FRIDAL F. TAREK ABOUBAKR & CO. 6th of October City, 2nd Industrial Zone, St. 18/81, Block 13 &14, Giza - 12566 - Egypt.

Tel: (+202) 38202797

Mob.: +20 100 540 2940

Tel: (+202) 38202797 Mob.: +20 100 540 2940 Fax: (+202) 38202867 www.fridalegypt.com www.fridalehs.com



It started with a dream and grew with faith & hard work





Fridal is a privately owned Egyptian company established in 1957 with its headquarters located in 6th of October city.

With five processing plants, over 800 employees and 3000 Feddans of privately owned land cultivated all over Egypt, Fridal is specialized in the fields of Flavors & Fragrances, Herbs & Spices, Essential Oils, Processed Food, Absolutes & Concretes, Natural Extracts and Chemicals.

Throughout the past fifty years, Fridal has gained the experience to establish and boost its remarkable share in the Egyptian market and become a major supplier to a number of countries in the international markets.

The company started by growing Aromatic plants in the fifties in response to the increasing demand for essential oils, specifically Geranium by all overseas buyers. Accordingly, Fridal became one of the biggest producers & exporters of essential oils and Concretes as well as some Herbs & spices.

As a result, Fridal found itself fully involved in the perfumery world which led to a deeper interest in growing floral plants for concretes & absolutes. it was then that Fridal increased its activities by producing perfumes, flavors & fragrances in the early eighties. Throughout the following ten years Fridal expanded its range of products in all its divisions. It also became one of the major producers & exporters of Herbs & Spices especially to the United States of America.

Fridal continued to grow significantly and expanded its divisions, facilities and lands in a vision to be independent of market turbulences and self supply most of its raw materials.

Today, Fridal is a major supplier of a wide range of products and offers an outstanding worldwide service. It has also started its expansions within the retail market through processed food & household products.











