo, Edo. De México  
Tel. 52 714 142 0418  
52 714 142 2115

**Plántulas de Tetela, S. de R.L. de C.V.**

Ing. Federico Martínez Martínez  
Calle de la Cruz s/n Col. Tetela del Monte  
62130 Cuernavaca , Morelos  
Tel. 52 777 389 4797  
E-mail: [plantulastetela@aol.com.mx](mailto:plantulastetela@aol.com.mx)  
Webside: [www.plantulastetela.com.mx](http://www.plantulastetela.com.mx)

**Productores de Ornamentales Finas de Morelos, S.A. de C.V.**

Ing. Enrique De la Sierra / Lic. Alfredo Pellón  
Carretera Yautepec-Jojutla km. 4.5 San Nicolás  
Tel. 52 777 319 0528  
52 777 320 7663  
52 777 382 0857  
52 777 320 7663  
52 777 382 0857  
E-mail: [profimor@hotmail.com](mailto:profimor@hotmail.com)

**Tropiflor**

Dra. Blanca Whinzar Lugo  
Paseo Tabasco No. 1112, Col. García  
86056 Villahermosa, Tabasco  
Tel. 52 993 315 2779  
E-mail: [bwhizar@hotmail.com](mailto:bwhizar@hotmail.com)

**Vivero Xochitlan (Viveros de Morelos, S.A. de C.V.)**

Ing. Enrique De la Sierra Mancilla  
Av. Cuernavaca No. 2 Col. Ahuatepec  
62240 Cuernavaca, Morelos  
Tel. 52 777 382 0857  
E-mail: [Xochitlán@yahoo.com](mailto:Xochitlán@yahoo.com)

**Monarch de México, S.A. de C.V.**

Hidalgo 113, 3er piso.  
Col. Centro  
52400 Tenancingo, Edo. De México  
Tel. 52 714 146 0777  
52 714 146 0483  
E-mail: [jricharte@monarchflora.com.mx](mailto:jricharte@monarchflora.com.mx)



**DIRECTORIO DE HORTICULTORES DEL ESTADO  
DE JALISCO**

**DIRECTORIO DE EXPORTADORES DE FRUTAS, HORTALIZAS, ESPECIAS Y FLORES DEL  
ESTADO DE JALISCO, MÉXICO.  
2001-2002**

<b>EMPRESA</b>	<b>REPRESENTANTE</b>	<b>TELEFONO</b>
<b>Sandias Mexicanas, S.P.R. de R.I.</b> Emiliano Zapata No. 23-A Los Altos Tecomates. CP. 48945 Mpio. De Casimiro Castillo, Jalisco	Sr. Arturo Medina Vizcaíno Presidente Consejo de Administración	01 (357) 386 50 66 386 50 88 386 51 93 <a href="mailto:sandimex@mexico.com">sandimex@mexico.com</a>
<b>Rincón Exportadora</b> Independencia No. 33 Los Tecomates CP. 48945 Mpio. De Casimiro Castillo, Jalisco.	Sr. Miguel Ángel Rincón Rodríguez Director General	01 (357) 386 52 43 386 52 54 386 52 43
<b>Julio Guillermo Rangel Godinez Rancho La Guacamaya</b> Altamirano No. 10 Col. Centro Casimiro Castillo, Jalisco.	Sr. Julio Guillermo Rangel Godinez Propietario.	01 (357) 388 00 73 388 00 73
<b>Francisco Guerrero Ochoa</b> Domicilio Conocido La Cruz de Loreto CP. 48450 Mpio. De Tomatlán, Jalisco.	Ing. Francisco Guerrero Ochoa Propietario	01 (322) 298 52 47
<b>Berrymex, S.A. de C.V.</b> Calle Juárez No. 21 Col. Centro Col. 45800 Jocotepec, Jalisco	Sr. Fidel Maza Selvas	01 (387) 763 0902 763 10 91 763 02 00 763 17 77 <a href="mailto:icgomez@berry.net">icgomez@berry.net</a>
<b>Agroindustria Hacienda La media Luna, S.P.R. de R.L.</b> Avenida José María Martínez No. 1420 Tamazula de Gordiano, Jalisco.	Ing. Jorge del Toro Moreno Presidente Consejo de Administración	01 (358) 411 45 04 416 09 55 01 (33) 36 84 23 20
<b>Bonanza 2001, S.A. de C.V.</b> Calle Daniel Larios No. 216 Colonia San Miguel CP. 49300 Sayula, Jalisco.	Srita. Martha Leticia Jiménez Cárdenas Directora General	01 (342) 422 03 90 422 02 35 422 03 81 <a href="mailto:bonanza@prodiqy.net.mx">bonanza@prodiqy.net.mx</a> <a href="mailto:bona2001@prodiqy.net.mx">bona2001@prodiqy.net.mx</a>
<b>La Urraquiza, S.A. de C.V. Empaque Rancho Alegre</b> Km. 6 carretera Sayula -Cd Guzmán CP. 49300 en Usmajac, Jalisco.	Ing. Alfonso Aréchiga Guzmán Director General	01 (342) 421 00 35 422 08 76 421 11 08
<b>Siglo Agroindustrias, S.A. de C.V Empaque Santa Anita</b> Calle Constitución No. 289 Col. San Miguel CP. 49300 Sayula, Jalisco.	Lic. Vicente Aguayo Márquez Gerente General	01 (342) 421 03 84 421 05 12 421 05 19

