









OPPORTUNITIES IN THE NEW ZEALAND BLUEBERRY INDUSTRY

Part of Emerging Growth Opportunities, Food and Beverage Information Project

DRAFT FINAL REPORT

JUNE 2020

1.00

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GENERAL

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STEERING & GUIDANCE

This project would not have been possible without the strong guidance of our Steering Committee. In particular, we would like to thank Andrew McCallum of MBIE for his tireless energy in keeping this project on track, while at the same time pushing us forward.

Draft versions of this report, including the firm profiles, were distributed to those firms for comment, addition or correction. This was done in the form of emails and phone calls. We thank those that helped us in this process for their time and effort. We also thank those that provided them for their photos.

We are grateful for all of the input we have received, but the report is ours and any errors

are our own.

Finally, we acknowledge the support of the Ministry of Business, Innovation and Employment (MBIE), New Zealand Trade and Enterprise (NZTE) and the Ministry for Primary Industries (MPI). It is their funding that has made this report possible.

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All cross-country international trade data analysed in this report is calculated and displayed in US\$. This is done for a range of reasons:

- It is the currency most used in international trade
- It allows for cross country comparisons (e.g. vs. Denmark)
- It removes the impact of NZD exchange rate variability
- It is more comprehensible to non-NZ audiences (e.g. foreign investors)
- It is the currency in which the United Nations collects and tabulates global trade data

KEY CONTACTS FOR THIS REPORT

Virginia Wilkinson is a Director at Coriolis. Virginia is Coriolis' resident expert on consumer insights and market research. She has over fifteen years of experience in primary sector and food and fast moving consumer goods research. Virginia regularly conducts both primary and secondary research on food, fast moving consumer goods, retailing and foodservice across Australasia. You may contact her by e-mail on:

vwilkinson@coriolisresearch.com

Tim Morris is a Director at Coriolis and is recognised as a leading expert and advisor to CEOs and stakeholders in strategy in food, fast moving consumer goods and retailing. Tim is a recognised expert globally in retailing, particularly in private label, with his work being quoted in numerous publications and college textbooks. He is head of Coriolis' retail and consumer goods practice. You may contact him by email on: tmorris@coriolisresearch.com

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EXECUTIVE SUMMARY 01

This report "Opportunities in the New Zealand Blueberry Industry," was commissioned by MBIE as part of the Food and Beverage Information Project.
Blueberries were identified as a growth sector in the related "Emerging Growth Opportunities" report. Blueberries emerged as a high growth sector for New Zealand that has grown on the back of growing global demand for this small, healthy fruit.

WHAT ARE BLUEBERRIES?

Blueberries, along with kiwifruit and avocados, are one of the few major fruit domesticated in the 20th Century.

Vacinnium is the family of all "blueberries" and includes more than 450 plants in the wider family, including Blueberries, Bilberries, Cranberries, and Lingonberries.

"Blueberries" are native to North America and were collected from the wild there by residents for centuries. The blueberry was domesticated in New Jersey by farmer Elizabeth White and USDA botanist Frederick Coville between "around 1900" and 1916. From there the domesticated blueberry has spread across North and South America, Europe, Australia and New Zealand.

Additional varieties, bred from "lowbush" and "rabbiteye" varieties, have been developed that tolerate more varied climates.

BLUEBERRIES IN NEW ZEALAND

The NZ Department of Agriculture introduced blueberries to New Zealand from the US in 1950 to provide a suitable crop on the acid peatlands of Waikato. This area remains the centre of blueberry production today. In the 1970s improved varieties were imported from the United States. Since then, further introductions have occurred and New Zealand's capable fruit breeders – at Plant & Food Research and elsewhere – have developed further improved varieties with superior characteristics.

At the same time, global demand for blueberries is growing driven by clear research on their great taste, their health giving properties and their status as one of a handful of "superfruit" know to consumers.

As a result, New Zealand today has a large and vibrant blueberry industry with 640 hectares of fruit (and growing) creating \$62m in total industry revenue, including \$39m in exports.

The Bay of Plenty, Hawke's Bay and Waikato are today the primary growing regions, with firm growth and investment in Northland and the South Island.

This research seeks to support the continued growth of this exciting and vibrant industry.

POTENTIAL INVESTMENT THEMES

Four broad investment themes exist for driving export growth in the New Zealand blueberry industry.

- 1. First, there are opportunities to grow blueberry production.
- 2. Second, the supply chain can be improved to increase efficiency.
- 3. Third, the marketing of New Zealand blueberries can be improved.

EXECUTIVE SUMMARY 02

4. Finally, there are opportunities to create value-added products. Blueberries are an extensible platform.

NEW ZEALAND SITUATION

New Zealand blueberry production is a function of area and yield. The amount of area in blueberries in New Zealand has shown solid area growth since the late 90's while at the same time yields have been relatively stable for the past decade at around 4-5 t/ha. As a result, New Zealand blueberry production has been growing since 1997.

At the same time, the number of commercial growers has been declining over the past decade, as the industry consolidates into fewer, larger units. Growing production across declining grower numbers has led to strong increases in average tonnes produced per grower.

KEY MARKETS

Following harvest, blueberries travel to the consumer through various channels (fresh,

frozen or further processed). The total New Zealand blueberry industry, including frozen imports, has an estimated revenue of NZ\$70-80m. The New Zealand blueberry industry needs different strategic priorities for each key market segment.

DOMESTIC MARKET

First, there are continued opportunities for growth in the New Zealand domestic market. Domestic fresh demand appears relatively stable (~1,600t) and exports are absorbing production growth. New Zealanders are consuming more blueberries, but demand growth is coming from imported frozen fruit. With relatively flat domestic demand for fresh blueberries, New Zealand needs to look to exports for growth.

EXPORT MARKETS

Second, there are continued opportunities for growth in export markets. New Zealand blueberry export volumes are highly seasonal. Export seasonality has shifted away from predominantly Dec/Jan to predominantly Feb/Mar. New Zealand's

market share varies significantly by market; it is high in Oceania, reasonable in parts of South East Asia (SEA) and low elsewhere. New Zealand is currently big in small markets and small in big markets.