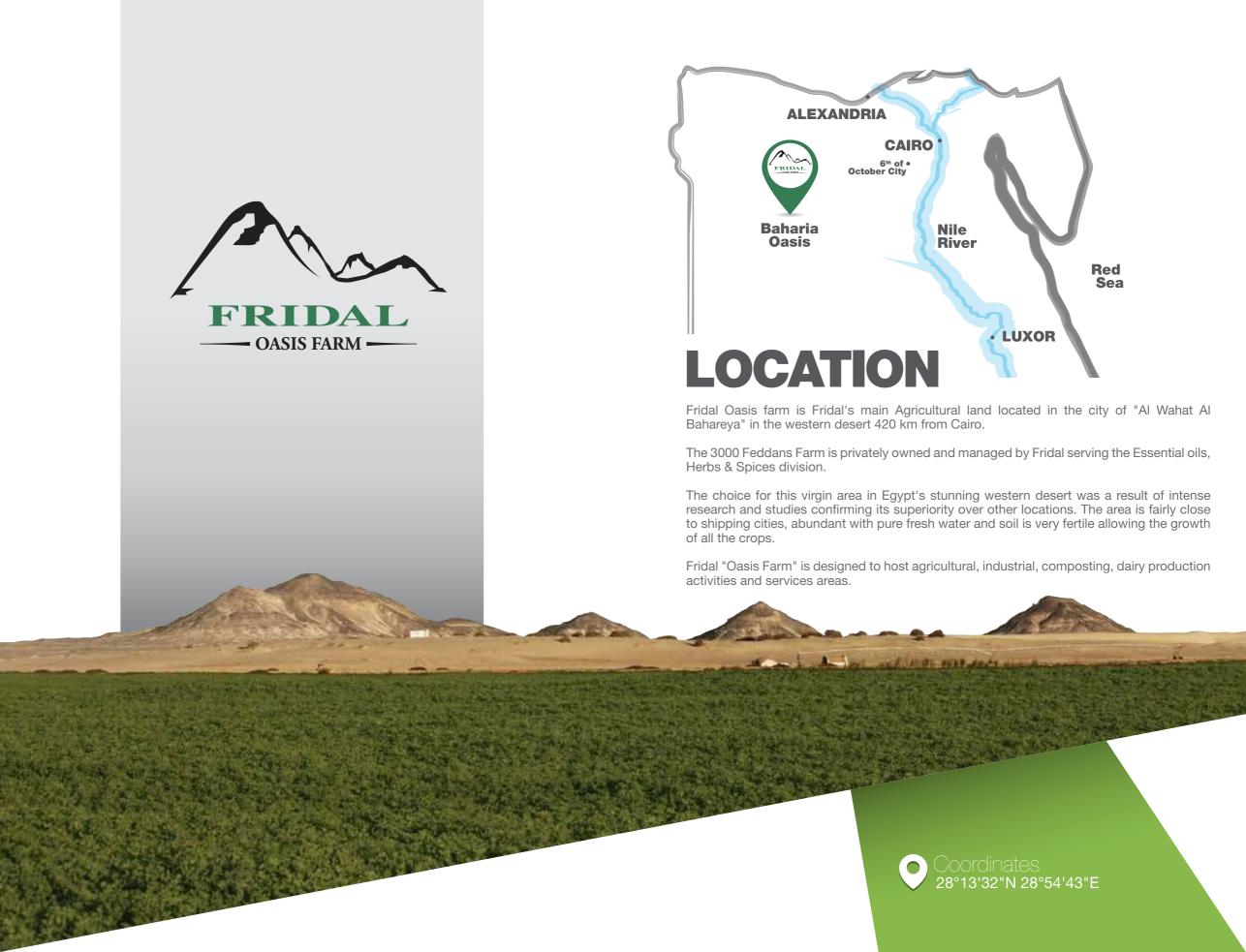














Everyone was questioning the effort and the investment done in such a project with all it's modern agricultural technology and the details involved. "We've always faced problems with quality, price and commitment when relying on the market, which was the main reason why we decided to be self sufficient and build our long awaited dream." says Tarek Abou Bakr Fridal's CEO.

"Sustainability, Social Responsibility & Clean agriculture are three challenges defining the game today. It's not propaganda, everyone is concerned about his clients' satisfaction and his reputation. You cannot risk it all and rely on the market" continues Tarek.

Fridal uses 38 solar energy pumps to pump underground water from wells into elevated central reservoirs where it is controlled and treated. Irrigation then takes place assisted by gravity which saves a lot of energy.

The fields are then irrigated using the technologies of "Center Pivot system" and "Drip irrigation system". This prevents huge losses in water caused by the traditional flood irrigation method used all over Egypt.

Land conditions are automatically monitored and controlled through a sophisticated weather station that provides results required to maintain a healthy and stable plant condition.

"Our vision mainly embraced the responsibility towards the environment by 'going green' and introducing the use of alternative energy."

Our sustainable ambitions were continued through building a fully equipped residential village hosting 300 people using materials from the surroundings and energy efficient architecture.

Early in 2013 Fridal started processing through the new facility built in the farm, serving the divisions of Essential Oils, Herbs & Spices.

This facility is designed to accommodate 19 distilleries with a capacity of 2 Tons each, 2 big dryers with a daily capacity of 5 Tons of dried herbs each as well as a complete cleaning & packaging line to guarantee a final sterile product with minimal human interference.



Essential Oils, Absolutes & Concretes

An essential oil is a pure concentrated liquid containing volatile aroma compounds found in plants. Essential oils are also known as "volatile oils". "ethereal oils" or simply as the oil of each distinctive plant from which they were extracted.

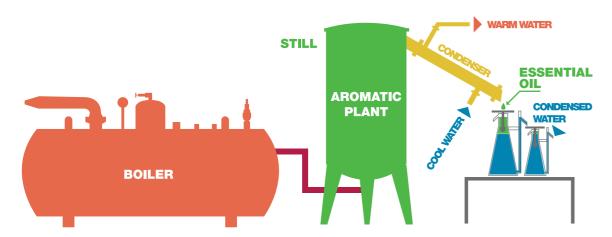
The naming of "essential" oil comes from the sense that it carries a unique and distinctive scent, or essence, of the plant. Essential oils do not form a distinctive category for any medical, pharmacological, or culinary purpose.

Fridal became interested in the production of essential oils due to its various uses in Flavors & Fragrances and Medical applications.

Relying on its lands, labs, facilities & distillation units owned in 6th of October city, Banisweif & Western desert, Fridal cultivates most of its products and extracts them using "Steam distillation" which is the main technique used to distill most of the aromatic plants in Egypt. Both distillation facilities owned by Fridal include a complete solvent extraction unit to extract oils of jasmine and other delicate products.

Today, Fridal is working on introducing new varieties of essential oils to the Egyptian market by growing foreign species that can adapt to the climate in Egypt.