<b>Agricultora del Sur, S.A. de C.V.</b> Km. 9 Carretera 4 caminos-Tolimán Rancho "El Oasis" Mpio. De Tuxcacuesco, Jalisco.	Sr. Antonio Salazar González Director General	01 (343) 433 61 10 433 61 11 <a href="mailto:agrosur@prodigy.net.mx">agrosur@prodigy.net.mx</a>
<b>Big Produce, S.A. de C.V.</b> Calle José Antonio Torres No. 34 CP. 49330 en Usmajac, Mpio. De Sayula, Jalisco.	Ing. Luis Fernando Cárdenas Chávez Administrador General	01 (342) 421 14 08 421 14 09
<b>Jihno's</b> Calle 11 No. 15-B Mercado de Abastos CP. 44530 Guadalajara, Jalisco.	Sr. Mauro Jiménez Iñiguez Director General	01 (33) 36 71 22 42 36 71 15 13 36 71 42 40 36 71 22 95 <a href="mailto:mauro_jimenez@terra.com">mauro jimenez@terra.com</a>
<b>Rancho J.D. Michel</b> Calle San Ignacio No. 5 Colonia Centro CP. 48680 Ejutla, Jalisco.	Sr. Jorge Díaz Michel Propietario	01 (343) 431 51 35 431 51 35
<b>Agrícola Cueto Produce, S.A. de C.V.</b> Calle Herrera y Cairo No. 5 Colonia Centro CP. 49300 Sayula, Jalisco	SR. Carlos Enrique Cueto Rodríguez Gerente General	01 (342) 421 09 08 421 08 03 <a href="mailto:acueto@sayula.podernet.com.mx">acueto@sayula.podernet.com.mx</a> <a href="http://www.agricolacueto.com">www.agricolacueto.com</a>
<b>Maria del Rayo Vázquez Bayod</b> Racho la Estación, Carretera Sayula-Cd. Guzmán a 100 mts. De la estación del FFCC CP. 49300 en Sayula Jalisco.	Carlos Ramón Fernández Vázquez Administrador	01 (342) 4 22 05 33 <a href="mailto:rlaestacion@hotmail.com">rlaestacion@hotmail.com</a>
<b>Agrícola Gova, S.P.R. de R.L.</b> Blvd.. Félix Ramírez Rentaría No. 691, Col. Centro, CP. 47430 en Lagos de Moreno, Jalisco.	Ing. Pedro Enrique González Valdéz Director General	01 (474) 741 10 05 741 10 04 <a href="mailto:gova@redaltos.com.mx">gova@redaltos.com.mx</a>
<b>Operadora Agrícola de Los Altos, S.A. de C.V.</b> Km. 12.5 carretera Lagos de Moreno-San Luis Potosí, CP. 47400 en Lagos de Moreno, Jalisco	Sr. Juan José Vega Guerra y/o CP. Marco Antonio Vega Guerra Directores Generales	01 (474) 742 32 52 742 39 32 741 17 23 <a href="http://www.opagri.com">www.opagri.com</a>
<b>Corte Colorado, S.P.R. de R.I.</b> Calle Zaragoza No. 73 Colonia Centro CP. 48850 en la Huerta, Jalisco.	Sr. Rafael Ochoa Arámbula Presidente.	01 (357) 384 07 20 384 07 22 384 00 10
<b>Nutrilite, S. de R.L. de C.V.</b> Avenida México No. 8 Rancho "El Petacal" CP. 49750 Municipio de Tolimán, Jalisco.	Sr. Roberto Vargas Maciel Director General	01 (343) 413 58 78 413 58 79 413 53 66 <a href="mailto:robertovargas@rodigy.net.mx">robertovargas@rodigy.net.mx</a>