AUSTRALIA

There are continued opportunities for growth in the Australian market. New Zealand blueberry exports have shown strong growth over the past two decades driven by demand from Australia. New Zealand is effectively the only blueberry supplier currently able to penetrate Australian biosecurity.

New Zealand blueberry exports supply the Australian market counter-seasonally to New South Wales (NSW), but at a similar time to other states. NSW (74%) is the largest blueberry producing region in Australasia, followed by New Zealand (15%).

Australian imports of New Zealand blueberries are growing faster (23%) than domestic Australian production (14%).

EXECUTIVE SUMMARY 03

EAST & SE ASIA

There are opportunities for growth in select East and South East Asian markets. New Zealand's blueberry exports are currently modest beyond Australia and now predominantly go to East/South East Asia.

In many export markets, New Zealand's blueberry exports appear to go through a "boom-and-bust" cycle. In "in-and-out" markets, key competitors such as Chile, Peru and Mexico have achieved growth, while New Zealand has not. The challenge in "in-and-out" markets is the high current landed price of New Zealand blueberries (+50%). Three markets – Thailand, Vietnam and Taiwan – stand out for creating solid growth to date. However, even in these growth markets, New Zealand is under pressure from low cost suppliers.

COMPETITIVE SITUATION

Global situation: the global market for blueberry imports is dominated by North America and Europe, with China as a major growth region. Global blueberry exports are growing (20y CAGR 18%), driven in particular by Chile and Peru.

Peru – a country that has grown rapidly over the past decade to become the largest blueberry exporter in the world – has clear lessons for New Zealand. Six major factors are driving Peru's strong growth in blueberries (massive irrigation projects, large firms, efficient post harvest, best global genetics, latest planting systems and high yields).

Chile is another growing producer and exporter that has put pressure on New Zealand in many Asian blueberry markets.

FIRM ACTIVITY

As the industry develops firms are integrating across and between the supply chain. Firms are investing in the growth of new farming systems, area and genetics. Large firms like T&G are developing blueberries as a strategic category.

POSITIVE FUTURE

Blueberries are still a young industry, both globally and in New Zealand. To date, New Zealand has achieved success primarily in the domestic market and in Australia, both markets insulated from global pressures by biosecurity. Going forward, the New Zealand blueberry industry needs to transition from this "Walled Garden" into the fast growing, but more competitive markets of East and South East Asia if growth is to continue.

The proven success of New Zealand apples and kiwifruit in highly competitive global markets shows what is possible. New Zealand growers have the skills and resources required to make the required transition and continue to grow.

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Why did the New Zealand government undertake the Food and Beverage Information Project?

WHAT IS THE PURPOSE OF THE FOOD AND BEVERAGE INFORMATION PROJECT?

The project pulls together the available information on the food and beverage industry into one place, in a form which is familiar and useful to business. The reports contain analysis and interpretation of trends and opportunities to materially assist with business strategy and government policy.

The information will be of vital use to businesses, investors, government, and research institutions as the industry expands and diversifies. This industry view will be very useful to government, enabling better dialogue and the opportunity to address issues collectively.

WHAT BENEFIT WILL THIS BRING TO BUSINESSES?

The Project will have many uses for businesses. These include:

- As a base of market intelligence to enable business to be much more targeted in their own market research
- Reviewing and informing offshore market development (including export and investment) strategies
- Assisting in identifying areas of innovation and R&D for the future
- Identifying strategic partners and collaborators

- Enabling a company to benchmark performance with that of its competitors
- Monitoring industry activity
- Gaining a better understanding of their own industry sector
- ldentifying internal capability needs or external inputs

HOW WILL GOVERNMENT USE THE REPORTS?

This information will provide much greater insight into the industry, which is useful for a range of policy developments, from regulatory frameworks to investment in science and skills and facilitating access to international markets. In particular, a single source of factual information will enable government agencies to better coordinate their efforts across the system and be more responsive to addressing industry issues. The government can now understand what's what, and also, who's who.

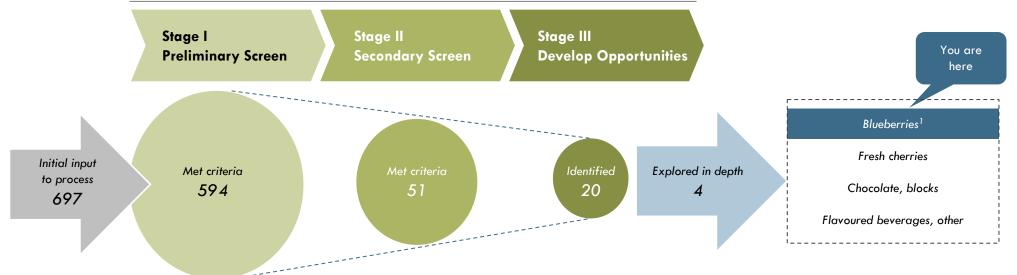
The Emerging Growth Opportunities (EGO) research is part of the wider New Zealand Food and Beverage Information Project



Blueberries emerged in a multi-stage screen designed to identify high potential food and beverage export opportunities



See related document for details available at https://www.mbie.govt.nz/business-and-employment/economic-development/growing-the-food-and-beverage-sector/food-and-beverage-information-project/food-and-beverage-emerging-market-and-in-depth-reports/



Globally, blueberries consumption is increasing

"New Zealander's growing love for blueberries is seeing rapid expansion in the industry. A record seven million punnets of fresh locally-grown blueberries were consumed last season and that's expected to be topped this summer as the main season gets underway. Latest supermarket sales data shows Kiwis bought an extra one million punnets of blueberries (18.3 percent more) last summer compared to the year before, with total sales now exceeding \$25 million."

Newshub.

"Consumer demand for blueberries has skyrocketed.
According to USDA research, per capita, blueberry consumption in the United States grew more than 600 percent in the past 20 years. Blueberries have become a staple for many. In fact, they're the top berry among American consumers. A staggering 75 percent of consumers are likely to purchase blueberries in the next 12 months, a 10 percent increase from 2013."

