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HELPING SRI LANKA TO GROW!

AgEnt is a dynamic USAID funded private sector agro-enterprise development initiative successfully assisting companies and entrepreneurs with viable business/marketing plans to expand existing operations or start-up new ventures targeted at both domestic and export markets.

Issue No. 15 from AgEnt's business,
production, processing and
marketing information center.

POTENTIAL "HILL COUNTRY" HIGH VALUE EXPORT CROPS PRODUCTION TRIALING AND TEST MARKETING WORKSHOP

**30TH MARCH 1994, GRAND HOTEL
NUWARA ELIYA**

**AgEnt's marketing/agro-processing
division and Business Information Center
has prepared this selected
range of "up to date" trade magazine
articles/price illustrations
in support of
the above workshop.**

Prepared by:

**Anthony Dagleish - AgEnt
International Marketing/
Agro-Processing Advisor**



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Potential "Hill Country" High Value Export Crops Production Trialling and Test Marketing Workshop

GRAND HOTEL, NUWARA ELIYA

9:30am : 4pm

Wednesday 30th March 1994

Background

AgEnt is a dynamic USAID funded private sector agro-enterprise initiative assisting many clients with viable business/marketing plans to expand existing operations or start-up new ventures targeted at both domestic and export markets.

In addition to the above advice/assistance program offered to clients at an individual level, AgEnt currently has in hand a large number of pro-active potential export crops trialling/test marketing programs throughout the country.

As AgEnt has now commenced crop trialling a number of high value export vegetable crops in the Nuwara Eliya region, this workshop represents the ideal opportunity for AgEnt to explain to growers/plantation companies/exporters the level of advice/ assistance which the project can offer the private agro-enterprise sector if the inhand crops trialling/export test marketing program proves successful.

The Workshop Will Be Led by a Leading International Specialist in High Value Export Vegetables

The key workshop speaker will be David Brandon who has spent 39 years in crop production, with the last 16 years devoted in the main to the "planning/growing/harvesting/handling/cooling/packing/shipping/marketing" of fruit and vegetables targeted at selected European markets.

David Brandon will be supported by a line-up of other key speakers from the Sri Lankan exporter, horticulture research and development etc. sectors.

Workshop Registration

Identities wishing to attend this important export production trialling/test marketing development workshop should notify in writing -

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AgEnt Project
5th Floor, Deutsche Bank
86 Galle Road, Colombo 3
Fax: 446428 Tel: 446447, 446420

by not later than Wednesday 23rd March 1994, and if they are a farmer/ grower to indicate in their letter the size of their existing production unit and range of vegetables presently grown. If registration numbers exceed the seating capacity for this workshop, AgEnt will arrange to run this selfsame workshop again at a later date. Refreshments and light luncheon snack will be provided throughout the day.

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INTRODUCTION

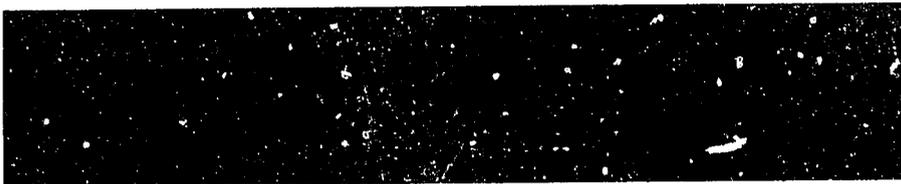
AgEnt has selected/reproduced the material in this document for the following key reasons i.e. It illustrates to existing and potential Sri Lankan fresh and processed food product exporters -

- A. How other countries with a similar integrated growing climate are "making it happen" with a wide range of high value export crops in particular; and the "highly competitive/price sensitive" nature of a number of other crop sectors.

- B. The typical information/data resource base which is available for "open review/study" by anyone visiting AgEnt's BIC/Business Information Center.



Agrexco has been one of the prime movers in introducing a host of exotics to the British market scene.



EXOTICS remain the fastest growing sector of the fresh produce market as consumers look to new products and are prepared to pay for them and try them, despite the recession. According to market research by AGB, sales of exotics have improved by 20 per cent so far this year and

look set to perform even better once an economic upturn arrives.

Defining what is exotic is still difficult in view of the broader range of all produce on offer throughout the year. At the same time, many of the fruits and vegetables present challenges and risks to producers,

importers and traders alike. Opportunities presented have been taken up, however. **Steve Woodhouse**, of Geest Tropical Produce, believes great potential exists to push the fun side of exotic lines: "Really we are talking about tropical lines which have excitement value, good nutritional and health benefits and more accessibility than ever before. As such, they are a growth area in fresh produce."

The biggest movers have been avocados and kiwifruit which have entered mainstream trading - the avocado still retaining promise but kiwifruit now in over production. Greater availability in these lines has brought volume on offer over 12 months of the year and an increasing number of suppliers. Prices in the High Street are now at very affordable levels and consumers have the opportunity to experiment with the fruit.

For other exotics this position has not yet been achieved, however. Rambutans, lychees and mango-steens are prime examples. While

these are now available over a longer period than a decade ago, they are still not on offer throughout the year and, as a result, prices remain relatively high.

The price and novelty factor of exotics continues.

To an extent this can be addressed by new sources of supply coming into play to fill gaps in the supply calendar. However, this is only part of the story. A reliance on air freight which is still the norm for many exotics is probably the biggest factor influencing costs at retail level. As Mr Woodhouse points out, transportation of product can account for up to 50 per cent of costs, so prices at point of sale have to justify export in the first place.

Bearing this in mind, sea freight of product has been more closely examined and the last decade has seen tremendous strides on the technology front. Avocados, for example, can now successfully be exported by sea which has increased volumes available, extended seasons, brought prices down and helped boost consumption. With papaya, this position has yet to be reached.

Nevertheless many in the trade question whether this is the answer to greater penetration of the market. Sea freight often means that a product has to be picked immature in order to survive the journey and eating quality is now important. New technology can therefore ensure that the product reaches its destination in good condition but may not be what is wanted.

Exotics often sell because they offer unique flavour and appearance. If these are being sacrificed to ensure availability of volume, greater uptake by the consumer looking for something special will not always follow.

Much research continues to be placed on improving sea freight quality out-turn and there have been many successes but it is not an option for all exotics.

On the plus side, pre-ripened fruit is now offered to consumers on a more frequent basis. Sales of avocados and mangoes, for example, have risen appreciably as a result, while pineapples and other fruit have benefited.

Probably the biggest factor influencing the success or failure of an exotic is promotion, however. As the Fresh Fruit and Vegetable Information Bureau explains: "Promoting to the consumer clearly pays dividends as the growth in banana and mushroom consumption illustrates. The Banana Group's long running education campaign to position the banana as a healthy convenient snack has helped it

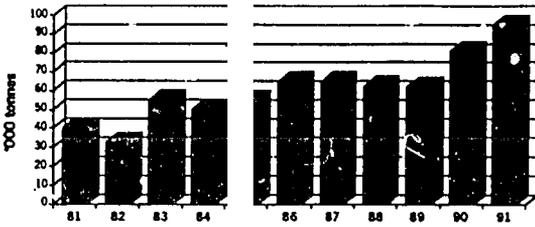
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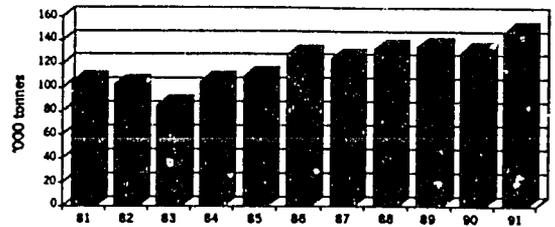
Ramesh Thakrar, of SMT, Western International, with a selection of up and coming exotics.

Total domestic consumption of speciality fruit and vegetables

SPECIALITY FRUIT

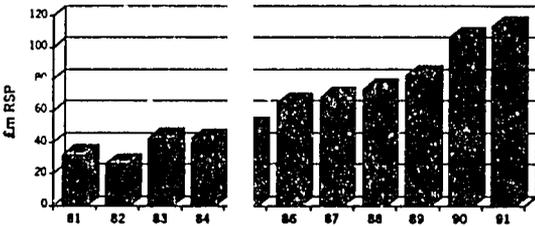


SPECIALITY VEGETABLES

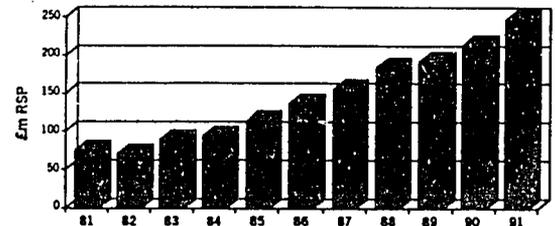


Total domestic expenditure on speciality fruit and vegetables

SPECIALITY FRUIT



SPECIALITY VEGETABLES



SOURCE: National Food Sur

FFVB Estimates

(continued from page 8)

become Britain's second most popular fruit, after apples. The Mushroom Growers' Association, again with a sustained advertising and promotional campaign, has succeeded in almost doubling the UK's consumption of mushrooms since 1981."

If product promotion can achieve these results for mainstream commodities the opportunity to realise the same for exotics is apparent though the same results may not necessarily be achieved.

Exotics sell because they are seen as being fun and capture the imagination of consumers wishing to try something different - in part brought about by more widespread travel and adventurous eating habits. They can be striking in appearance and offer a new sensation in taste while also offering the possibility of providing novelty to guests at dinner parties. If the consumer doesn't know how to prepare an exotic and how to use it, he/she is unlikely to buy it, however.

Many marketing boards and

progressive exporters have addressed this issue by producing recipe leaflets and organising in-store demonstrations and tastings. The result has often been increased sales and the consumer coming back for more.

Information on maturity and at which stage they should be eaten is of paramount importance in exotics which are usually brought to impress and can be a disaster if they fail expectations.

For example, in the early days of carambola's introduction product was all too frequently found on the retail shelf in a green condition which did little for sales. However, once riper and yellower fruit was provided, backed up by recipe leaflets, sales took on a new lease of life and, today, it is certainly one of the more successful exotics.

Speciality fruit and vegetables offer their challenges but can be very rewarding if tackled professionally and with the consumer in mind. Some will succeed and many may fail, but the mood of the fresh produce sector is one of looking for change.

'Exotics sell because they are seen as being fun and capture the imagination of consumers wishing to try something different'

MT, a family run business based in Western International and New Covent Garden markets, has grown to become a name synonymous with exotics.

It has a range extending into hundreds - with many falling in to the usually specialist category and, through specialist importers and close links with Rungis market, in Paris, has been instrumental in introducing lines to the trade which

otherwise might not have been seen.

It has not always been easy, however, as **Rodney Thakrar**, of SMT, Covent Garden, explains: "One of the biggest difficulties continues to be educating the buyer on what is available, how to prepare a product and then what to do with it. It is a slow and ongoing process which needs to be addressed time and time again and, in the early days, can cost money."

While there can be no doubt that avocados, mangetout, passionfruit and the like have caught the imagination of the UK trade and have seen their sales performance improve year on year, for smaller volume lines market penetration has been a much slower business, he says. "Take guavas as a prime example. Interest over recent years has become keener but it is still a long way off being classed as a mainstream exotic. Lychees, mangosteen and rambutan are also growth areas but much still needs to be done on the promotion of these lines to boost consumption even further."

Another drawback lies in the maturity of product offered. He cites carambola: "In its early days it was frequently found on the retail shelf in its green form which, apart from being immature, did nothing to engender sales. However, once greater attention was placed on the provision of the right article with optimum eating quality, sales took off and it is now one of the up and coming exotics."

Its striking appearance has

obviously helped sales potential along with greater availability from a number of sources of supply which have been supported by the introduction of recipe leaflets and the like. It is these factors combined which can determine the success or failure of a line, he says.

Pitahaya, for example, while intimidating yet interesting in appearance is only available on a sporadic basis, he adds. As a result, it is unlikely to experience significant market growth in the foreseeable future. He is more optimistic about others: "Pink pineapples are exceptionally sweet and offer promise for the future, while various passionfruit types are slowly but surely building market share. However, at the end of the day it comes down to promotion. Education on exotics can be likened to teaching a young child to read and write. If it doesn't take place a child grows up illiterate and in the case of exotics, if consumers are not told what to do with them or how to prepare them they seldom take up the taste challenge."



Rodney Thakrar, of SMT, Covent Garden, has seen mainstream exotic sales increase year on year.



FOR SPECIALIST handler Peter Haddad Trading Ltd the market has seen many changes over the years, most notably the movement of product from the realms of the 'exotic' into mainstream trading. This has come about through greater availability and more sources of supply which, combined, have brought prices down to more affordable levels.

As a result lines such as mangetout, fine beans, baby corn and, on the fruit side, avocados, kiwifruit and mangoes, have now become a regular item on the more adventurous consumer's shopping list.

Nonetheless, managing director **Peter Haddad** believes further growth in the marketplace is being inhibited, in part, by the retail sector which, he says, pays far too much attention to price and shelf life rather than taste.

He explains: "Take mangoes as an example. Tremendous strides have been made with the sea freight of this fruit in recent years which in turn has increased volumes available, brought prices down and increased consumption. However, this has not necessarily

resulted in mangoes with optimum eating quality finding their way onto the retail shelf. Repeat purchases may not therefore be forthcoming. Air freight, in comparison, is expensive but provides fruit with better sugar content because it has been allowed to mature longer on the tree.

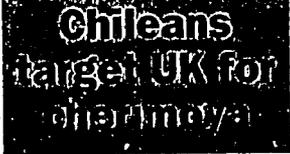
"In time, with new technology coming forward in the sea freight sector, this issue will be addressed in full but we have not reached that position yet."

One of the reasons why exotics sell is because they are out of the ordinary - and frequently part of this is taste.

With this in mind, Peter Haddad Trading has extended its portfolio over the years ensuring its many new lines fit this requirement for flavour.

"We have had notable success with Charlotte potatoes which have a texture, firmness and taste of their own. More recently, we have looked at white asparagus which while traditionally preferred by the Continental consumer is increasingly being sought in Britain which is dominated by green."

Interest north of the Border



CHILEAN growers and exporters of exotics look set to target the British market in a bigger way than ever before.

One of the pioneers behind this thrust is Agro-Industrial Peduegua Ltd which is exporting cherimoya to the UK for the first time this year, albeit initially in limited volumes.

The fruit, handled through its marketing arm, Troydene Ltd, is expected to fill a niche on the marketplace between July and late November.

Tony Churton, managing director of Troydene explains: "Chilean cherimoya used to be mainly grown in the Quillota region which traditionally comes on stream from October onwards, immediately before the start of Spanish supplies. However, in recent years a new area of production has come into the picture, in LaLigua, further north. Here, the microclimate is such that fruit comes into crop as early as July offering export opportunities for progressive growers, which, for the European market, is about eight weeks before the Spanish fruit is available.

"Peduegua, as an example of one of these, has invested around US\$2m in new plantations and packhouse facilities to ensure that it is able to meet stringent UK requirements while, at the same time, is undertaking extensive market research."

Initial findings suggest that the Chilean product is larger than many UK multiples prefer, making the unit price quite high compared with cherimoya from other sources. Nonetheless, Mr Churton adds that in comparison the catering sector would rather go for larger individual fruit size since it is aware that a more mature product has better flavour - an aspect which is viewed by hoteliers as more important than shelf life. "If people are trying out these exotic lines for the first time it is important that the fruit is at the right stage of maturity. If not, repeat sales are threatened," he says.

While volume in this line is unlikely to be available in the foreseeable future, prospects still appear bright. There's a niche to be filled and a specialist interest amongst discerning sections of the population. To capitalise on this, Troydene anticipates launching a recipe leaflet next season with other promotional activity currently under discussion.



FOR GLASGOW based J Carmichael & Co Ltd exotics have grown from a sideline to the core of the company's business.

A family concern, run by John Carmichael and his two sons, Stuart and Euan, it has been one of the pioneers in introducing a full range of speciality lines to the Scottish trade.

John Carmichael explains: "In the early days our business focused on the supply of traditional lines such as cabbage, carrots and swedes. About eight years ago we identified a niche on the market for exotics, however, largely through more adventurous eating habits amongst consumers who have travelled more widely.

"We started in a small way with just a few lines but as business expanded we extended our range accordingly, to the extent that today we stock around 300 exotics and

rank as one of the largest handlers in Scotland."

This growth in exotic sales, while increasing year on year, has not necessarily been easy, he adds: "Credit must be given to marketing boards and the like which have worked hard to promote specific exotics at retail level through in-store tastings and recipe leaflets while greater coverage on television has also helped to improve their position."

Nevertheless, he still believes more could be done by the trade as a whole. "It comes down to education at all levels. There is a need for greater awareness on the preparation and culinary usage of these exotic lines. Part and parcel of this is ensuring that the product is sold at the right stage of maturity in the first place, since an unripe product puts consumers off."

At J Carmichael & Co Ltd it is

common practice to break packages of new lines down to allow buyers to purchase small quantities to enable them to assess their potential - a policy which has been very successful over the years.

Apart from growth in mainstream exotics, the company has also seen much interest in specialist lines over the last year or two. For example, the catering sector appears to be taking up salsify, mooli, celeriac, sweet potatoes, kohlrabi, ginger and flowering courgettes in a bigger way than ever before, reflecting more adventurous eating habits amongst consumers. Not all have been successful, however. "Take tamarillos and kiwano as prime examples", he says. "They may be striking in appearance but do not necessarily have the taste or flavour to make them special or attractive."

Pioneering work by Agrexco

THE SUCCESS of many exotics can in part be attributed to promotion, improved availability and information on preparation and culinary usage. The provision of well presented, good quality product on a reliable basis goes without saying.

One of the prime movers in successfully introducing a host of exotics to the British market scene is Agrexco. Much research

and development has gone into assessing market requirements and how best to meet them.

Few would dispute that the company provided the initial impetus behind the high performance of avocados over the years. This has been repeated with sharonfruit, fresh herbs and a selection of fresh dates, to name just a few. Now Agrexco is turning its attention to the mango - a line

which UK general manager, Jake Lubinsky believes has yet to reach its full potential in sales terms.

"Sales in the UK have increased year on year. Nonetheless, there is still room for improvement. We need to educate the public on what is available and that the best coloured fruit doesn't necessarily mean the best eating quality.

"For example, mangoes come from all over the world and appear in many different shapes, sizes and colours. For premium quality, juiciness and flavour, however, the green Carmel Keitt takes a lot of beating."

This need for better product education at all levels plus a commitment to meet specific market needs is echoed by Roger Manning, of Inter-Trade, who adds that it is up to retailers to find out what the consumer likes and to interpret that into retail sales. "There is a graveyard of good exotics which have not been presented or promoted well in the condition in which the public can buy and enjoy them," he stresses. "It is not enough to operate simply on a point of 'difference'. They must fit into peoples' lifestyles.

"Nevertheless, Agrexco is actively researching into what is clearly required - thus moving toward breaking mystique and bringing product eventually into mainstream usage."



For juiciness and flavour, Agrexco believes the green Keitt variety takes a lot of beating.

THE ADVENT of more sophisticated post harvest technology, particularly in the sea freight front, has been an important issue in the growth of exotics. It has enabled greater volumes

to be moved, lowered prices across the board and has put the product within the reach of most consumers.

For Fruit Importers and Distributors International (Fidi) the use of new post

harvest techniques has been an integral part in the development of the speciality market. This includes close monitoring of picking and maturity dates, packaging and presentation.

Development manager **Alistair Phillipson** explains: "Successful penetration of any product comes back to good market research and marketing. This means providing the right variety in the right size presented in the right format."

He cites the success of pre-ripened fruit at multiple level. Avocados and, more recently, mangoes have both enjoyed improved sales performance as a result of their introduction in this condition.

Fidi, meanwhile, has been instrumental in identifying and developing a niche for baby Queen pineapples and at the same time has seen significant growth in a host of 'exotic' melons - including sweeter and tastier strains which fit in better with today's tastes.

"Britain's consumers are far more demanding today than ever before when it comes to flavour and eating quality and our continuing work to provide top class fruit which matches their expectations is of great importance to us," he adds. "It is our aim to provide this type of quality at as competitive a price as possible - hence the great investment being made in improving the performance of sea freight for exotic type fruit."

The price of success?

MALET Azoulay has built its business on the reliable supply of mainstream exotics. Formed four years ago as the UK subsidiary of Malet Azoulay, Paris - well known for its extensive trade in large volume exotics such as avocados, mangoes and lychees - it has experienced growth annually through careful planning and programming.

Richard Wells explains: "Our success has come about through identifying volume exotics which show the most potential in the long term. It means finding the right product from the right supplier and supplying it in the right condition and package tailored to specific market requirements. This mirrors the way the trade has gone in recent years - with the multiples, for example, reducing their range to

enable them to pay greater attention to each and every line offered. It is no longer their aim to provide the biggest selection but to do fewer and do them well."

A key part in this lies in the provision of exotics at the right stage of maturity - with more attention paid to eatability and flavour than shelf life. However, he adds that this must be backed by promotion to ensure that Letter knowledge of the product and culinary usage is gained

There are obstacles, however: "The problem with a product such as mangoes, for example is that the business is too fragmented. With the fruit coming from so many sources of supply there is little likelihood of a generic promotion, yet this is what is required to boost

consumption," he says.

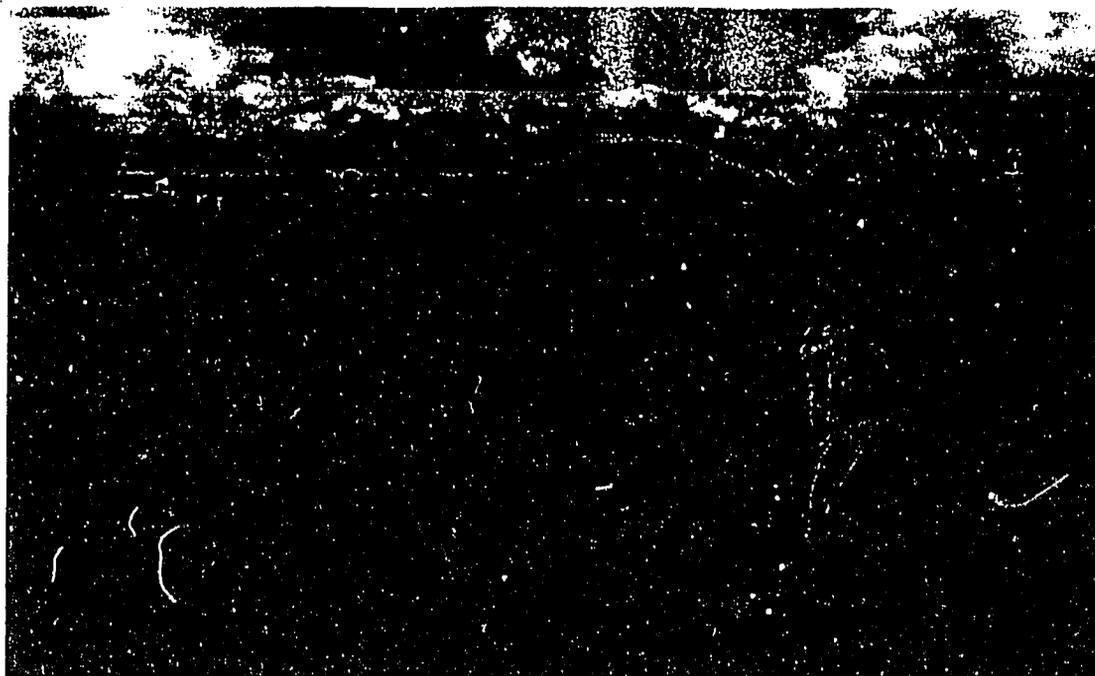
"On the other hand there have been occasions where former exotic lines have not just been successful in entering mainstream volume but have been followed at production level to the extent that they are now commodities.

"Probably the best example is kiwifruit, virtually unknown in Britain until the mid 1970s. Today its world output is massive and consumption increases have not matched output."

Perhaps the biggest challenge lies in bringing exotics in more cost effectively to ensure competitiveness. Mr Wells believes improving technology on the sea freight side - with better reefers and improved controlled atmosphere technology - will help substantially in coming years.

Africa's green shoots grow stronger

Vegetable exports have strengthened their export position



Horticultural exports from Zimbabwe rose to well over Z\$200m in 1992

ESTABLISHED fresh produce importers in Europe are confident the boom in demand for a range of fresh fruit and vegetables from southern Africa is set to continue even in the face of a general downturn in economic activity across major markets in northern Europe. The combination of a wider availability of high quality produce at lower prices is helping to sustain growing levels of demand, they say.

"Import volumes and sales can increase", Bud Holland BV managing director Paul van Pelt told Eurofruit Magazine. "It is clear that there is a future on major European markets for produce of the correct quality and price. And since many of the products that are now sold in Europe are already well known, this relationship between price and quality is likely to be the best boost for an increase in sales and consumption".

Clear

If only on the basis of the number of leading fresh produce importers now involved, it is clear that the availability of high quality produce in southern Africa has increased significantly since

the late 1980s. Eurostat figures bear out the anecdotal evidence: African countries have accounted for a large share of the rise in EC fresh vegetable imports from third countries as a whole, up from some 728,000 tonnes in 1988 to over 945,000 tonnes in 1991.

Zimbabwe, already among the top 10 fresh vegetable exporters to the EC in 1991, has seen an explosion in revenues from horticultural exports since development of the sector first started in the mid 1980s. Horticultural exports have grown from Z\$3.1m in 1985 to well over Z\$200m in 1992, according to ZimTrade, Zimbabwe's national trade development organisation.

Profit

Meanwhile, figures from the COLEACP, the European Liaison Committee for promotion of produce from ACP countries, show how ACP countries have profited from the increase in EC imports. For example, although total EC imports of French beans moved ahead only marginally, up from 34,600 tonnes in 1987 to 37,900 tonnes in 1991, the total share of African, Caribbean and Pacific

countries increased sharply, up from 48 per cent (16,594 tonnes) in 1987 to just under 60 per cent (22,458 tonnes) in 1991.

"The market for French beans in the off-season between November and May is developing fast and the quality of the produce supplied has been a central factor in this development", says the Paris-based COLEACP. That these improvements in general product quality have been particularly focussed in southern Africa is a reflection of the far-reaching developments in production.

Indeed, expansion of production into new areas of southern Africa has helped the region consolidate and even expand upon existing marketing opportunities in Europe. New growing areas across southern Africa have been developed to push availability of fresh vegetables through December and January, largely at the expense of Central America which is likely to see its market position dented as a result, distributors say. UK importer Frumar told Eurofruit Magazine that it is now securing year-round supplies of mange-tout from Kenya. "Suppliers are becoming more successful at growing



Consumer awareness of baby vegetables needs to be raised

this product", senior marketing manager Simon Smith told Eurofruit Magazine.

Reputation

Fresh fruit and vegetable producers in southern Africa are enjoying a reputation for high quality produce which has given them a major competitive advantage in EC markets. "The success of African vegetables has a lot to do with their high quality", confirmed Norbert Timme of Hamburg-based Trofi Troponfruchtimport GmbH. "They have benefited from proper post-harvest handling, installation of new coldstores and refrigerated trucks for transportation as well as long-term planning of production". For example, substantial investment has been made in Zambia where large coldstorage facilities financed by the Zambian Export Growers Association (ZEGA) were completed at Lusaka airport earlier this year. Exporters already report quality improvements.

Yet the availability of air-freight is likely to be as much a determining factor in the development of exports from southern Africa as improvements in production techniques. "Availability of air-freight space is a major problem", Starfruit NV managing director Christian Decannière told Eurofruit Magazine. The Belgian importer, which generates 30 per cent its BFR1bn turnover from imports of produce from Africa, is only hopeful of increased availability in Belgium via Sabena. But freight rates in general seem disproportionately higher in Zambia, Zimbabwe and Kenya than from other parts of Africa.

Pace

More worryingly still, availability of

air-freight space is unlikely to keep pace with expansion in production. Some are already warning of sudden expansion in mango-tout production in Zimbabwe in particular, where tobacco growers are continuing to diversify into cash-generating horticultural exports. Flowers, which tends to achieve higher returns than vegetables per cubic foot of air-freight space, have enjoyed a more rapid expansion in exports: Zimbabwe's Horticulture Promotion Council (HPC) is estimating flower exports of 6,000 tonnes in 1992-93, more than twice volumes shipped in 1989-90.

The prospects for an improvement in the availability of more air-freight space seem patchy. "Airlines are working very hard to offer sufficient space throughout the year", said Mr Timme, "and they are doing their best to charge rates which vegetables can stand". Indeed, air-freight rates from southern Africa can account for more than 50 per cent of the total product cost. Not surprisingly, some say it is likely that any new marketing opportunities could be determined by new airline links. And in these circumstances it seems that the continued emergence from isolation of South Africa leaves it perhaps best placed to profit.

Expand

The potential to expand demand in Europe is high, say leading European importers. Certainly, the year-round trade in high quality added-value products from Africa and a range of other sources has transfixed British supermarket chains in particular. In these circumstances, the European market is relatively underdeveloped. "There are opportunities to push up demand for products of this kind all over Europe", said Otto Reimers of FTK Holland BV. Some Continental European fresh produce importers are hoping to record large increases in sales: Dutch importer Hagé International BV is confident it can achieve "incredible" sales volumes this season to cope with new production from a number of projects it has in hand in Africa. Fresh produce imports from Africa already account for over 10 per cent of total turnover, Hagé said.

There is a general perception among importers that it will not require much effort to increase sales of a number of core products from Africa. The taste and quality of the produce guarantees them a future, they say. "There is tremendous potential", Nigel Pell of Geest Tropical Produce told Eurofruit Magazine. "But there is a need to increase consumer awareness for certain baby vegetables and légumes".

Opened

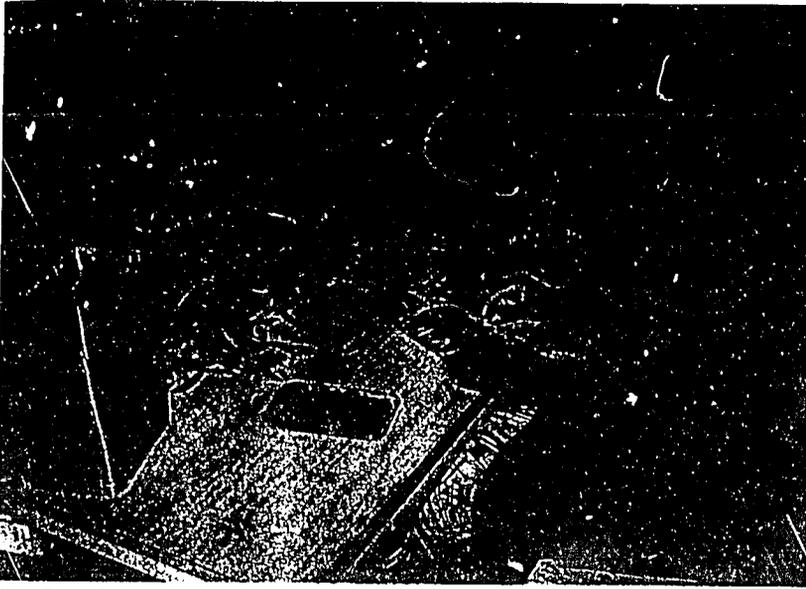
Parts of southern Europe would appear especially ripe for expansion where there is likely to be an opportunity to "piggy-back" new products into a market which has opened itself rapidly to imports. Italy, for example, has seen a more than threefold increase in its total vegetable imports in six years, up from 67,300 tonnes in 1987 to 211,500 in 1991. Sabrosa Italia, the Milan-based exotic fruit and vegetable importer, reports sharply increased activity since it was set up in 1990. "There is still space to market exotics", Roberto Merkowicz told Eurofruit Magazine. Although it is predominantly in fruit, Africa already accounts for 15 per cent of its total imports. ■

Fresh vegetable imports into the EC (in tonnes)					
	1987	1988	1989	1990	1991
Zambia	302	803	1,174	1,875	1,649
Zimbabwe	640	810	1,003	1,886	2,642
South Africa	7,479	6,239	4,903	7,234	12,229
Kenya	14,258	15,444	17,023	18,293	17,862

Source: Eurostat

Gerber's growth based in Southern Africa

Zambia, Zimbabwe and Kenya supply increasing volumes



York Farms first exported from Zambia five years ago

ONE of the world's largest marketers of processed food and drink is set to import increasing volumes of fresh fruit and vegetables from southern Africa and other major sources worldwide in the second year of a significant diversification from its core business.