<b>Camflor, S.A. de C.V.</b> Calle Mezquitán No. 974 Norte (frente entrada principal del Panteón de Mezquitán) CP. 44180 Guadalajara, Jalisco.	Javier Campos Verdeja Administrador General	01 (33) 38 23 94 47 (37) 37 34 50 54 37 34 51 33 <a href="mailto:camflorhig@terra.com.mx">camflorhig@terra.com.mx</a> <a href="mailto:camflor@avantel.net">camflor@avantel.net</a> .
<b>Invernaderos Pipon, S.A. de C.V.</b> Calle Juárez No. 51 interior 1-D Colonia Centro, CP. 47600 Tepatitlán de Morelos, Jalisco.	LCP. Ricardo Aldrete Barba Director General	01 (378) 781 55 55 781 55 71 781 56 19 <a href="mailto:invernaderopipon@prodigy.net.mx">invernaderopipon@prodigy.net.mx</a>
<b>Visaflor, S.A. de C.V.</b> Km. 17.4 carretera Tuxcueca – Mazamitla CP. 49460 en la Manzanilla de la Paz, Jalisco.	Ing. Rubén Hermosillo Tapia Director	01 (372) 435 01 12 435 01 11 <a href="mailto:rluna@visaflor.com.mx">rluna@visaflor.com.mx</a>
<b>Rancho el Paraíso</b> Km. 3 carretera San Gabriel – Los Ranchistos "Rancho El Paraíso" en San Gabriel, Jalisco.	Sr. Manuel Yañez Jiménez Gerente	01 (342) 427 00 86 (452) 527 14 07 Of. Uruapan M <a href="mailto:sales@paraisoflowers.com">sales@paraisoflowers.com</a> <a href="http://www.paraisoflowers.com">www.paraisoflowers.com</a>
<b>Rancho Calderon Productores de Flores, S.A. de C.V.</b> Calle Ramón Corona No. 84-A CP. 45600 Santa Anita, Mpio. De Tlaquepaque, Jalisco.	Arq. Mario Alberto Calderón Amador Director General	01 (33) 36 86 21 59 36 86 22 87 36 86 39 48 <a href="mailto:vivcald@prodigy.net.mx">vivcald@prodigy.net.mx</a>

**DIRECTORIO DE HORTICULTORES DEL ESTADO  
DE COLIMA**

## DIRECTORIO DE HORTICULTORES DEL ESTADO DE COLIMA

URY FRIDMAN  
RANCHO EL ALPUYEQUE  
TEL CEL 044 312 31 847 99  
CASA 31 4 95 65  
COLIMA

BRUN AGRICULTURE, S.A. DE C.V.  
ING. FERNANDO BRUN SOLORZANO  
CARR. VILLA DE ALVAREZ-MINATITLÁN KM. 2.3  
VILLA DE ALVAREZ, COL.  
TEL . (312) 3 16 07 00  
FAX. (312) 3 16 07 20  
R.F.C. BAG 980914 Q20

GRUPO LA RESERVA, S.P.R. DE R.L.  
LIC. FRANCISCO JAVIER DENIZ MACIAS  
NIÑOS HEROES NUM. 491,  
VILLA DE ALVAREZ, COL.  
TEL. (312) 3 13 81 10  
3 13 21 00  
R.F.C. GRS 960408 F65  
E.MAIL: reserva@prodigy.net.mx

DENIZ, S.P.R. DE R.L.  
LIC. JOSE ADAN DENIZ MACIAS  
AV. 20 DE NOVIEMBRE 374  
COLIMA, COL.  
TEL. (312) 3 13 28 07 OFICINA  
R.F.C. DSR 970906 KB7  
e. mail: denizsprderl@prodigy.net.mx

PEREZ HERMANOS, S.P.R. DE R.L.  
SR. FLORENTINO PEREZ ORTIZ  
REFORMA NUM. 473  
COLIMA, COL.  
TEL. (312) 3 12 98 34  
044 312 59 36 918  
R.F.C. PEOF