"New Zealanders are now more aware of the extraordinary health benefits so they're choosing to eat blueberries in greater quantities than ever before."

"We're thrilled that a growing number of New Zealanders are recognising the health benefits and incorporating fresh blueberries into their diets," Dan [Peach, BBNZ Chair] says. "They're an easy way to improve your mood and the bottom line is they taste delicious."

RURAL NEWS

"Blueberries continue to grow in popularity. Since May last year, over £400m worth of British blueberries were sold in the UK with shoppers spending 10.5 percent more on the health-boosting berry than in the previous year. In total, 41,000 tonnes of blueberries were sold in the 52 weeks (the equivalent weight of 6,500 elephants), an increase of 10 per cent compared to the 52 weeks up to 14th July 2018."





Increased consumption is driven by science

"The effect of flavonoid-rich food, such as blueberries, on cognitive function has been subject to a growing amount of research interest in recent years.

Epidemiological, prospective, preclinical, and clinical trials have revealed positive cognitive benefits from flavonoid interventions, particularly in relation to the amelioration of cognitive decline in older adults".

OXFORD

"The blueberry, already labeled a 'super fruit' for its power to potentially lower the risk of heart disease and cancer, also could be another weapon in the war against Alzheimer's disease. New research being presented today further bolsters this idea, which is being tested by many teams. The fruit is loaded with healthful antioxidants, and these substances could help prevent the devastating effects of this increasingly common form of dementia, scientists report."

"Blueberries are rich in polyphenols that may be beneficial to cognitive performance and mood... Eight studies reported blueberry consumption or supplementation... to improve measures of cognitive performance, particularly short- and long-term memory and spatial memory...Based on the current evidence, blueberries may improve some measures of cognitive performance."



"Awareness of the human health benefits of blueberries is underpinned by a growing body of positive scientific evidence...Blueberries contain a large number of phytochemicals, including abundant anthocyanin pigments... Epidemiological studies associate regular, moderate intake of blueberries and/or anthocyanins with reduced risk of cardiovascular disease, death, and type 2 diabetes, and with improved weight maintenance and neuroprotection."





New Zealand's success in blueberries has three key drivers



IDEAL CLIMATE & SOILS

Low production cost

- Temperate climate similar to Washington, Oregon, Italy and France
- Temperature extremes moderated by surrounding ocean
- Isolated location protected by natural barriers
- Further land potentially available for expansion



EFFICIENT PEOPLE & SYSTEMS

Trusted by consumers

- Long history of fruit growing and breeding
- Industry is focused on export markets
- Pool of skilled orchard operators and managers
- Strong systems and support networks
- Advanced capabilities in packhouse systems



LOCATION & MARKETS

High share in key products

- Free trade agreement with Australia (CER*)
- Close proximity to Australia and Asia
- Excellent market access across Asia
- NZ was the first developed country to sign a free trade deal with China (2008)
- Seasonal window into Australia (when NSW is not producing)

^{*} Closer Economic Relationship; Source: photo credit (purchased or creative commons (Dollar Photo Club; freenzphotos.com), Compac)

New Zealand has a strong position in Australia, but this cannot be taken for granted and success elsewhere is challenging

STRENGTHS	WEAKNESSES
 New Zealand track record of success in new fruit development (e.g. kiwifruit) and in breeding of new cultivars (e.g. Zespri Gold) 	 Lack of large supply of "guest workers" like some countries; seasonal labour shortages, accommodation shortages
 Strong plant science capabilities at Plant & Food Research and elsewhere Counter seasonal to Northern Hemisphere in a narrow climatic window only shared by four competitors (Chile, Argentina, South Africa and Australia) Proximity to bio-secure Australia and fast growing Asian markets Strong biosecurity; free from many diseases and pests Good phyto-agreements with key markets Unsubsidised industry competing successfully in world markets Industry consolidating into fewer, larger operations at scale Transition to integrated grower/packer/shipper model underway 	 Limited and expensive air freight availability Australian market access challenging for organics due to strict phytosanitary requirements Too much area still in low yield varieties and older planting systems (low average yields) Higher cost structure than others in seasonal window (e.g. Chile) Lack of compelling New Zealand IP-Controlled blueberry varieties differentiated to the consumer (where is the NZ blueberry version of Enza Jazz or Zespri Sungold?) Limited access to new plant varieties, quarantine lengthy and expensive, limited space Many smaller orchards and farms; benchmarking suggests fewer, larger farms preferable New cultivar development funding model needs improvement, lack of support by growers
- Supportive industry structure	 Legal structure of kiwifruit exporting impacts scale of other NZ fruit exporters beyond Zespri, compared with Australia, Chile or Peru
OPPORTUNITIES	ISSUES/THREATS/RISKS
- Continued strong biosecurity in Australia	- Growing production of blueberries in Peru and Chile; improving quality, strong marketing

Potential Investment Themes

- Growing production
- Supply chain efficiencies
- Improved marketing
- Value-added products



Four broad investment themes exist for driving export growth in the New Zealand blueberry industry

I. GROWING PRODUCTION	II. SUPPLY CHAIN EFFICIENCIES	III. IMPROVED MARKETING	IV. VALUE-ADDED PRODUCTS
Increase production to meet market demand	Drive down packing & logistics costs	Engage more effectively with the consumer	Add value to waste streams where it makes sense
More land	Longer shelf life	Consistent messaging	Select super-premium foods and beverages
Higher yields & new varieties	Reduced packing costs	Embracing "Superfood"	Select extracts, natural health products & nutraceuticals
Increased under-cover	More efficient logistics	Driving Organic	

Significant opportunities exist for industry to work together across these themes to share learnings and ideas, benchmark performance and co-ordinate activity, in particular in export focused regions