Complement

Gerber Fresh Produce Ltd was set up two years ago to exploit sourcing opportunities for fresh fruit and vegetables which complement the existing operations of the parent company. Gerber Foods International already generates multi-million dollar sales from its food and drink manufacturing interests worldwide. It markets fruit drinks, canned and frozen foods and other products under private labels and its own brands "Sun Pride" and "Gerber Pride".

"Gerber Fresh Produce now has a handful of excellent supply sources in southern Africa", said Barry Fine, joint managing director with former Fyffes Group colleague Ken O'Sullivan. "The region is now the cornerstone of our supply base". The UK-based importer expects this year to import some 800 tonnes of fresh vegetables from Zambia, Zimbabwe and Kenya to distribute to major supermarket customers in Britain.

Increasing

Gerber Fresh Produce is also importing increasing volumes of citrus fruit from North Africa and South America as well as melons and other produce from France, Spain and many other sources worldwide. It is also looking closely at extending its supply base in Turkey and other parts of the eastern Mediterranean. It finished its first season of cherry imports from Turkey earlier this summer which were procured, packed and supplied from within their own facilities in Turkey.

Gerber Fresh Produce says it is in a position to take advantage of some of the existing market contacts that the parent company has via its network of offices abroad. Gerber Foods has food and drink manufacturing subsidiaries in France, Italy, Spain, Greece, Turkey and Israel.

Success

"We have had some successes with imports of high quality fine vegetables from southern Africa", Mr Fine told Eurofruit Magazine. Gerber Fresh Produce imports a range of airfreighted produce from established producers in Zambia, Zimbabwe and Kenya. The spread of supply across three major countries allows it to extend the marketing season, vary the range of

products and guarantee continuity of supplies. Although drought hit export volumes from Zimbabwe last season, its contacts in Zambia allowed it to maintain supplies at the right levels.

Capture

Last year's collapse of leading Zambian horticultural produce supplier Launa Farms let Gerber's supplier, Lusaka-based York Farms, capture a larger share of fresh produce exports. York Farms, set up over a decade ago, grows mango-tout, sugar snaps, babycorn, sweetcorn and roses over 4,800 acres on two farms. First exports to Europe were made five years ago.

Last year the company erected a new packing house with coldstores and rapid-cooling facilities while

a new annexe was added for hand-trimming of sweetcorn and mango-tout. York Farms is starting to grow Jalapeno and Fresno chillies too. Pre-packing at source was also undertaken for the first time last season. Gerber Fresh Produce food technologist Duncan Roscoe told Eurofruit Magazine. Zambian fresh vegetable exports have been greatly assisted by the completion of new coldstorage facilities at Lusaka airport, financed by the Zambian Export Growers Association (ZEGA) of which York Farms is a member.

Position

Gerber Fresh Produce is seeking to increase volumes of vegetables from Zimbabwe and Kenya. In Zimbabwe, its supplier Sungro is expected to be in a position to provide first quantities of a new variety of fine bean to match UK supermarkets' exacting trim specifications. "In general Zimbabwe has not been able to match the size and quality of fine beans produced in Kenya", explained Mr Roscoe. "We are hopeful that the introduction of this new variety will change that".

In Kenya, Gerber Fresh Produce's sourcing operations are altogether on a larger scale, with several farms in the Nairobi area providing large volumes of fine beans in particular. ■

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Packhouse grading of mangoes.

The African agenda

Straddled across the equator and with varying agro-ecological zones, Kenya has some of the most ideal conditions for year-round production of horticultural crops. But it also has more than its fair share of difficulties - transport, packaging and quality assurance systems all need urgent attention if lucrative European markets are to be kept sweet. Dr Henry Wainwright, senior lecturer in horticulture at Writtle College in Chelmsford, reports from Kenya while the Journal spoke to some of the UK's main importers.

WESTERN Europe is valuable to Kenya. In a country where the export of fresh horticultural produce is considered to be of national importance, it is perhaps not surprising to see that products and cropping programmes are being co-ordinated in such a way as to cash in on potentially lucrative marketing opportunities in Europe.

Horticultural exports represent a source of valuable foreign exchange earnings and a means of enabling the economy to diversify away from traditional agricultural exports such as tea and coffee, the world prices of which have been depressed in recent years. In addition, in the local economy horticultural crops tend to be labour intensive - a thriving industry, therefore, is an important way of creating employment and generating income in the rural areas.

Kenya has successfully expanded its exports of fresh fruit and vegetables over recent years. Volumes have increased from 20,205 tonnes in 1982 to 38,155t in 1992. However, this has not been without some disappointments. Progress in the development of export markets was slowed down by the Gulf war which depressed exports in 1990-91 and a surge of exports of fresh pineapples in 1988 proved not to be sustainable in subsequent years. The export growth of cut flowers represents the most significant success story as exports over the last 10 years grew from just under 4,000t to over 19,000t.

Export crops range from fruits (avocados, passion fruit, mangoes) to French and Bobi beans and Asian vegetables such as okra, karella and chillies. Mangoes and avocados are only produced in sufficient quantities in limited seasons - between November and April for mangoes and April to September for avocados - and this offers some opportunities for exporting into European markets when prices can be adventurous. However, for crops like French beans and okra, exports are year round with only minor seasonal fluctuations.

The UK has traditionally been the largest importer in the world of fresh horticultural produce from Kenya. In 1992, this represented just over 26 per cent of Kenya's exports by weight. However, the UK is of declining importance - as recently as 1986, the UK imported nearly 45 per cent of all fresh horticultural exports from Kenya. The level of imports by the UK in weight terms has in fact remained relatively static over the last six years, but the increased level of imports by other countries, notably Holland and France, has led to the decline in the relative importance of the UK.

The growth in exports to Holland has been as a consequence of the dramatic rise in the production and air freight of cut flowers, whilst the rise in exports to France has been as a result of the adoption of sea transport technology which has allowed the export of large volumes of avocados.

To expand and even maintain its current market share is clearly the challenge of the next decade for Kenya. Competition from the rest of Africa (Zimbabwe and the Gambia, for example) and other world producers such as central and southern American countries represent a potentially serious threat to its market share. To complicate matters further, the market in Europe is becoming more competitive, the legislative requirements of the EU are changing and the specification for fresh produce and the quality assurances required by the multiples are becoming more demanding. Meeting these requirements is a huge challenge, particularly accessing the relevant information regarding EU standards, permitted pesticides, maximum residue levels and so on. Initially, this does not sound that complex, but when producers may be dealing with 10 commodities, exporting to 10 different European destinations all with different regulations and a mixture of languages, then the problem of

information and current rules is magnified.

The ability to establish and maintain quality assurance procedures with such a wide producer base as Kenya's (there are as many as 20,000 small scale growers of French beans, for example) with differing production techniques and in areas with no immediate access to pre-cooling facilities, has presented real challenges to exporters and the Horticultural Crops Development Authority (HCDA). A series of training courses has been run to improve the technical knowledge of personnel in both the public and private sector on post-harvest handling and seminars on sea transport have also been organised, funded by the Ministry of Overseas Development (UK) and implemented by the Natural Resources Institute (NRI) and more recently by Writtle College in Chelmsford. The introduction of sea transport technology has been the key to the success in expanding avocado exports and having established sea transport technology for one crop, the extension of this technology to other crops is more realistic.

Again in a bid to keep Kenya's industry competitive, the Fresh

Produce Exporters Association of Kenya (FPEAK) has been reviewed (with USAID assistance) and is now an active organisation in promoting general awareness of the

need for quality assurance and channelling information to exporters and producers.

Furthermore, a quality assurance procedures manual is cur-

rently being prepared by the NRI in collaboration with the Kenyan produce industry with the requirements of the European markets in mind.



A group of Kenyans being trained in the different types of packaging available.

Kenya: what the importers say

DURING his recent visit to the UK, the **Hon Simeon Nyache MP**, Kenya's minister of agriculture, spoke of the urgent need for improvements to be made to his country's transport and produce packaging sectors. His views are echoed by the UK importers the *Journal* interviewed.

The cost of air freight is the real drawback and, say importers, it is vital that rates drop if Kenya is to remain competitive. Agricultural attaché at the Kenya High Commission, **Joshua Kiptoon** commented: "Kenya faces stiff competition from countries which produce similar produce as ourselves, from those who are nearer to European markets and from those served by a larger number of airlines and ships whose total cost of freighting is definitely lower than ours."

Martin Hudson of Geest Tropical believes the best way of compensating to a degree for the high cost of air freight (it can account for more than 60 per cent of the value of the produce) and making Kenyan produce more competitive, is to add value at source. But, although Geest's suppliers, Home Grown Kenya, prepack and label product, Mr Hudson is adamant that rates will have to come down eventually as exports rely on air freight: "A lot of the lines are too perishable to send by ship," he said. **Verity Broad** of Constantia believes shipping to be the only viable option for heavy produce like avocados and mangoes, however, and forecasts a better service by sea this season.

The Kenya High Commission says that the price of jet fuel was reduced by nearly seven per cent

in the middle of 1993 in order to make Kenyan imports cheaper, but, as Mr Nyache pointed out, this fall has yet to be seen in the form of lower freight rates.

As if the expense were not enough, Nairobi airport can be somewhat chaotic - there are no facilities for cold storage there and delays are commonplace, said one trade source. Home Grown Kenya is one of the few export companies to have its own airport facilities: "It was the first to invest in a purpose-built cold store for produce at the airport, so even if there are delays it is not a problem. Geest Tropical has also just invested in facilities at Heathrow so that produce is back in the cold chain very soon after arrival in the UK."

Access to the airport is getting better. According to Mr Kiptoon, 'all-weather' roads linking the pro-

ducing areas with the airport and the port at Mombasa have either been built or improved in the last few years and most exporters now use refrigerated trucks: "There are advanced plans to increase their number, coupled with cold storage improvements which will help maintain and improve the quality of produce for export," he said.

Also on the upside is the fact that major airlines fly in and out of Kenya on a daily basis to serve the tourist trade. The ability to offer a daily supply of produce to the UK multiples is a key advantage which Kenya has over many other African states, says Mr Hudson.

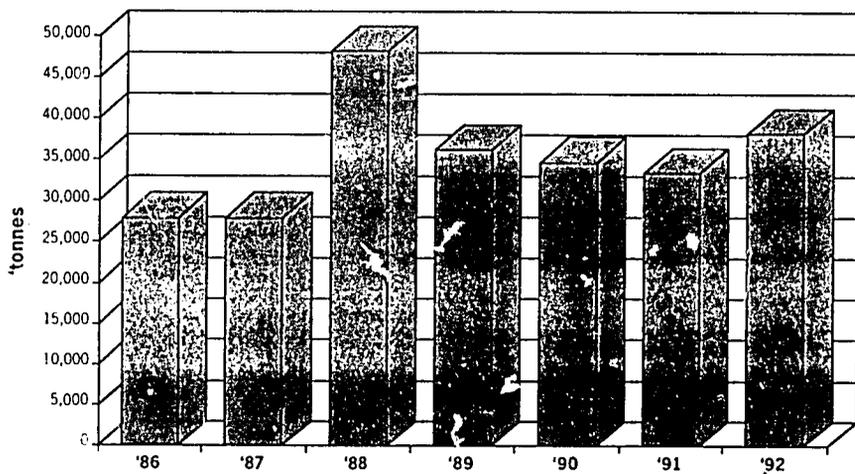
Packaging, at least of product for the wholesale markets, comes in for criticism. Mr Kiptoon's comments reflect the views of many: "At the moment, Kenya's fresh produce is exported and displayed in not too attractive packaging materials." **Avinish Malde** of Wealmoor is more forthright - it is no better than it was 20 years ago, he says. Kinder words come from Constantia, however - Ms Broad praises developments in the packaging of passion fruit which is now exported in an all-white flat tray and of avocados where stronger boxes are now used.

However attractively packaged and well transported, though, Kenyan produce is still changing hands for low money in the UK. This, many believe, is the reason behind the drop-off in sendings to this country reported by the HCDA: "Prices are particularly low for fine beans. On the continent, prices are far better and sendings there are probably on the up. Nobody can make money on four pounds a box, can they?" says Ms Broad.

Mr Maizie sees Kenya's problems on a more general scale: "Kenyan growers and exporters need a more collective voice. In Zimbabwe they have come together and have a united front to present to the government. Kenya should be ahead of the rest of Africa by a long way, but Zimbabwe and the Gambia are catching up.

"I think that the industry has woken up over the past two or three years, though, and it is taking note of legislation in the UK and Europe. Things are changing rapidly, but unless they continue to do so, the Kenyans will find they will lose out even more to the competition."

Exports of fruit and vegetables (tonnes) from Kenya 1986-92



SOURCE: HCDA, Kenya.

Exports of fruit and vegetables have risen from 20,205t in 1982 to over 38,000t in 1992. The increase in 1988 was due to a surge in pineapple exports, but this later proved to be unsustainable.

Principal destinations of Kenyan produce (including cut flowers) in 1992 (tonnes) was as follows:

UK	-	15,299
Holland	-	14,479
France	-	11,336
Germany	-	4,920

Exports to the UK represent 26.7 per cent of Kenya's total, Holland 25.4 per cent and France 19.8 per cent.

French beans are the principal line. In 1992, Kenya exported just under 4,900t to the UK. This compares with 1,200t of okra, 460t of avocados, 176t of mangoes and 235t of passion fruit.

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The produce revolution continues

ZIMBABWE'S independence in 1980 left the legacy of a relatively poor horticultural export industry. In former years tobacco, sugar, tea, coffee and cattle were the main breadwinners, for the former Rhodesia. But the last decade has seen a revolution in the fresh produce sector, which is now the fastest growing industry in Zimbabwe.

Commercial growers have come into their own and, through links with established importers in the UK and the rest of Europe, have invested heavily in top notch post harvest facilities to meet the needs of the 90s at every level. This has been tied to the provision of high value lines, targeted at specific windows in the supply calendar.

On the distribution side, Zimbabwe boasts a good infrastructure of multi-lane highways - which many believe to be the best in Africa. Air freight availability, once the biggest constraint to export development, has now been addressed with more airlines than ever before serving Harare, Zimbabwe's main airport.

Zimbabwe's produce export situation has moved into another gear following the completion of efficiently run cold room facilities at Harare airport - a major change from the single store in operation prior to independence.

Physically, the country is landlocked by Botswana to the west, South Africa to the south, Mozambique to the east and Zambia to the north - so the need to develop a thriving air freight trade (with prepacks very much to the fore to offset the high costs involved), has been of paramount importance.

So how has this been achieved and which crops have been identified as potential winners on the markets of Europe?

Zimbabwe, like its neighbour, South Africa, is well placed to provide a wide range of fruit, vegetables and exotics over an extended period of supply so, in theory, export potential is huge. In practice, this has not come about, however, largely since air freight costs have frequently been prohibitive - meaning only high value products are a feasible proposition, and only those targeted at specific windows in the supply calendar.

For example, nectarines, peaches and plums, available during the October to November period, have been hugely successful, filling niches on the market prior to the start of South African supplies.

Passionfruit is also seen as potentially appealing and the last

decade has seen extensive plantings going in. However, the mid to late 80s saw a temporary setback to growth. Heavy competition from Kenya, combined with a collapse in market prices, resulted in some growers grubbing the crop and moving back to tobacco. Since then more cohesive marketing, an identified need for the product at specific times of the year plus the growth of the processing sector for product which isn't of exportable quality, has seen a resurgence of interest and plantings.

Growers aren't resting on their laurels, however. Keen to expand their fruit basket even further, other high value lines are currently being assessed for their export potential.

Frank Millar of MVM Zimbabwe (for which Sunfresh Produce acts as UK marketing agent) explains: "Our aim is to develop a wider range of produce for the markets of Europe, and in particular the UK, riding on the back of successes we have achieved to date. For example, much experimental work is being carried out on the feasibility of air freight provision for raspberries and blueberries - these crops identified as offering opportunities for the future."

Alan Croxford of Sunfresh Produce believes Zimbabwe is moving in the right direction and MVM now represents a very high quality supplier backed by the infrastructure needed to ensure placement within outlets of every type within the current UK retailing framework.

One of the most successful lines to have carved out a place for itself, so far, is mangetout - based on availability during the March to November period.

Gordon Burr, of Fruit and Vegetable Growers Co-op Ltd (FAVCO), one of the largest fresh produce set-ups in Zimbabwe, comprising 70 grower members, explains: "Zimbabwean mangetout exports have risen year on year and have increasingly attracted a following, despite widespread competition from Kenya and Guatemala.

"At FAVCO, for example, we expect to export in excess of 1,000t of produce this year, of which mangetout will form an important component of the total marketing mix."

More recently sugarsnap peas have been showing a similar growth pattern. Mr Burr suggests this line could eventually parallel mangetout



While the 1992 drought adversely affected exports of mangetout, the current season looks promising. According to Sunfresh, growing conditions have been good, including plenty of rainfall, and, as a result, good availability throughout the season is expected.

Untapped export potential

MALET Azoulay, the Spanish-based importer specialising in a comprehensive range of fresh produce, believes Zimbabwe has considerable potential to further expand its exports of high quality fruit and vegetables to Britain and Europe, based on the expertise in growing, grading, packing and shipping which has evolved here over the years.

Quality provision from Malet Azoulay has come about through its close links with Chris Kay of Chiparawa Farms, one of the largest independent growers/exporters based at Marondera in central Zimbabwe.

"We first started developing our Zimbabwean portfolio in 1988 and over the years we have seen significant growth in our export lines. Subsets are being longer and this has been backed by improvement in the quality from a strengthened market by heavy investment by our supplier in their plant facilities, including hydro cooling, chilled loading areas," etc," explains Malet Azoulay's Phil Smith.

As such, the company is now able to provide its discerning customer base with quality product over an extended season - mangetout, sugar snap peas, chillies, passionfruit and more recently, baby corn - all having carved out niches for themselves on British retail shelves.

"A high percentage of our product is required to be

selected and prepared at source for the multiple sector (wholesale, restaurants, etc) and instead of exports, Zimbabwean produce is being sold locally. This has meant the challenge to

prepare the source has led to demands for quality and costs and has seen much expansion over the years with the opening of the difference between an imported and a locally sourced product. As a result, the market has seen a number of quality products and a number of good opportunities for further growth.

The attention to detail and the meeting of specific market requirements have led Malet Azoulay to see the need for alternative products, including a number of potentially profitable products which are currently grown in the country and which could be exported.

Malet Azoulay is also involved in the longer term projects for certain tropical crops, with a training unit in Beira looking more of a reality for the future.

As Mr Smith adds, "Zimbabwe has come a long way in recent years and both volume in offer and quality provision have increased 10 fold in the past decade or so. The potential is there for Zimbabwe to become a major player in the supply of fresh produce and, in our view, strong links with Chris Kay of Chiparawa will part of this expansion."

(continued overleaf)

Innovative path continues

...denied specific niches on the marketplace. The story started back in 1984 when growers Jeffrey Perlman and Peter Howson, the prime movers behind Hortico's development, visited the UK to assess its potential for Zimbabwean produce. A working relationship with Saphir was set up - particularly on the technical side - a move which proved beneficial to both organisations. Initially mangetout formed the backbone of exports but following rapid expansion of packhouse and cold storage facilities there, Hortico expanded its portfolio on its 1,000 hectares of prime land

...take up to which had, from first trials, proved to be shipped abroad. Hortico's stated aim and ultimate goal is to dominate the fine vegetable range in the flagship stores of major supermarkets and this policy has enabled it to penetrate the toughest markets and achieve a continuous demand for its products while at the same time maximising the resources available. With this background it comes as no surprise to find that there have been many successes on the British market. Runner beans are a case in point. As Mr Meineck points

...round 21 tonnes of the product was... Baby vegetables including leeks, carrots, courgettes and parsnips have also made impressive progress and more recently, so have roses on the flower front. Full potential has yet to be reached however. There is still a lot of room for further development out of Zimbabwe, says Mr Meineck. If we achieve the right technical back up and combine this with the co-operation of growers, I believe we can successfully target specific windows in the marketplace for more high quality produce in the future.

(continued from overleaf)

volume - particularly with the multiples and caterers taking the product on board in a big way. Others are waiting in the wings: asparagus, courgettes, beans - both French and runner - and an expanding range of baby vegetables have also seen increases in terms of export levels, a trend which many believe will continue for some time to come.

Not all export initiatives have been successful, however. Three or four years ago growers trialled air freight sweetcorn during the November to April period and, while there was a niche to be filled at that time, the high flight costs didn't make it economically viable for many of the growers involved with the crop. More specialist babycorn is now being trialled and early responses have been very encouraging, however.

Air freight honeydew melons and mangoes couldn't pay their way, either. But as Mr Burr adds, both products still offer opportunities if a successful sea freight trade can be developed. While this is still very much in its infancy, the potential is certainly there and Zimbabwe, through improved sea freight links,

(continued on page 16)

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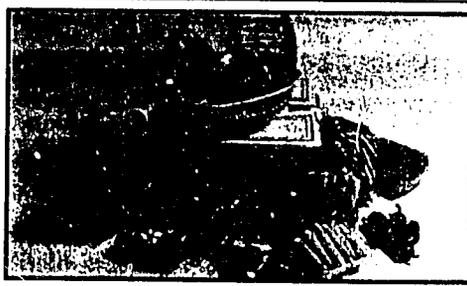
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MALET AZOULAY EXOTICS

For London based importer, Janic, citrus has certainly proved to be a growth area though true potential on the export front has yet to be fully realised, believes managing director **Terry Watts**: "We first became involved with Zimbabwean citrus, through an exclusive marketing arrangement with Oceanic Fruits, about six years ago. Since then we have seen sales expansion year on year - 1992 being the exception as a result of the drought and a 30 per cent reduction in sendings. Nonetheless, we

believe that further growth is achievable - growers there expanding their varietal portfolio to meet European market needs through the development of newer areas of supply."

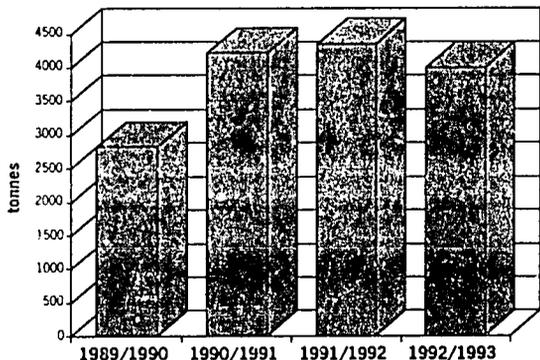
This is being backed by heavy investment in new packing and processing facilities by the country's progressive growers which will ultimately mean the total crop can be marketed quickly and effectively.

Plans to extend existing facilities at Ceira will also help in sea freight developments - particularly since



Sunfresh product being packed at the MVM packhouse.

Zimbabwean produce exports 1989-93



virtually all citrus exported is currently sent via South African ports.

Fruit and vegetables apart, Zimbabwean growers are also developing their flower business. Exports have increased at a dramatic pace over the last couple of years and growers have moved away from traditional crops, such as chrysanthemums and asters, to long stemmed roses - a decision which has certainly proved lucrative to date, especially on the Dutch market.

Instrumental in the development of new export markets, whether for

fruit, vegetables or flowers, has been the Horticultural Development Council. This is a body funded by levies and membership subscriptions, which was set up in 1989 to promote Zimbabwean produce abroad.

Its role has been highly successful in setting up the export retention scheme and is now looking to increase research into new crops, plus improving facilities at the airport, quality schemes and generally moving to put Zimbabwean produce on the international supply calendar more effectively.

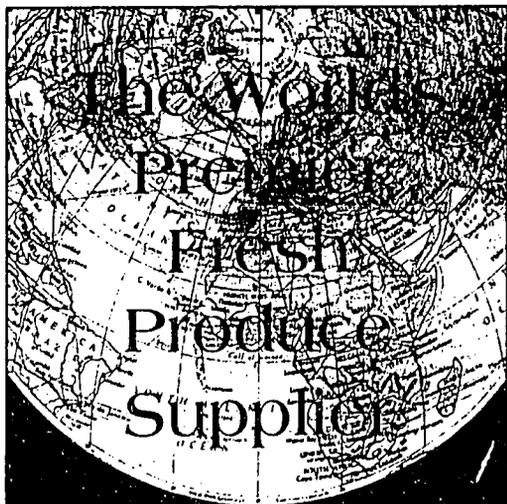


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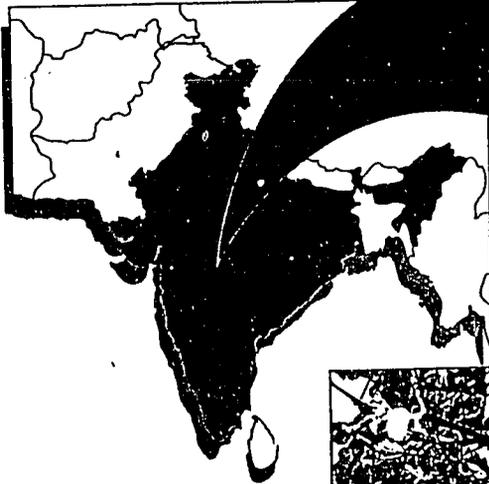
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FOR EUROPEANS who take for granted high technology, a temperate climate, reliable transport systems with relatively short distances to cover and a highly experienced workforce, India must come as a shock. Two companies in particular, however, have ventured onto the sub-continent and taken up the challenge to export India's grape. Although they say it is too early to be certain how the country's production will develop, Frumar Ltd and Three Ways International Ltd both feel India is moving in the right direction to become an important source of supply in the grape calendar and they are both planning to increase their involvement in seasons to come.



Frumar claims to have been the first to develop an export project for table grape and is now in its second year of operation, working an exclusive marketing arrangement with the Pune-based Kalyani Agro Corporation, a subsidiary division of Bharat Forge Ltd. Mark Bradnum, marketing director of Frumar, is bullish about the 1993 season. He told the *Journal*: "So far everything has gone to plan. We have laid down rigid quality requirements for the Indians to adhere to and they have fared very well - they are very hard-working and serious about taking on board the demands. Now that we have established that grape can be exported, there has been better preparation by growers and we are confident that our export volume will be up on last year. Nevertheless, it will not be the volume we had hoped for because there was unusually hot weather about two months ago which affected some of the crop. Quality is up to standard, however."

Three Ways, on the other hand, is the exclusive marketing agent in the UK for the Mahagrape brand of Indian grapes exported by Conwood Foods. According to Nigel Quick, one of the directors of Three Ways, Mahagrappes has recently made considerable investments in facilities, which have resulted in an improvement in grading and presentation over last year's first trial season when product was field packed and cooled in mobile pre-cooling units: "They have just completed work on 17 pre-cooling and packing stations throughout the state of Maharashtra. This gives them the advantage of being able to

India is the largest grape producer in the world, yet its potential to become a regular source of grape is still to be fully realised. However, importers are excited about the possibilities the country offers as its infrastructure gradually improves in order to meet the demands of the UK buyers. Benefiting from a wide range of climates and with grape grown from Rajasthan in the north down to Tamil Nadu in the south, India could extend its season considerably - are we seeing the beginnings of a new Chile? Tessa Fox talked to two importers currently backing the sub-continent.

export graded, fast-cooled grapes from all the growing areas and not just Nasik and Pune where most of their competitors are situated.

All the facilities are purpose-built brick units. Pre-cooling is carried out by forced air high humidity coolers imported from the USA and Australia which are capable of reducing the temperature of the

grapes to between zero and one degree celsius within four hours."

Although grape is grown all over India, belts of production have developed in particular around the two towns of Nasik and Pune, approximately 160 miles north and south of Bombay. The area developed from being a sugar cane production zone because of

irrigation constraints - the water required for one acre of sugar cane is enough for 12 acres of grapes and a strong domestic market for grape. Three Ways and Frumar both major in the Thompson variety, though the former will also bring in Saga Gold, Sonaka Seedless and

(continued overleaf)

INDIAN GRAPE

continued from overleaf)

harad Seedless. Frumar, meanwhile, is planning to import volumes of Tas A-Ganesh (a white seedless hybrid of Thompson) and ismiss Chorni, a flat seedless variety as well as Thompson.

Importers say that the Indian grape season has the potential to run from January to the end of May if growers

take best advantage of the range of climates in the country. In respect of its climatic ranges, India is similar to Chile and it has been heralded as the Chile of the future by some, although extending its season will depend on the monsoons which normally begin during the middle of June. This possible lengthening of the season is one of the most exciting aspects of India, say importers:

"Although there is still an enormous amount of work to be done, we have been impressed by the willingness of the growers and exporting companies to adapt and change in order to produce grapes which are acceptable to the European market. Together with the considerable investment that has been made in packing and cooling, this will, in future years, enable Conwood/Mahagrape to compete favourably with grapes from any other source during January to May," Mr Quick told the *Journal*. At the moment, India's main production in the central southern region has a four- to six-week window from mid-April to the end of May when it capitalises on the gap between the end of the Chilean season and the start of the Mexican airfreight arrivals in mid-May.

Despite a common thread of optimism, there are obvious difficulties in dealing with India. Mr Bradnum identified two main hurdles to be overcome: "Firstly, there is a total lack of knowledge of how to export produce - up until last year the issue had never been approached on a commercial scale. Secondly, the infrastructure is not set up to handle produce efficiently - the company we work with, Kalyani, is the only one to have its own packing facilities.

"We see the role of Frumar as one of educating and there is an advantage in starting from scratch in this because we are not battling against preconceived ideas. The people we work with have not been trained to operate according to anyone else's methods. There is still a lot of work to do but progress is very encouraging and a lot of credit must go to Kalyani Agro Corporation which has been able to make considerable investments." Transport in India is an obvious difficulty, too, as many roads are not tarmacked. Frumar loads containers directly at the packing point and they are then trucked to Bombay, an overnight journey of eight hours, while the sea transit from Bombay to the UK is 19 days.

Importers are wary about predicting India's future position on the grape market, and though positive attitudes reign in general, Mr Bradnum of Frumar offers a word of warning: "The Indians need to be very careful to avoid a situation where the entrepreneurial class in India becomes aware of the country's export potential and too many people jump on the bandwagon with the result that quality standards go out of the window. This could damage India's image in the same way as has happened in other countries."



The Indian processed food industry is set to expand at an annual growth rate of 9-12%, increasing its value from the equivalent of US\$50m (ECU42m) in 1992 to around \$100-120m (ECU84-101m) by the year 2000. Growth potential could however be much higher, according to a McKinsey report*, if investment in food processing were to be increased, cheaper alternative packaging materials were used and a proper chill chain were established. Food accounts for just over 50% of household expenditure and although food expenditure as a percentage of GDP generally declines as living standards increase, consumer trends develop towards higher value-added products (ready-made meals, frozen foods). Consumer demand for branded processed food products is also expected to increase. The Indian government's Planning Commission estimates that food consumption rose by 35% between 1980 and 1989 (compared with a 19% rise in population), owing to higher disposable incomes among the middle-class population.

Economic liberalisation

Since the government introduced its radical economic policy of liberalisation in the summer of 1991, foreign investment has rocketed. Direct foreign investment totalled \$1.4bn (ECU1.17bn) in 1992 compared with an average of around \$100m (ECU84m) in the Eighties. Overseas companies have recognised the untapped potential of an 870 million head consumer base and have been encouraged by fiscal and investment reforms. Foreign investors may now hold a majority 51% stake in a venture, short-term capital gains tax for foreign investors has been cut from 65% to 30%, import tariffs have been reduced and the administrative process for investment is beginning to be simplified.

Foreign investment rising

Already, the difference is clear. McKinsey reports how PepsiCo waited for nearly five years before its proposal to enter the Indian market was accepted

A passage to India?

in 1990. In contrast, just two years later, Coca Cola waited only three months to have its re-entry application approved. In the twelve months following the launch of the liberalisation policies, the government approved almost 1 000 foreign joint ventures. Last year the US accounted for 30.5% of investment and was followed by Switzerland with 18.5% and Japan with 16.4.

Nestlé & milk products

Nestlé has had links with India since the start of the century, when it began importing condensed milk and infant foods. In the late Fifties, the Indian government's economic policy aimed to reduce the balance of payments deficit, bringing with it a package of protectionist measures to regulate imports. Under the new laws, Nestlé had to abandon its previous business but instead chose to begin local production in order to maintain an interest in India. Lengthy negotiations led to the creation of a milk products company, based in Moga (Punjab State), in which Nestlé held 90% of the capital. By 1992, the 1 671-employee company was producing 58 000t of food products, including instant noodles, soups, tomato-based sauces and Nescafé.