JESÚS ESPIRITU  
RANCHO LAS HIGUERAS

SR. FELIPE MICHEL RUIZ  
5 DE MAYO NUM. 234,  
COLIMA, COL.  
TEL. (312) 3 12 02 86  
3 12 10 01  
R.F.C. MIRF 400205 FQ6  
e.mail:

FATIMA'S COLIMA, S.P.R. DE R.L.  
SR. JOSE VERDUZCO MORENO  
SR. SERGIO VERDUZCO MORENO  
KM. 1.5 CARR. COLIMA-MANZANILLO  
TELS. (312) 3 14 86 25  
3 13 67 00  
EMPACADORA (312) 3 3040 80  
F.R.C. FCS 971023 358  
e.mail: kalvin08@hotmail.com

ANGELES DEL INFIERNO, S.P.R. DE R.L.  
SR. OCTAVIO GARCIA  
JOSEFA ORTIZ DE DOMINGUEZ NUM. 165,  
VILLA DE ALVAREZ, COL.  
TEL. (312) 3 11 66 50  
3 11 66 51  
044 312 31 7 28 87  
R.F.C. AIN-990831 L83

CRISPIN GUTIERREZ MORENO  
HIDALGO NUM. 80  
IXTLAHUACAN, COL.  
TEL. PART. (313) 3 24 92 01  
EMPACADORA 01 313 32 490 35  
FAX 01 313 32 4 91 77  
CEL 044 312 31 1 95 23  
e.mai.: rodrigo630812@hotmail.com

JUAN JOSE VIRGEN ARCEO  
IXTLAHUACAN, COL.  
01 313 32 0 88 22  
01 313 32 4 92 26 CASA  
TEL. (313) 3 24 90 35 EMPACADORA

ING. GERMAN VIRGEN VERDUZCO,  
BENITO JUAREZ NUM. 35  
IXTLAHUACAN, COL.  
TEL (313) 3 24 90 32  
044 312 32 0 39 01  
01 313 32 490 84 CASA  
EMPACADORA 01 313 32 490 35  
FAX 01 313 32 4 91 77

PREENFRIADOS DE COLIMA  
MANUEL LASTRA MACOSAY  
TEL 31 456 56  
CEL 044 312 30 401 52

STARR DE MEXICO, S.P.R. DE R.L.  
ING. CESAR RAMIREZ GUERRA  
KM. 36+400 CARR. COLIMA-MANZANILLO,  
TEL. (313) 3 24 34 70  
TECOMAN, COL.  
R.F.C. SMS 920714 JG7  
e.mail: cristiel7@netscape.net

RAMA INTERNACIONAL, S.P.R. DE R.L.  
C.P. ALFONSO GONZALEZ PARADA  
16 DE SEPTIEMBRE NUM. 348,  
TECOMAN, COL.  
TEL. (313) 3 24 33 22  
3 24 37 44  
RFC RIS 960319 AY2  
e.mail: rama@volcan.ucol.mx

GRUPO PAULMEX, S.A. DE C.V.  
SR. TOMAS PAULIN NAVA  
KM. 39 CARR. COLIMA-MANZANILLO,  
TEL (313) 3 24 67 00  
3 24 02 42  
CASA 330 42 56  
RFC. GPS 900915 9L7



ELIAS MARTINEZ, S.P.R. DE R.L.  
ING. ELIAS MARTINEZ DELGADILLO,  
CHAVEZ CARRILLO NUM. 605,  
COLONIA TEPEYAC,  
TECOMAN, COL.  
TEL. 01 (313) 3 24 26 98  
01 313 32 4 32 16  
CASA 01 313 32 5 35 45  
ENRIQUE 01 313 32 2 71 78  
RFC. EMS 960716 QI9

MIGUEL PEREZ ORTIZ  
CONOCIDO LAS GOLONDRINAS,  
COLIMA, COL.  
TEL (312) 3 20 92 50

EXPORTADORA E IMPORTADORA COLIMAN, S.A. DE C.V.  
SR. CUSTODIO AGUILAR MALAGA,  
KM.3 CARR. TECOMAN-LA FLORESTA,  
TEL. (313) 3 24 00 29  
3 24 31 19  
32 458 89  
32 43240