First, there are opportunities to grow blueberry production

I. GROWING PRODUCTION

II. SUPPLY CHAIN

II. IMPROVED MARKFTING IV. VALUE-ADDED
PRODUCTS

Situation creating opportunity	Potential investment theme	What you would need to believe
 New Zealand is a large country, similar in size to Japan, Italy or the United Kingdom, with a climate suited to temperate fruit Currently only 640ha (0.003% of area) is planted in blueberries Many peer group regions have more blueberry area: Georgia 7,416ha, Washington State 5,173ha, Oregon 4,955ha, Spain 3,722ha and France 2,393ha 	More land	 Additional land suitable for blueberries is available Land and orchard establishment costs will deliver a competitive economic return Export market demand exists to absorb more New Zealand blueberries Increase in domestic demand to absorb non-export fruit
 Realised, real-world blueberry yields vary for a wide range of reasons, including genetics, management and systems Yields vary across countries, regions and farmers While NZ achieves acceptable yields, competing regions achieve as good or better yields The average NZ blueberry grower achieved 3.8-4.8t/ha Mature blueberry plantings in Peru achieve 15t/ha Access to new varieties is limited, the quarantine process is lengthy and expensive (limited space, strict controls) 	Higher yields & new varieties	 Yield is not a simple trade-off with quality Orchard management skills for improving systems can be taught Higher yielding blueberry genetics exist in NZ or can be brought into the country through biosecurity barriers New variety able to be breed for superior quality and large size
 Trend towards increased tunnel house/covered production of berries Undercover opportunity to extend seasons, reduce fruit damage, increase quality, reduce bird losses 	Increased under-cover	 Orchard management, pest and disease management skills can be achieved Capital available for increased investment R&D and innovation available to succeed with new system

Second, the supply chain can be improved to increase efficiency

I. GROWING PRODUCTION

II. SUPPLY CHAIN EFFICIENCIES

II. IMPROVED
MARKETING

/. VALUE-ADDED PRODUCTS

Situation creating opportunity	Potential investment theme	What you would need to believe
 Blueberries have a short shelf life relative to some other fruit, for example more than raspberries but much less than apples NZ blueberries are mostly sold in NZ and Australia Refrigerated blueberries with controlled atmosphere (CO² & Nitrogen) and a well-managed cool chain can last a month+ Unlike other New Zealand fruit (e.g. kiwifruit, apples), blueberries 	Longer shelf life	 Airfreight is a significant part of the landed cost of New Zealand blueberries in Asian markets Controlled atmosphere (CA) shipping can work for NZ blueberries CA does not impact quality significantly Post harvest management and systems impact shelf life Plant genetics can influence shelf life; new breeds could be
are primarily air-freighted to Asia at a high cost		developed with longer shelf life?
- Three major variable costs have the greatest effect on the total		- Unit packaging costs are cheaper for larger orders/at scale
cost of packing blueberries: labour, electricity and packaging Packaging directly impacts both total shipping weight and fruit to packaging ratios, both of which are critical	Reduced packing costs	 Packaging is not purely a trade-off between rigidity/strength ar weight; it is possible to be lighter and stronger Larger packhouses have lower costs per unit than smaller business Further industry consolidation would improve relative scale economics and competitiveness Key firms in key regions would be willing to merge
New Zealand has a large number of blueberry packhouses relative to crop size New Zealand blueberry packhouses achieve a low annual throughput relative to leading global competitors		
 Total freight and logistics costs are a significant part of the final price of blueberries Airfreight is significantly more expensive than seafreight NZ fruit are mostly airfreighted to key markets beyond Australia Key S.H. competitors Peru and Chile, primarily use sea 	More efficient logistics	 Opportunities exist to improve speed and increase industry coordination to reduce net freight cost per kilogram Opportunities exist to increase the efficiency of logistics in local trucking (e.g. full trucks, return loads) For exports, Chile works with shipping lines to (1) reduce shipping times by 5 days (to 22-25 days), (2) have last minute loading and
		(3) get priority unloading on arrival in Asia; this could work for NZ

Third, the marketing of New Zealand blueberries can be improved

I. GROWING Production II. SUPPLY CHAIN

III. IMPROVED MARKETING

/. VALUE-ADDED PRODUCTS

Situation creating opportunity	Potential investment theme	What you would need to believe
 NZ blueberries represent "a drop in the ocean" of total Asian fruit consumption; in this environment, achieving "cut through" and getting the attention of the consumer is very difficult In Asia, key competitors Chile and Peru have significantly larger market share and in-market presence or "shelf weight" Current messaging in key markets on NZ blueberries is fragmented with multiple messages 	Consistent messaging	 A coordinated "Why New Zealand blueberries?" story with shared talking points would increase prices and sales It is possible to get all key stakeholders to agree to implement a shared message Shared messaging could be linked to regional tourism Shared messaging could be tied into traceability systems
Blueberries can learn from other sectors who show a common industry story, brand, quality mark or slogan		
 Part of the growing demand for blueberries is driven by its status as a superfood Superfoods are nutritionally dense foods that are widely recognised as good for health The concept of superfoods has both strong and growing scientific support and growing consumer demand While there is no "official list", blueberries are effectively on every superfood list everywhere Domestic NZ consumption of blueberries is growing, but most consumption growth is coming from frozen imports 	Embracing "Superfood"	 Opportunities exist to better tie NZ blueberries to their status as a superfood On-going research into developing functional attributes and compounds in new varieties Opportunities exist to emphasise that fresh NZ blueberries are better in some way than frozen imported blueberries
 NZ reputation for clean green suits organic blueberries Current Australian phytosanitary regulations are severe such that organic exported as conventional, in case of fumigation on arrival Growing demand for organic blueberries (Countdown and Foodstuffs established organic home brand in FY19) 	Driving Organic	 Consumer demand for organic blueberries has potential for further growth in domestic and export markets Organic blueberries achieve a premium in the market New Zealand can produce organic berries at competitive prices Review of phytosanitary regulations allows for organic blueberry exports to Australia

Finally, there are opportunities to create value-added products

I. GROWING Production II. SUPPLY CHAIN

II. IMPROVED
MARKETING

IV. VALUE-ADDED PRODUCTS

Situation creating opportunity

- There is strong demand across all key Asian markets for New Zealand premium and super-premium foods and beverages
- Premium/super-premium foods and beverages are often given as gifts (e.g. French Cognac)
- Gift shops, souvenir shops, and duty-free shops are major outlets for super-premium foods and beverages

Potential investment theme

Select super-premium foods and beverages

What you would need to believe...