In 1978, Nestlé was permitted to hold only 40% of the share capital owing to increasingly restrictive investment laws. Following the 1991 reforms, Nestlé may, in principle, own 51%, but the company has had to contend with a mass of bureaucratic barriers, which delay the implementation of new laws. At the end of 1992, the Nestlé/India Company had over 47 000 shareholders, but Nestlé was still in the minority.

KitKat reaches India

Nestlé now has three other factories: the Choladi plant, built in 1967, processes tea leaves into soluble instant tea for export, while the Nanjanjud plant manufactures Nescafé and coffee and chicory instant drink products. Opened in April 1993, the Samalkha factory makes a range of soya-based products.

In 1991, Nestlé began to rent a section of the production lines in a manufacturing plant owned by a cooperative of cocoa planters. Under Nestlé supervision, chocolate products are made there, although the arrangement is only temporary. Nestlé plans to build a fifth factory in the north of Tamil Nadu State to manufacture chocolate and confectionery products, including KitKat.

BSN & Britannia

BSN's interest in India dates back to early 1990, when it acquired a 50% stake in the holding company, Associated Biscuits International Ltd, constituting an indirect 21% stake in Britannia Biscuits, the leading biscuits manufacturer in India with a 36% market share. Even then, the group recognised the market's growth potential and the rapid increase in the proportion of the upper-income sectors of the population. A few weeks later, this deal was followed by the acquisition (jointly with the chairman of Britannia, Rajan Pillai) of the former Nabisco companies in SE Asia. In 1990 sales of Britannia Industries (India) were the equivalent of FF890m (ECU132m), rising to FF1bn (ECU149m) in 1991 following the launch of a number of 'LU' brands. Despite severe economic problems in 1992, Britannia's Indian biscuit production increased significantly to 100 000t, giving sales the equivalent of FF764m (ECU114m), up by 3% at constant exchange rates.

Earlier this year, BSN broke links with Rajan Pillai, following allegations that Pillai had misused joint funds (see Eurofood, April 1993, p18). At the beginning of August, BSN bought Pillai's interests in the Britannia Group's biscuit and snack operations, giving it a 43% stake in the group's Indian unit (see September 1993, p24).

Cadbury raises stake

Cadbury is already a well-established brand in India. In March this year, following rights issues, Cadbury Schweppes' shareholding in Cadbury India Ltd increased from 40% to 51%, the maximum currently permitted under local legislation. The cost of the additional investment was £6.3m (ECU8.2m), satisfied in cash.

AL & Jagatjit

Allied Lyons plans to create a JV with Jagatjit Industries of New Delhi, one of India's largest spirits producers, via its alcoholic drinks division, Hiram Walker. The 50-50 JV is to import and bottle Scotch whisky in India and produce a range of spirits for both the home and international markets.

Some legal restrictions are still in place however. Foreign spirits companies may not open manufacturing facilities, but must rely on their partner's existing facilities. Exports are also compulsory, in order to balance out the cost of imports.

GrandMet's drinks division, IDV, recently announced it is to produce and distribute drinks in India via a new joint venture, International Distillers India, with an as yet unnamed partner (Eurofood, September 93, p25).

Bass opts for hotels

Bass, the largest brewing company in the UK, has announced that its Holiday Inn Worldwide division has agreed to set up a joint venture with Inn Realty Hotel Ventures of India, in order to open seventy Holiday Inns, mainly in secondary cities, over the next ten years. It hopes to benefit from growing demand for higher-class accommodation.

Inflation worries emerge

In August, India's inflation rate (year-to-year wholesale price index) rose to 6.2% from 5.8% in July - the first climb after weeks of decline. Economists warn that inflation cannot be allowed to exceed 7%, otherwise economic reforms may be threatened. The increase coincides with inadequate rainfall in August, worries over September precipitation levels and large rises in government loans from the Reserve Bank of India. India's farm sector is extremely dependent on sufficient rainfall and low crops inevitably lead to

higher food prices. Food and primary products are a major part of the inflation index. Nevertheless, the government hopes to be able to control food price inflation, thanks to the current high level of stocks. Grain stocks, for example, now stand at around 25 million tonnes.

Despite optimism that the reforms are at last bringing benefits in the form of higher exports (+27% in the first four months of the financial year), fear of possible redundancies as a result of the economic liberalisation programme has caused a series of strikes recently. Besides social unrest, investors in the Indian food industry will have to contend with problems such as the recent invasion of north-western Rajasthan state by a swarm of locusts. So far, India has managed to prevent the pest from reaching the fertile areas of Punjab and Haryana, considered to be the granary of India. The FAO has warned that India could face major locust problems over the next two years, if the breeding cycle is not broken.

** The McKinsey Quarterly 1993, no 2*



FRUITS & VEGETABLES

There has been a sudden spurt of activity in the nascent mushroom industry in India. After chocolates, chips and fizzy soft drinks, now it is the turn of mushrooms. At least ten big industrial houses are now turning towards this high potential high protein mushrooms.

India, in fact, may soon grow to be a major exporter in the world of mushrooms which is a highly labour-intensive industry. Says Mr Bharat Epur, vice-president of Dyna Lamps and Glass Works Ltd., who set up Mushrooms Impex India Limited, "India has all the advantages — cheap labour and large availability of the raw materials". The developed countries are gradually slowing down because of the high labour costs. Several western manufacturers are now shifting their production base to countries like India with cheap labour costs.

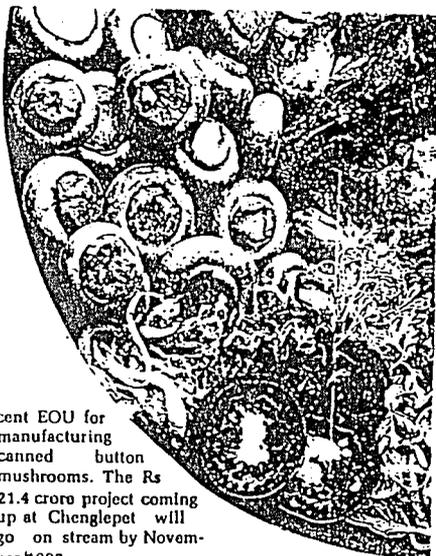
Mushroom Impex will set up its farm with technical know how from Gaul Engineering of Israel. The Rs 22-crore, 3000-tonne capacity plant set up in Ranga Reddy district of Andhra Pradesh will be commissioned in another one and a half years.

Though mushroom cultivation is fast becoming a high-tech process, harvesting still needs to be done manually, requiring a large workforce which India has in plenty.

"Earlier mushroom production in India had been meagre and seasonal. Today, with foreign collaborations bringing in technology of environment controlled cultivation there is tremendous potential for mushroom production in India," says Mr Unnikrishnan of Saptharishi Agro Industries. This agro food firm was promoted by Mr R.K. Jajoo in collaboration with the Dutch firm Dalsem Veciap by Agro Industries primarily to set up 100 per

INDIAN FIRMS EYEING GLOBAL MARKET

While the domestic market for mushrooms might take quite a while to come of age, the potential for export seems to be tremendous, writes *Jaya Menon*.



cent EOU for manufacturing canned button mushrooms. The Rs 21.4 crore project coming up at Chenglepet will go on stream by November 1993.

The Madras based Ponds was the first of corporate body to export mushrooms. In 1987, it started growing mushrooms as a research operation. In 1989, they expanded it on a commercial scale setting up a large-scale farm producing 3,000 tonnes of mushrooms every year. The 25-acre farm is

situated in Ketti in Ooty. With a 100 per cent buy-back arrangement with its American collaborator, Georgio, Ponds exported mushrooms worth Rs 19 crores last year.

The button mushrooms is particularly favoured because it has no fat, no sugar

and no cholesterol. It is almost a substitute for non-vegetarian and Americans love it. In fact, the per capita consumption of mushrooms in the US is as high as two pounds annually.

Market watchers are extremely hopeful. With foreign collaborators tying up with Indian firms and helping set up hi-tech farms with environment controlled cultivation and the strong boost being given to this sector by the government the mushroom industry is indeed mushrooming.

One of the other players in the field is Tata Tea.

Though their project started off as an innovative method of recycling waste from their tea factories, is at present small compared to the others, just tonnes, it is slated for expansion. About 22 panics have in fact issued licences — Tata RP Goenka group have listed their proposal: the commerce minister setting up two mushroom projects.

India, now has mushroom farms — of Ponds (India) Ltd Dehra-Dun-based Foods, TEGS in Patiala, the Tata Tea farm —

Contd on

access to modern technology and having a combined capacity of about 6,000 metric tonnes of mushrooms.

In fact, in 1991-92, India exported about 50 metric tonnes of dry mushrooms and about 1,200 metric tonnes of processed mushrooms. The total foreign exchange earning during the period was around Rs 16 crores. With four more farms with total capacity of 10,600 mt. per year coming up and about 20 more having registered themselves India will soon take a prominent position in the world export market of mushrooms.

There is a large market for button mushrooms, mostly used for soups and pizzas in the world today. The qualifying factor is that button mushrooms have high protein and low cholesterol content. Though button mushrooms, oyster mushrooms and paddy straw mushrooms are cultivated in India. The global consumption of mushroom has grown on an average by over 24 per cent over the last five years from 10 lakh tonnes per annum in 1987

to 21 lakh tonnes in 1992. This is expected to grow further to over 30 lakh tonnes in two years' time.

There is also a fear among Indian producers that in the long run the industry may not be all that viable. Says a Ponds (India) official "There has been over production by countries like China and Indonesia. This year the prices crashed by over 50 per cent thanks to large-scale dumping by China. Last year, China accounted for 25 per cent of the world trade and India's share was less than one per cent. Units now coming up are taking up the higher price for project viability". This was corroborated by reports in certain section of the press in India.

However, Bharat Epur dismissed reports about prices slumping as misleading. 'Food News' is a highly credible American newsletter which publishes prices of mushrooms in the world market. And the last six months, trend in prices has been very encouraging. "I can find no supporting evidence for the low price quoted by magazines in India. The only explanation could be that the particular company which sold it for

such a low price must have sold low quality products. Mushrooms are either sold whole or without the stem. Value goes down when it is sold in bits and pieces. This is a well-established commodity trade and the prices cannot be arbitrarily fixed."

On its part, the Indian government, in an attempt to boost agricultural exports, liberalised the import of mushroom culture (spawn) in June this year. Mushroom export oriented units can now procure mushroom culture at their convenience from identified suppliers without an import permit.

With Indian firms setting up mushroom farms with a full buy-back arrangement with their collaborators, the real competition is from outside, especially from countries like China and Indonesia. Says an industry source, "The only way to survive is to be cost-effective".

However, Mushroom Impex Limited has set its sights on more high-value and high-cost projects in future. Says Bharat Epur, "After perhaps five years, we will go into production of exotic mushrooms. The cost of

production will be much higher but these mushrooms have very high value".

In fact, India is known for its exotic mushrooms. Certain varieties of such mushrooms are collected from forests in Himachal Pradesh, Jammu and Kashmir and Uttar Pradesh, for exports.

There are several local and small-time manufacturers in certain pockets of the country. A company in Madras, for instance, trains housewives in setting up small farms in their terraces. Though, these are only for oyster mushrooms, which are tasty with no protein-value and are produced only for local consumption.

In North Himachal Pradesh, the collection of mushrooms from small farms constitute about 2,000 metric tonnes of button mushrooms. Though, presently the domestic market is not very substantial, manufacturers may well test it out in future.

Says Mr Unnikrishnan of the Madras-based Saptarshi, "With more awareness and availability, the

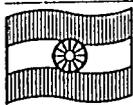
domestic market may pick up". Confirms Mr Bharat Epur, "We will be selling a small percentage, about five to ten per cent of our rejects in the domestic market. The Indian market prices for mushrooms are quite affordable, there is a lack of awareness among consumers and hence there is little or no demand".

The cultivation of mushrooms is as follows: First, compost is prepared out of agrowaste products like rice paddy, wheat straw, leaves and sugarcane bagasse. These are treated at different temperatures to get rid of unwanted organisms. The treated compost is then pasteurised and spawned. Later, the spawned plants are transformed to cropping rooms where they are kept for 74 days to mature. The harvested crop is then processed and canned for marketing.

Industrial houses like Tatas and Ponds who were the first to manufacture mushrooms selected sites in Munnar and Ooty, respectively, since hilly and cold areas were considered for more suitable for mushroom cultivation.

This no longer seems to be the trend. According to Mr Bharat Epur, whose farm will come up near Hyderabad, "It is easier near the towns because we can tailor our needs to the availability of raw materials. If the farm is in a remote hill station, it is difficult to truck all the material there. Also, there may be a lack of infrastructural facilities".

However, while the domestic market for mushrooms might take quite a while to come of age, things seem bright on the export scene. The potential for exports seem to be tremendous. With players big and small setting up farms with imported or superior indigenous technology, it seems that the Indian mushroom industry is poised for a take off and will soon emerge as a major contender in the world mushroom market.



India

Grapes from India – a Co-Operative Venture

Among the many problems faced by India, immediately after independence was how to increase its food production substantially to feed its teeming population now estimated at 900 million. Having achieved this objective in terms of 'Green Revolution' some decades back the government geared its attention towards horticultural development. The current 8th Five Year Plan has earmarked a massive financial engagement to bring about an allround development of this important sub-sector.

India presently produces about 30 million t of fruits and 51 million t of vegetables excluding 15 million t of potatoes and 3.5 million t of onions. Among the important fruits grown are mangoes, bananas, apples, litchies, citrus fruit, pineapples, kinnoos (type of tangerine), grapes and guavas besides a number of other tropical fruit. In the vegetable group potatoes, onions, garlic, okra, eggplant, gourds and cabbage are worth to be mentioned. Along with that goes a line of 'luxury vegetable' like asparagus, broccoli, celery and mushrooms.

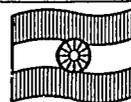
Total cultivated area under fruit and vegetables in the country cover about 12 million ha, which is about 7% of the total area designed for agricultural purposes. This group contributes about 18% to the gross agricultural output. With this massive production the country now ranks second in world fruit production after Brazil and similarly in vegetable production after China. Its contribution in the world trade, however, is negligible because it has first to meet its domestic requirements to feed the Indian population. With the rising standard of living the consumption of fresh fruit and vegetables in the country is on the rise. There are wide regional and climatic contrasts within the country suitable for both temperate and tropical crops including off-season products.

Unlike mango, the commercial cultivation of grapes in India is some three decades old. It is still regarded as fruit for the upper class of the society. Grapes are produced mainly in the western and southern regions occupying about 1% of the cultivated area there with an estimated production of about 350,000 t. 90% of production belongs to the Thompson Seedless and 10% to seeded varieties. Although comparatively more perishable, grapes are still being transported by non-refrigerated or air-cooled trucks travelling as much as 2000 km under tropical conditions to serve the distant markets.

Some three decades back the stock of Thompson Seedless grapes was imported into Maharashtra from California. Some new varieties, such as Sonaka, Saga, Gold, Tasa Ganesh, Shard Seedless have been developed. These varieties are the refinements of Thompson Seedless. Maharashtra, a western state bordering the Arabian Sea is the leading state with an area of about 15,000 ha with an annual production of 25,000 t. The co-operative movement there is very strong and active. It is mainly involved in the production of grapes.

Due to concerted efforts made with excellent extension support a yield of 8 to 10 t/acres of seedless and 15 to 18

India



1/2 acres for seeded varieties has been achieved. The berry size varies from 2 to 4 cm with up to 24° Brix.

The entire export trade continued to be in the hands of commission agents who were not giving a fair deal to the grower. The air freight costs "penalized" Indian grapes for exports. The quality and the shelf life were poor as there were no packinghouses, no pre-cooling facilities with practically no grading or selecting facilities available nationwide. The whole industry was virtually at the verge of collapse. Traditionally the Indian farmer is merely a farmer and therefore more prone to exploitation both within the country and abroad. What has been a very encouraging feature in Indian agriculture is the fact that the farmer has learned that quality, reliability and regularity of supplies, in other words, discipline, are the basics of the business.

To encourage production and exports a good institutional base has been set up and institution like the Agricultural and Processed Food Products Export Development Authority (Apeda), the National Cooperative Development Corporation, the National Horticulture Board as well as the Horticultural Research Stations have been formed.

The Maharashtra State took the initiative to organize the exports. A team of professional growers and a few dedicated officers were sent abroad to study the marketing of grapes and the infrastructure requirements. Soon after that the project was prepared and the farmers' cooperatives covering some 4000 families was formed. Mahagrapes is a registered organization with the aim of marketing produce on the domestic and the export markets. The holdings being small, mobile pre-cooling units were the only answer. They were locally designed and put into operation. The cold storage in India is hundred years old and all the machinery is manufactured locally at competitive prices. For Mahagrapes very colourful cardboard boxes for 2 kgs of fresh grapes were designed. A humble beginning was made to ship grapes by reefers containers. In the 1992 season 6,600 t were shipped to Europe on behalf of Mahagrapes. From Bombay it takes two to three weeks for the consignments to reach the European market. This new export venture gave a lot of confidence to people involved and opened up export avenues for other fruit. Many private companies like Godrej, Kalyani Agros, ITC, Freshdrop and G.M. are to enter in a big way offering a variety of products.

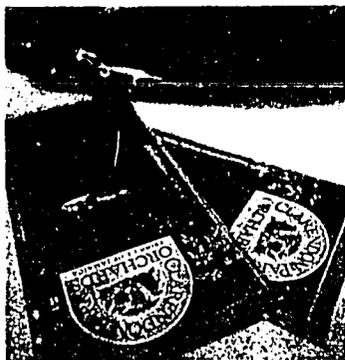
According to *Gokul Patnaik*, chairman of Apeda, India has the potential of exporting 100,000 t of fresh fruit and 50,000 t of vegetables annually in the course of the coming years. With shipments by reefer containers getting very popular many new iteras and products spread over a larger part of the world should be possible.



Vine grower at Ozar in the state of Maharashtra inspects his vineyards.

Jamaica expects jump in tropical fruit production

Papaya and mango output to leap forward



New corporate investment in Jamaica

TROPICAL fruit growers in Jamaica are increasing production of papayas and mangoes in the expectation of capturing one fifth of the total European market for these two fruits within two years. And much of this new expansion in production on the Caribbean island comes from corporate investors keen to take up the opportunities that are appearing in the export of these non-traditional fruits to the EC.

"Papayas and mangoes are already among the leading tropical fruits consumed in major EC markets", said Diane Edwards, senior trade commissioner at the Jamaica Trade Commission in Brussels. "We believe there is still great potential to grow sales". Jamaica's fruit sector is braced for a massive increase in production of a range of mainstream commercial varieties in the next half-decade: papaya production is set to climb by 70 per cent as 200 hectares of new farming land is planted with papayas to add to the 350 hectares already in full production, while mango production should jump by 200 per cent over the next four years.

Indeed, Jamaica's fruit export sector has already been quick to profit from the steady expansion in year-round demand for tropical fruits in Europe. The Jamaica Trade Commission reports that Jamaica doubled to 12 per cent its share of total EC sales in just three years while European demand for papayas and mangoes expanded by 20 per cent in the five years to 1992.

Solo, the commercial American variety, constitutes the large majority of papaya production in Jamaica

while mango plantings are made up of Tommy Atkins and Keitt rather than local Jamaican varieties, said Ms Edwards.

The Jamaican government has sponsored initiatives to diversify the country's agricultural sector into new export products. It has not had difficulty in finding buyers for its substantial holdings in the country's farming sector. The business and banking sectors in Jamaica have been attracted by the new opportunities in development of papaya and mango exports in particular. For example, NCB Investments Ltd, part of the National Commercial Bank Group, one of Jamaica's leading financial institutions, is funding tropical fruit production on part of 400 hectares of prime farming land close to Kingston, Jamaica's capital city. Clarendon Park Orchards has already turned over 50 acres of land to papaya production.

Meanwhile, Jamaican fruit growers have been able to take advantage of improvements in high quality freight links with Europe. While the availability of air-freight poses few problems, the high costs involved have not helped them compete effectively against sea-freighted arrivals from Central America. However, successful trials of sea-freighted shipments of papayas and mangoes, brought in reefer containers on board modern reefer vessels carrying bananas to Western Europe, are expected to give Jamaican tropical fruit producers a greater competitive edge. Not surprisingly, Jamaica Producers Ltd, the UK-based company which has recently extended its holding in the island's banana production, is also involved in the new production of papayas and mangoes. The company has recently acquired some 2,000 acres in production in the Belvedere region of Jamaica, Ms Edwards told Eurofruit Magazine.

Exporters are hopeful of marketing larger volumes of papayas and mangoes in established tropical fruit eating markets like Germany and the Beneluc countries. To date, Jamaican fruit sales have been concentrated in the UK, where their share of total papaya and mango sales is already strong. Fruit has been exported into major Continental European markets for some years. They will have been

boosted by recent developments: well-placed trade sources told Eurofruit Magazine that two leading Jamaican papaya growers have now concluded a lucrative, first-time contract with the leading supermarket chain in the Netherlands. ■

Exporter sees higher exotic fruit sales

EXOTIC fruit sales in Europe show great potential for growth because general levels of per capita consumption of a range of exotic fruits are still comparatively low, says one of Colombia's leading exporters of exotic fruit and vegetables.

"European consumption of apples is one hundred times higher than demand for some exotic fruit types", Néstor Gutiérrez of Bogotá-based exporter Frutierrez Ltda told a MOFEL trade seminar. "And increased demand for high quality, higher value exotic fruits and vegetable could help to dispel some of the recessionary impact in other parts of the fresh produce sector".

The value of exotic fruit exports from Colombia has grown from \$150,000 in 1988 to an expected \$5m in 1993, Mr Gutiérrez said. Further large increases are expected, with mangoes the best placed to record new sales. Three thousand hectares of mangoes have been planted in Colombia in the last five years.

New possibilities to sea-freight fruit in reefer containers could halve transport costs, said Mr Gutiérrez. These lower costs should help increase shipments.

But leading Swiss food retailer Migros, whose sales of exotic fruit and vegetable sales account for seven per cent of SFr1.1bn turnover on fresh produce, reckons further growth in exotic sales is unlikely. "The boom is over for some exotic items", said fresh produce trading director Hans-Rudolf Möri. Migros does not expect future sales of exotic fruits to enjoy the same rates of rapid growth as in the 1980s.

The exotic fruit sector needs to concentrate on higher quality to allow better producers to prosper and to encourage higher rate of purchase at the point of sale.

Ivory Coast pins hopes on pineapples

New European "panel" system in the pipeline

THE LEADING pineapple exporters in the Ivory Coast are planning a series of wide-ranging changes to their sales and distribution network in Europe in an effort to recover market share lost to major competitors in recent years.

"The Ivory Coast pineapple sector is looking for the best way in which to market its fruit in Europe", OCAB executive director Emmanuel Dolly told Eurofruit Magazine. "Last season we had over 50 European importers handling our fruit. To achieve the best results, we should have not more than 12 to 15". Eurofruit Magazine understands that a small number of receivers of Ivory Coast pineapples is planned for each major export market in Europe. The Ivory Coast believes these changes are vital if it is to grow exports to Europe to 200,000 tonnes by 1995, a sharp rise on the 130,000 tonnes of pineapples expected from the Ivory Coast this year.

OCAB, the Ivory Coast pineapple and banana producers' association, was created in 1991 by the West African country's 20 leading tropical fruit exporters to promote pineapples and bananas.

The 12 largest exporters represent over 85 per cent of fruit sold in Europe, says OCAB. Since then, the association says it has helped to introduce a number of far-reaching changes to the pineapple sector in particular which are intended to improve its competitive position in Europe.

Ivory Coast pineapple exports have been hit by cheaper, higher quality fruit from Central America in particular. For example, pineapple exports from the Ivory Coast to Germany dropped from 16,820 tonnes in 1989 to just 9,280 tonnes in 1991 against an increase in supplies from Costa Rica and Honduras from 15,400 tonnes in 1989 to 20,500 tonnes in 1991.

OCAB believes this reduction in the number of receivers of Ivory Coast fruit in Europe will help increase returns to producers. It should help to reduce some of the fierce market competition which has hit high-cost African pineapple growers in particular, it says. But the association's plans have already been criticised by some established



OCAB executive director Emmanuel Dolly

importers in Europe, while others question whether Ivory Coast pineapple producers will ever be able to overcome the cost advantages of their counterparts in Central America.

OCAB is confident the efforts of its members to improve the quality of pineapples exported to Europe will improve their market position. Veritas, an independent company, was hired two years ago to enforce more rigorous quality control procedures in the field, packing station and at the port. OCAB has also put together a system to collate important statistical data on production, exports and market sales which it says allows it to improve the programming of the season.

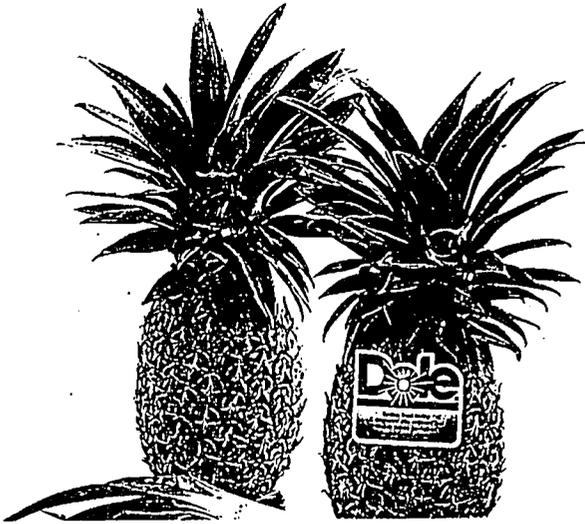
At the same time, the Ivory Coast pineapple sector has moved to ratio-

nalise its pineapple discharge operations in Europe.

Twice-weekly, year-round sailings to Europe are planned, with discharge operations concentrated in France, at the port of Dieppe for northern Europe and in Marseilles for southern European markets. OCAB told Eurofruit Magazine that the transfer earlier this year of discharge operations from Antwerp to Dieppe will help pineapple exporters to reduce discharge costs by almost 30 per cent and arrival times will allow them to get fruit to market one day earlier. Dieppe and Marseilles are also closer to main markets, says OCAB: last season 60 per cent of the 52,000 tonnes of Ivory Coast pineapples discharged in Antwerp in 1992 were redirected to markets in southern Europe. ■

New boost to Dole pineapple programme

European shipments set to grow 20 per cent in 1993



Shipments in 1993 will be up 20 per cent

DOLE FRESH FRUIT EUROPE has imported pineapples into Europe on a continual basis since 1988. Its parent company can trace its involvement back much further: founder James Dole began growing pineapples in Hawaii in 1901. Exports to Europe have rocketed in recent years, up from 4,600 tonnes in 1988 to 35,600 tonnes in 1992. According to Charles Pratt-Yule of Dole Fresh Fruit Europe, shipments to Europe are forecast to rise to 3.6m (12kg) boxes this year, up 20 per cent on 1992 figures.

Mr Pratt-Yule told Eurofruit Magazine that market demand for pineapples still varies enormously across Europe. The fruit is best known in southern Europe, while per capita consumption is highest in Switzerland and France. To some extent this is said to reflect the activities of specific importers and retailers who have played a strong role in promoting pineapples by giving them good shelf space, running in-store sampling and providing consumers with product information on origins, ripeness and usage.

"As a result there is a higher rate of penetration in countries where there are a greater number of consumers buying pineapples on a regular basis", commented Mr Pratt-Yule. "This higher consumption is also a reflection of longer experience with the product. The activities described above are expensive and not really all that common."

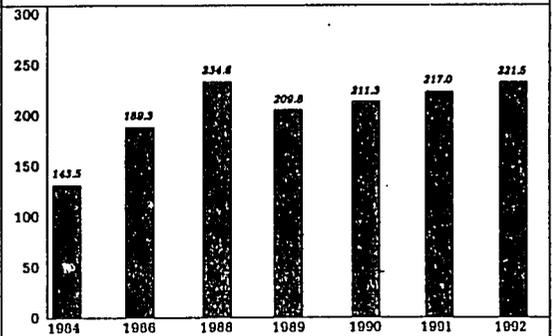
Dole believes that there are in fact few customers able to differentiate between the different pineapple shell colours. Like many other fruits, it is the product itself which is its own best advertisement, Dole claims. Nevertheless, if the quality and taste of the fruit is good enough to bring consumers back on a more regular basis, then specific preferences in this respect will undoubtedly develop.

Varieties

Dole says it is continuing work on the research of new varieties and growing methods in order to improve consumer acceptance of pineapples. Trials have been conducted with new varieties like Champaka, but further development work is called for if a viable alternative is to be created to Smooth Cayenne, according to Mr Pratt-Yule.

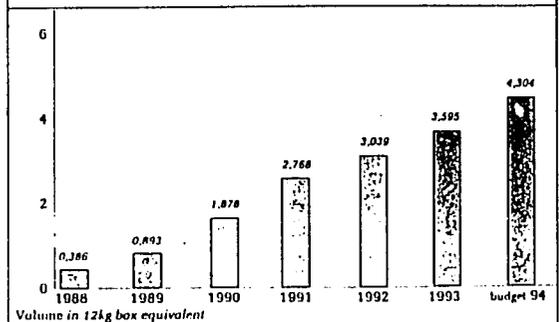
Dole cools and packs all of its pineapples at its own plantations in Honduras and the Dominican Republic. Fruit is also purchased from six independent growers in Costa Rica who work to the company's quality specifications. Dole says it is now equipped to transport all pineapples to Europe either on pallets or in containers. Approximately 70 per cent of all shipments are containerised. ■

The European Pineapple Market ('000 tonnes)



Source: FAO, Eurostat, national statistics, estimates

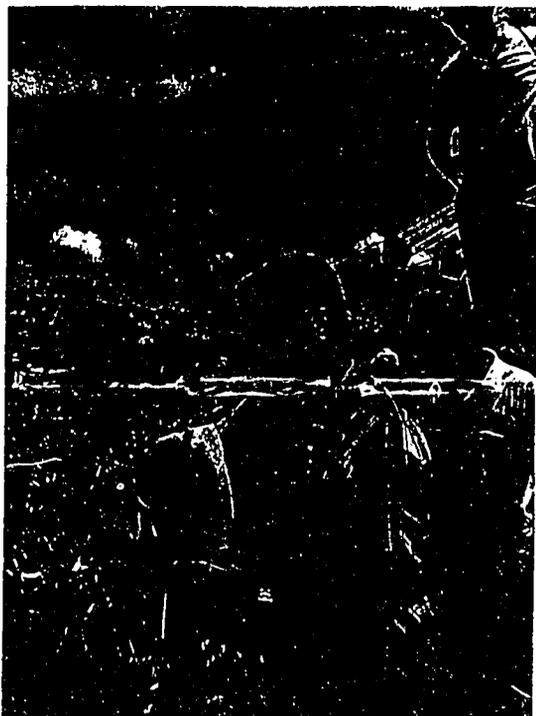
Dole pineapples: European sales development (million boxes)



Source: Dole Fresh Fruit Europe statistics

Pineapple crowned by production growth

New variety can replace Smooth Cayenne, says Costa Rican pineapple grower



Rolando Vargas, production manager at Cabo Marzo, cuts open a pineapple for the importers to taste

CABO MARZO, a supplier to Dole, has been producing pineapples in the northern region of Pital since 1991. The company currently has 250 hectares under commercial production, with a further 500 hectares earmarked for future plantings. Production manager Rolando Vargas estimates this year's export crop at 800,000 (20lb) boxes, with shipments forecast to rise to 2.4m boxes in 1994. "Supplies to Dole will account for approximately half of next year's crop", he told Eurofruit Magazine. "We're now looking for other clients in Europe who would be interested in importing the 1.2m box surplus."

Land is expensive in Pital — around US\$4,000 to \$5,000 per hectare — so high density production methods are used. Indeed, the pineapple plantations have to be seen to be believed. In some areas, up to 75,000 pineapple plants grow alongside each other in a single hectare. Pickers are equipped with special protective clothing to make their way between the plants, with picking and planting taking place every day of the year.

Champaka

The second factor that makes the Cabo Marzo operation rather unique is its decision to make a varietal changeover from Smooth Cayenne to Champaka, a Smooth Cayenne clone brought in from Hawaii. Carlos Alvarez, managing director of Cabo Marzo, told Eurofruit Magazine that Champaka offers improved yields, better quality and a sweeter taste, in addition to having a more compact shape and an immaculate crown. "Champaka seeds are expensive", he commented, "but we believe the final fruit makes the extra investment worthwhile. We selected Champaka quite simply because it is the best variety in the world for fresh consumption. It has beautiful pale, creamy flesh and very high brix levels."