Steam **Distillation**



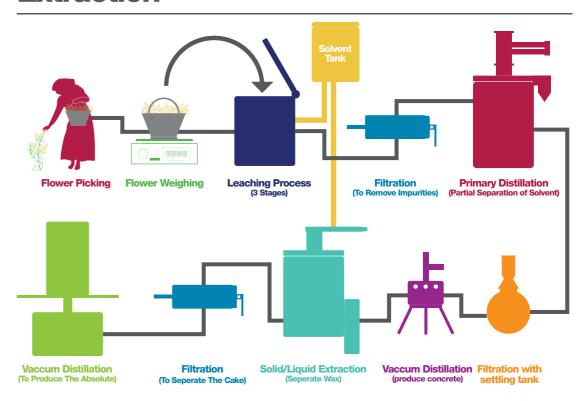
During "Steam Distillation" which is the process used for manufacturing and extraction of essential oils, the botanical material is placed upon a grid inside the still. The still is then sealed and steam is forced over the material. Steam then slowly breaks through the plant, flower or seed to remove its volatile constituents. The hot steam helps to release the aromatic molecules from the plant material since the steam forces open the pockets in which the oils are kept in the plant material.

The molecules of these volatile oils then escape from the plant material and evaporate into the steam.

The volatile constituents then rise through a connecting pipe leading them into a condenser. The condenser filled with cold water from a cooled water source starts cooling the rising vapor back into liquid form. The liquid is then collected in a vessel below the condenser. Since the water and essential oils do not mix, the essential oil will be found separated on the surface of the water where it is siphoned off. Occasionally an essential oil is denser than water and is found on the bottom rather than the top.

The temperature of the steam needs to be carefully controlled - just enough to force the plant material to let go of the essential oil, yet not too hot as to burn the plant material or the essential oil. This temperature of course differs from a plant to the other and is controlled by controlling the distillation period.

Solvent **Extraction**



As for the "Solvent Extraction" technique used to extract oils from flowers that are of high delicacy and cannot be distilled using steam distillation the process is simply as follows:

Solvent extraction involves the use of oil-soluble solvents such as hexane. The use of solvents gives a higher yield and also keeps the more water-soluble components intact, which would otherwise be lost in distillation.

Extracts from hexane and other hydrophobic solvents are called concretes, which are a mixture of oil, waxes, resins, and other lipophilic (oil soluble) plant material. Although highly fragrant, concretes contain large quantities of non-fragrant waxes and resins. Often, another solvent, such as ethyl alcohol, which is more polar in nature, is used to extract the fragrant oil from the concrete. The alcohol is removed by evaporation, leaving behind the absolute.

Here is an example of solvent extraction in jasmine flowers. Jasmine flowers are picked by hand early in the morning and extracted as soon as possible by hexane or other volatile solvents. The flowers are delicately immersed in the solvent in a multi stage process called "Leaching". The extract is known as concrete, after removal of the solvent; it is a very colored, sometimes brownish, waxy mass. The "fragrant oil", or rather the more soluble components contained in this waxy concrete, are extracted by warming it with absolute ethanol at 40-50 degrees C and then by chilling to -5 to -12 degrees C to precipitate out the waxes. The resultant filtrate, separated by filtration, is called 'absolute' after recovery of the ethanol by distillation under reduced pressure. These absolutes are normally colored as they still contain pigment and often have a mild proportion of waxes.

Essential Oils Product List



Aloe vera Oil

Anise Oil

Basil Oil (Linalool)

Basil Oil (Methyl Chavicol)

Caraway Seed Oil

Cassie Absolute

Chamomile Oil Blue / Concrete

Coriander Herb Oil

Cumin Seed Oil

Cypress Oil (Monterey)

Dill Weed Oil

Fennel Oil Bitter

Fennel Oil Sweet

Geranium Oil

Jasmine Absolute & Concrete

Lemon Grass Oil

Lemon Petitgrain Oil

Mandarin Petitgrain Oil

Marjoram Oil

Nigella Sativa Oil (Black Cumin)