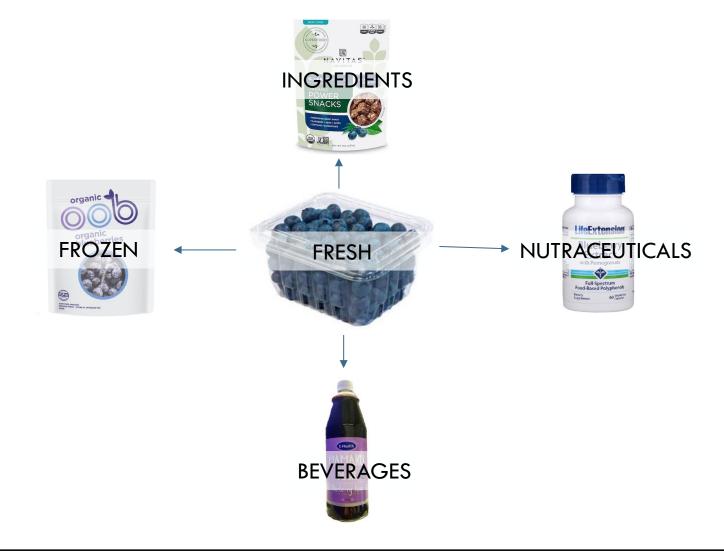
- Select foods and beverages that use blueberries as an ingredient (e.g. liqueurs, liqueur-filled chocolates, powdered and freeze dried blueberries) can be made from NZ processing grade/export-reject fruit
- Products could be differentiated such that they could demand a premium
- NZ firms have the marketing skills to deliver on super-premium items

- Often in highly competitive food sectors, successful firms are those that best monetise their waste streams
- There is growing demand for natural health products and supplements, both in the Western world and East Asia
- Most nutraceuticals are, in practice, value added to existing waste streams (e.g. calcium, green tea)
- New Zealand has proven capabilities in nutraceutical science R&D, product development and production (e.g. manuka honey, green lipped mussel extract)
- There is a growing body of research linking blueberries to various positive health benefits
- The NZ blueberry industry generates a wide range of waste streams, including skins, pits, bark and leaves)

Select extracts, natural health products & nutraceuticals

- It is possible to extract and market New Zealand blueberry extracts as nutraceuticals
- Research supports that NZ blueberries are higher in health giving benefits than some other sources
- New Zealand blueberry extracts can compete in a global market
- New Zealand blueberry extracts can create a point of difference such that they can command higher prices than competitors

Blueberries are an extensible platform



New Zealand

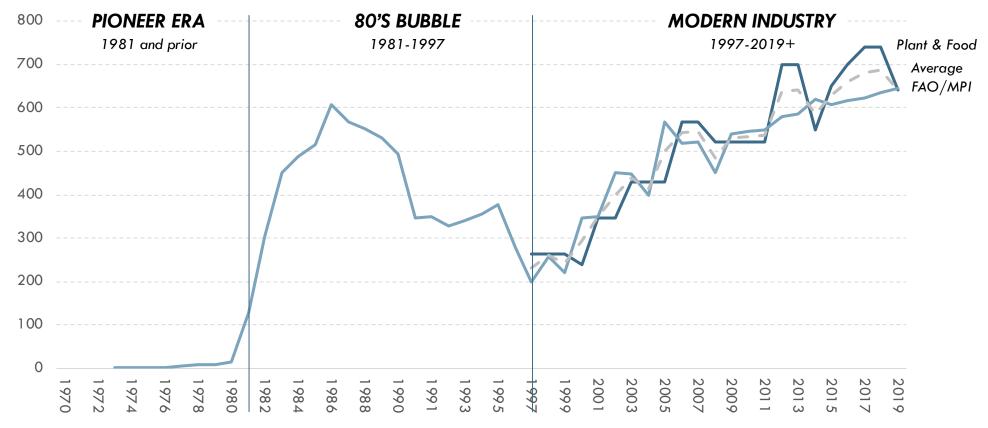
- Area
- Yield
- Production

02

The amount of area in blueberries in New Zealand has shown solid area growth since the late 90's

AREA IN BLUEBERRIES IN NEW ZEALAND

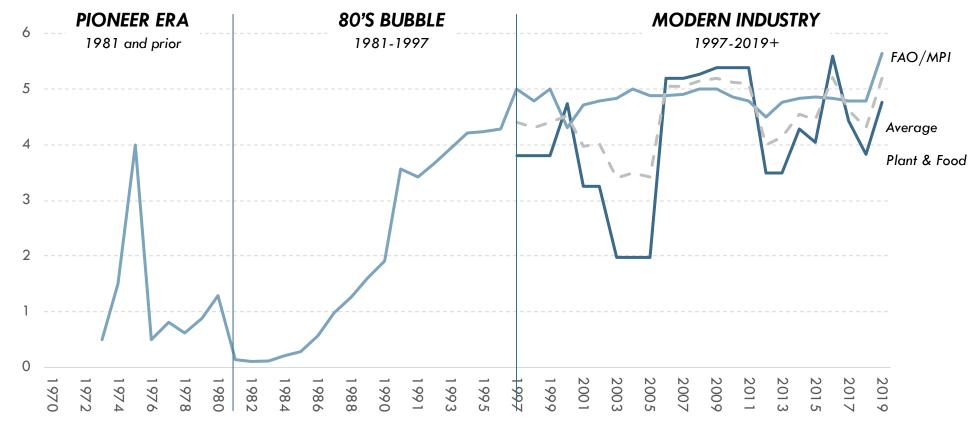
Hectares; 1973-2019



New Zealand blueberry yields have been relatively stable for the past decade at around 4-5 t/ha