Mr Alvarez believes Pital offers the best growing conditions for pineapples to be found in Costa Rica. The climate ranges from 18°C to 33°C and the soil pH factor at 5.4 is considered ideal for pineapples.

Costa Rican pineapple production is forecast to rise to 16m (20lb) boxes over 4,800 hectares next year. Of this

total, approximately half will be produced by Del Monte growers and the rest by independent companies like Cabo Marzo. Around 70 per cent of the export crop is currently destined for Europe and the remainder for the USA. "We're very confident that we can find new buyers for our crop", commented Mr Alvarez.

Cabo Marzo currently ships pineapples to Europe from the Caribbean ports of Puerto Limón or Moín to Hamburg, a journey which takes 12 to 14 days. It has a large packhouse at its Pital farm, with a modern packing line. ■

Fresas del Llano looks to 100,000 flat export crop

ALVARO FIGUEROA follows the US market prices for berries every day. His family-run company Fresas del Llano S.A. is a major berry producer in Costa Rica, exporting over 100,000 flats to the USA and Europe every year. Based in Cartago at an altitude of 2,200m, Fresas del Llano lies in the folds of the Irazu volcano. Its farms produce strawberries over 40 acres and blackberries over five acres. Chandler, Oso Grande and Parker — a Californian variety — are the main strawberry varieties grown. "We began business seven years ago when the Costa Rican government first began promoting the development of non-traditional exports", said Mr Figueroa. "We've been shipping to Europe for the past five years and we believe that we have a good understanding of the market. In that time, we have had to make several adjustments to our packaging." Fresas del Llano is now looking for new clients in Holland, Belgium, Germany and the UK. The company says it can airfreight berries from November to February, with the programme stopping at the start of the Spanish season. Shipments are presently carried out in LD3s via Miami.

Feature

Pineapple Canning

Pineapple canning, a long established trade in Thailand's food industry, has had modest growth in the past few years. Award-winning Siam Food Products' experience demonstrates that amidst intense competition, saturated export markets and rising costs of production, pineapple canners can still make a profit.

Consolidation through integration

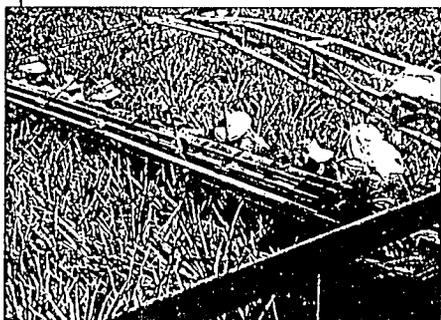
VISITING one of Thailand's largest pineapple processors, one would expect to see a high level of automation with minimal human intervention on the factory floor. Instead, what greets the eye at Siam Food Products is an imposing sight of 3,000 workers, with their nimble fingers, busily carving the freshly peeled and cored pineapples. Mechanisation is obviously not sufficient to boost a profit. In fact, according to the company's president, Adul Pinsuvana, the human eye is still the best instrument for such tasks as pruning, selecting and checking the appearance, colour consistency and quality of the fruits. Such highly skilled manual labour, together with an integrated production concept from farming to packaging, has ensured close moni-

toring of product quality, allowing Siam Food Products to achieve success in its export markets for over 20 years.

A fully integrated operation

For Siam Food Products, a vertically integrated production concept has resulted in high quality products, economies of scale and lower costs of production. From farming and cultivating its own pineapple crops to manufacturing and fabricating its own processing machines and cans, Siam Food Products has integrated these challenging processes, not conventionally undertaken by other smaller canners, successfully into the entire operation. Recently, the company completed the process of extending the use of its five month old cleaning-in-place (CIP) system from the steriliser, juice evaporator and aroma recovery plant to other critical areas of the production.

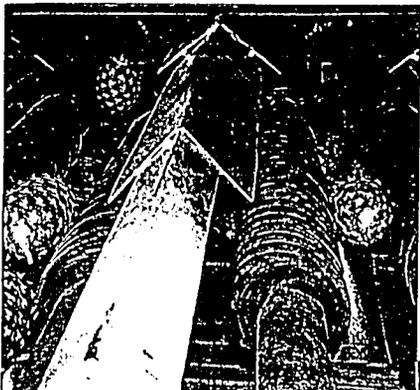
At the plantation Beginning at the



170,000 tonnes of pineapples are harvested daily with a combination of manual and mechanical assistance.



PINEAPPLE CANNING

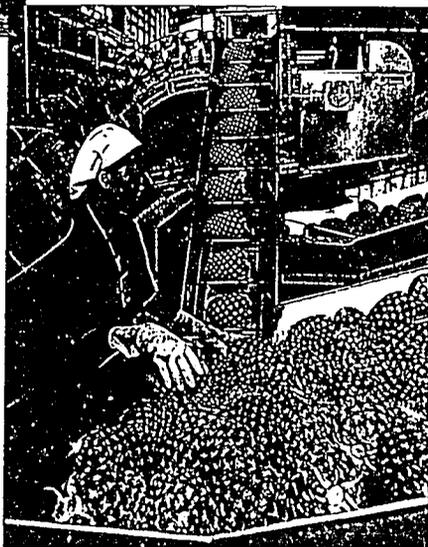


Pineapples are graded according to size in this screw grader.

farming stage, Siam Food Products made bold steps by opting to cultivate and grow its own pineapple crops even though contract farming appeared a more prudent solution to the problem of raw material sourcing. In 1972, it invested in its own 8,000 acre plantation and pioneered pineapple growing and processing in the eastern region, where the so called "Sriracha" pineapple, well known for its better taste than the original "Pran" pineapple grown in the west coast, was grown. Today, this same plantation has grown into a 50,400 acre plain, where 170,000 tonnes of pineapples are harvested daily. Together with its contract farmers who take care of 75 percent of their production needs, the plantation can supply the pineapples for the cannery's own processing activities and even fresh unprocessed varieties for exports. To complement its pineapple canning operations, a whole host of other fruits such as papaya, banana, guava and asparagus are grown and processed, either together with the canned pineapples or on their own during the off peak seasons.

Raw material handling

From the plantation, harvested pineapples, with their crowns and suckers removed, are loaded onto lorries and trucks according to sizes to facilitate further grading. At the cannery, they are directly unloaded onto three dumping stations. Continuous conveyors which run from the dumping stations transport the pineapples to the



Even though the peeling and coring operation has been automated, two workers are still required to manually load the fruits.

washing area to be cleaned by overhead jets of warm and cold water before being transferred to the graders. Sizing is done in two main graders via pre-set screw mechanism which uses the distance between two screws to grade the fruits into large: 13cm and small: 10.5cm to 13cm.

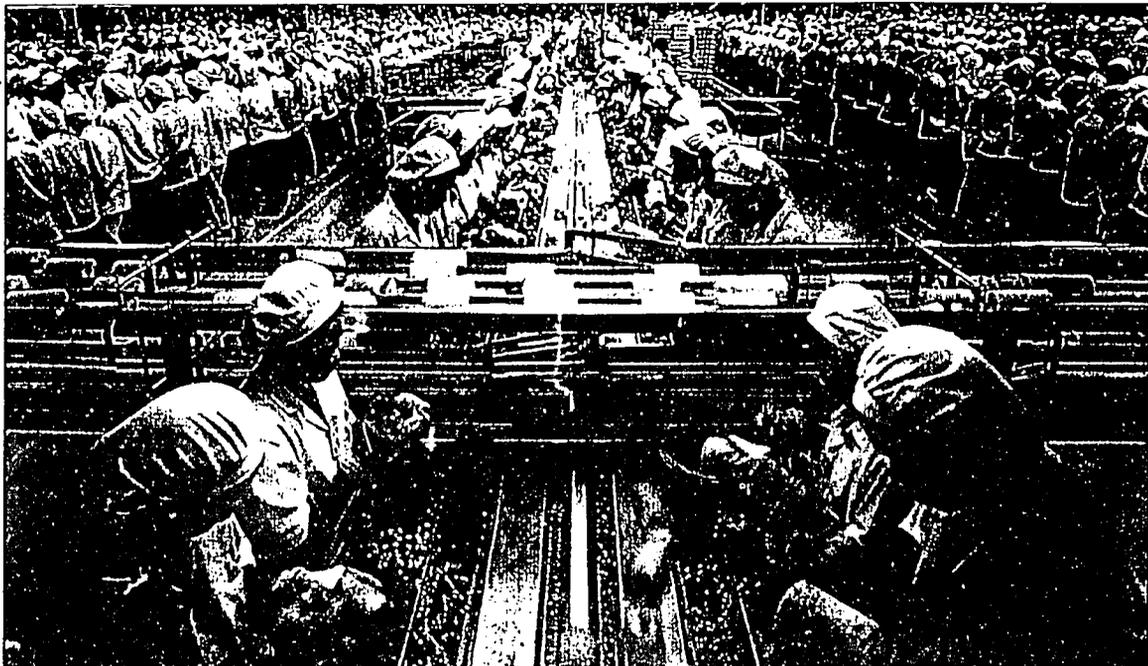
Graded fruits are dropped onto a second set of conveyors and sent to the 20 Ginacas: two-in-one peeling and coring machines with

a combined capacity of 80,000 tonnes an hour, designed and manufactured by the company's own engineering department. This expertise arose mainly from experience in repairing its first few Ginacas bought from suppliers. "We were buying and repairing so many Ginacas that we subsequently learnt the mechanics of the machines and found a more cost effective way of dealing with them: manufacturing them ourselves." Pinsuvana said.

Each Ginaca is manned by two workers who load the fruits onto elevated conveyors leading to the machine. Here, a curved knife blade and chopper mechanically removes the skins, heads and tails. These rejects are transferred to the screw press via a belt conveyor running adjacent the machine. The cores, on the other hand, are removed by centrifugal forces and sent to the juice extractor via another conveyor parallel to the machine. The pared and cored pineapples are dropped via slideways onto belt conveyors leading to the trimming/slicing/dicing operations.

Slice, dice and bite size The most labour intensive part of the processing operation, the trimming, slicing and packing tasks are manned by 1,200 workers lining 20 conveyor tables. There are approximately 4 lines for each of the different cutting and packing styles: slices, cubes, tid bits or crushed and each line is in turn divided into three stations:

PINEAPPLE CANNING



This imposing sight of 3,000 workers demonstrates that the human eye is still the best instrument for such tasks as carving the pineapple eyes and improving the appearance and texture of the fruit.



Workers stack the pineapple slices neatly and fill them into cans of various sizes.



A careful selection process based on texture, colour and size is required prior to packing to ensure that only the best pieces reach the consumer.

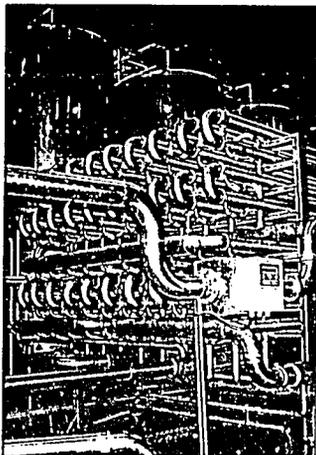
trimming, cutting and packing.

At the head of the conveyors, 45 workers carve out the pineapple "eyes" and in general, improve the appearance and texture of the fruit before placing them onto the central groove to be conveyed directly to the cutter. At the canning lines for sliced pineapples, single knife slicers cut the pineapples into rings of equal thickness and channel them to the packing station to be visually selected and manually filled into 8, 15, 20, 30 or 108 ounce cans. Urshel dicers, with 3 tonne-per-hour capacity, perform the task of cutting the pineapple into cubes at the cube canning lines while multi-plate cutters reduce the pineapples from slices to small tid bits.

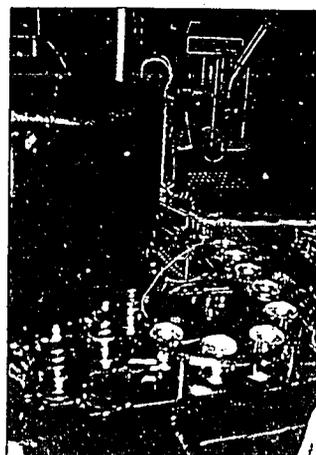
Manual labour assists in the operation by pushing the fruits into the slicers and visually inspecting for any discoloured or bruised pieces occurred during cutting before they are conveyed to the filling stations.

Juice extraction The juice material obtained from the extracted pulp of the whole fruit is passed through a screw finisher, for coarse pulp reduction. This juice is then passed through an APV rising and falling film ("high pulp") plate evaporator where aromas are extracted under controlled conditions and subsequently recovered in the APV essence recovery system for eventual introduction to finished product, or for separate sale.

PINEAPPLE CANNING



APV equipment complements manual labour on Siam Food's production floor.



Juice is used as a packing media for the sliced, diced and crushed pineapples.

Aromas would otherwise be lost during the subsequent evaporation process.

To reduce handling volumes during transportation, water is removed from the juice by evaporation in two 20,000 kg-per-hour APV falling film plate evaporators. Final concentration of juice may vary according to the end buyer's requirements but will vary from 60°Bx to 72° Bx. Finally, concentrate may be either frozen or processed aseptically in the APV aseptic plant for aseptic packaging on an Intasept bulk filler. A new product which Siam Foods have recently introduced is milled juice, which is obtained from peels that are chopped and pressed in a screw press and then clarified by means of ultrafiltration at low temperature through a 14,000 kg-per-hour APV mill juice evaporator. This product is popular with international blenders who require a relatively bland fruit based syrup to use as a base for some of the more exotic tropical juice blends. Thereafter, the juice is sterilised in APV sterilisers at about 100°C



"Pineapple canning is a difficult business and this being a labour intensive industry, our prices are very sensitive to labour costs. Our strategy now is to lower the costs of production." —

Adul Pinsuvana, Siam Food Products' president.

for 30 seconds and cooled to 45°C and chilled to 18°C.

Canning Due to the delicate nature of the fruit, pineapple slices, cubes and tid bits are filled manually into oncoming metal

cans transported via a newly acquired US\$1.2 million can handling system. The system transfers the cans directly from the warehouse to the packing station via chain conveyors. Cans are manufactured at the company's own canmaking plant which houses a batch of Can-o-mat machines from Krupp, the first of its kind in Thailand. Each Can-o-mat is capable of producing 38,000 20 ounce cans per hour.

After manual filling, juice is injected into the cans. The final products after seaming, are transferred into a series of retort cages before batch-sterilisation in 17 atmospheric cookers at 95°C to 97°C for 18 minutes. Sterilised products are cooled in a water bath filled by overhead jets of cool water. A Sanco dryer removes any remaining moisture from the cans. Manual palletising of cans follows this operation, after which the cans are set aside for labelling the following day.

When labelling has been done, the aseptically packed juices and concentrates are sent to the 90,000 gallon cold room for storage

at 5°C while canned fruits are stored at the dry warehouse.

A competitive market Although Siam Food Products has achieved considerable success in its export enterprise over the past 20 years, the company is faced with shrinking markets for its products. "The market is getting smaller and smaller, especially during the past two years. The demand is always there but the supply is aplenty. Prices are not increasing, yet labour costs are escalating," Pinsuvana lamented. As a survival strategy, Siam Food is exploring new markets such as the eastern Europe and South America. Currently, the company exports 99 percent of its production, its main markets being Europe (45 percent), the United States (35 percent) and Japan (10 percent). Also under way are tests on extending its aseptically processed pineapple crush to tidbits and chunts, for which there will be considerable demand. To further improve its competitive edge, the company is making concerted efforts to maintain, if not, lower its costs of production. "Pineapple canning is a difficult business and this being a labour intensive industry, our prices are very sensitive to labour costs. Our strategy now is to lower the costs of production."

An abundance of resources As revealed on the factory floor, the human element is an important component in all its production stages from farming to packaging. Tasks such as removing the pineapple 'eyes', inspecting their colour and texture, sorting them for the various juice extraction and canning procedures as well as trimming, dressing and filling the fruits are still handled by the company's well-trained team of workers. As Pinsuvana indicated, depending on the time at which the fruit is cultivated, the colour consistency differs from one pineapple to another, and at times, even within the same fruit. Due to such phenomenon, the human eye is the most effective instrument for sorting the good and bad parts of the pineapple based on the colour intensity and sending them to the relevant channels for processing into either

PINEAPPLE CANNING

canned fruits or juices. After the pineapples are cut and diced by mechanical slicers and dicers, 1,500 workers are again utilised to help trim away the raw edges before filling them into cans. Even at the automated production stages such as that of peeling and coring, which is performed by Ginacas, 30 workers are needed to manually load the fruits onto inclined conveyors leading to the rotary peeler. Such labour-intensive operations has made human resource a current preoccupation with the company. "Pineapple is a commodity. Because it has been in the market for a long time, it is not

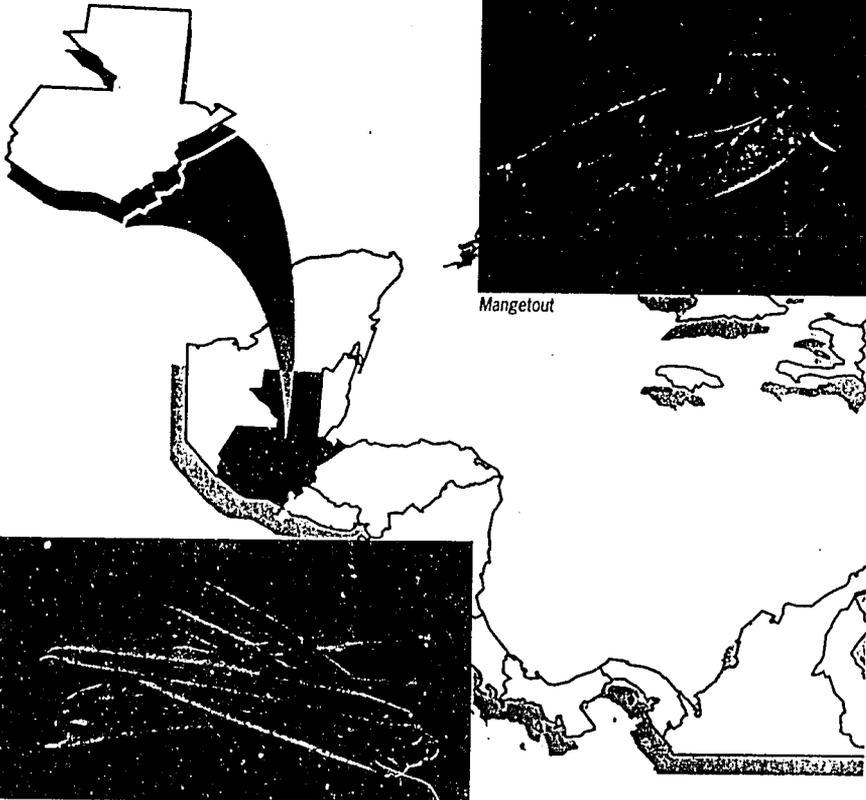
exotic anymore and demand is not as high as it was years ago. The only way to remain competitive now is to lower your production cost." In line with Thailand's rapid economic development, the level of minimum wage has increased substantially, thus making labour more expensive. Automation can save these costs but as Pinsuvana explained, machines can only replace the human element for certain stages of the production such as peeling and coring.

Having realised the importance of human resources, Siam Food has executed some concrete incentives and privileges for

their 3,000 strong staff. "People are one of our most valuable resource. If you want them to stay, you have to keep them happy," Pinsuvana said. For this reason, the company provides lodgings for all its employees within its plantation compound and various other welfare benefits to boost their morale. Nevertheless, the company will continue its efforts to automate in tandem with the latest developments in pineapple processing and packaging technology.

APFI





Mangetout

Runner beans: a line with potential

Investing in the future

'Saphir and SIESA's investment in exclusive cooling facilities brings with it a new dimension to trade and offers greater opportunities for the future'

GUATEMALA has the potential to become an even greater supplier of high quality, out of season speciality fruit and vegetables to the UK and European markets and, if the development of the industry continues along its present lines, backed by heavy investment in new facilities amongst progressive producers, this opportunity will be taken.

Many in the UK trade have become familiar with Guatemalan mangetout, which has been arriving in Britain for a decade or so but a broader range of produce is beginning to appear. Producers and exporters there are becoming better equipped and organised to meet the needs of demanding markets in Europe and some believe prospects look very bright indeed.

Agriculture in Guatemala, which is situated in Central America, to the south of Mexico, is based on three distinct areas of production. The dry lowlands along the Caribbean coastline are the hub of banana and melon output and here a full range of varieties, in particular Cantaloupe, can be produced in volume over an extended season. The Pacific Coast, on the other hand, represents the main growing area for sugar cane, cotton, arable crops, mangoes and coffee, the latter being Guatemala's biggest export line.

The most important area, however, is the Highlands - a Volcanic band which runs through the middle of the country, with altitudes between 5,000 and 8,000 feet above sea level, enabling the production of a host of temperate fresh fruit and vegetables. Here avocados and berry fruits and high value vegetables have been identified as having significant export potential reflected in increases on this front over the last couple of years.

Currently much of this produce is channelled to the USA though Europe and, in particular the UK, are increasingly being viewed as potentially appealing markets. Growth in the short term is being held back by exchange rate differentials, however, which will only improve when the recession lifts.

In terms of infrastructure, the industry is based to a great extent on small farmers, each with units of around one hectare. Recent years have seen the formation of co-operatives plus larger groupings comprising several of these, which have been successful up to a point.

While these developments have brought about more cohesive marketing in some lines, the infrastructure of small growers does lead to uncertainty over the control of pesticide usage, however. The Guatemalans, aware of changing market needs, have tried to address this issue and, for the first time, the Association of Non-Traditional Product Exporters is considering a voluntary ban on exports to the USA during the mid July to mid October period - the rainy season when the need for pest and disease control is at its highest.

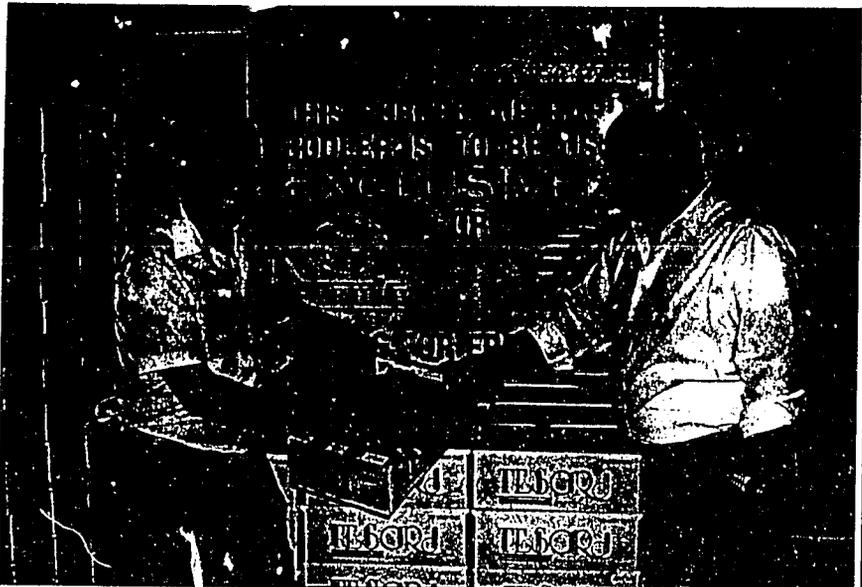
Another difficulty faced by growers is the problem of air freight. Currently there is no direct air route to Europe with any capacity and, as a result, product has to be directed to the US and then be transhipped adding one day's journey onto travel time. Sea freight is being trialled for some lines, but this initiative is still very much in its infancy.

Despite this background, Guatemala still has much to offer and a number of progressive UK importers are steadily cultivating relationships with growing groups there.

The most successful development of this type has been the collaboration between Saphir International and SIESA, the Guatemalan growing and exporting organisation which, through the efforts of brothers Carlos and Willy Springmuhl, has increased exports of its premium quality vegetables to more than 2,200 tonnes annually.

As Philip West, Saphir International's general manager,

(continued on page 20)



Above: From left to right, Peter Austin, managing director of Saphir Produce and Bill Khoury, managing director of freight forwarder Carinter, celebrate the opening of Saphir International's exclusive new cooling facility in Miami.



Left: Sugar snap peas - a line which shows tremendous promise for the future.

'What is most impressive about SIESA's set up and operations is its high level of professionalism and the will to provide exactly what customers want, when they want it'



explains: "We have been dealing with SIESA, one of the largest Central American export organisations, for around nine seasons and during this time have successfully sourced a comprehensive range of produce to fill distinct windows in the UK calendar."

Today, the portfolio includes runner, Helda and round beans, mangetout, sugar snaps, baby courgettes and a number of squashes - all of which have been well received on the British market. Several other lines are currently being trialled from raspberries and blackberries to leeks and salad onions. According to Edgar Garcia, SIESA's technologist based in Guatemala, jointly funded by Saphir: "The full potential of the volumes we could supply has yet to be reached if demand continues to rise at the pace shown in recent years."

SIESA, based in the Highlands, has around 328 acres of land devoted to these crops, organised on three farms, and also acts as the marketing agent, with Saphir, for 146 growers involved with the Magdalene Co-operative.

Mr West adds: "Apart from providing a wealth of year round growing opportunities, the microclimates of the Highlands spread the risk of losses caused by adverse weather."

Much of the produce is grown on the sides of extinct volcanoes with mangetout and sugar snaps very much to the fore - supplies peaking at around 30t and 25t a week, respectively, during their respective seasons spanning November to May and October to June.

In addition to traditionally packed loose product, produce is also packed and labelled at source and then flown to Miami on daily chartered freighters where it is cooled overnight before being flown to Europe on scheduled airlines the following day.

SIESA, backed by Saphir International, in an exclusive arrangement, has recently installed a new forced air rapid cooler capable of handling up to 12 tonnes of loose and prepacked vegetables every three hours.

As David Conway of Saphir International comments: "This is just one of a series of investments which are putting SIESA's Guatemalan vegetables onto the shelves of Europe's major supermarkets."

This is backed up by stringent checks on the quality control front including tight monitoring of pesticide applications to ensure compliance with the Food Safety Act.

"What is most impressive about SIESA's set up and operations is its high level of professionalism and the will to provide exactly what customers want, when they want it," he says.

Fine vegetable exports maintain growth

Pre-packs our speciality, says Tropical Splendor



Verónica Barillas, managing director of Tropical Splendor

ALTHOUGH Tropical Splendor has only been in business for five years, it has already developed a strong client base in Europe with special pre-packing orders carried out for German importer Weichert and Dutch importer Hispafruit. It is also a regular supplier to other well-known European importers like Wealmoor, Exotimex and Trofi. "We know that very special quality is required for Europe", managing director Verónica Barillas told Eurofruit Magazine.

Tropical Splendor packs its vegetables in 2.2kg net cartons. Mangetout and sugar snaps can also be packed in 150g plastic trays covered with plastic film. "We pack these 27 to a tray and they're very popular in Holland and Germany", said Ms Barillas. "We're very careful to ensure that we choose only the very best vegetables from each crop, then pre-cool and pack them carefully in order to preserve their natural characteristics." ■

"Demands are very specific. We make sure we meet these requirements by giving the correct seeds to our growers, the right information on pesticide use, handling and so on. Quality, consistent supplies and special service lie behind our success. We're now ready to enlarge our business with Europe."

The main lines Tropical Splendor exports to Europe include mangetout, sugar snaps, French beans, mini vegetables (courgettes, green and yellow squash) and green asparagus. Weekly availability currently stands at 12 tonnes for mangetout, eight tonnes for sugar snaps, two tonnes for baby vegetables and four tonnes for French beans. "Although all of the vegetables can be produced throughout the year, peak shipments are from October to May, prior to the start of Guatemala's rainy season.

Guatemala's largest cooperative invests in new facilities

CUATRO PINOS, Guatemala's largest cooperative, brings together some 1,650 growers from the central highland regions, with an average annual production total of 5m lbs. Miguel Angel Socop, president of Cuatro Pinos, told Eurofruit Magazine that production is forecast to double over the next couple of years as the cooperative invests in new infrastructure to cope with additional volumes.

Established in 1970 with financial and technical support from Swiss organization Heks, Cuatro Pinos has exported fresh vegetables since 1981. Its product range includes mangetout, sugar snaps, French beans, courgettes, bunched onions, blackberries, runner beans, raddichio, leeks, broccoli and raspberries. Eighty per cent of its exports are destined for the USA and 20 per cent for Europe. "We're now the largest producer of mangetout in Guatemala", said Mr Socop. "We pack 5,000 (10lb) boxes of mangetout each day and anything up to 30,000 boxes per day in full season."

Cuatro Pinos says its current headquarters and facilities cover 14,500m². Its packhouse can handle up to 300,000 lbs of produce per week, with cooling and storage facilities available for a further 150,000 lbs.

Saphir plans larger programme with Siesa

Guatemala complements our business, says David Conway



Saphir is now looking at the possibility of extending its business with Guatemala

UK importer Saphir International plans to airfreight 1,500 tonnes of fine vegetables by air this season from its Guatemalan supplier Siesa. Now the UK's leading importer from Guatemala, the Albert Fisher-owned company sells most of its vegetables from this source to the supermarkets, with considerable quantities pre-packed at source. David Conway of Saphir Produce told Eurofruit Magazine that Guatemala fits in very well with the company's supply programme. Zimbabwe is Saphir's leading vegetable supplier from May to November and Guatemala from November to May. "The two countries complement each other perfectly", commented Mr Conway. "Over the past five years, Guatemala has become an increasingly important source of supply for us. There is constant dialogue between Siesa's technologists and our own to ensure the products attain the increasingly high standards and volumes required."

Based in the highlands just outside Guatemala City, Siesa's farms are owned and run by Carlos Springmuhl and his brother Guillermo. The Springmuhl family's own farms are complemented by those of approximately 180 outside growers, some of whom are members of the Magdalena cooperative. Mangetout, sugar snaps, runner beans and asparagus form the bulk of Saphir's

programme, together with a large project of mini-vegetables. "Over the past year we've seen a steady rise in demand for mangetout and sugar snaps", said Mr Conway. "In fact, the UK is now the leading market in Europe for sugar snaps. We've tried selling them into other European markets and we're confident that they will eventually follow the same trends as the UK market."

Saphir has exclusive international marketing rights for Siesa's vegetable production. Last year it even carried out four shipments of Guatemalan produce to Australia, a venture that was relatively successful in spite of the high costs.

All produce destined for the UK is airfreighted through Miami, using scheduled daily flights and Saphir's forced air cooling facility which is based on the premises of freight forwarder Carinter. New improved handling systems with Saphir's main carriers British Airways and American Airlines are also under development.

"The use of Miami has evolved since the demise of Pan Am when direct flights from Guatemala to the UK stopped", said Mr Conway. "Guatemala's national airline Aviateca offers two daily flights from Guatemala City to Miami on five days of the week and one flight per day the rest of the week."

Saphir is now looking at the

possibility of extending its business with Guatemala to include fruit. Mr Conway told Eurofruit Magazine that pitabayas and berries could be first on the list. "Siesa is very receptive to our needs", Mr Conway commented. "The Springmuhs have made every effort to ensure that their produce is of the right standards for the supermarkets, including full knowledge of pesticide use. We're now looking to develop our programme with them further." ■

San Juan turns to Europe as production climbs

SAN JUAN AGRO EXPORT is a medium-sized family company run by two brothers, Tulio and Victor García Morales. Situated in the hills to the north-west of Guatemala City in San Juan Sacatepequez, the company has been in business now for 17 years. Up until last year San Juan devoted most of its energy to producing mangetout for export to the USA. Annual volumes stood at around 0.5m lbs. Plans are now afoot for a steady increase in exports to a projected level of 6m lbs. Europe is the prime target.

"We have worked with J. O. Sims in the UK and we're now keen to develop sales to other European countries", commented Tulio García. "We are aware of the importance of continuity and quality and the need for a professional approach to business. We have to face tough competition, so we try to add value to our products", he said.

San Juan has a 20 hectare farm of its own and special arrangements with growers possessing a further 80 hectares of land. Runner beans and blackberries are the main items the company handles. This season 160 tonnes of vegetables — mainly sugar snaps and mangetout — will be airfreighted by San Juan to the UK.

Colombia pushes for further growth

THERE are 19 major exporters of fruit in Colombia, eight of which account for 65 per cent of total exports. Eurofruit Magazine spoke to some of the newer exporters about developments in fruit exports from Colombia.