DR NUÑES 01 313 32 901 27  
TECOMAN, COL.  
R.F.C. IEC 981211 5J6

SUCURSALES:  
LIC. ERIKA BUSTAMANTE VAZQUEZ  
HERMOSILLO, SON. (01662) 2181721 e.mail: ffnebu@hmo.megared.net.mx  
ING. VICTOR AGUILAR HEREDIA  
NEXICALI, BC. (01 686) 5542494  
FAX: (01 686) 5541811 e.mail: [ftecoman@telnor.net](mailto:ftecoman@telnor.net)

GILBERTO CRUZ PEREZ,  
MATAMOROS NUM. 604  
BALVINO DAVALOS NUM. 19,  
TECOMAN, COL.  
TEL (313) 3 24 11 99  
R.F.C. CUPG 280228 BV3

ERNESTO RODRIGUEZ DE LA FUENTE,  
CALZADA INDEPENDENCIA NUM. 535 "B"  
COL. ANTONIO SALAZAR,  
TECOMAN, COL.,  
TEL (313) 3 24 32 50  
3 24 24 30 FAX  
3 24 32 21

R.F.C. ROFE 360217 DJ0  
e.mail: frutaselectas@hotmail.com

(AGRICOLA LA ILUSION, S.A. DE C.V.)  
REYNALDO ZARAGOZA MAGAÑA ZAMR 580106-UM0  
EJIDO NUM. 75,  
COL. SAN ISIDRO,  
TECOMAN, COL.  
TEL (313) 32 4 24 06 FAX  
R.F.C. AIL 960326 MM9

JAVIER MORENO CONTRERAS  
KM.1 CARR. TECOMAN-EL REAL,  
TECOMAN, COL.  
TEL. (313) 3 24 36 66  
3 24 12 55  
R.F.C. MOCJ 461221 7J5  
e.mail: aceitesesenciales@prodigy.net.mx

LOZANO FARM, S.P.R. DE R.L.  
JESUS SALAZAR CEL. 01(313)3291631  
LAGOS DE ZAPOTLAN NUM. 40  
FRACC. SAN CARLOS,  
TECOMAN, COL.  
TEL (313) 3 24 68 99  
R.F.C. LSA 000729 F53

RANCHO EL COYOTE, S.P.R. DE R.L.  
HONDURAS NUM. 540,  
MADRID, COL.  
TEL (313) 3 26 02 30'  
R.F.C. RCS 990121 7G9

AGROMEXICANA, GAYTAN, S.P.R. DE R.L.  
MIGUEL ANGEL GAITAN URIBE (PROPIETARIO)  
FRANCISCO JAVIER FLORES HERNANDEZ (EMPACADORA)  
MATAMOROS NUM. 604  
TECOMAN, COL.  
TEL (313) 3 24 35 54  
3 24 36 42  
R.F.C. AMG 990805 FR6

RANCHO EL PROGRESO DE ARMERIA, S.P.R. DE R.L.  
JOSE ANTONIO COVARRUBIAS  
MANUEL ALVAREZ NUM. 210  
ARMERIA, COL.  
TEL (313) 3 22 05 60  
01 313 32 200 60  
R.F.C. RPA 990831 EI6  
e.mail: rangreso@tecoman.ucol.mx

ING. HECTOR ADOLFO RAMIREZ SALVATIERRA  
FRANCISCO I. MADERO S/N,  
EL CHAVARIN, COL.  
MANZANILLO, COL.  
TEL (315) 3 55 34 78 MAMA  
01 315 35 530 22 CASA  
01 315 35 524 08 PAPELERIA  
01 315 35 537 36 OFICINA  
01 314 35 319 54 CELULAR

DEFAGOZ, S.P.R. DE R.L.  
SR. ROBERTO GONZALEZ JIMENEZ,  
FRANCISCO I. MADERO NUM. 13,  
PUEBLO JUAREZ, COL.  
TEL (312) 3 21 80 32  
R.F.C. DES 001107 NH4

ROGELIO (ROY) DOMÍNGUEZ LEAL  
PRODUCTORA MELONERA TRES HERMANOS  
TEL 767 67 10 110  
D/C RANCHO ROSITAS TECOMAN COLIMA

RIGOBERTO PEREZ CASTAÑEDA  
AQUILES SERDAN, S.N.  
CONOCIDO LAS GOLONDRINAS, COL.  
TEL (312)3 20 92 50  
CEL 044 312 31 048 10