AVERAGE BLUEBERRY YIELD PER HECTARE IN NEW ZEALAND

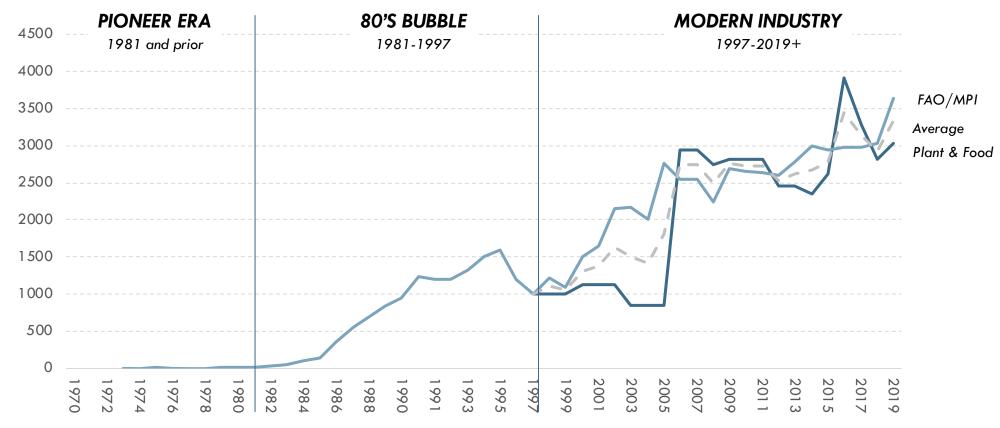
Tonnes/hectares; 1973-2019



New Zealand blueberry production has been growing since 1997 driven by growing yields and growing area

NEW ZEALAND BLUEBERRY PRODUCTION IN NEW ZEALAND

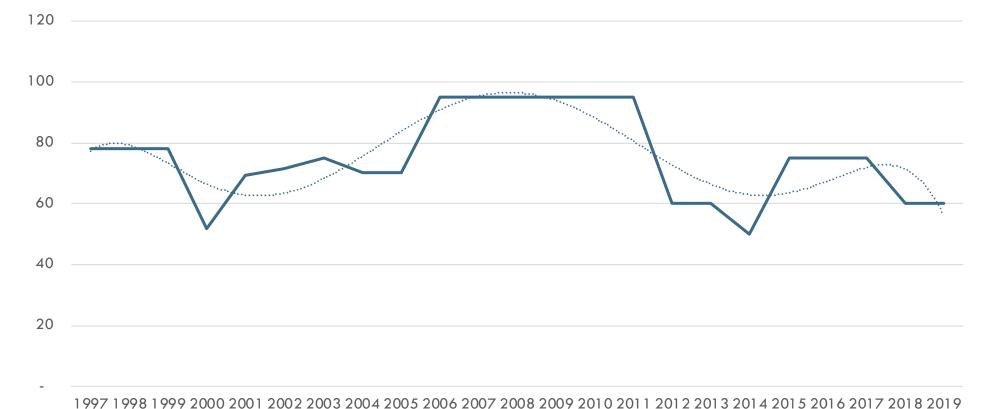
Tonnes; 1973-2019



The number of commercial growers appears to be declining over the past decade as the industry consolidates into fewer, larger units

NUMBER OF BLUEBERRY GROWERS

Operational units; 1997-2019



Growing production across declining grower numbers has led to strong increases in average tonnes produced per grower

AVERAGE TONNES PER BLUEBERRY GROWER

Tonnes/grower; 1997-2019



1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019

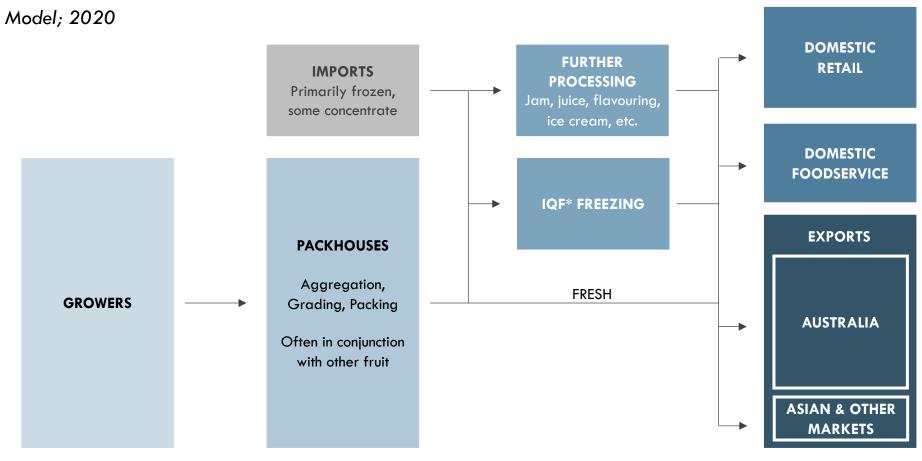
Key Markets

- Market strategy
- Growth
- Market mix
- Market share
- Opportunities

03

Following harvest, blueberries travel to the consumer through various channels

NEW ZEALAND BLUEBERRY SUPPLY CHAIN



The total New Zealand blueberry industry, including frozen imports, has an estimated revenue of NZ\$70-80m

NEW ZEALAND BLUEBERRY MARKET SIZE AND STRUCTURE

Tonnes; NZ\$m; 2019

PRODUCTION NZ\$60-65m / 3,640t (19e)

FROZEN IQF

2,367t (19) \$10.9m DOMESTIC PROCESSING²

300-400t (19e) 8-10%³ FRESH
DOMESTIC SUPPLY

\$20-25m 1,600-1,700t (19e) 40-50% FRESH EXPORTS NZ\$40.2m / 1,637t (19) / 40-50%

AUSTRALIA \$35.8m/1,470t (19) OTHER 24 COUNTRIES \$4.4m/167t (19)

~6,000t NZ\$70-80m total value

Includes estimates

The New Zealand blueberry industry needs different strategic priorities for each key market segment



Supermarkets

NEW ZEALAND DOMESTIC MARKET

Position as premium Expand usage

- Increase per capita consumption
- Suggest more usage occasions
- Embrace healthy, superfood status
- Sell the breakfast smoothie
- Leverage shift to plant-based diets
- Maintain domestic biosecurity