New Colombian mango association formed

OVER the next few years Colombia aims to become a significant exporter of mangoes to Europe, according to Johann Garbrecht, agroindustrial director of C. I. Pizano Trading SA, a Colombian import-export group recently appointed by new mango association Expofrut S.A. to develop export sales.

Mr Garbrecht told Eurofruit Magazine that the production of mangoes for export is a relatively new phenomenon in Colombia. Most of the mangoes are produced on the Atlantic coast and in the regions of Antioquia, Tolima and Cundinamarca. Tolima is said to have the most advanced production techniques, with over 3,000 ha under mangoes and a varietal range which includes Tommy Atkins, Kent, Keitt and Van Dyke. "Most of the trees are between two and six years old, so the industry is still in its infancy", commented Mr Garbrecht.

Expofrut has 75 members who produce mangoes in Tolima and Cundinamarca. They decided to set up an organization to consolidate supplies available for export. C. I. Pizano Trading is responsible for overseas marketing. Mr Garbrecht



Colombian exotics have sold particularly well in the UK

believes that over 60,000 tonnes of mangoes will be available annually for sale on the domestic and overseas markets. Export trials to Europe have already been carried out.

The Colombians believe there are good opportunities to develop sales overseas because they are closer to Europe than some of the other supply markets and because they can harvest mangoes twice a year. Picking takes place from October to mid-February

and again from June to mid-August.

Mr Garbrecht told Eurofruit Magazine that C.I. Pizano Trading also intends to develop its own fresh fruit export project from 1994. The company already exports significant quantities of canned exotic fruits, canned vegetables, jams, coffee and fruit pulps to Canada, Mexico and the USA. Its parent company is the leading Colombian manufacturer of plywood and particle boards



Physalis is one of the most popular items in the range

Ambrosia completes first export year

□ **BOGOTA** based exporter Ambrosia of Colombia Ltda has just completed its first year of exports to Europe.

William E. Cavan Jr of Ambrosia told Eurofruit Magazine that the company had been particularly successful with sales of exotic fruit to the UK market and of strawberries to the UK, Germany and Italy.

"We believe economic recession in Europe reduced our potential growth", said Mr Cavan. "On several occasions, the key issue was price for items that historically moved at higher levels. However, we believe the future is still bright as the items we offer are not widely available elsewhere."

Ambrosia currently has strawberries, raspberries, blackberries, asparagus, mangoes, papayas and seven types of exotic fruit available for export. This year the company plans to export approximately 550 tonnes of fruit overseas. Strawberries will account for 250 tonnes of total exports, exotic fruit 200 tonnes, mangoes and papayas 80 tonnes and asparagus and other items 20 tonnes.

Ambrosia has two farms of its own, one which produces oriental vegetables for the domestic market and another with five hectares of artichokes. The company is also involved in joint ventures with other local growers.

Mr Cavan told Eurofruit Magazine he is sceptical about the development

of seafreight for exotic and tropical produce due to the time involved and the lack of frequency. He added that air transport also presents some problems in that all of the major European carriers make a stop in the Caribbean on their way to Europe. "This makes things especially difficult for asparagus and berries", he said.

Grajales consolidates grape output

□ **CREATED** in 1948, Grajales Hermanos was the first company to introduce grapes to the Cauca Valley. Today the town of La Unión where Grajales Hermanos has its headquarters is widely considered the leading grape producing region in the country.

Oscar Larrota of Grajales Hermanos told Eurofruit Magazine that the company currently has 402 hectares of its own for table grape production. The company is responsible for marketing 80 per cent of Colombia's total grape crop. The grapes are sold in Colombia's leading supermarket chains, in addition to being exported to Venezuela, Ecuador, Brazil, Panama,

Canada and Guadeloupe.

Located to the south-west of the country, the Cauca Valley is situated 980 metres above sea level, with an average temperature of 24°C. Over 1,300 hectares are used for grape production, 70 per cent of which are table grapes. Mr Larrota told Eurofruit Magazine that the main varieties produced include Italia, Queen, Ribier and Siria. The grapes can be picked twice a year, with an average yield of 12 kgs per vine. Around 1,500 vines are planted per hectare, said Mr Larrota.

Dried tropical fruits now available

□ **MANUEL** Julián Dávila, manager M of Industria de Frutas La Samaria, has developed a range of new products which are already being exported to Europe. The relatively new company is shipping dried tropical fruits either in bulk or pre-packed to clients in Germany, Switzerland and France.

The range includes dried bananas, pineapples, mangoes, coconuts and golden berries. "Our proximity to the fruit plantations ensures year-round

availability of the fruit", said Mr Dávila. "We're located in Santa Marta, which as a Caribbean port offers a range of advantages for overseas marketing."

Paraíso Andino promotes exotics

□ **PARAISO ANDINO-TALAN-QUERAS SA** decided to promote its range of exotic fruit in Europe this year by participating with other Colombian exporters at three trade fairs: AGF Totaal in Holland, the Thessaloniki Trade Fair in Greece and ANUGA in Germany.

Managing director Victoria Lucía de Schorr told Eurofruit Magazine that the company plans to export 60 tonnes of exotic fruit this year, including baby bananas, papayas, maracuyas and physalis grown on its own plantations.

"We have successfully exported a range of exotic and tropical fruit to France, Germany and Austria over the past two years", commented Mrs de Schorr. "Although sales are still not at the level we expected to reach by now, they have increased." Mrs de Schorr added that prices have been relatively stable in Europe for exotics.



Prices for exotics in Europe are said to be relatively stable

Colombia should assist airfreight, say EC importers

“WE are very pleased with our supplier Caribbean Exotics. In general the market for exotic fruit is still increasing, although some items from Colombia are simply not developing. Apart from physalis which reports a steady increase in sales, we believe that sales of the so-called “super-exotics” like tamarillo, granadilla, maracuyá and even pitahaya are just not growing as they should. The biggest handicap for these items is price. Unless we find a way to reduce costs we shall not be able to increase sales easily. I do not believe we can lower the price at grower level, but perhaps we can on logistics. Colombia has very high airfreight and limited capacity. There are virtually no regular fast container transport possibilities unless one is “allowed” to put a container on board a banana

vessel. The Colombian government should take action on this. Look at countries like Malaysia, Indonesia, Venezuela and even Mexico with their favourable or subsidised airfreight rates. These have resulted in lower CIF rates, lower consumer prices and new possibilities. Unless the government acts on this, the exporters will not see the increases they are hoping for in the coming years. In the future other countries with better logistics will arrive in Europe with tamarillos and physalis, making it even harder if not impossible for the Colombian exporters to compete. In my opinion, the Colombians deserve to be given a better chance.”

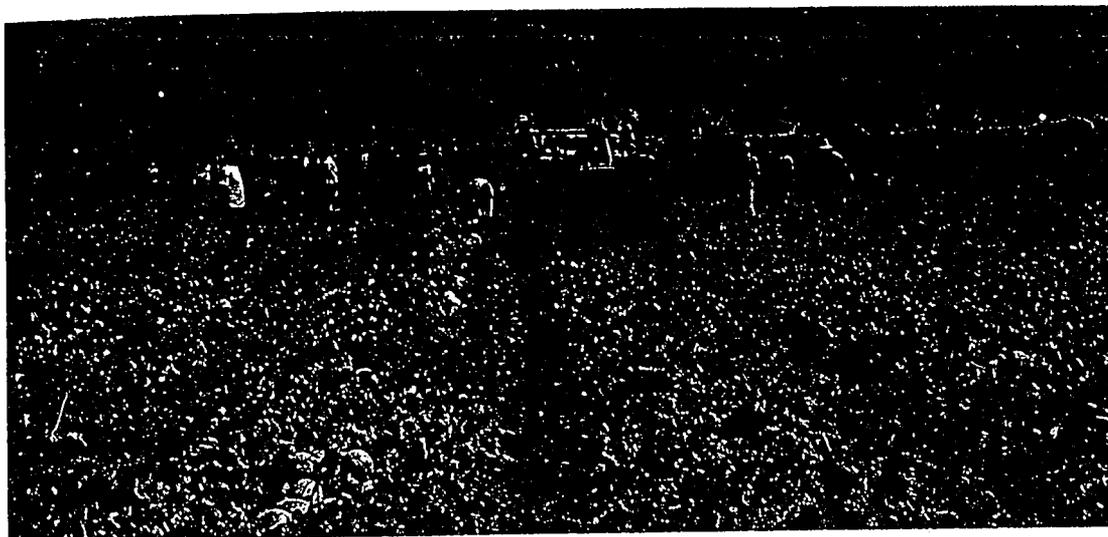
*Peter Kooi
TFC Holland BV, the Netherlands*

“SALES of exotics are still increasing, but as most of the items are only available in very small volumes prices tend to collapse as soon as there is an oversupply. We receive between 35 and 40 tonnes of plantains each week, in addition to one to three tonnes of exotic fruit such as pitahayas, tamarillos, maracuyas, granadillas, physalis and baby bananas. Mangoes seem to offer good potential from Colombia. Many of the large projects are now entering commercial production. We expect seafreight to become more important in the future as the Carol Service is now calling weekly at the ports of Santa Marta and Cartagena. This is particularly good for mangoes. We import our plantains from Banacol and our exotic fruit from Ocati. So far our experience with Colombia has been very positive. They're nice people to deal with and they take their business very seriously.”

*Wim van Reeken
Exotimex, Holland*

Brazil strikes gold with melons

Fresh produce cultivation in the interior of north-east Brazil is expanding at a pace. Exports to Europe of melons, mangoes and grapes are set to flourish as new investment is made into state infrastructure and individual export operations



With a wider range of melons, the exporters hope to open up new markets in Europe

FOR many years the north-east of Brazil was something of a no-go area. Traditionally the most under-developed region in Brazil, the nine states of the north-east are notorious for the so-called sertão, the arid lands of the interior where starvation kills humans and animals due to region's susceptibility to lengthy bouts of drought which can sometimes last year-round.

But things are changing. Over the last decade the interior of the north-east has made a more positive image for itself. The introduction of extensive federal and private irrigation projects has given rise to the development of competitive export "pockets", sizeable tracts of private and state-owned land dedicated to the production of fresh produce for export and the provision of vital supplies of food for the domestic market.

Thought by some to be one of the very last places on earth still to offer massive potential for new development in fruit, the north-east is undoubtedly entering a new phase of growth. Eurofruit Magazine travelled to the north-eastern states of Rio Grande do Norte and Paraíba last month to speak to key exporters about this new stage in the industry's growth.

Scale

José Agripino Maia, governor of the state of Rio Grande do Norte, estimates that 600,000 of his state's total population of 2.4m are directly employed in agriculture, 30,000 of them in fruit production alone. The state is one of the fastest growing production areas in Brazil, producing over 85 per cent of the country's total melon export crop and considerable quantities of mangoes, papayas, grapes and acerola cherries.

It takes two to three hours to drive from Rio do Grande's beach capital Natal to the key fruit growing areas of Assu and Mossoró. Here, in the parched landscape of the interior, lie some of Brazil's leading melon export groups, including Maisa, Frunorte, Agro Knoll and Fazenda São João, each different from the other in terms of size, focus and outlook. Competition between the groups is fierce. All of them are keen to maintain and expand their lucrative share of the fast growing European market for Brazilian produce. And to a certain extent the competition is no bad thing. It has created a dedication to quality and productivity as high as you could hope to find anywhere in the world. And the level of investment by individual companies into new facilities

is considerable. Laboratories, state-of-the-art packhouses, refrigeration and labelling equipment are becoming commonplace as more and more cash is ploughed into creating the ultimate export operation.

Port

But the investment would be all but worthless without the improvements that have been made to the ports of Natal in Rio Grande do Norte and Cabedelo in Paraíba. Shut down for many years due to a lack of business, the port of Natal re-opened three years ago at the instigation of Brazilian chartering operation TransOcean Reefers and with assistance of the federal government. Now responsible for 90 per cent of fresh produce shipments from the region, the port operators at Natal hope to gain government approval for investment into proper coldstore facilities. Direct shipments to the ports of Dover and Rotterdam already take place on a weekly basis using TransOcean Reefers and Lauritzen Reefers vessels, but produce for the time being is stored in reefer containers lined up along the quayside. While improvements to the ports' infrastructure are certainly required, it appears quite likely that they will be made in the short to

medium-term.

Exports

Exporters in the north-east are predicting anything from a five to 50 per cent increase in individual melon shipments to Europe this season, although export volumes to date have been in line with last year. Some importers consider this to be quite an achievement in view of drought conditions this season.

According to Tradstat, quantities shipped to Europe in 1992 totalled 34,000 tonnes, up from 29,000 tonnes the previous season. Sales to the UK, traditionally Brazil's leading market for melons, rose by 10 per cent and to the Netherlands, its second largest market and gateway to the rest of Continental Europe, by 71 per cent. An average increase of 15 per cent is predicted for melons this season, with a considerable hike in shipments to the UK, the Netherlands and Argentina, Brazil's fourth largest declared market after Finland.

Many of the exporters have found success in Spain and Italy over the past year and a number of them are now looking for new contacts in

Continental Europe and in France in particular.

Mango shipments are forecast to be up by five per cent this year. Table grape exports will also rise as a number of exporters enter their second export season.

Investment

Oil, salt, tourism and fruit are the main export activities of the north-east. According to the governor of Rio Grande do Norte, strong emphasis will be placed on developing infrastructure for the fruit business over the next few years.

Projects in hand include the construction of a new dam in Mossoró which will enable the irrigation of a further 15,000 hectares of land and a new 3,000 hectare fruit project under which small companies will work alongside larger enterprises on areas such as seed provision, technology and marketing.

Mr Agripino Maia told Eurofruit Magazine that favourable terms also exist for overseas investors keen to participate in new projects in the state. "I would be glad to receive foreign investors", he said. "We are particularly keen to attract large

companies with overseas branches as we want to open up new markets for our products."

Diversification appears to be the key issue of the moment. Many of the exporters Eurofruit Magazine visited are now trialing new melon varieties in addition to other items that they consider offer export potential such as asparagus, papayas, blueberries, passionfruit and acerola cherries.

With a wider range of melons, the exporters hope to open up a number of new markets in Europe in line with varying European requirements on taste, appearance, size and so on. Melon shipments already run from September right through to May, with strong prices achieved at the start of the season when the Spanish melon season draws to a close and again from February to April when the supply of quality Brazilian melons is lower due to rainfall in the north-east.

Over the pages that follow Eurofruit Magazine talks to a number of melon exporters and importers from the north-east and visits Brasfrutas, one of the world's leading producers of pineapples. ■

Janic trials new melon varieties

Europe's largest melon importer pleased with first arrivals

JANIC (Import-Export) Ltd, a UK leading importer of Brazilian melons, has handled Maisa melons on an exclusive basis for the past 14 years. Now considered to be one of the largest melon importers in Europe, Janic plans to concentrate this season on Yellow Honeydew melons from Brazil, followed by Piel de Sapo, Tendral, Galia and orange-fleshed Canterlines. Trials will also run with a new hybrid of long-life Canteloupes.

"So far we have received only limited quantities of Galia but the fruit arrived in excellent condition with superb brix levels", director Terry Watts told Eurofruit Magazine. "We plan to continue trials with this new long-life hybrid and we're very excited about the potential market for seafreighted Galias. Piel de Sapo experiences no problems during the journey by sea as it has a naturally long shelf life."

Janic plans to import in excess of 800,000 cartons of melons this season. Mr Watts believes that growing conditions at Maisa's farms in Mossoró have been perfect, but is wary of being too optimistic because the north-east is highly susceptible to rain at certain points in the season. "I can honestly say that so far this season we have received excellent quality melons with full colour and high brix levels", said Mr Watts. "Maisa knows that quality is of the utmost importance in order to establish an early market position."

Janic will also be importing a full programme of mangoes and grapes from Maisa. The company supplies leading UK supermarket chains like J. Sainsbury, Asda, Morrisons and Waitrose, as well as many of the large catering organizations.

The company's main customer base is with the wholesale markets. "The difference between us and

other importers is that we really do work with the wholesalers", said Mr Watts. "We don't use them as a dumping ground. We consider them to be a very important sector of the industry and respect the job that they do."

Mr Watts told Eurofruit Magazine that six importers had received melons on the first five vessels from Brazil. He said that the market had been easier to manage as a result, because last season at one point there were as many as 21 importers receiving fruit from one vessel and always at least 15.

"It is sometimes difficult when some of the less experienced companies start, but we are confident that with our product knowledge, strong customer base and top quality melons we shall have another successful season," he said. ■

Frunorte steps up investment programme

New facilities planned, new varieties on trial

FRUNORTE (Frutas do Nordeste Ltda), Brazil's second largest exporter of melons and largest grower of mangoes, estimates that it has made savings of \$500 per hectare on melon production since it introduced its Integrated Pest Management (IPM) system in August 1990. At \$1,000 per hectare, the savings on acerola cherry production have been even higher.

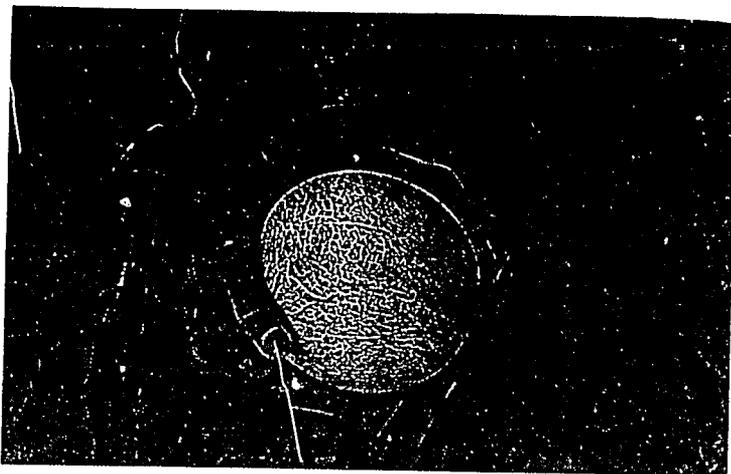
Frunorte president Manoel Dantas Barreto believes the essence of his company lies in working with nature, not against it. "Ecology, productivity and technology are our main aims", he claims. "Environmental protection is an important part of our Quality Management Programme".

Frunorte plants its fruit in layered rows alongside plants that are chosen precisely to attract harmful pests. It uses selected pesticides as and when required and biological methods of control for caterpillars and destruction of crop remains. Vegetation belts are maintained between each field. The company also distributes information on environmentally-friendly production methods to other growers in the Assu Valley where Frunorte's headquarters and farms are situated.

Investment

Frunorte has invested heavily in its operation. In 1992 around \$700,000 were spent on the construction of coldstores covering 800m². These include tunnels, freezing chambers and pre-cooling stores. The company also purchased two 22 tonne refrigerated trucks in order to maintain the cool chain between the farms and the port of Natal, a two and a half hour drive away from Assu. Further investment is being made this year into two new pre-cooling units.

The company has also invested \$300,000 in its own laboratory. In addition to carrying out routine analysis checks on areas including tissue and soil analysis, the laboratory is also responsible for monitoring the fruit throughout the production stages to the final point-of-sale. Fruit samples are taken when the vessel is loaded and then again on the fruit's arrival in Europe by Luis Kmentt, Frunorte's permanent representative at exclusive UK importer



Commercial trials are taking place with a number of newer melon varieties

and partner Red Rose International Ltd.

Frunorte also has a nursery where most of its seedlings are grown and a sister company Tanor (Tecnologia do Nordeste) which manufactures irrigation polyethylene pipes.

Production

With 1,200 hectares planted with melons this season, Frunorte is confident of an export total in excess of one million cartons. Yellow Honeydew melons form the bulk of Frunorte's programme, although a number of other melon varieties are now also available for export including orange-fleshed Canteloupes and Piel de Sapo. Commercial trials are now taking place with less common varieties such as Bonus, a Japanese melon type which is green and tastes like a Galia. Fifty hectares have been planted with Bonus this season and a further 50 are in line to be planted for the 1994-95 season. Other trials include tests with newer types of orange-fleshed varieties.

Frunorte agronomist Breno Lacourt Rodrigues told Eurofruit Magazine that the company yields on average 40 tonnes of melons per hectare. Around 25,000 to 35,000 plants are sown per hectare depending on the variety. "This season we have excellent quality melons despite one of the worst droughts in Assu in 100 years", he told Eurofruit Magazine.

The climate in Assu is reportedly ideal for melon production: 550mm

of rainfall per year, relative humidity between 30 and 60 per cent and an estimated 3,000 hours of sunshine. The intense photosynthesis process contributes to a short crop cycle. Melons are ripe for picking within 60 days, a fact which Frunorte claims is something of a world record. Water is sourced from a dam on Frunorte's premises as well as from the Assu river. A self-balancing irrigation system of Israeli design is also in operation.

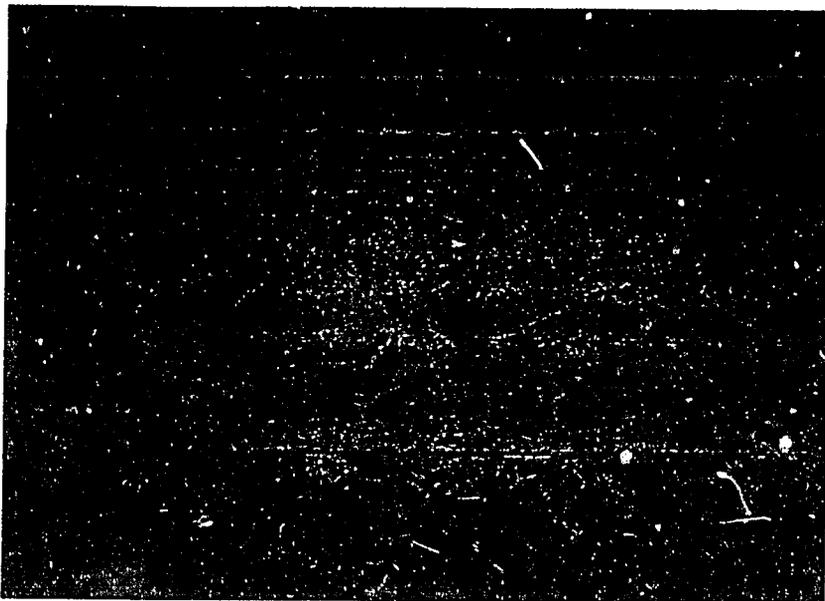
Diversification

In addition to melons, Frunorte has 30 hectares of mangoes and 48 hectares of grapes under production. The mango export crop is estimated at 50,000 cartons for this season and the grape crop at 20,000 cartons. The mangoes produce two crops from October to January. Tommy Atkins, Van Dyke and Sensation are the main varieties grown. The grapes also crop twice, averaging 40 tonnes per hectare each year with a programme which includes Italia, Ribier, Red Globe, Christmas Rose and Ruby Seedless.

Spaghetti squash, grapefruit and acerola cherries complete the company's product range. Frunorte claims to be the sole producer of spaghetti squash in Brazil. The company has carried out mailings and promotional activities to develop sales of the produce on the domestic market and is now examining its potential as an export crop. ■

Geest tops million carton mark with Brazil

Improved quality from Brazil presents Europe with a number of challenges, says Geest



Geest plans to concentrate on the Yellow Honeydew and Piel de Sapo melon varieties

THE start of the Brazilian melon season has given the fruit trade a much needed boost after a relatively lacklustre summer trading period, with strong interest reported in the first European arrivals. Despite one of the worst droughts on record in the north-east of Brazil, melon growing conditions under irrigation have been good, with some exporters predicting a 15 per cent increase in shipments over the 1992-93 season.

Geest plans to import over 1m cartons of Brazilian melons, mangoes, grapes and limes through to May 1994. According to Geest-Sure development director Alan Forrester, over 50 per cent of Geest's melon imports will be sold in Continental Europe this year, to markets stretching from Spain to Scandinavia. Geest plans to concentrate primarily on the Yellow Honeydew and Piel de Sapo melon varieties.

"The quality of the fruit on arrival has been much better than we would normally expect so early on in the season", said Mr Forrester. "The growing conditions have been better than usual. The Piel de Sapo in particular is achieving a stronger following as its higher sugars and fuller flavour become more fully appreciated." Geest says its customers have responded favourably to the first arrivals. The Spanish melon season

finished four weeks earlier than usual, which contributed to a higher level of interest.

Mangoes

Brazilian products face relatively low levels of competition from other source countries. This is particularly true for mangoes. Mr Forrester believes that the expansion in production, combined with improved technical standards, will allow Brazil to capitalise on this opportunity.

Geest plans to import approximately 300,000 cartons of mangoes from key producers in the São Francisco Valley and São Paulo production regions this season. Mr Forrester told Eurofruit Magazine that the attractiveness of the US market, combined with the creation of the São Francisco Valley Fruit Board, have increased mango prices this year. "We are already seeing a 75 per cent increase in farm gate prices for export quality fruit", he commented.

Exports to Europe this season from the São Francisco Valley are unlikely to exceed 1m cartons. Drought conditions during July and August have limited crop projections to just a five per cent increase in volume. Exports from the São Paulo region are set to start towards the beginning of November. Climatic conditions

there are reported to have been excellent. Mr Forrester believes that there is every indication that the fruit will be much stronger than last year.

Grapes

Geest plans to import Italia and Ruby grapes from Brazil's São Francisco Valley through to Christmas. Grape production is said to be expanding rapidly, although first volumes this season are slightly lower than normal.

Demand has been strong from Argentina, the fourth largest importer of melons from Brazil, with Argentine importers already paying double the value anticipated in Europe for grapes. "This will be a tough nut to crack until Argentine production starts", said Mr Forrester. "However, it is still our intention to import reasonable volumes before moving into other Southern Hemisphere sources."

Geest believes Brazil offers massive future potential as a supplier of fresh fruit to Europe. "The development of the necessary infrastructure to ship fruit across this huge country and thereafter to Europe is the key consideration", concluded Mr Forrester. "Emphasis on the needs of the European consumer will be the final determinant as to the success or failure of the producers." ■

Brasfrutas refines pineapple production

Brazil's largest pineapple grower set to export 9,000 tonnes to Europe this year

PINEAPPLE experts will tell you that it takes 10 years to fine tune agricultural practices on a new pineapple project. Near João Pessoa in the state of Paraíba some 100km due south of Natal, one company is busy doing just that. Now entering its fourth year, Brasfrutas already claims to be the fifth or sixth largest pineapple producer in the world for fresh consumption and, unquestionably, the largest pineapple producer in South America.

"Producing pineapples for fresh consumption is far more demanding than growing pineapples for juice or canning", general manager Enrique Soler told Eurofruit Magazine. "It takes more time to get the production techniques right. At Brasfrutas, we've now reached the end of our first three-year fruiting cycle, having fully planted the farm once. We're now concentrating on refining our production techniques."



At the packhouse, 120 people pack up to 500 boxes of pineapples per hour

Size

The Brasfrutas farm stretches as far as the eye can see. It covers 2,250 hectares, of which 1,500 hectares have already been planted with 70m

pineapple plants.

The company also has a 100 hectare nursery which operates on a two-year cycle. Seeds are harvested as required, with 35 hectares planted

every month. Mr Soler told Eurofruit Magazine that only 310 hectares remain to be planted for the current phase of development to be completed.

Some 70,000 plants are planted per hectare, with yields of approximately 110 tonnes per hectare of planted crop. "In a three-year cycle we would expect to obtain 170 tonnes of pineapples from each hectare", said Mr Soler. The fruit development period takes 150 days.

Site

Developed in stages since 1990, the Brasfrutas farm is managed by Enrique Soler and Brasfrutas president David Anderson, both of whom have worked previously on pineapple operations in Costa Rica. The project is Brazilian-owned, making it one of just two independently-owned pineapple farms of any size in the world.

Mr Soler told Eurofruit Magazine that Brasfrutas parent company Brasagrícolas approached him in 1990 with the aim of managing an expanding pineapple project. The first task was to find the right area.

Brazil's leading pineapple producing state, Paraíba, was chosen as the ideal location due to its topography, climate and soils. Unlike the clay of Costa Rica, Paraíba's soils are sandy, which makes them easier to work, according to Brasfrutas.

At 40 inches per year, the rainfall levels in Paraíba are also much lower than the annual 135 inches of rainfall recorded on average in Costa Rica. "The Costa Rican soils are hard to work in the rainy season", said Mr Soler. "We don't have that problem here."

Nevertheless, investment in the Brasfrutas project was initially higher than expected due to the need to irrigate. Pineapples cannot withstand drought, so Brasfrutas purchased three pumping systems all of which are linked to each other. The company is now working on the completion of an 11,000 cubic metre reservoir. When the irrigation system is completed in 1994, the entire farm will be irrigated.

Research

Further investment has been made into a research laboratory where all aspects of pineapple production are analysed. "Our aim is to get the highest percentage possible of exportable fruit", commented Mr Anderson. "We're looking for plants which display excellent characteristics both in the fruit and the plant itself." Brasfrutas has already developed the Brasfrutas Emerald, a Smooth Cayenne clone with a strong green crown, good shape and size. The company plans to open an automatic seed selection and treatment centre in 1994.

A total of 550 people work for Brasfrutas. All receive training for their particular line of work. At the packhouse, 120 people pack up to 500 boxes of pineapples per hour. A new packing line is now being installed with the aim of packing a minimum of 1,500 boxes per hour.

Exports this season are set to total 9,000 tonnes and will all be channelled through Belgian Fruit Importers (BFI) in Belgium. Brasfrutas is confident that exports will exceed 20,000 tonnes next year. The fruit is shipped from the port of Cabedelo, located near to the Brasfrutas farm, to the port of Rotterdam.

Over the next few years Brasfrutas also plans to diversify into other fruits. Trials are already underway with mangoes, papayas, melons, blueberries, acerola cherries and a number of leguminous plants, the latter used to enrich the soil in the intermediate pineapple planting stage. ■

Mango Mania

Mangoes are slowly making inroads into the world of mainstream fruit, but high prices are still holding back potential business. Tessa Fox reports on the South African product.

Talk to anyone in the trade about their business and discussion is guaranteed to turn to money before too long. Mention mangoes to mango men and conversation seems to revolve around money. High prices, it appears, are a real problem in the mission to achieve a rising sales curve.

Consumption, to judge by figures from fresh produce market analysts, AGB, is at a pitifully low level. Just two per cent of the British population eat mangoes at all - and they are most likely to be regular buyers. Surprisingly, that two per cent is responsible for putting the UK way ahead of its European partners in mango consumption:

back in 1991, Britain imported 12,800 tonnes, France 10,600t and Germany, which traditionally tops the charts in fruit eating, just 9,100t. (Holland's 14,000t total is misleading as it includes re-export.)

And there are positive sounds coming from South Africa. Ian Waller, director of Frusall, the organisation which handles about 35 per cent of South Africa's subtropical fruit exports, is confident that demand is increasing. This demand, he adds, will be met by the new plantings reaching maturity over the next few years and a hoped-for return to better climatic conditions. "South Africa as a whole has been experiencing a

period of severe drought which has resulted in a stagnation in the volumes of export fruit, but increased plantings of fibreless cultivars will result in a rapid expansion of the South African mango industry with the return of more favourable climatic conditions," says Mr Waller.

As it stands now, India dominates the mango production map; the subcontinent grows way over half of the world's total mango output which stands at around 16m tonnes. This huge volume leaves South Africa without even so much as a mention on the official production tables, but the country has a significant role to play in the import game. Of total EU imports in 1991 of 53,200t, South Africa supplied 4,100t; it may not seem a great deal, but given the very fragmented nature of the beast, this tonnage puts the RSA in the number three slot after Brazil and the USA. All told, South Africa's mango exports hover around the 5,000t mark, just 10 per cent of the country's total production - it is, says Alastair Philipson of FIDI, which markets the Bella Nova brand, a case of 'could do better'.

The mango message is fighting to be heard in Britain and, predictably, the multiple sector is playing a prominent role in trying to steer the fruit away from the shady realm of exotica to the high volume, rapid turnover and relatively low cost kingdom of mainstream fruit. Already, says Mr Philipson, supermarkets are doing an excellent job in ripening product and putting it on shelves in that crucial ready-to-eat condition that will tempt the first time buyer. Greater emphasis on a good blushed appearance is also helping turn things around.