Orange flower Absolute

Parsley Herb Oil

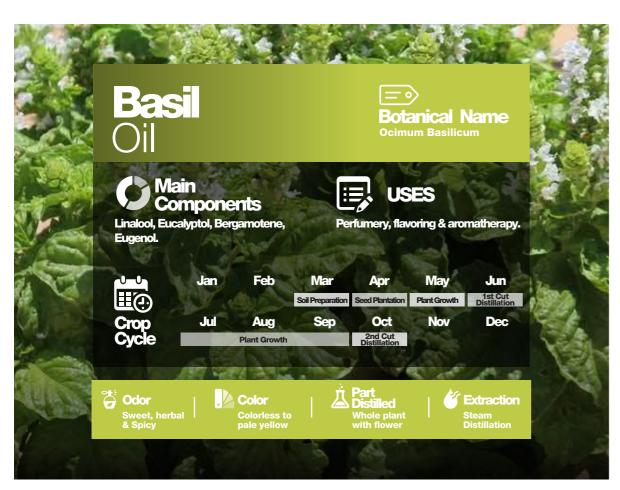
Rosemary Oil

Sesame Oil

Tagetes Oil

Violet Absolute

Zanthoxylum Oil



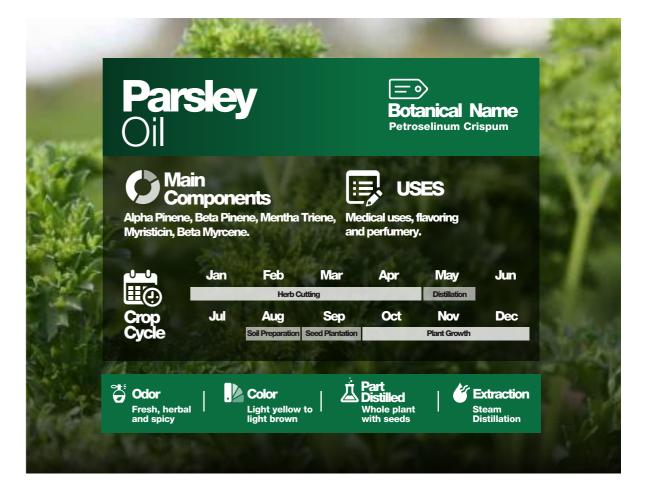


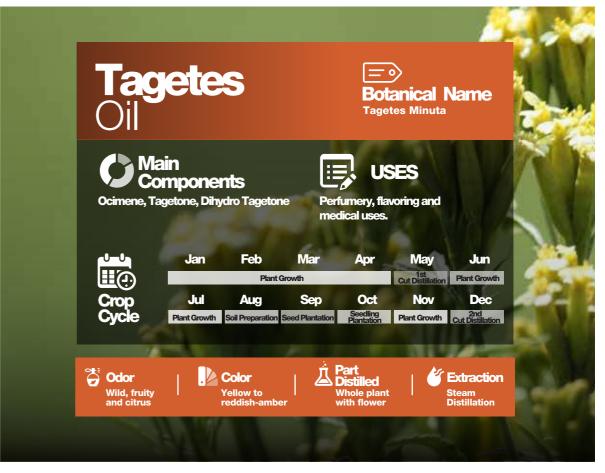












Crop Calendar

The Crop Calendar is a tool that provides timely information about each plants cycle of growth to promote local crop production and guide consumer to the best time of purchasing a fresh and cheap product.

Through out the past 20 years the world has witnessed remarkable changes in the climate all over the globe.

This in turn affected the known growth cycle of each crop shifting the seasons of plants activity according to the area.

Today we have plotted our own most up to date calendar depicting the crop time "For essential oil extraction" of each product.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Marjoram		• Chamomile	ParsleyCuminTagetes	MarjoramJasmineGeranium	• Jasmine	• Jasmine	Marjoram Jasmine	GeraniumBasilJasmine	• Jasmine	TagetesJasmine



Herbs & Spices



The use of many herbs and spices can be found as far back as prehistoric times especially in the ancient Egyptian era.

Its use has mostly been in the form of seasonings for medicinal properties and as preservatives in food storage.

Nowadays it's mostly used all over the world to flavor food in different cuisines.







The terms herb and spice are often used interchangeably, but they are in fact two distinct types of seasonings, made from different sections of plants and processed in different ways.

Spices are made from the aromatic seeds, bark, flowers, and roots of plants that have been dried and crushed. While herbs are the green, leafy parts of plants mostly coming from herbaceous plants (plants that lack woody stems), a very few of them do come from woody plants.