AUSTRALIAN MARKET

Position as premium Expand usage

- Suggest usage occasions
- Work with NSW growers to increase per capita consumption
- Work to improve efficiency of Australian border biosecurity processes
- Ensure Australia maintains high biosecurity requirements



EAST & SE ASIAN MARKETS

Fix underperformance Gain market share

- Ensure best leverage of FTAs**
- Develop awareness
- Suggest usage occasions
- Improve access
- Grow per capita consumption of imported blueberries in seasonal window
- Position NZ as luxury/super-premium

First, there are continued opportunities for growth in the New Zealand domestic market



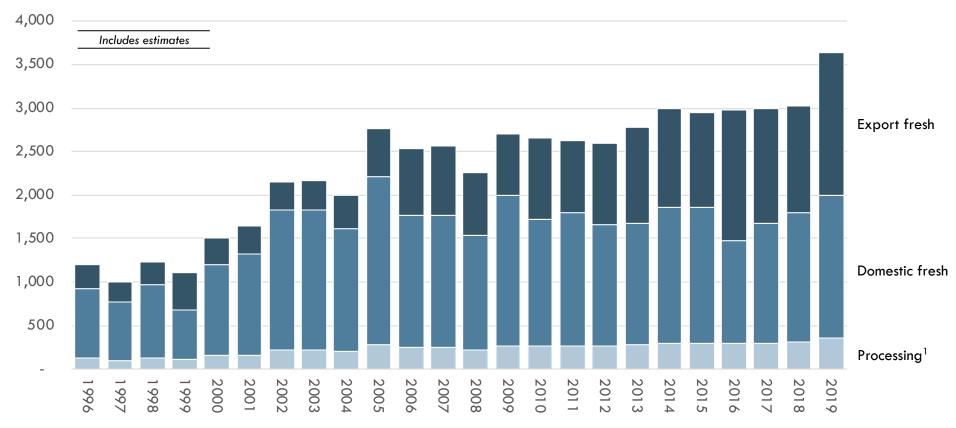




Domestic fresh demand appears relatively stable (~1,600t) and exports are absorbing production growth

NEW ZEALAND BLUEBERRY CROP DISPOSITION

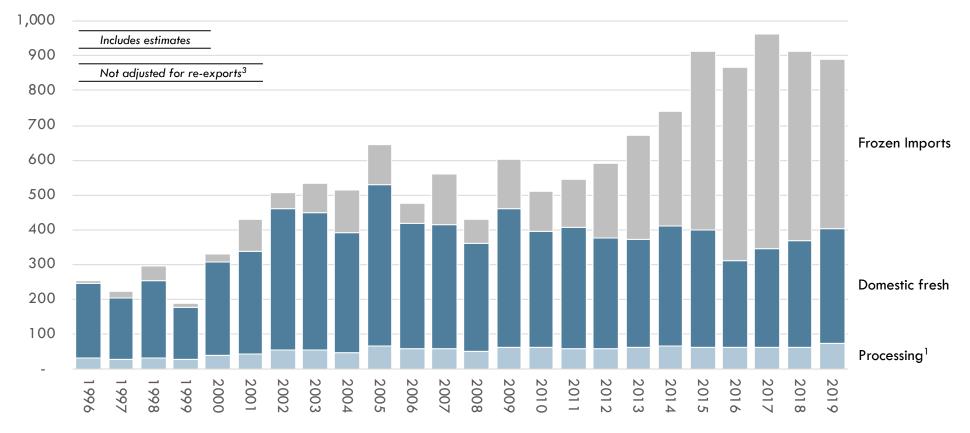
Model; tonnes; 1996-2019



New Zealanders are consuming more blueberries, but demand growth is coming from imported frozen fruit

APPARENT PER CAPITA CONSUMPTION OF BLUEBERRIES IN NEW ZEALAND²

Grams per person; 1996-2019



With relatively flat domestic demand for fresh blueberries, New Zealand needs to look to exports for growth

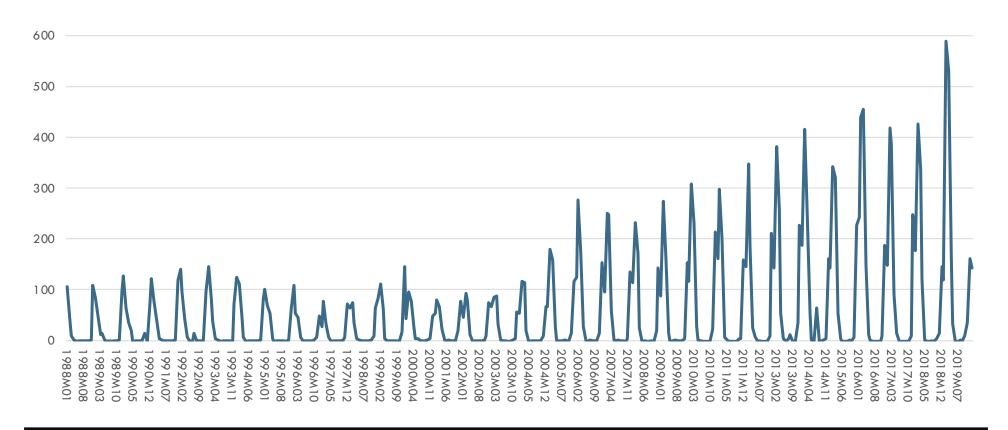


EXPORT MARKETS

New Zealand blueberry export volumes are highly seasonal

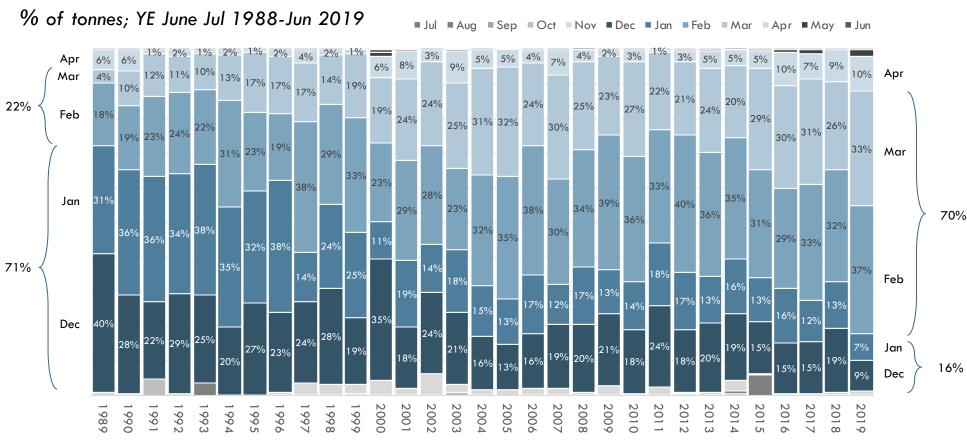
NEW ZEALAND BLUEBERRY EXPORT VOLUME BY MONTH