But price remains the real stumbling block. Occasional supermarket price promotions may well up sales of the fruit for the period of the push, but the normal 89p-99p tag is standing in the way of the fruit rubbing shoulders in any meaningful way with apples and oranges. Mike Desai, Sainsbury's deputy manager of fruit buying, would like to see the retail price drop by almost half: "It should be under 50p," he says. "The retail value of mangoes is too high and this is putting people off." Sudhir Mehta of importers Minor, Weir and Willis agrees: "The price has come down to around £5-£5.50 from £7 just recently. It is heading in the right direction, but it needs to drop further if the fruit is to sell in the same volumes as peaches and nectarines." Alastair Philipson adds: "I would like



Mike Otty, assistant general manager of Lisbon Estates.

(continued on page 14)

(continued from page 12)

mangoes to be accepted as a general item on the produce shelves, but it is not going to happen overnight and price is a major reason for this."

Nevertheless, Sainsbury's current push on South African Zill and Tommy Atkins mangoes (down to 79p each) has been successful: "This is the third

week of the promotion and the signs are very encouraging, though it is too early to say what rise in sales there has been," says Mike Desai. Sainsbury has also been the force behind educational drives such as the recent 'Magic of Mangoes' leaflets.

In the wholesale sector, the surge in demand for mangoes before Christmas saw prices rise

sharply on Glasgow market at that time. 'Mr Mango' of the wholesale trade - at least he is known as such in Glasgow - is Stuart Carmichael, director of exotics specialist, J Carmichael & Co Ltd: "I'd normally get £7 for Venezuelan 12s, but before Christmas I was getting £12 no bother for Peruvian. The South African fruit is likely to come in at the £6 mark," he says. He does not rate the South African fruit as highly as the Venezuelan or Brazilian product he is working at the moment, however: "The taste and smell are not the same. Keitt and Haden are definitely better from South America."

Sales of mangoes in Glasgow are not huge, he adds, because the ethnic population is small, but he believes that more labelling of fruit would improve matters: "It's the same old story - more education is needed." For Sudhir Mehta, education on varietal differences is crucial: "Consumers must learn that there are some very good green varieties around such as Julie and Kent. The green varieties tend to be less fibrous too.

"I believe that Haden combines all the best characteristics of

smell, colour and texture, but it does not have such a long shelf life. Sensation has a good future, but Tommy Atkins tends to be a bit fibrous."

Price and consumer ignorance aside, the short length of the South African mango season is also preventing them from becoming a core product. There is reasonable continuity from December through to March but, Mike Desai says: "I don't envisage a kiwifruit-style explosion with mangoes. There has to be continuity of supply and good quality all year round. If that happens and the price comes down, then maybe it could happen, but I think there are great benefits in mangoes retaining their exotic connotations. It's something different, isn't it."

But, as worldwide production increases, market forces dictate that price will drop and, even if mangoes never compare to bananas in volume sales, they will start to muscle in more on the mainstream commodities. As Sudhir Mehta puts it: "In five years' time there will be a lot more product and prices will be lower. Growers will not be happy, but the consumer will." 



Packhouse work.



Checking fruit in the Lisbon Estates packhouse.

Packing in Lisbon

TEMPERATURES have soared to the high 30s, there is a sweet, heavy smell of mango on the air and the humidity levels are energy-sapping. Conditions in the packhouse, with its backdrop noise of crashing machinery, are far from easy.

But the set up at Lisbon Estates in South Africa's eastern Transvaal, is one of the most important in the country. In volume terms it is certainly the largest producer, handling 60 tonnes of the fruit a day in the height of the brief December to February packing season from an annual crop of 200,000 cartons.

Activity at the time of the *Journal's* visit was at its peak - fruit is vigorously hosed down on arrival, dipped for five minutes in warm water, dried, waxed and buffed before the quality control, grading, packing and cooling stages take over. Any fruit which doesn't make the grade either for export or the local market is channelled into Lisbon's processing wing where fruit is dried, juiced, pulped, or made

into chutney or sweets. "There is a total onslaught on mangoes here. Nothing is wasted," says assistant general manager Mike Otty.

Out in the orchards, 45 000 trees aged between three and 45 years, seemingly drip mangoes, but volumes are lower than usual because of the lack of rain. It is not entirely a bad thing, though - less fruit on the branches has led to bigger individual fruit sizes and better colour, says Mr Otty.

The early Tommy Atkins variety is still the flagship variety, though the likes of Heidi and Sensation are fast becoming popular fruit in the latter part of the season and plantings of these are increasing.

On the export front, however (about 75 per cent of exports are done through Frusal under the Lisbon Estates brand name) Tommy Atkins outperforms the rest - it makes an export rate of nigh on 70 per cent, compared to an average of 50 per cent and just 30 per cent for Sensation.



The Tommy Atkins Mango

Mangoes, the most popular fruit of the tropics, are capturing the imagination of consumers in Europe, where sales have increased to the point where they now rival any exotic.

Bella Nova supplies mangoes all year round, whose attractive appearance is matched by their beguilingly aromatic flavour - and easy eating qualities. They always meet the same high standards, as do all our varieties of fruit, from the four corners of the earth.

For Bella Nova, the world is our orchard. For you, Bella Nova is your guarantee of freshness and quality.

The World is our Orchard



Banana regime under attack from big guns

The EU banana market looks for a safe haven six months after the introduction of new import rules

THE EUROPEAN Commission is putting the finishing touches to an in-depth review of the balance of supply and demand in the banana market in the European Union six months after the introduction of new banana import rules.

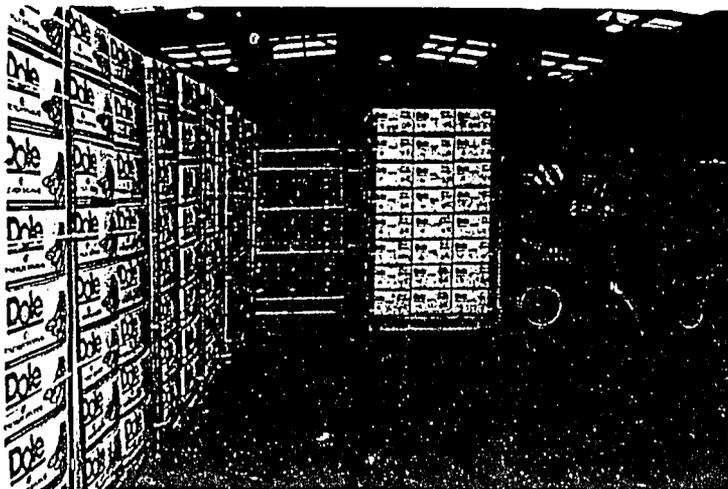
The so-called supply balance forecast report, a legal requirement under the terms of the new regime and referred to by Alexandre Tilgenkamp, the head of the Commission's DGVI agriculture directorate, during his round-up of EU policy at the CIMO congress in Brussels last October, is likely to make frightening reading, say insiders. The European banana market has been in deep trouble since the introduction of new common European import rules last July.

Europe's difficulty in meeting the demands of these new rules so soon after their introduction was almost inevitable. Ironically, it is perhaps the only thing which has secured almost unanimous agreement in the banana trade for some time. They all knew the new banana regime was going to be tough. It seems it has lived up to its expectations.

It remains to be seen whether the European Commission's plans to apply a 2m tonne quota have to be revised after the report has been filed. European importers are hoping that the early allocation of bananas will at least defeat the uncertainty in the market which prevailed for several months after the beginning of July.

Observers say the European banana market has been divided down the middle between north and south rather than east and west. Markets in the "north", the traditional dollar banana markets, have seen a shortage of both bananas and import licences as well as higher prices and higher quality, while banana markets in the "south" — this includes the UK — have seen large volumes of new arrivals of bananas due to the high availability of licences, which have brought a steady decline in market prices.

Inevitably, a broad-brush analysis of this kind is open to interpretation.



Now ACP bananas have made in-roads in the UK through regular arrivals to the port of Dover

But it serves as a useful shorthand to understand what has been going on.

It is under these conditions that the European Commission has continued to be the target of intense sniper fire which, repeatedly, has failed to hit its target properly. But the European Commission seems likely to face much heavier artillery now being manoeuvred into position.

First, indications are expected soon of what is almost certain to be a damning report against the new regime from a special GATT panel which, although its full effect may be blunted by a wider GATT agreement, is likely to box the European Commission into a corner. It is going to be a mighty political problem to overcome.

Second, German banana importers, again led by Atlanta AG's troublesome chairman and chief executive Bernd-Artin Wessels operating under new foreign ownership, claim to have forced a breakthrough on the issue of quotas. A mortal blow to the new regime was struck, they say, by the German High Court in early December when it granted a temporary injunction to both Atlanta and Weichert & Co, Del Monte's distributor in northern Germany, giving short-term access to additional dollar

banana licence.

The judges in Frankfurt have secured for Atlanta an extra 12,000 tonnes or 600,000 boxes of bananas for the month of December at ECU100 per tonne while Weichert has been allocated an extra 640 tonnes under the same conditions. It sets an important precedent, Mr Wessels told Eurofruit Magazine, for other banana importers to apply for similar temporary injunctions. "This is the beginning of the end", he warned.

It may all be wishful thinking on the part of Mr Wessels. If it does go ahead, it sets the German courts, and therefore by implication the German government, on a collision course with the European Commission and with EU law because the quantities exceed the 2m tonne tariff. Importantly, the argument will focus debate once again on Germany, where the struggles against the new regime before and after July 1 dominated the headlines.

In Germany, banana operators say the banana regime has had just the reaction they were predicting. Consumption is dropping, according to data collected on behalf of Dole Fresh Fruit Europe Ltd & Co, on the back of rising prices. Importers have

been unable to access the volumes of bananas they want for the market and their attempts to source volumes of ACP fruit have been unsuccessful.

Meanwhile, some have still managed to grab newspaper headlines by trumpeting what they say are the more absurd consequences of the new banana regime: Frankfurt-based importer Anton Dürbeck GmbH has succeeded in getting newcomer licence for his grandchildren and household pets, while Atlanta AG is taking part in a bananas-for-trucks barter deal between Daimler Benz and the government of Ecuador.

Elsewhere, in the former protected markets of the new European Union, established banana importers and distributors are having to come to terms with market conditions which have also changed.

These changes have been perhaps at their most dramatic in Spain and France, formerly Europe's two most protected banana markets. Here, established importers say banana prices have dropped as a result of new volumes of dollar bananas in particular making their way onto the market. Although interestingly, consumer demand has reportedly held up strongly for European and ACP bananas.

Spain is seeing new entrants to the market, many of them traditional dollar players. Chiquita Brands, now managed in Europe from the Geneva office of Chiquita International SA, has been discharging full loads of bananas into the Spanish port of Sagunto since September. One Madrid-based importer is already constructing a 40-room pressurised ripening complex to accommodate some 50,000 boxes of bananas from Chiquita every week, according to *Valencia Fruits*.

"Spain is an important market at both consumer and commercial levels in Europe", Tony Freire, Chiquita

Brands' development director for Southern Europe told the Spanish trade newspaper. "We are hoping to develop it as best we can so that we can market Chiquita bananas from all the different origins as well as a wide range of other fresh fruits". Chiquita has set up offices in both Spain and Portugal.

In France and the UK, bananas from traditional sources, the DOM-TOM territories and the Windward Islands, Jamaica and others respectively, have come under intense pressure from new ACP sources. While the predicted invasion of dollar bananas has just not happened, this relentless pressure from ACP producers in Africa does not look at if it is going to ease. Reportedly one senior French banana importer was even predicting arrivals into France from French sources (old-EC and ACP) of 77,000 tonnes of bananas in the month of December alone, over 90 per cent higher than arrivals for the same period in 1992.

Meanwhile, banana producers in the Ivory Coast and the Cameroons are in danger of exceeding their quotas, industry experts say. Both countries have been claiming these were already too low and are likely to be lobbying hard for greater access to the EU or for more substantial aid to tide them over. Notwithstanding significant improvements in fruit quality, banana producers in Martinique and Guadeloupe are likely to have seen their market share in France eroded by banana imports from Ivory Coast and the Cameroons in particular.

Volumes from the Cameroons are also turning around the banana market in the UK. Direct fortnightly arrivals of some 60,000 boxes of bananas from the African banana producing countries have attracted new business from the supermarkets in particular. While Del Monte Fresh

Produce (UK) Ltd has been importing and ripening bananas from these sources for several years, the lack of dedicated ripening capacity for Dole and minority partner Compagnie Fruitière would suggest that significant new moves may come.

Indeed, Dole Food Co chairman and chief executive David Murdock told US analysts as recently as last November that the company is "heavily engaged" in the acquisition of ripeners and distributors in Europe. Five countries were visited by him recently and negotiations with "several eager sellers" were expected to continue and to be completed in 1994.

Rising competition at a slow time of the year for the banana trade has had a unsurprising knock-on effect on traditional market supplies: analysis of UK green boat prices reveals a 20 per cent drop in the price of a tonne of Windward Island bananas between the first week in July and the first week in December. Eurofruit Magazine understands that established banana importers have demanded more moderation from new suppliers to the market.

In these conditions, established UK banana companies have come under pressure. Geest, for example, has seen its share price continue to fall from the spectacular heights achieved at the start of the year when the new banana regime was brokered. In its defence, Geest points out that current market conditions are in line with its predictions earlier this year and are not surprising given the historic decline in demand in Europe in the last quarter of the year.

At the same time, Geest and Fyffes, its UK rival, have been involved in a complicated argument over banana licences which, in spite of an interim injunction going against Fyffes, is likely to come before the High Court in early 1994. ■

Fewer households are buying bananas

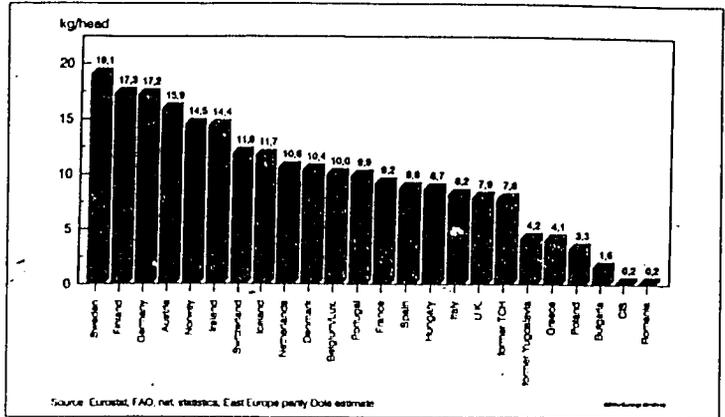
Negative effect of Brussels banana policy in Germany, says Dole Fresh Fruit Europe

MANY OF the articles and speeches covering the effect of the EC's new banana regime tend to deal more with overriding "issues" such as protectionism versus free trade, or the effect upon employment in the producing or distributing countries. One aspect that sometimes tends to be a little overlooked is the effect upon purchasing behaviour.

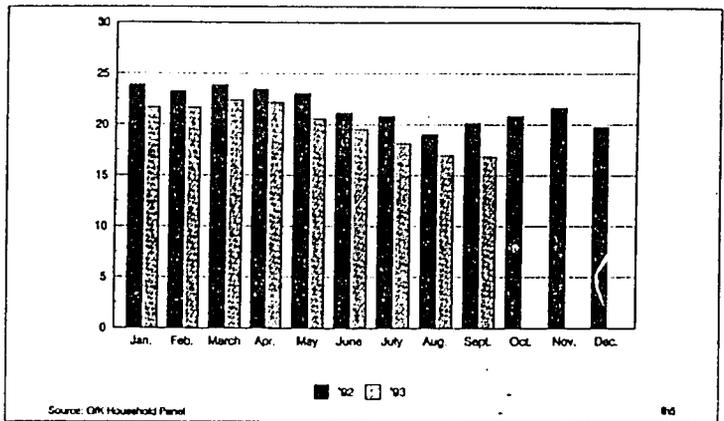
All the different shades of opinion in the fruit trade are at least united on the one objective of promoting the consumption of fruit. The aim of the EC banana regime should therefore not be to reduce per capita consumption in the single EC market to the levels of the hitherto protected markets such as the UK or France, but to increase it to the levels in Germany, for example. (See graph 1)

Unfortunately consumer research data now available for Germany indicates that the effect of the EC's regulations has been a significant reduction in banana consumption. Dole Fresh Fruit Europe monitors consumer trends in the fresh fruit market through a panel of 5,000 households, which is a representative sample of the German population. In each household each day's purchases are recorded in a special diary detailing where the merchandise was bought, how much it cost, etc. This information is sent to the GFK research institute in Nuremberg at the end of every week. The combined monthly and quarterly reports provide a reliable basis for an unbiased assessment of recent market developments. Graph 2 shows that right from the beginning of 1993 fewer German households have been buying bananas every month than in the previous year. To some extent this is a reflection of the general recession, reduced import volumes, and also perhaps the negative publicity about the proposed banana regime.

Since July 1993, however, this negative trend has accelerated dramatically. Not only are fewer households buying bananas, but the quantities purchased have also decreased over-proportionally in the months since the new regime came into effect - see graph 3. In September for example 16 per cent fewer households purchased 27 per cent less bananas. That means that the 17m German



Graph 1: per capita consumption of bananas in Europe in 1992



Graph 2: household purchasing of bananas (in millions)

households who did buy bananas bought on average 11 per cent less than a year ago.

The ostensible reason would appear to be the sharp increases in retail prices since July. (See graph 4) In the five new federal states in eastern Germany, where unemployment in high and disposable income low, banana consumption has declined particularly sharply. However, average prices still appear relatively reasonable at DM 2.34/kg in September.

Perhaps the decline in consumption is less a result of high prices than of other factors such as promotional support and quality. In this context it is significant that the share of unlabelled and other brands increased from 38 per cent in the third quarter of 1992 to 44 per cent

in 1993. Bananas are one of the staples of the fresh produce department. Well-merchandised banana displays attract customers who then spontaneously buy other (fresh) products. Certainly demand for bananas decreases commensurate with price increases. However, the recent decline in consumption since July is probably also a reflection of a decline in promotions for bananas since July.

Perhaps retailers are ignoring the "sales-generator" effect of the banana and enjoying the short term benefits of increased turnover at lower volume levels. Each month since July has seen a higher level of consumer retail expenditure than last year. (See graph 5) However, the banana's share of the average shopper's fruit

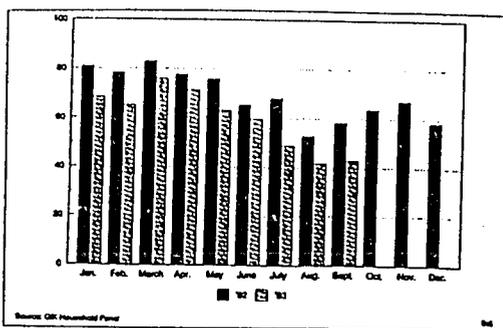
basket has dropped from 25 per cent in September 1992 to 20 per cent in 1993.

It is also significant that the proportion of bananas bought at discounters has increased sharply since July 1993. In western Germany, for example, the discounters' market share was up from 42 per cent in the third quarter of 1992 to 47 per cent in 1993.

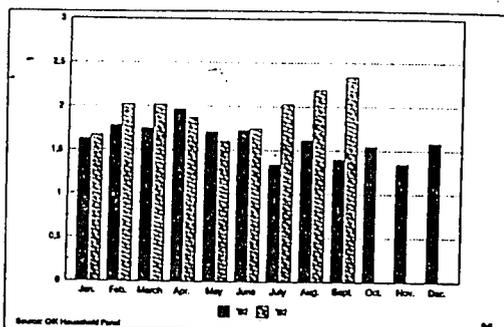
German per capita consumption of bananas certainly increased dramatically following the discount chains' decision to sell a limited range of fresh produce in the mid-1980s. Wide distribution was one factor in making the banana Germany's most popular fruit at retail level. High quality, strong promotional support, and professional merchandising were also essential to achieve penetration levels of 96 per cent, and per capita consumption of over 17kg per year.

Mr Tilgenkamp's concept of "organised free trade" is perhaps perfectly viable if the organisation works. Alas, the new EC regime is more characterised by inefficiency. The process is one of permanent litigation, of recurring delays in determining quota volumes, and of increased administration and bureaucracy. All this, together with reduced promotional support by retailers, seems to be resulting in an alarmingly rapid decline of the banana's consumer acceptance in Germany.

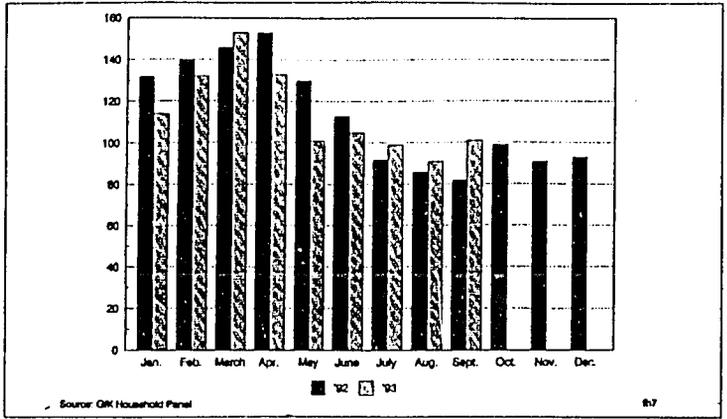
It is certainly true that the regime is not yet properly established. That is precisely the point. The banana is one of the major "sales-generators" of the fresh produce department. The trend in Germany, since July, is increasingly negative. The effect might therefore be to depress the overall level of fruit consumption - see



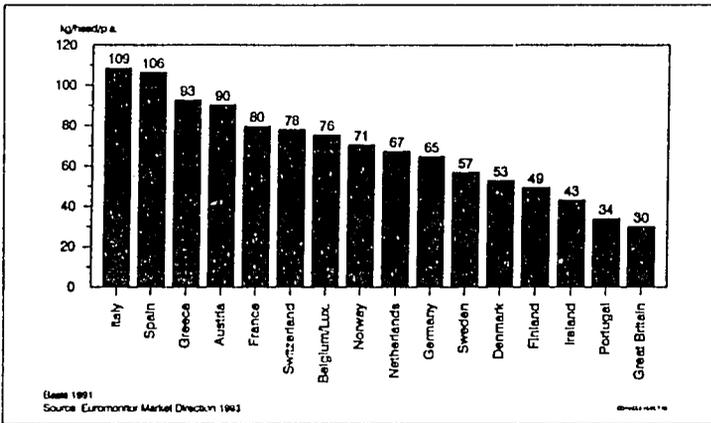
Graph 3: retail sales volume (in 1,000 tonnes)



Graph 4: consumer prices (in DM/kg)



Graph 5: retail sales turnover (in million DM)



Graph 6: per capita consumption of fresh fruit per country (in kgs)

graph 6 for the international per capita comparison.

The basic principles of the EC's agricultural policy need to be reviewed in the light of such statistical analysis of the effects of the new

banana regime. Is it sensible to put so much financial emphasis on "organising" the production, rather than on promoting consumption? Surely the first evidence of the effects of the EC's new banana

regime, together with the accumulated evidence regarding the inefficiencies of the Common Agricultural Policy, indicates that it is high time for some fresh thinking in how best to "organise" the produce business. ■

Country Focus

Thailand

Thailand's food processing industry, propelled by a more export-oriented economy, has been moving in the direction of value added processing. APFI outlines the dominant and growing sectors, which are set to drive the industry to greater heights.

Veering towards value added processing

THE availability of relatively inexpensive skilled labour and the favourable investment policies on the opening up of the Indochina region has helped Thailand develop into a newly industrialised country. Although the economy in general has moved into areas such as textile production, manufacturing of electronic components, automotive parts, tin and steel, household

products, agriculturally-related industries remains the mainstay of the economy, representing almost 20 percent of the country total annual exports. The abundance of agricultural produce and the large coastal territory have been reasons for the country remaining as one of the major producers of agricultural products. The total export earnings reaped by the nation from this sector reached nearly US\$35.1 billion in 1992, with a large portion of this earning consisting of tapioca flour, frozen chicken, canned fruits and vegetables.

Table 1. Thailand canned food exports in 1992

Canned food items	Volume (tonnes)	Value (US\$ million)
Canned seafood		
Canned tuna	243,488	523.0
Other canned fishes	7,565	8.7
Canned sardine	25,824	31.1
Canned mackerel	15,004	17.9
Canned salmon	1,132	3.2
Canned crab meat	9,687	51.8
Canned prawn, shrimps	39,194	304.4
Canned baby clam	5,026	12.3
Canned squid	2,454	6.6
Frozen tuna loin	35,482	82.4
Canned pet food	109,967	123.1
		1,164.1
Canned fruits		
Canned pineapple	491,367	322.7
Canned rambutan with pine	3,294	4.2
Other canned mixed fruits	50,435	35.7
Canned rambutan	1,558	2.0
Canned lychee	9,789	13.7
Canned longan	7,973	11.3
Canned mango	6,716	5.7
Canned papaya	1,710	1.4
Canned guava	230	0.2
Canned banana	357	0.3
Other canned fruits	16,120	16.0
Pineapple juice concentrate	65,130	66.0
Canned pineapple juice	14,148	12.2
		491.4
Canned vegetables		
Canned baby corn	36,766	32.2
Canned mushroom	7,277	9.8
Canned asparagus	1,394	2.2
Canned bamboo shoots	48,683	37.3
		81.5
Grand total		1,737.0

(Source: Thai Food Processors Association 1993)

Towards value-added processing

With the rapid industrialisation of the economy and the surplus in agricultural produce, value-added agricultural processing industry has become the backbone of Thailand's agricultural industry over the years. Following the increased demand for Thai products, more and more farmers have found a market for their produce in the food processing industry. The recent years have seen more farmers producing raw materials for this important export-oriented sector, greatly boosting the value-added sectors. From a country dependent on selling commodities in bulk on the world market, Thailand has now switched to selling high quality processed foods to international markets.

Among the main components of this value-added industry are canned, frozen and dehydrated products. Between the three processes, canning is by far the most important and most widely used method to add value to agricultural produce, while dehydration is still in its

THAILAND

early stages and growing at a slow pace, as both overseas markets and domestic markets are still relatively small. This method is used to some degree for virtually all products produced in Thailand, ranging from fruits and vegetables to seafood. The canned food industry and in particular, those of seafood, tuna, fruits and vegetables and pineapple, have been showing some dynamic growth over and above all other processed food sectors, contributing substantially to the economy's foreign exchange earnings. The combined export value for these four groups for 1991 was well over US\$1.75 million, more than 25 percent of all agricultural exports.

Growth sectors

Canned seafood Since the establishment of the canning industry, Thailand has become the world's largest manufacturer and exporter of canned seafood. Its well known reputation remains untainted for the past decades. In the top ten export ranking for Thai products in 1992, canned seafood was the 9th highest exporter, accounting for almost US\$910 million in export earnings, an equivalent of 20 percent of the total food exports in 1992. Growth prospects for this sector remain upbeat. Export earnings is projected to increase by 9 percent, reaching US\$992 million in 1993.

Of the huge volume of canned seafood exported annually, canned tuna took up the largest portion, accounting for nearly US\$400 million to

US\$600 million worth of exports. The country dominates the world market with a more than 50-percent share. Greater health and nutritional awareness amongst consumers worldwide have resulted in an increase in the consumption of and demand for white meat. As a result, tuna fishing and processing have expanded rapidly. To date, there are approximately 20 tuna canneries located in Thailand, producing nearly US\$500 million worth of products for exports every year.

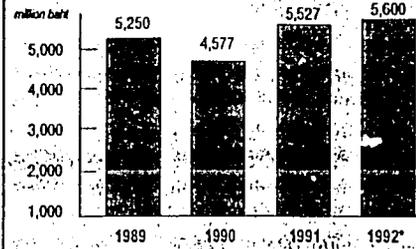
Although Thailand has maintained its position as a quality tuna packer, competition has intensified in its major export markets such as the US and Europe with the stricter Food and Drug regulations. Tuna processors, in the strive to improve their competitive edge, are improving production processes to ensure that all tuna products meet international health standards, as well as the demands of consumers. Additionally, they are also placing greater emphasis on the environment in the production and processing of their products. The Thai government, in response to this, has recently promulgated

Table 2 : Exports of canned pineapple in Thailand

Year	Volume (Tonnes)	Value (US\$ million)
1987	259,807	145.4
1988	341,414	182.3
1989	345,248	171.6
1990	398,337	215.4
1991	417,669	283.2
1992	491,367	322.7

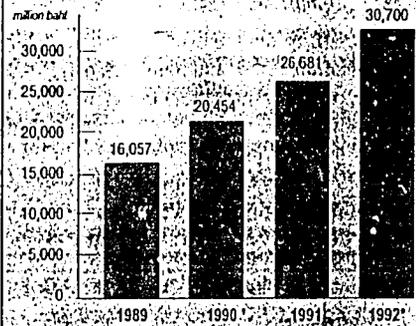
(Source : Thai Food Processors Association 1993)

Exports of frozen squid, cuttlefish and octopus



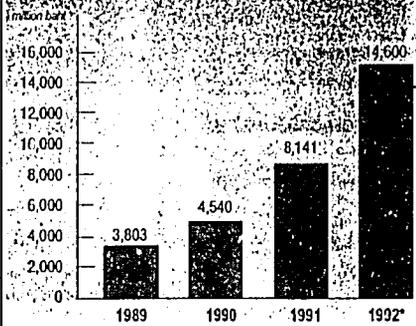
Source: Customs Department * estimated

Exports of frozen prawn



Source: Customs Department * estimated

Exports of frozen fish



Source: Customs Department * estimated

Table 3 : Exports of pineapple juice concentrate in Thailand

Year	Volume (Tonnes)	Value (US\$ million)
1987	28,220	17.4
1988	40,167	26.1
1989	58,636	34.4
1990	73,680	62.1
1991	79,960	103.1
1992	65,130	65.9

(Source : Thai Food Processors Association 1993)

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laws curbing the use of certain fishing methods to protect dolphins, sea turtles and other marine life. Relevant authorities have also been invited to enter Thailand and monitor the production process of canned tuna to reconfirm the country's emphasis on environment-friendly fishing methods.

Besides canned tuna and fish, a variety of other products from the sea are also processed and sold successfully on the world market. Thai squid, crab and baby clams have earned a good reputation for quality on the world market, and sales of these products are soaring. For 1992, exports of squid totalled well over US\$6.5 million, crab over US\$50 million and baby

clams over US\$12.2 million.

Frozen seafood Thailand enjoys similar success with its frozen seafood sectors, exporting about 75 percent of its output. Exports in 1991 reached a total of 332,638 tonnes valued at US\$1.35 billion, representing a growth of 23 percent in volume and about 25 percent in value. Furthermore, a steady increase in freezing was noted for the marine catch from 12.8 percent in 1986 to 18.8 percent in 1990. This is evident in the number of freezing plants and cold storage facilities, which increased from 94 units in 1989 to 108 units in 1990. Among the species used for freezing, the

most important are shrimp, crab and cephalopods, most of which are exported. The exports of frozen shrimp in 1992 reached 133,892 tonnes valued at US\$1.2 billion, an amount which exceeds that of the previous year by 16 percent. Similarly, export of frozen cephalopods rose to 62,575 tonnes in 1992 from 48,208 tonnes in 1990. Exports for frozen fish, excluding fillets, in 1992 also recorded an increase of more than 60 percent over the previous year, registering some 84,000 tonnes in 1992.

With rising demand for both canned and frozen seafood comes the increasing need for raw material. However, as most varieties of seafood cannot be farmed, the processing industry is dependent on Thailand's fishing fleet for raw material supply. This is the greatest challenge for the seafood processing industry now as new ways of ensuring that the present supply of raw material be maintained have to be found and if possible, increased. Aquaculture production has since been intensified and fishing joint ventures with neighbouring countries were set up to complement the imported raw materials.

Canned pineapple Pineapple, second to tuna, is Thailand's largest exported canned commodity. Currently, Thailand ranks as the world's largest exporter of canned pineapple, with exports reaching 490,000 tonnes in 1992. Constant research to improve plant species has resulted in higher yield produce. Even though land base has shrunk, overall production has remained steady, and in most cases grown. Innovative new farming

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techniques which make use of more intensive yet environmentally less damaging methods have resulted in higher quality products.

While the market for canned pineapple has been considered saturated, pineapple juice and concentrate on the other hand, is fast becoming a growing sector, with the sector's output reaching 80,000 tonnes in 1992. The two products in particular, have experienced a two-fold increase over the past four years, increasing in volumes from 40,200 tonnes in 1988 to 80,000 tonnes in 1992. These developments have attracted new players such as K T Pineapple and Produce Co to venture into pineapple juice processing. The company recently invested some US\$3.9 million to produce 3,600 tonnes of concentrated pineapple juice. To further boost the industry's performance, the Agriculture Ministry of Thailand has recently appointed a new committee to monitor the production, processing and marketing of pineapple and its by-products. It was formed to cope with the expected global economic downturn which will in turn reduce the demand for Thai canned pineapple pieces and juice.