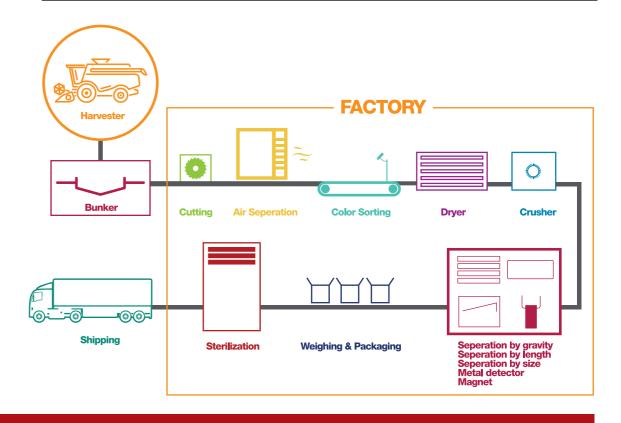
Spices tend to be stronger in flavor than herbs, because they are made from crushed portions of plants that are especially rich in essential oils. Herbs can be found either fresh or dried, chopped or whole.

With the growing competition and tighter regulations set everyday on quality it was inevitable that Fridal reacts quickly. This is when the mentality of growing as a trader completely changed to being "Self-sustainable".

Fridal is now growing over 75 percent of its products in its own land managed by a highly qualified team and using environmentally up to date equipment.

Owning three top notch facilities for Herbs & Spices in Banisweif and Al-Wahat Areas Fridal always supplies a high quality competitive product.