ING. JOSE LUIS DURAN VALDIVIA  
LIC. FERNANDO CARDENAS MORALES  
PRODUCCION DE PLANTULA  
TEL. VIVERO 32 092 09  
FAX 31 424 89  
CASA 31 301 05  
AVECAFE@HOTMAIL.COM

BUENAVISTA FARM, S.P.R. DE R.L.  
ANTONIO MONTES NUM. 425 NORTE  
TECOMAN, COL.  
TEL(313) 3 24 43 63  
CAMINO CUARTA BRIGADA S/N  
IRAPUATO, GTO.  
TEL (462) 2-50-81 Y 2-50-83

MODESTO GAYTAN RODRIGUEZ  
BASILIO VADILLO NUM. 966,  
COLONIA UNION,  
TECOMAN, COL.  
TEL (313) 3 24 68 05  
R.F.C. GARM 541230 P78

PRODUCCION AGRICOLA GENERAL LEE CHOI FARM SA DE CV  
KM 4 CARR AL ESPINAL  
3123026352 OFICINA  
044 312 59 362 09 JUAN  
044 312 31 09475 CHOY  
31 162 04 JINA 5 EN DELANTE  
diosesbueno@hotmail.com

HUASTECA INTERNACIONAL PRODUCE, S.A. DE C.V.  
ING. OSCAR PEREZ INGUANZO  
CAMOTLAN DE MIRAFLORES, COL.  
TEL (315) 3 34 91 83  
CALLE: PUEBLA NUM. 403-4  
COL. GUADALUPE,  
TAMPICO, TAMPS.  
TEL (833) 2 13 28 80  
2 17 13 61  
2 17 13 66  
R.F.C. HIP 981006 R56  
e.mail: orti@infosel.net.mx

HORTALIZAS DEL RENACIMIENTO, S.A. DE C.V.  
SR. FERMIN GONZALEZ RODRIGUEZ  
CHAVEZ CARRILLO NUM. 605  
COLONIA TEPEYAC,  
TECOMAN, COL.  
TEL (313) 3 24 26 98 Y 432 16  
R.F.C. HRE 000927 KX0  
e. mail: delucila@hotmail.com

ING. JOSE LUIS ZAMORA SANCHEZ  
FLORES E INVERNADEROS ZAMORA  
TEL 33 36 77 11 11  
ALCARACES COLIMA

BIOGERMEN  
ING. ANTONIO GONZALEZ IÑIGUEZ  
TEL 3950115 CASA  
CEL 312 31 7 29 53

FLORICULTURA MEXICANA DE OCCIDENTE  
ING. JOSE DIAZ ESTRADA  
KM 10.5 CARR QUESERIA EL NARANJAL  
TEL CASA 31 343 42  
Jose diaz estrada @hotmail.com

MARTÍN GONZALEZ RAMÍREZ  
30 863 553  
CEL 044 312 319 50 56

SERGIO ELIAS MICHEL  
317 388 5410

ADRIAN RODRÍGUEZ PALACIOS  
01 315 35 527 36

JULIO CESAR VILLASEÑOR ARAIZA  
01 315 35 52662  
CEL 01 315 35 308 62

RAFAEL HOSNAYA PALOMINO  
INVERNADERO EL LABRADOR  
TEL 31 14750

DESERT GLORY MEXICO, S. DE R.L. DE C.V.  
PREDIO COPALITOS KM. 5.5. LA CAJA  
VILLA DE ALVAREZ, COL.  
TEL. PLANTA (3) 3 15 60 51  
                                  3 15 60 52  
                                  3 15 63 01  
                                  3 15 62 02  
FAX.                          3 15 63 03  
R.F.C. DGM 931220 HW3  
ING. ARTEMIO VALADEZ LOPEZ  
e.mail: valadez33@hotmail.com

HORTALIZAS Y MELONES DE PAILA, S.P.R. DE R.L.  
ING. JOSE LUIS GONZALEZ ROCHA  
CARR. FED. NUM. 40 KM. 535  
PAILA, COAH.  
R.F.C. HMP 980506 HD0

GRUPO AGRICOLA SAYULENSE, S.A. DE C.V.  
AVILA CAMACHO 12 C  
TEL . SAYULA, JAL. (342) 4 22 18 35 CASA Y 116 35 CEL 341 43 90 258  
R.F.C. GAS-010803-542

COLIMA, COL., MAYO 7 DEL 2003