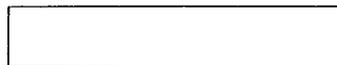
Government incentives

With the increasing importance of the canning industry in particular, and the food export sector as a whole to Thailand's economy, the government has placed greater emphasis on these sectors since its Sixth National Economic Development Plan. This is especially so in view of the increasing labour costs, costs of production of these goods as well as competition for export from countries such as

Indonesia, Malaysia, Vietnam, China and other emerging developing nations. These countries are a threat to Thailand's competitive edge.

To ensure that Thailand's food processors and farmers will continue to benefit from this highly lucrative export sector, the Thai government, through the Department of Export Promotion and the Department of Economics and Commerce, is formulating policies and implementing plans to make Thailand's value-added products more competitive and attractive to foreign buyers and consumers. These policies and plans include reduction of import taxes on raw materials used in the

production of packaging materials, packaging equipment and processing machinery. In addition, promotions of Thai food products stressing quality are organised regularly in many countries around the world through commercial offices based in the Thai embassies located there. Most importantly however, government departments are becoming more involved in the promotion of Thailand's products as well as the monitoring of production practices to ensure that the products actually meet and exceed the standards set globally for such products. **APPI**



Country Focus

Thailand

Thailand's Charoen Pokphand Group is a name well known in the food industry. APFI finds out how its relatively new fruit and vegetable division, C P Natural Produce which specialises in Individually Quick Frozen (IQF) fruits and vegetables, has managed to continue its success in the midst of competition from up and coming China and Vietnam.

Frozen produce gets a fresh approach

OVER the past two years, C P Natural Produce has become considerably export-oriented, with 95 percent of its products worth US\$3.9 million, going to markets as far as Singapore, Taiwan, Japan, United States and even Europe. Japan leads the pack of importers of fruits and vegetables, absorbing 80 percent of the company's exports. The other 20 percent of its exports is shipped to Europe and the US, and a small percentage to Singapore and Taiwan. The prospects for growth opportunities in these areas remain optimistic, with the Japanese market expected to grow at 50 percent, the European market at 20 percent and Asia at a modest rate of 10 to 15 percent in the next two years.

The success of C P's export trade can be attributed to the rapid development and expansion of Thailand's food processing industry. The country's abundant supply of raw materials has enabled the company to develop and improve the

quality of products to international standards. Moreover, being a subsidiary of its trading arm, C P Intertrade, the distribution of its freshly packed products has been made faster and more efficient — an important aspect for highly perishable goods like fruits and vegetables. "We have an advantage over others because we have so many trading representatives in the different countries. Such network has made us more competitive," said Prasert Chiarakul, section manager (fruits and vegetables division).

Staying competitive

Although C P's growth path has been fairly smooth in the past two years, its competitive edge in the fruit and vegetable exports may soon be eroded. Since the liberalisation of China and Vietnam, both countries have been developing its various industries, not only that of frozen fruit and vegetable industry, but in all other competing industries as well. "Both countries are developing very rapidly. The normal learning curve in this industry is 5 to 10 years.

These days however, the life cycle has been shortened because they



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learn from other's experience and are able to benefit from it," Chiarakul said.

Chiarakul explained that the investment for fresh fruits and vegetables is not very high as growth opportunities in this area is projected at a mere 5 percent. Nevertheless, new players continue to flood the market due to the absence of barriers to entry. This growing supply of fresh produce manufacturers in a stable growth industry has prompted

"The vegetable business is unlike the poultry or seafood business, where specialisation is the key to success. When supply meets demand, manufacturers have to shift to another product in order to remain competitive."

— Prasert Chiarakul, section manager (fruits and vegetable division)



longans, rambutans, pomelo, guava, durian, mangosteen, passion fruit and young coconut.

To ensure a high quality end product, all fruits and vegetables are processed within hours of picking from the many contract farms located nearby. Each day, a total of 45 tonnes of raw material is transported via trucks to its plant. Before processing treatment, these materials are stored in a 10 tonne capacity cold room at a temperature of 5°C. On the day of APFI's visit, vegetable processing was in operation, lending an insight into the asparagus and baby corn processing — staple products for the company.



A team of six workers prepares the cooled asparagus for blast freezing by stacking them neatly into square trays lined with metal gauze.

Japan, its major importer, to seek out new and cheaper suppliers, such as those in China and Vietnam. C P has expressed a willingness to lower prices so as to maintain its competitiveness, but stiff competition from the Chinese, Vietnamese as well as new industry players have rendered a price cut an ineffective option.

Minimal processing, maximum quality

A glimpse into the processing and packaging operations on

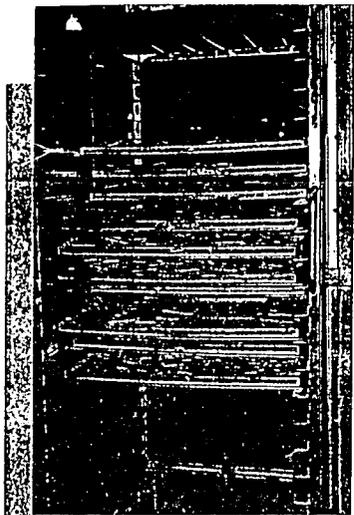
its 3,500 sq m factory floor in Pathumthani reveals the strict sanitary standards imposed on the production. 3,000 tonnes of individually quick Frozen (IQF) produce and 2,000 tonnes of fresh produce are processed annually. Among the produce processed are baby corn, asparagus, bamboo shoots, okra, onions, spring onions, leeks, tomatoes, carrots, lettuce and cabbage and

fruits such as strawberries, lychees,



Lightly blanched vegetables go through a cutting and selection process where the vegetables are selected, pruned, cut and separated according to size.

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Advanced blast freezing equipment lowers the temperature of these vegetables to -30 deg C.



Getting the frozen asparagus ready for the packaging operation remains a largely manual operation to allow for the last visual checks before packing.



Workers selecting the baby corn for packing.

From the blanching tank Fresh vegetables are lightly blanched in a huge hot water tank with the assistance of five workers. Herein lies the most critical point of the entire processing line as this process has to be kept minimal to retain the crunchy mouthfeel of the vegetables — a top priority in the Japanese market. The blanched vegetables are then subjected to a cutting and selection process where the vegetables are selected, pruned, cut and graded according to size. A team of 35 workers perform the task of selecting only the green and blooming varieties for processing and rejecting the yellow parts, while a second team of 20 workers assist in the selection for baby corn. Both these tasks are carried out on the five selection tables lined with square metal trays and metal gauze to drain excess water from

the freshly blanched vegetables. The products are graded according to the diameter and length. Asparagus is sorted according to four different diameter sizes: 3 to 5 mm, 5 to 8 mm, 8 to 12mm as well as 12mm and above and lengths of 8, 11 and 15 mm for the various export markets.

Into the freezer Sorted vegetables arranged neatly onto metal trays are left to cool under ambient temperature. This is followed by a pre-cooling process, which reduces the temperature of the vegetables gradually to 0°C to retain the original texture and appearance of the product. When the temperature reaches 0°C, the trays of asparagus are slotted manually into the racks which lines a 500 kg capacity blast freezer to be frozen at a temperature of -30°C. Cool air within the freezer blasts freeze

the vegetables to prolong the shelf life of the product. Depending on the type of vegetables or fruits processed, a vapour heat treatment is carried out following blast freezing for fruits like mango to kill the fruit flies.

To the consumer At the packaging station, frozen vegetables are packed manually into clear flexible bags and stored in a 150 tonne capacity coldroom for approximately 5 days. The final products are tested for appearance, brix level, bacteria count and weight by a small team of five workers before delivery to shipping containers to its various export markets.

Rewarding strategies

Commenting on the challenges in the fruit and vegetable industry, Chiarakul said, "One problem with this industry is that your future

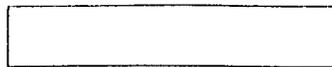
rests on natural phenomena such as the climate. As a result, the price fluctuates very often and this affects your revenue. You have to be really sensitive to the changes in order to sustain the business." For this reason, the company chose to employ contract farmers even though it has its own plantation, preferring to specialise in downstream processing as it has too many companies under its CP umbrella group. At present, C P Natural Produce has just started on its mango plantation, in which some mangoes are beginning to grow and some freshly harvested and processed.

As an added precaution to safeguard itself from risks, diversification has proven to be a good strategy. The company has since diversified its crop cultivation by growing some of its staple fruits and vegetables in different parts of Thailand. For example, mango, traditionally a crop grown and harvested in Cantaburi, is now grown on a large scale in Chiangmai and Chunpah. According to Chiarakul, China and Vietnam, hoping to accelerate the development of their respective fruit and vegetable industries, are also experimenting with this concept. However, the uncertainty over its commercial viability and the lack of relevant support technology, proper storage and handling methods, imply that their competitiveness are yet to reach international levels.

Currently, the compatibility between the demand and supply of fresh and frozen asparagus has also prompted C P to diversify and seek out a cheaper product with similar fibre content as asparagus to be promoted jointly. Justifying

this move, Chiarakul said, "The vegetable business is unlike the poultry or seafood business, where specialisation is the key to success. Considering the vast varieties of vegetables, when the supply matches the demand for

one, manufacturers have to shift to another product in order to remain competitive." **APF**



Food and drink opportunities in SE Asia

Over the last five years, the countries of South East Asia have experienced higher economic growth rates than any other parts of the world. At the same time, greater changes have taken place in the region's food and drink consumption habits than at any other time in history. Consequently, the foodstuffs markets in the ASEAN countries can offer significant opportunities for growth for those companies able to build their positions now. Nevertheless, this is not a region for the faint-hearted nor for those, whose primary aim is to make short-term gains.

Food manufacturing in SE Asia

Expenditure on food as a percentage of total household spending ranges from 19% in Singapore to 51% in the Philippines, compared with 12% in the UK and Germany. A study of the region by Promar International finds that:

- competition in processed foods is currently underdeveloped,
- market entry costs are relatively low,
- there is a trend towards 'western' style food consumption patterns and lifestyles and,
- organised distribution systems are emerging.

Food manufacturing success will depend on targeting local markets (each nation has very different demands), understanding the power of local cuisine and the region's indigenous fast food culture and responding to taste preferences and dietary restrictions. Foreign companies must be ready to invest heavily and to be patient while waiting for returns. Barriers to entry are being reduced, but are still significant:

- high import duties in all countries except Singapore and Brunei
- protectionist attitudes of governments and local businesses
- intense price competition in the more affluent markets
- strength of existing players with established distribution and strong marketing support
- low average earnings in the larger countries.

Most governments see their food processing industries as important because they supply food to the local population, thus saving valuable foreign currency, they provide much needed employment, can earn foreign currency and can expand the agricultural and fisheries sectors beyond mere commodity production.

SE Asia has a large number of firms operating in the food processing sector, most of which are small companies acting as traditional or basic processors of foodstuffs. These include farmers, fishermen or middlemen, using traditional techniques to dry or preserve produce or to produce such products as soya bean curd, spice mixes or prawn crackers. A far smaller number of medium to large firms control the bulk of the region's food processing (see table).

In 1992/93, there are less than 250 large local firms, 20% of which are listed on local stock exchanges. Many are diverse conglomerates with food chain interests. The largest local food

chain firm in the region is probably Charoen Pokphand, Thailand's family controlled fragmented commodity food group with estimated turnover for all businesses (including China) of around US\$3bn in 1991. Other large food groups include the diversified San Miguel and Salim Group and the plantation firm, Kumpulan Guthrie. When added together, the large nationally-orientated subsidiaries and associates for Nestlé, Ajinomoto and McDonald's would also count as major players in the region.

Protection of local firms has led to stagnated management styles and distinctly protectionist business strategies. Soon after the ASEAN Heads of Government signed the ASEAN Free Trade Area Accord in early 1992, it was reported that senior managers of many food and drink companies were lobbying their governments to delay implementation of new free trade measures for their products, even though the Accord specified that many food and drink products were not fast track items for tariff cuts.

Key player types in SE Asian food processing industry

Dominant firms

- | | |
|--------------------|--|
| Indonesia | 1. Privately held and locally quoted conglomerates having JVs with foreign producers |
| | 2. Government owned and controlled commodity producers |
| Malaysia | 1. Large local, privately held and locally quoted firms |
| | 2. Plantation companies |
| | 3. Consumer product trading companies with long established links with Malaysia |
| | 4. JV companies or locally quoted subsidiaries of multinationals |
| Philippines | Import substitution industries dominated by: |
| | 1. Locally quoted firms with close links to US or European food producers via JVs or licence |
| | 2. Large locals with independent brands |
| Singapore | 1. Large locals quoted or privately held |
| | 2. Subsidiaries of multinationals, some quoted on the local Stock Exchange |
| Thailand | 1. Large locals operating in the role of:
- food commodity trader
- contract food processor for foreign brands |
| | 2. JV companies or locally quoted subsidiaries/ associates of multinationals |
| | 3. Consumer product trading companies with established links with Thailand |
| Vietnam | State-run vertically integrated industries controlled at Ministry, provincial or city government level |

Fragmented food service sector

The food service sector is highly fragmented and consists of four main types of outlet: hotel restaurants, full service restaurants, western-style fast food outlets and local food shops/food stalls.

Hotel restaurants are targeted mainly at tourists and higher-income groups and rely mainly on imported fresh food, even in countries where tariffs are very high. Most hotel restaurants will be able to recover import duties via high prices for their meals, an option not available to other types of food service outlets. Full service restaurants are generally individual businesses with only a few established chains in urban areas (Aristocrat - Manila, Jack's Place - Singapore, Noodle Garden - Singapore). They serve mainly locally-produced food and aim their meals at locals with prices, standards of presentation and service set accordingly. Both western-style and indigenous cuisine are found here. Western-style fast food outlets operate as single entities, as part of a local chain or under the name of a multinational via a franchising or licensing agreement. The multinationals with the widest spread of outlets are McDonald's, KFC, Pizza Hut, A&W Family Restaurants and Burger King.

Philippines lead fast food sector

Under American influence, the Philippines have the largest fast food market in the area with sales estimated at over US\$350m in 1992. It is followed by Malaysia (US\$180m), Singapore (US\$150m) and Thailand (US\$130m). The Philippines are an exception in that they have a local chain, Jolibee, which is a serious competitor for McDonald's. Created in 1978, Jolibee now has around 100 outlets, some of which are in other Asian countries, and controls over 40% of the Filipino fast food market. Jolibee has an estimated annual turnover of US\$100m and is continuing to expand its chain. Management attributes its success to a unique combination of Filipino favourites and American-style standards.

Carbonated drinks dominate in Hong Kong

The Hong Kong soft drinks market is dominated by the carbonated drinks sector, which accounts for over 43% of

sales. Swire Bottlers are the franchised bottlers for Coca-Cola, Sprite and Fanta and the Schweppes range and held 79% of the value of the carbonated drinks market in 1992. They are followed by United Soft Drinks (a subsidiary of Hutchison Whampoa), which has a joint venture with PepsiCo to distribute Pepsi, Seven-Up and Sunkist. USD held 15% of this market segment last year, according to a Euromonitor report.

Mineral water holds a 23% share of the overall soft drinks market and this sector is led by AS Watson & Co with its Watson Distilled Water brand (75% market share). Watson is followed by Vita Company with a 15% market share. The remaining 10% is made up of local generic brands such as 7-Eleven and No Frills.

Coca Cola, produced and distributed by Swire Bottlers, also manufactures a range of Hi-C tetrapak drinks exclusively for the local market. This is now the leading fruit juice brand, although supermarket sales for home consumption are dominated by imported brands. The tetrapak juice market is evenly divided between Yeo Hiap Seng, Swire Bottlers and Vita (which leads the bottled milk and ethnic drinks sector). Mr Juicy (United Soft Drinks) dominates the fresh fruit juice litre pack market, followed by Big Squeeze (Dairy Farm) and Sunfil (Swire Bottlers).

Leading soft drinks companies in Hong Kong, 1990

	Turnover (HK\$million)
AS Watson*	9 095
Swire Bottlers*	4 626
Yeo Hiap Seng	475
Vitasoy International	100

* Consolidated sales for Industries Division; Sources: Annual reports, Euromonitor

'Prestige' league determines Indonesian consumption

Indonesia had 26 carbonated drink factories in 1990 with a total production capacity of 348 million litres. Six of these factories were in Jakarta and accounted for 37% of total output, while the remaining 20 companies were spread throughout Indonesia. Coca Cola dominates the sector with 21 producing companies, the largest of which,

Djaya Beverages, has a 24% share of the Coke market. It is followed by Tirtaline Bottling, Pan Java Bottling, Polari Limunusa and Mirza with around 8% market share each. The Pepsi Group, which also produces 7-Up under licence, has seven producers. Mirza is the largest with 31% of Pepsi production followed by Pancaran Citra with 22%.

Consumption growth is relatively modest in Indonesia, but as western fast food and beverages gain in popularity, soft drinks sales should grow. Soft drinks have a 'prestige league table' with Green Sands shandy seen as the most 'adult' drink, followed by Coca Cola, Sprite and Fanta. Cold tea consumption is likely to rise only marginally, as tastes adjust to carbonated drinks. But other drinks, which are far more affordable than fizzy drinks, should also expand and take market share, especially milk drinks. Sports drinks are not expected to have an impact on the market for some time.

Leading soft drinks companies in Indonesia in 1990

	Output (*000 litres)	Sales (Rp m)
Aqua Mississippi	190 500	30 056
Sinar Sosro	179 791	150 100
Alfindo Putra	76 200	n/a
Henson Makmur	63 000	n/a
Djaya (Coke)	61 038	87 165
ABC Central	50 620	n/a
Moya Zamzami		
Utama	45 720	n/a
Ultra Jaya	30 000	n/a
Tirtalina (Coke)	21 793	n/a
Pan Java (Coke)	20 426	n/a
Bank Maramu	n/a	72 000
Caputra	n/a	138 000
Delta Djakarta	n/a	42 470
Multi Bingtang	n/a	143 721
Suiba Indah	n/a	26 000

Note: Consolidated accounts for all operations. Sources: Trade sources, Euromonitor

Distribution difficulties in the Philippines

Low purchasing power in the Philippines means that soft drinks are an expensive luxury. A further bar on sales is the cheaper availability of beer. Distribution is a problem as 70% of the population lives in rural areas and the major companies control the existing channels,

with the prevalence of returnable bottles adding to the difficulties.

Three companies dominate the carbonated drinks sector: Coca Cola Bottlers Philippines (San Miguel) with 68.3% of the market, Pepsi Cola Products Philippines with 20.5% and Cosmos Bottling with 7.8%. Total consumption is estimated to have exceeded 270m litres in 1992, up by 48% on 1987 and the market grew by 5% in 1992 alone. In the last two years, the bottled mineral water market has seen growth of around 40% per annum. Currently, 23 brands of mineral water are sold in the Philippines, seven of which are imported. While reports indicate that consumption is rising quickly, growth will probably be restricted to the wealthier inhabitants of urban areas, as bottled water is more expensive than beer. The Philippines have sixteen fruit juice manufacturers: eight have production capacities of over 4.5m litres a year and several focus on contract manufacturing for foreign brands. Domestic sales of packaged juice are minimal, owing to the high cost of packaging and distribution and the ready availability of fresh tropical fruit. Although the market has growth potential, demand would have to rise considerably before market entry could be justified.

Coca Cola Bottlers Philippines Inc (CCBPI), part of the San Miguel Corporation, dominates the entire soft drinks industry with a 68% share and a leading position in most sectors. Apart from the main producers, there are some 100 small manufacturers with total value output (including alcoholic beverages) of Ps25 189m.

Philippines: soft drink companies, 1990

	Sales (m cases)	Turnover (Ps m)
Coca Cola Bottlers	239	9 590.7
Pepsi Cola	62	2 868.3
Cosmos	23	588.7
Royal Crown	9	n/a
Paranaque	n/a	13.6

Sources: Asia Pacific Food Industry, Euromonitor

Health trends in Singapore

The Singapore carbonated drinks sector is led by Fraser & Neave (Coca Cola, Sprite, Fanta, Sarsi, Zappel) and

Yeo Hiap Seng (Pepsi, 7-Up, Miranda, Schweppes), which control around 90% of the market. Output has been falling as new plants outside Singapore, especially Malaysia, have been brought into production. Sales have also declined as consumer tastes mature and move towards healthier drinks such as fruit juices, mineral water and sports drinks. There is only one mineral water producer, Wanin, and imports account for 32m litres (Malaysia 22%, Hong Kong 18%, France 15% and ASEAN countries 24%) of total consumption of 46.9m litres (1992). Market growth from 1988-1992 is estimated to have been 56%, as bottled water replaces tap water and steals share from carbonated drinks. Despite the duopoly of F&N and Yeo Hiap Seng in the fruit juice market, there is scope for entry as almost all fruit juice is imported. Per capita consumption of fruit juice has risen since 1988, although by 1992, it had not returned to its recent high of 15.9 litres in 1990. It is expected to continue rising as consumers switch from carbonated drinks to healthier alternatives.

S. Korean soft drinks sector heads industrial growth

In South Korea, the beverage industry is one of the fastest-growing domestic industries with rapid expansion in fruit juice and mineral water, while the carbonated drinks sector has slowed considerably. As the market develops, there are more opportunities for product diversification, especially into new craze drinks and luxury image drinks. Nevertheless, the market is still highly restrictive to foreign companies, owing to the complex and expensive distribution system.

Top soft drinks companies in S. Korea in 1990 (Won million)

	Sales*	US\$m
Chosun Brewery	395 884	492
Lotte Chilsung	368 359	458
Jinro	179 374	223
Haitai Beverages	165 823	206
Doosan beverages	145 986	181
Bum Yang	59 093	73
Ho Nam	35 563	44
Dong-A	33 866	42

* Consolidated sales for all operations; Source: Euromonitor

S. Korean consumption of carbonated drinks is forecast to rise from 1.137bn litres in 1993 to 1.17bn litres by 1997, while consumption of fruit juices is expected to increase from 751m litres this year to 1.103bn litres by 1997. Despite a government ban on the sale of bottled water to S. Koreans, consumption is expected to double from 259m litres this year to 517.6m litres in 1997. If the ban were to be lifted, these estimates would be far too low. Sports drinks have seen extraordinary growth since 1988, when Seoul hosted the Olympic Games. Carbonic acid drinks such as fibroid soft drinks and ion beverages are becoming more popular and are expected to increase their share of the sports drinks sector. Consumption of all sports drinks is forecast to rise from 87.8m litres in 1993 to 131.7m litres in 1997.

Rising spending power in Malaysia

Malaysian expenditure on soft drinks is rising owing to real income growth. Further market expansion is expected due to urban growth and rural migration and higher urbanisation should lead to more homogeneous tastes and a wider acceptance of western drinks. As Malaysia has a high number of Moslems, soft drinks are consumed as an alternative to alcohol and consequently demand is higher than elsewhere in the region, especially in the on-trade.

Leading soft drinks companies in Malaysia, 1990 (M\$ million)

	Turnover
Fraser & Neave	1 230
- drinks division	80
Antha (Pepsi, 7-Up)	508
Cerebos	497
Yeo Hiap Seng	230
Permanis	68
Beecham	51

Note: Consolidated sales; Sources: Annual reports, Euromonitor

Taiwan's industry threatened by imports

Imports of soft drinks into Taiwan have risen sharply, following recent import liberalisation and continued tariff cuts. Imports are now threatening the local industry, especially in the fruit juice sector, as agricultural land is at a premium. Uncompetitive labour prices and outdated equipment are also

making it difficult for domestic manufacturers to keep pace with cheaper imports.

Taiwanese soft drinks market, 1992 (m litres)

	Sales volume	%
Carbonated drinks	473.1	36.4
Fruit juice	365.0	28.1
Cold tea	234.1	18.0
Sports drinks	153.6	11.8
Mineral water	77.4	5.7
Total	1 300.2	100

Source: Euromonitor

Unlike many SE Asian soft drinks markets, Taiwan has no single dominant company. Most of the major manufacturers are also active in food production and control much of the food distribution network, making penetration difficult for smaller players.

The major market trends, says Euromonitor, are towards variety, youth and image. Taiwanese consumers have become very health conscious. Natural, healthy and nutritious beverages such as vegetable juice, health drinks and tonics will be the driving force of the soft drinks market over the next few years. Fibre and organic drinks are already selling well and low-calorie drinks are likely to receive high consumer acceptance.

High growth expected in Thailand

An improved political climate and greater government stability in Thailand combined with the strengthening economy are expected to support and sustain considerable growth in all soft drinks sectors with particular emphasis on mineral waters.

Thai market for soft drinks (million litres)

	1988	1992
Carbonated drinks	953.8	1 347.3
Energy drinks	83.7	157.1
Mineral water	33.5	43.6
Fruit juices	7.6	33.4
Total	1 078.6	1 581.4

Sources: Department of Statistics, Euromonitor

Thailand is a net importer of mineral water (1992: imports 1 351 900 litres, exports 778 500 litres), with 80% coming from France, largely to satisfy the tourist trade. All other imports are from the SE Asian region. Exports are

primarily to ASEAN neighbours. Thailand has around 475 bottled-water manufacturers, the largest of which is North Star ('Polaris' brand) with an estimated 60% market share. The only other company with a significant share is Boon Rawd Brewery ('Singha' brand) with 25%.

The three major soft drinks companies are Serm Suk (PepsiCo's exclusive bottler) with 41% of the market, Thai Pure Drinks (largest producer of Coca Cola range) with 50% and Haad Thip (Coca Cola) with 4%. The continuing cola war dominates the market and conflicting information makes it difficult to establish the market leader. Although Coca Cola is thought to hold 57% of the carbonated drinks market and PepsiCo 40%, Thailand is one of the few countries where Pepsi has a noticeably higher profile than Coca Cola.

Political turmoil in May 1992 has had a negative impact on the tourist industry. This in turn has adversely affected the soft drinks industry (especially carbonated drinks and mineral water), reducing growth to 3-5% for 1993, but increasing to around 8% thereafter.

£1 =

HK\$	11.9	S.Kor. Won	1235
Taiwan \$	41.23	Thai. Baht	38.4
Viet. Dong	16384	Sing. \$	2.45
Phil. Peso	42.2	Indo. Rup.	3221.7
Malay. Ringgit	3.99		

Buyer	UK, £	Price		Unit	Price	Change
		Per	100			
Okra						
Kerry, 2kg						
New Covent Garden		500				
Leeds		475	50			
Western International		450				
Onions						
Holland, 20kg		320				
UK, 20kg						
Western International		625	50			
Potato						
New Spathelets		490				
Gangway		475	50			
Belfast		450				
Leeds		410	20			
Potato, 25kg						
Main Header		50	60			
New Covent Garden		500	100			
Sheffield		490				
South		480				
Sheffield		800				
Gangway		875	50			
New Spathelets		850				
Birmingham		820	100			
Western International		825	50			
New Spathelets		820				
New Covent Garden		800				
Liverpool		800				
40/50mm		820				
UK, 25kg		490				
Belfast		310	20			
New Covent Garden		260	40			
New Spathelets		260				
UK, 25kg		115	10			
Western International		115				
Liverpool		130				
40/50mm		480				
UK, 25kg		130				
Belfast		130				
New Spathelets		130	20			
New Covent Garden		300				
Leeds		275	50			
UK, 20kg		270				
Western International		270				
Parsley						
UK, 5lb		475	50			
Gangway		600				
Manchester		600				
Leeds		600				
Birmingham		600	100			
New Spathelets		500				
Western International		500				
New Covent Garden		450	100			
UK, 5lb		375	50			
New Covent Garden		340				
UK, 5lb		100				
Parsnips						
UK, 14lb		290	20			
Manchester		350	100			
Birmingham		375	50			
Liverpool		265	30			
Leeds		265				
New Spathelets		290				
New Covent Garden		275	50			
Western International		275				
UK, 20kg		375	50			
Belfast		265	30			
Gangway		265				
Western International		275	50			

Plantains

Colombo, 20kg		2000				
Western International		2000				

Potatoes

Cornish, 20kg		1000				
Leeds		965	30			
Gatweg		960				
New Spathelets		950				
New Covent Garden		790				
UK, 10lb		725	50			
Western International		710	20			
New Spathelets		660				
UK, 20kg		600				
Gatweg		600				
New Spathelets		400				
UK, 10lb		350				
New Covent Garden		925	50			

Beetroot

UK, 25kg		375	50			
Western International		300				
New Covent Garden		270	60			
Sheffield		265	30			
Leeds		260	40			
New Spathelets		275				

Radish

Holland, 20 lb		690				
Belfast		600				
Western International		550				
New Covent Garden		500				
UK, 20 lb		350				
Liverpool		60				
UK, 5lb		375	50			
Gatweg		300	200			
Western International		260	120			
New Covent Garden		250	60			
Sheffield		240				
Leeds		240				
New Spathelets		200				

Salad Cress

UK, 12 lb		160				
Belfast		120				
Sheffield		115				
Gatweg		110				
New Covent Garden		110				
Liverpool		110				
Manchester		110	20			
UK, 12/16 lb		130	40			
Birmingham		160				
New Spathelets		150				
Western International		150				

Salicy

Birmingham		500				
New Covent Garden		500				

Spinach

Cornish, 20 lb		800				
UK, 5kg		675	50			
Western International		650				
Birmingham		625	50			

Liverpool		625	50			
UK, 20kg		550	100			
New Covent Garden		500				
UK, 10lb		365				
New Spathelets		350				
New Covent Garden		350				
UK, 6lb		260				
Western International		240				

Spring Onions

UK, 20 lb		540	80			
Manchester		475	50			
Liverpool		400				
New Covent Garden		400				
New Spathelets		400				
UK, 20kg		400				
Western International		400				
UK, 20 lb		75				
Leeds		30				
UK, 10lb		140				
Gatweg		130				
UK, 10lb		30				
UK, 10lb		190	60			
Leeds		185	10			
Birmingham		180				
Sheffield		180				
New Covent Garden		180	40			
Western International		175	50			
New Spathelets		150				
Liverpool		150				

Sweet potatoes

Barbados, 3lb		1400				
New Spathelets		650				
UK, 20 lb		700				
Holland, 9lb		450				
New Spathelets		600				
New Spathelets		190	60			
Leeds		185	10			
Birmingham		180				
Sheffield		180				
New Covent Garden		180	40			
Western International		175	50			
New Spathelets		150				
Liverpool		150				

Sweetcorn

UK, Liverpool		195	90			
Manchester		650				
Holland, 2kg		650				
New Covent Garden		600				
Leeds		590				
Liverpool		575	50			
Sheffield		550				
Western International		550				
Holland, 12		1180				

Turnips

UK, 10lb		250				
Manchester		265	30			
New Covent Garden		265	30			
Western International		250				
New Spathelets		250				
Leeds		250				

Watercress

UK, 10 lb		1050				
Belfast		475	50			
Birmingham		475	50			
Manchester		475	50			
Western International		420				
Sheffield		420				
New Spathelets		400				
Liverpool		400				
UK, 20 lb		490	20			
New Covent Garden		400				
New Spathelets		300				

Yams

UK, 20kg		3000				
New Covent Garden		3000				
UK, 25kg		3000				
New Spathelets		3000				

RETAIL PRICE GUIDE

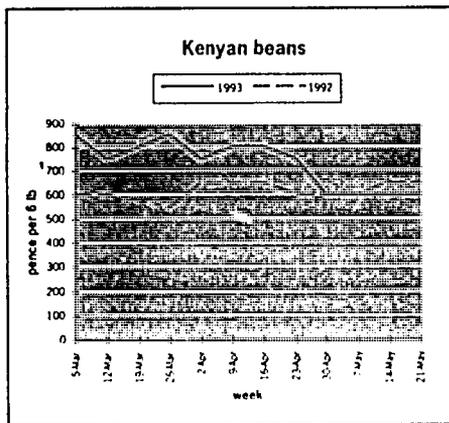
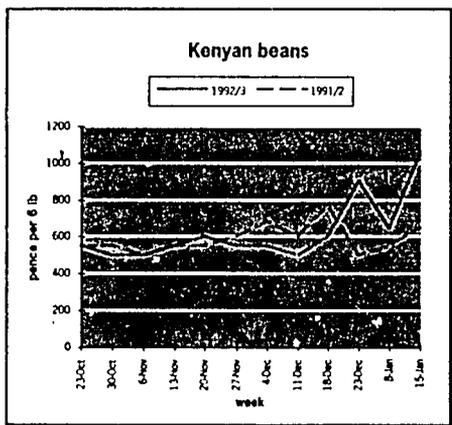
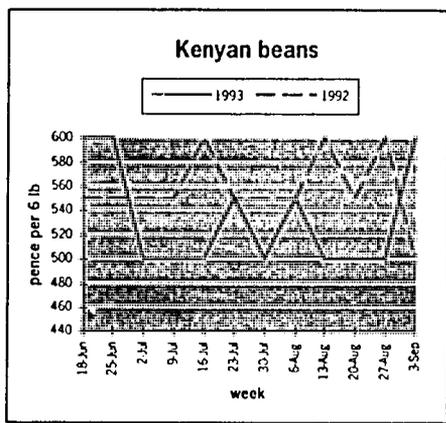
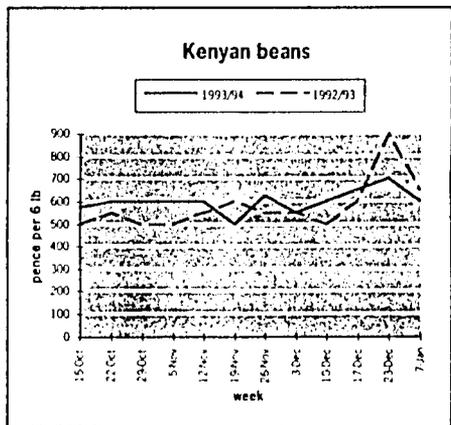
The following are the prices prevailing throughout the UK at retail level. Collated and supplied by the Fresh Fruit and Vegetable Information Bureau, they include both independent and supermarket outlets. Variations in price may be evident however in specific parts of the country. (Applicable: February 2-8).