Herbs Production Process



Herbs Spices Product List



BASIL

Whole - Fine - Ground

CARAWAY

Ground - Whole

CHAMOMILE

Flower - Ground

CILANTRO

Flakes - Granules - Cracked

CUMIN

Ground - Whole

DILL WEED

Powder - Leaves

FENNEL

Whole - Cracked - Ground

HIBISCUS

Whole - Flower - Powder

MARJORAM

Whole - Granules - Ground

OREGANO

Leaves - Ground

PARSLEY CURLY

Flakes - Granules - Powder

PARSLEY FLAT

Flakes - Granules - Powder

PEPERMINT

Crushed - Whole

ROSEMARY

Leaves - Crushed

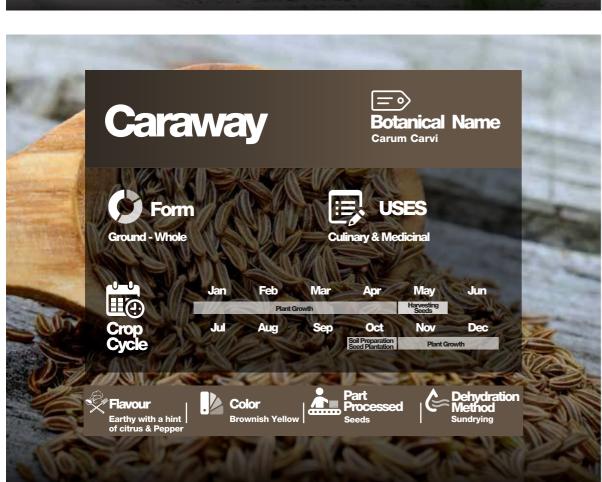
SPEARMINT

Crushed - Whole

THYME

Leaves - Crushed



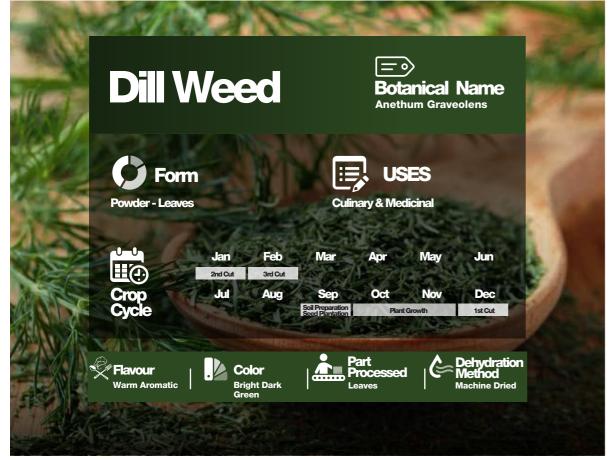








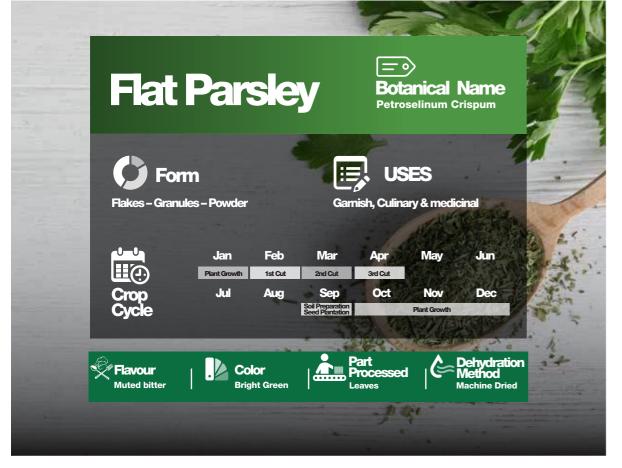








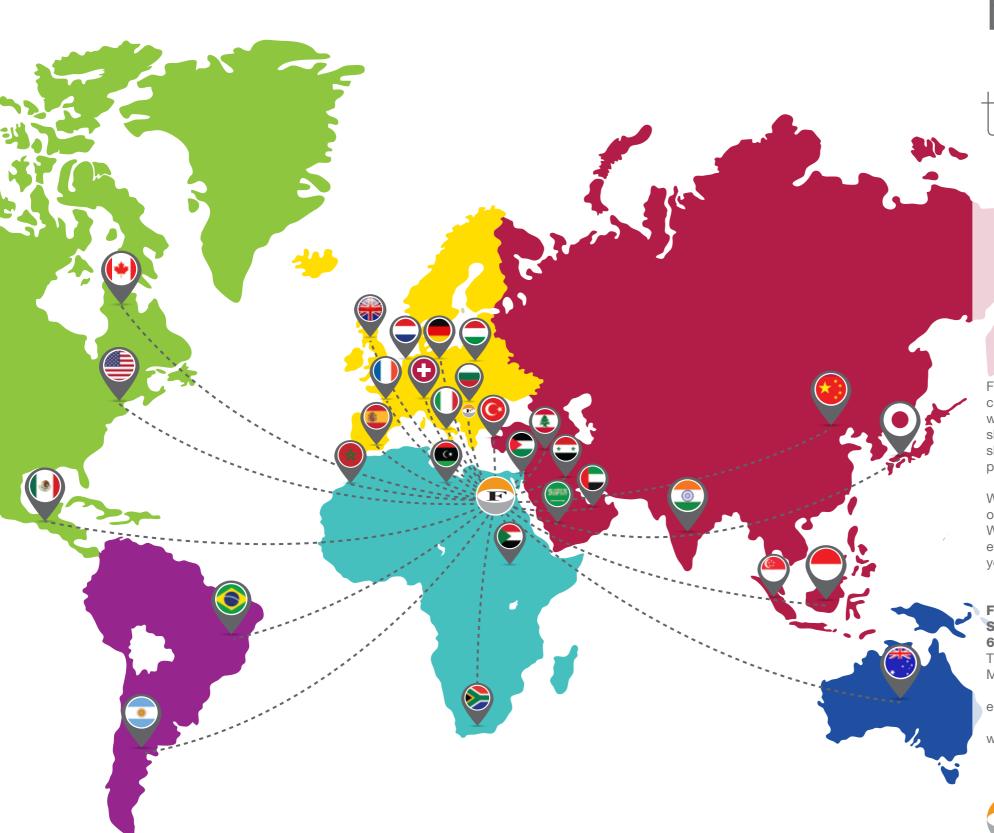






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N. Ass		
	Cilantro 2nd cut ———	Jan
	Dill Weed 2nd cut ——	
	Cilantro 3rd cut ———	
- Established	Dill Weed 3rd cut	П
	Parsley 1st cut ———	Feb
Land of the Market	Chamomile 1st cut —	
S. M. M.		
9484	Parsley 2nd cut	
	Chamomile 2nd cut —	Mar
	Spearmint 5th cut ——	=
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	Parsley 4th cut ———	
	Marjoram 1st cut	
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340	Spearmint 1st cut —	May
	Cumin harvest ———	
	• Fennel harvest —	
	Caraway harvest	
	Basil 1st cut	Jun
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一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	Cilantro 1st cut	Dec
808	Dill Weed 1st cut	90



Exporting all over the World

Fridal's client list covers more than 30 countries all over the world. whether its a truck, sea or an air shipment, Fridal always relies on superior shipping service providers with the best prices.

We are honored to have partnerships all over the world with our cherished clients. We also have our distributors and agents everywhere and would be glad to serve you through the following contacts:

Fridal F. Tarek Abou Bakr St.18/81, 2nd Industrial Zone 6th of October city - 12566 - Egypt

Tel: (+202) 38202797 Mob: +20 100 540 2940 +20 100 102 7778

e-mail: export-eo@fridalegypt.com

amr.aboubakr@fridalegypt.com

website: www.fridalegypt.com www.fridalehs.com