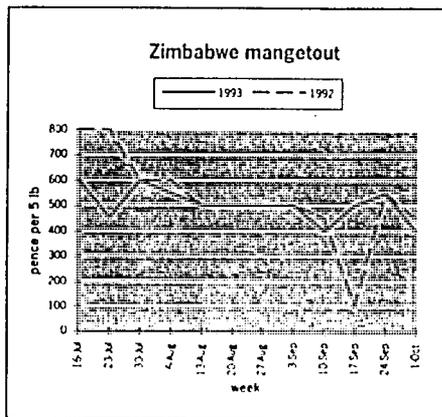
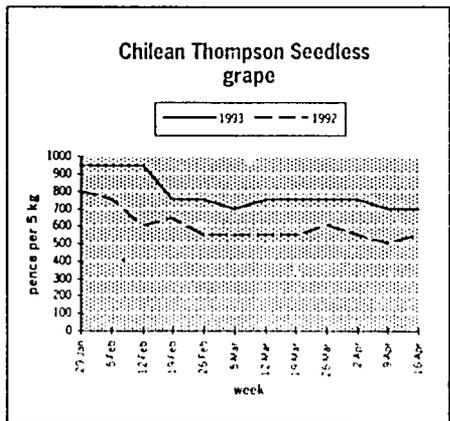
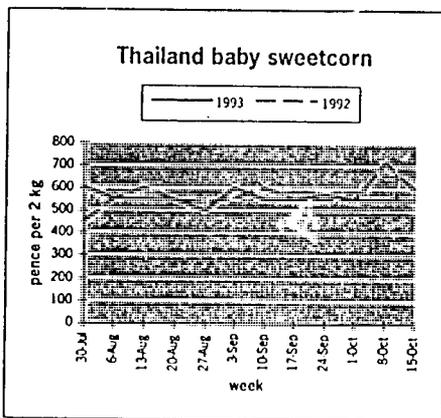
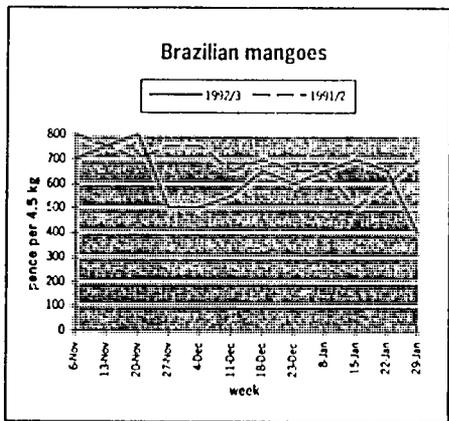
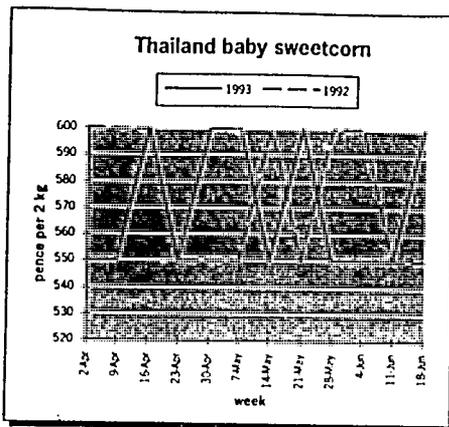
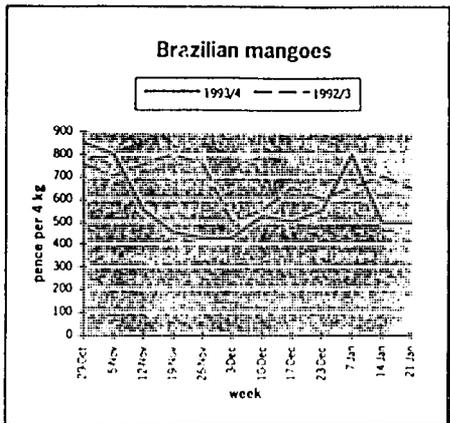
FRUIT

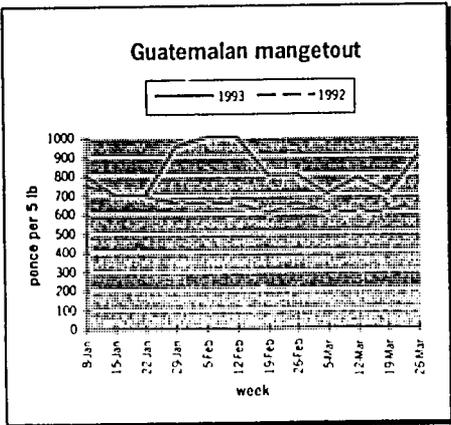
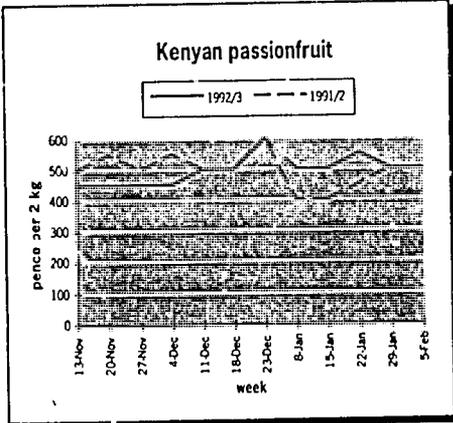
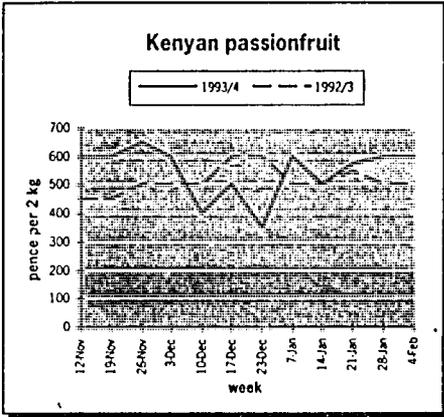
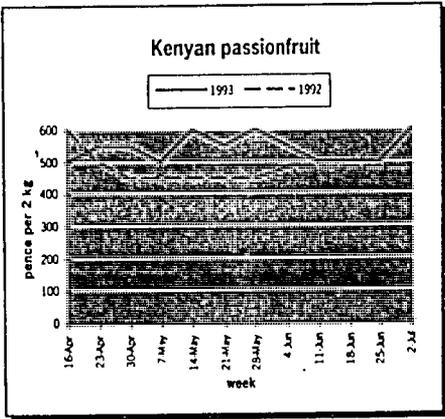
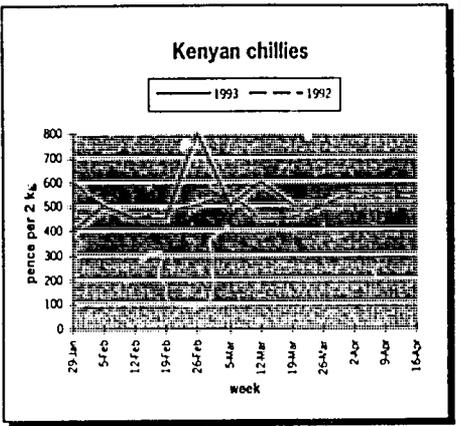
APPLES			
UK			
Bramley		25	50
Colt		35	65
Russet		35	65
Gala		40	59
France			
Bramley		40	65
Golden Delicious		39	48
Granny Smith		39	48
Royal Gala		35	59
USA			
Macintosh Red		55	69
Red Delicious		50	65
Empire		39	55
APRICOTS			
South Africa		75	99
AVOCADOS			
Spain		35	85
BANANAS			
all sources		40	75

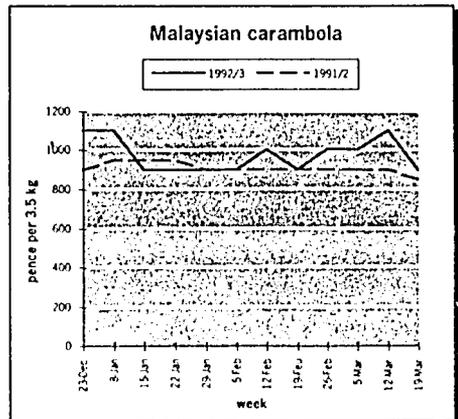
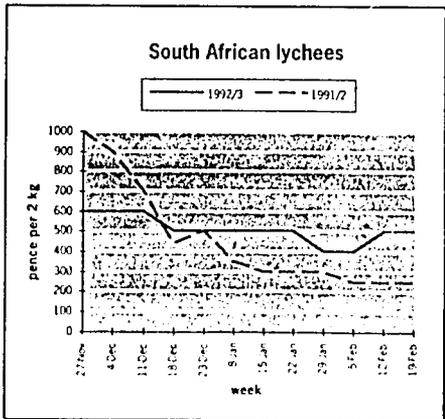
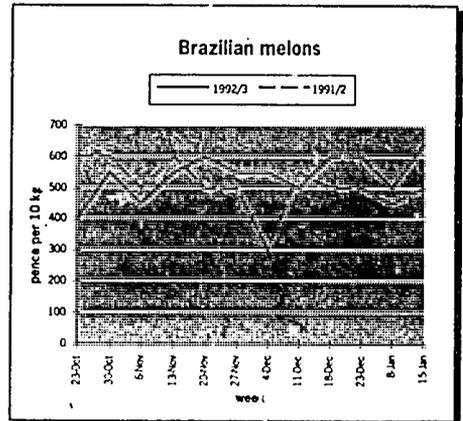
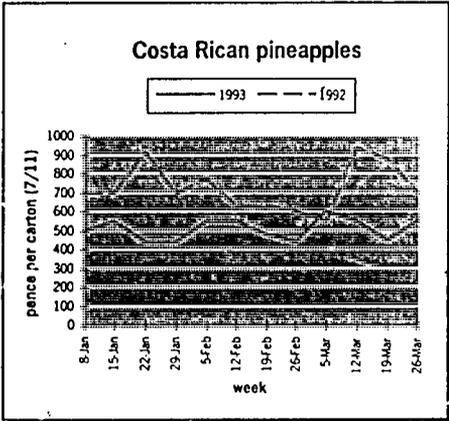
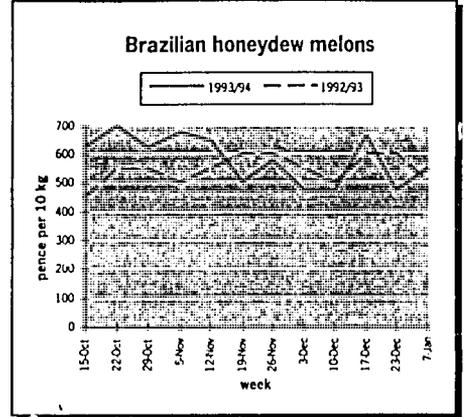
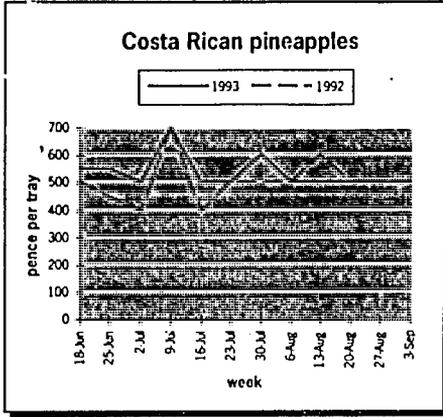
CARAMBOLA	each	70	85
Malaya			
COCONUTS	each	25	50
Malaya			
CLEMENTINES	each	5	12
Spain			
GRAPE	lb		
Spain			
White		35	90
white seeded		50	100
black seeded		50	120
South Africa			
Sultana		135	180
Thompson Seedling		110	195

FPJ Wholesale Price Comparisons









Monitor of the produce trade

MATURITY and stability typify the current state of the international market for fresh produce, although it is still at the mercy of climatic changes, fluctuations in import/export volumes and seasonality of produce.

With reference to the 1988-92 period in seven key countries (the UK, France, Germany, Italy, Spain, Japan and the USA), the latest Euromonitor Market Direction report says that there has been constant growth in value over the last five years despite the economic situation - the reason for this, according to Euromonitor, is the increasing popularity of higher quality products and premium-priced exotics.

Exotics are winning in the market where stakes against traditional fruit and vegetables following promotional campaigns to develop niche markets. Their winning lines, thanks to consumer concern about healthy eating, are leafy vegetables, salad products and all fruit.

Potato consumption has fallen in several markets as consumers turn to other carbohydrate providers - the sector has contracted by almost 10 per cent in the UK during the years in question, by 8.6 per cent in France and by 4.3 per cent in Japan. However, Germany has bucked this trend: the aftermath of reunification has meant a surge in demand for potatoes from the former east

German states where low-priced, harder cooking varieties are favoured. The market there has leapt forward by almost 40 per cent.

Organic produce has failed to attract the market share hoped for - Euromonitor's research suggests that low-input production techniques will replace organic produce eventually.

The rise in popularity of prepacked fruit and vegetables has been tempered by media coverage, particularly in the USA, regarding the possible risk of contamination of food during the packing process - irradiation (to lengthen shelf life) and biotechnology (to create the "perfect" product) are currently the issues most discussed.

On the marketing front, Euromonitor describes the produce trade as fragmented, despite the recent trend for producers to work together in marketing plans aimed at improving product image.

Taking a closer look at particular lines, the study places apples firmly in the lead in terms of market share in all countries except Spain and Japan. In Spain citrus leads the way, while in Japan investment in banana plantations and modern storage and distribution methods has resulted in bananas being the most popular fruit. Sales of bananas have increased during 1988-92, however, in Germany (by 88 per cent), the UK (by 43.5 per cent) and the USA (by 54.4 per cent).



Bananas: first choice for Japanese consumers.

On the vegetable front, tomatoes are top of the list in all countries bar the UK and Japan, the only two not to have recorded a growth in this product during 1988-92. In the UK, the tradition for root vegetables holds

firm. Carrots and onions accounting for more than a quarter of volume sales.

The full report is available from Euromonitor on 071-251 8024 priced at £1,375.

Exports as a percentage of domestic output of fruit* 1987-1991

% volume	1987	1988	1989	1990	1991
France	29.0	26.4	27.1	26.8	37.8
Italy	16.7	14.0	14.6	16.3	18.3
Germany	3.4	1.8	2.9	3.7	na
Spain	na	33.2	30.1	32.5	35.2
UK	na	12.0	10.8	12.9	19.4

Exports as a percentage of domestic output of vegetables* 1987-1991

% volume	1987	1988	1989	1990	1991
France	na	na	na	11.0	13.0
Italy	6.2	6.3	5.9	5.5	5.7
Germany	7.8	7.8	4.4	6.6	na
Spain	na	13.7	11.9	10.6	15.1
UK	na	1.2	1.7	1.6	2.1

Source: Euromonitor Market Direction

Note: *comparable data for the US and Japan are not available

High levels of domestic consumption mean that exports of vegetables from Europe are relatively limited. There are high levels of fruit export from countries such as France, Italy and Spain which benefit from favourable climatic conditions. Euromonitor research indicates a steady increase in exports of both fruit and vegetables from the UK, even though the volumes as a percentage of domestic output remain low.

A look to the future for world markets

TAKING a look into its crystal ball, Euromonitor comes up with a somewhat blurred image - predicting the future is an uncertain art at the best of times. A few trends are identified during the 1992-97 period, however.

Decline is forecast in France and Japan and long-term stagnation is predicted in Spain and in Germany where the stimulus of reunification has faded and recession set in. The

UK and USA are expected to show a more positive trend with the industry growing at a rate of two per cent (up to a value of £5.2bn in 1997) and 27 per cent respectively.

Euromonitor emphasises that consumer concern over healthy eating and the environment will continue to have a positive effect on sales of produce. Exotics will remain popular as consumers become more adventurous

in their tastes and modern lifestyles will add weight to the argument in favour of prepacked convenience foods. The attempt to create a niche market for organic produce has proved unsuccessful, according to Euromonitor, because of "high prices, lack of variety and poor supply".

A conclusion to the GATT talks and the proposed reforms of the Common Agriculture Policy (CAP) are

identified as providing a degree of stability in the future trading climate. A GATT solution would eliminate the fear of protectionist attitudes from certain countries, while the EU banana regime could be revised under forthcoming changes to the CAP. Japan, meanwhile, is being seen less and less as a protectionist country as its system of tariffs and quotas becomes more liberal.

Volume consumption of fruit and vegetables in major markets* 1988-1992

'000 tonnes	1988	1989	1990	1991	1992
France	9,016	8,801	8,682	8,723	8,770
Italy	13,829	14,335	14,507	14,843	15,298
Germany	7,085	7,033	7,303	9,446	9,756
Spain	9,142	8,919	8,986	8,951	9,000
UK	6,568	6,547	6,477	6,458	6,492
Japan	14,149	13,767	13,496	13,264	13,826

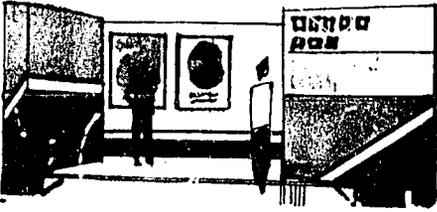
Source: Euromonitor Market Direction

Note: *there are no equivalent data available for the US

The stability of the key markets reviewed by Euromonitor is reflected in the constant or just marginally declining consumption of produce during the years in question. Consumption in Italy rises as meat consumption there drops, while the German market is boosted after reunification. The UK has the lowest consumption of all markets considered at just under 6.5m tonnes. Market value growth has been healthy - rates vary from 28 per cent in the UK to 43 per cent in the USA. While this can in part be explained by the concern with healthy eating, produce price inflation, especially in the USA, must also be considered. Slight value decline in France and Japan is explained by big harvests, oversupply and subsequent price pressure. In real growth terms, the UK was alone to decline between 1988 and 1992 as recession and fruit price inflation hit the market. Germany recorded the greatest growth as a result of reunification, while the USA market reaped the benefits of the 'five-a-day' programme.

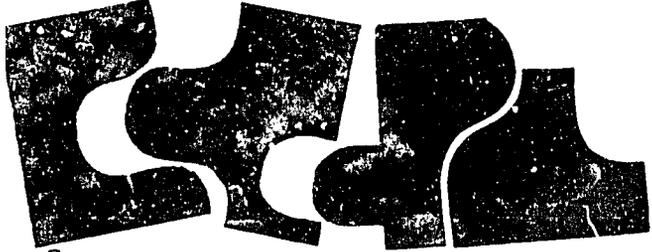
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කාපි ආයතන හා නිෂ්පාදකයින් හට අපනයන අවස්ථා පිළිබඳ තොරතුරු කෙලින්ම ලබා ගැනීම සඳහා මෙහෙයුම් දුත මෙහෙයුම් සහ වෙළඳ පුද්ගලයන් සංවිධානය කිරීමද 'ඇගෝට්' සේවාවකි.



ප්‍රචාරක සහාය

ඵතෙට වෙළඳ පොළේ නිෂ්පාදන සඳහා ඉල්ලුමක් ඇතිකිරීමට හා වර්ධනය කිරීමට ඉතාමත උචිත ප්‍රචාරක දැන්වීම්, සැලසුම් කොට ලබා දීමට 'ඇගෝට්' ඉදිරිපත්වී සිටී.



*** හවුල් ව්‍යාපාර සඳහා සුදුස්සන් තෝරා ගැනීමේ සහ ඵවා වර්ධනය**

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තව්න නිෂ්පාදන තාක්ෂණික ක්‍රම

ඵව තාක්ෂණික ක්‍රම හා පුහුණු මගින් නිෂ්පාදනය වැඩිකිරීම, නිෂ්පාදන වල තත්වය වැඩි දියුණු කිරීම සහ නිෂ්පාදන වියදම අඩු කිරීම සඳහා අවශ්‍ය ආධාර වාණිජමය වගා-කරුවන්ට හා ඇගකුත් වගාකරුවන්ට ලබාදීමද මෙම ආයතනයේ සේවාවකි.

'පසු අස්වනු' නිෂ්පාදන

වැවිලි කරුවන්, තොග ගැනුම්කරුවන් හා අපනයනය කරන්නන් නිතර මුහුණ දෙන 'පසු අස්වනු' වාසු මහ හරවා ඇලවී ක්‍රියාවලියේ සෑම අදියරකදීම වඩා හොඳ ප්‍රතිඵල අත්කර දීම සඳහා තව්න 'පසු අස්වනු' නිෂ්පාදන ක්‍රම ඉදිරිපත් කිරීම මගින් සුදුසු සහාය දීමටද 'ඇගෝට්' බලාපොරොත්තුව සිටී.

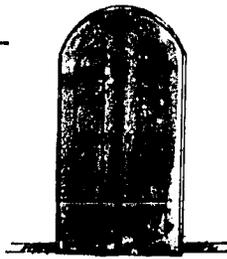


පුහුණු කිරීමේ කටයුතු

නිෂ්පාදනය, සැකසුම හා ඇලවී කිරීම පිළිබඳ විශේෂ දේශනාමාලා, වැඩ මුළු, පුහුණු වැඩ සටහන් හා ඵතෙට පුහුණු වාර්තා සඳහා අනුග්‍රහය දැක්වීමද 'ඇගෝට්' හි බලාපොරොත්තුවකි.

*** කෘෂි ද්‍රව්‍ය නිෂ්පාදනය, සැකසුම සහ අලෙවිකරණය පිළිබඳ තොරතුරු මධ්‍යස්ථානය**

කෘෂි නිෂ්පාදනය, සැකසුම හා විකුණුම පිළිබඳව කෘෂි ආයතන නිෂ්පාදනයන්හි නියැලුණු ආයතන හා පුද්ගලයින් හට කාලීන තොරතුරු සහ දත්තයන් සැපයීම උදෙසාම තොරතුරු මධ්‍යස්ථානයක් පවත්වාගෙන යාමට 'ඇගෝට්' පියවර ගෙන ඇත.



*** කෘෂි ව්‍යාපාර සංවර්ධන ආධාර**

අනාගතයේදී සාජිවක හා පළදායි කෘෂි ව්‍යාපාර බිහිකිරීමේ අරමුණු ඇතිව, ව්‍යාපෘතික අවසරයන් කෘෂි කටයුතුන්ගේ නියැලුණු නවීන නිෂ්පාදන සහ සැකසුම් ක්‍රම හඳුන්වාදීම නිෂ්පාදන සඳහා පහසු පෙදේ පොළ පර්යන්තය හිමිවීම (ආයෝජන ආධාර හෙදා) ගැනීමේ පදනම සපුරා ඇතිව පියවර ගනු ඇත.

*** කෘෂි ව්‍යාපාර සඳහා මූල්‍ය/ආයෝජන සැලසුම්**

ඵලදායී ව්‍යාපාර ආයෝජන සැලසුම් සකස් කිරීම සඳහා තම පාරිභෝගිකයන් හට සහාය වීමේ අරමුණු ඇතිව, මූල්‍යමය අංශය පිළිබඳව විශේෂ උපදෙස් සේවයක් 'ඇගෝට්' ක්‍රියාත්මක කරගෙන යයි.

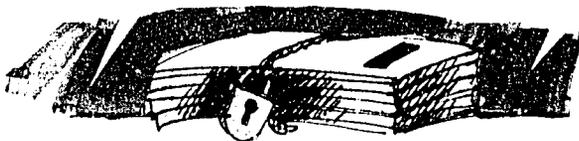


*** විශේෂ සැලසුම් හා ඵලදායීත්වය පිළිබඳ අධ්‍යයනය**

ඵලදායී හා පහසුව පෙදේ පොළ වැඩි දියුණු කිරීමේ අදහස් ඇතිව නිෂ්පාදනය, සැකසීම, බෙදාහැරීම හා විකුණුම පිළිබඳව මූලික කෘෂි සේවකයන් අවශ්‍යතාවය පරිදි උචිත කටයුතු පිළිබඳ අධ්‍යයන කටයුතු කිරීමද 'ඇගෝට්' හි එක් බලාපොරොත්තුවකි.

*** රහස්‍යභාවය සුරැකීම**

සෑම පාරිභෝගික කටයුත්තක් පිළිබඳව අනිශ්චය රහස්‍යභාවය සුරැකීම 'ඇගෝට්' සහතිකයයි.



*** 'ඇගෝට්' උපදෙස් සහ ආධාර කණ්ඩායම**

'ඇගෝට්' උපදෙශක කණ්ඩායම, දේශීය හා විදේශීය කෘෂි ව්‍යාපෘති පිළිබඳ දීර්ඝ කාලීන අත්දැකීම් සහිත, තරඟකාරී කෘෂි ආර්ථික තත්වයන් යටපත්ව ව්‍යාපාර, නවුල් ව්‍යාපාර වර්ගය, අලෙවි ක්‍රියාවලිය, නිෂ්පාදනය, සැකසීම හා මූල්‍යමය අංශයන් පිළිබඳ හසල දැනුමක් සහිත උපදෙශක කණ්ඩායමකි.

මූලික කෘෂි ව්‍යාපෘති හා කෘෂි කර්මාන්තයේ නියැලුණු ඵලදායී දැනුම බෙදා දීමට දැන් 'ඇගෝට්' සුදානම්ව සිටී.

වැඩි විස්තර සඳහා විමසන්න.

කොළඹ කාර්යාලය

5 වන මහල,
ඩොයිස් බැංකු ගොඩනැගිල්ල,
86, ගාලු පාර,
කොළඹ 3.

අමතන්න: 80වී හර්ල්බ්‍රික්ක්
කණ්ඩායම් නායක
දුරකථන: 94-1-446447, 446420
වෙලිඟුක්ස්: 94-1-446428



ශ්‍රී ලංකාවේ
කෘෂි නිෂ්පාදන හා
අපනයනයට අදාළ ව්‍යාපාර

සාර්ථක ලෙස සංවර්ධනය වීම
දිරිමත් කරවීම සඳහා
පුද්ගලික අංශය වෙත
යොමු කෙරෙන උපදෙස් හා
ආධාර සේවය.



ඇගෙන්ට් (AgEnt)

ශ්‍රී ලාංකීය කෘෂි ව්‍යාපාරයන්ට

ආධාර සහ සහයෝගය දීමේ ඇගෙන්ට් සැලසුම.

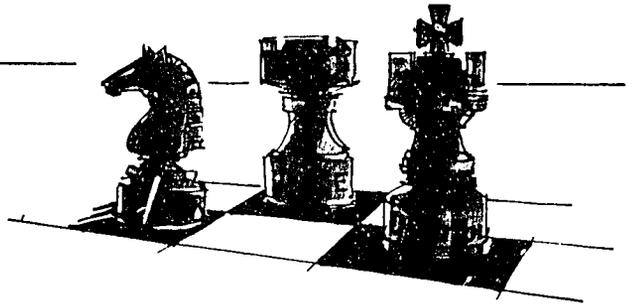
අනාගතයේදී සාර්වභූත ප්‍රතිඵල අත්කරගැනීමට වාසිදායක තව ව්‍යාපාර අරමුණුන්ට නාවිමියා ආයතනයන්ට, පළාත් ව්‍යාපාර හා වෙළඳ පොළ පුළුල් කිරීමට ගැනීමට 'ඇගෙන්ට්' මගින් උපදෙස් සැලසෙයි. කෘෂි භාණ්ඩ නිෂ්පාදනය, සැකසුම, සෙසු නැවීම, අලෙවි කිරීම, මුද්‍රණය, පුහුණු කිරීම, හා නවුල් ව්‍යාපාර සංවර්ධනය ආදී සෑම අංශයක්ම ඇතුළත් වන අයුරින් උපදෙස් හා ආධාර වැසක් ඉදිරිපත් කිරීමට 'ඇගෙන්ට්' උපදෙස් සේවයට නැතිකළ හැක.

'ඇගෙන්ට්' ආධාර අපේක්ෂා කරන, අපේක්ෂකයන් සතු වූ සම්පත් කැපකිරීම/වෙළඳවීම ඇතුළුව අනෙකුත් සුදුසුකම් මත එම උපදෙස් හා ආධාර සඳහා පෝරා ගැනෙනු ඇත.

'ඇගෙන්ට්' උපදෙස් හා ආධාර වැසකි.

* ව්‍යාපාර හා අලෙවිකරණය සැලසුම් කිරීම _____

ව්‍යාපාර සංවර්ධනය අලෙවිකරණය සැලසුම් කිරීම පිළිබඳ උපදෙස් 'ඇගෙන්ට්' මගින්.



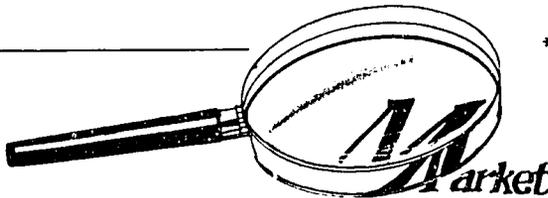
* භාණ්ඩයන්හි තත්වය වර්ධනය කිරීම සහ වෙළඳපොළ නිරීක්ෂණය කිරීම _____



භාණ්ඩයන්හි තත්වය වර්ධනය කිරීම, අලෙවි කිරීම, සැලසුම් කිරීම හා අත්හදා බැලීම පදනමක් මත නැව් බඩු අපනයනය කිරීමට 'ඇගෙන්ට්' ඉදිරිපත් වී සිටී.

* තත්වයෙන් වඩා උසස්වූ නිෂ්පාදන වට්ටෝරු සහ සැකසීමේ තාක්ෂණයන් _____

'ඇගෙන්ට්' මගින්, නිෂ්පාදකයින්ට පමණක් නිෂ්පාදන වට්ටෝරුවල තත්වය උසස් කිරීමට, තව වට්ටෝරු සකස් කිරීමට ගැනීමට හෝ නවීන සකස් කිරීමේ තාක්ෂණයන් හඳුන්වා දීමට පියවර ගනු ඇත.



* වෙළඳ පොළ අධීක්ෂණය _____

අමතර හඳුන්වාදෙන නිෂ්පාදන සඳහා, එපමණ වෙළඳ පොළ අධීක්ෂණය කොට එම නිෂ්පාදන සඳහා ඇති ඉල්ලුම හෝ ඒ සමාන කරුණු පිළිබඳව නිෂ්පාදකයින් දැනුවත් කිරීමට 'ඇගෙන්ට්' හි අරමුණ අතර වේ.

* නව වෙළඳ පොළවල හා පාරිභෝගිකයින් කෝරා ගැනීම _____

නිෂ්පාදන සඳහා එපමණ වෙළඳ පොළවල සහ පාරිභෝගිකයින් පෝරා ගැනීම හා අදාළ නිෂ්පාදන එම වෙළඳ පොළවල සඳහා ඉදිරිපත් කිරීම, ප්‍රවේශ කිරීම හා අලෙවි උපක්‍රම පිළිබඳව නිෂ්පාදකයින්ට අවබෝධයක් ලබා දීමට 'ඇගෙන්ට්' හි සේවා අතරින් එකකි.