Tonnes; Jan 1988-Jan 2020



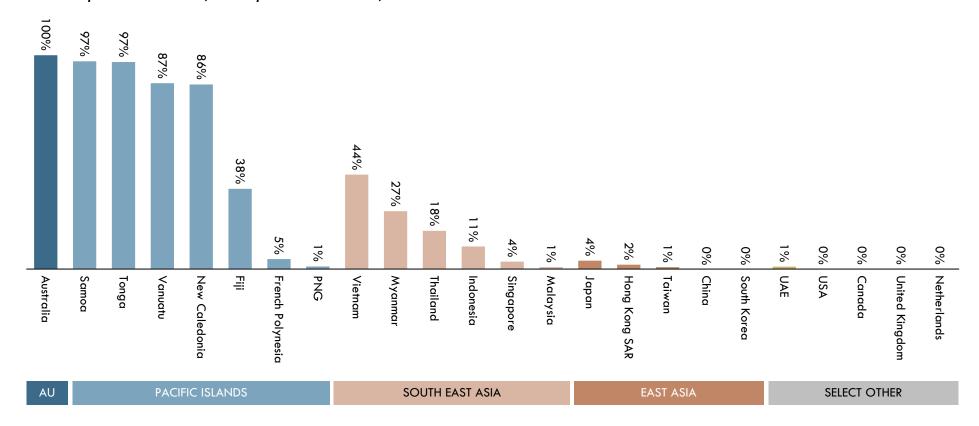
Export seasonality has shifted away from predominantly Dec/Jan to predominantly Feb/Mar

SHARE OF NEW ZEALAND BLUEBERRY EXPORT VOLUME BY MONTH BY YEAR

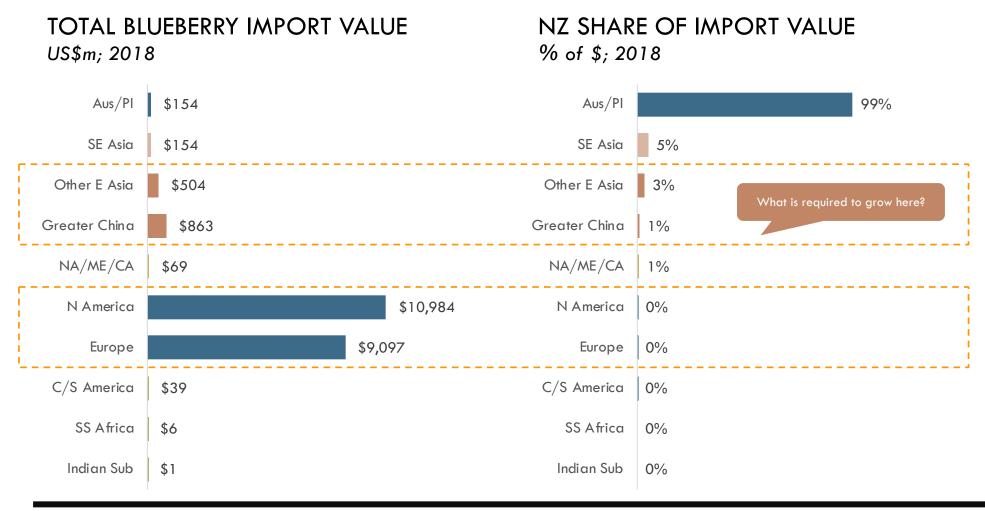


New Zealand's market share varies significantly by market; it is high in Oceania, reasonable in parts of SE Asia and low elsewhere

NEW ZEALAND SHARE OF SELECT COUNTRIES TOTAL BLUEBERRY IMPORTS BY VALUE % of import value CIF; as reported receiver; 2018



New Zealand is currently big in small markets and small in big markets



There are continued opportunities for growth in Australian market

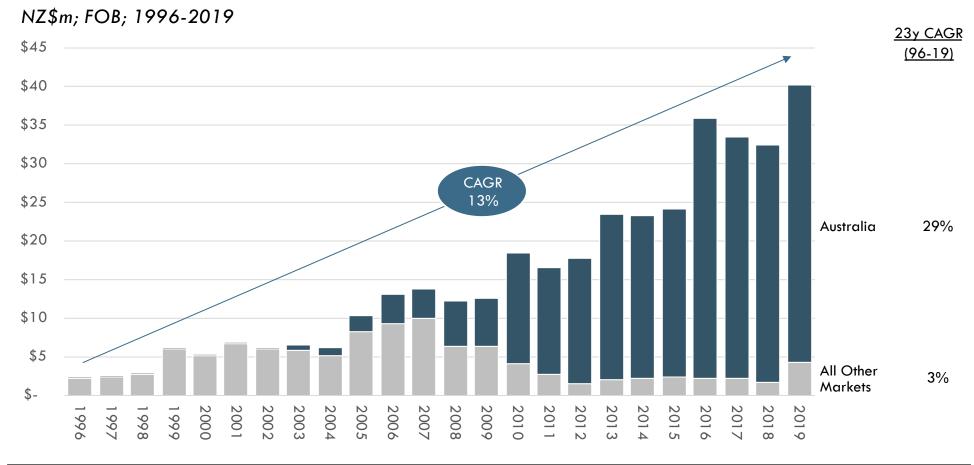






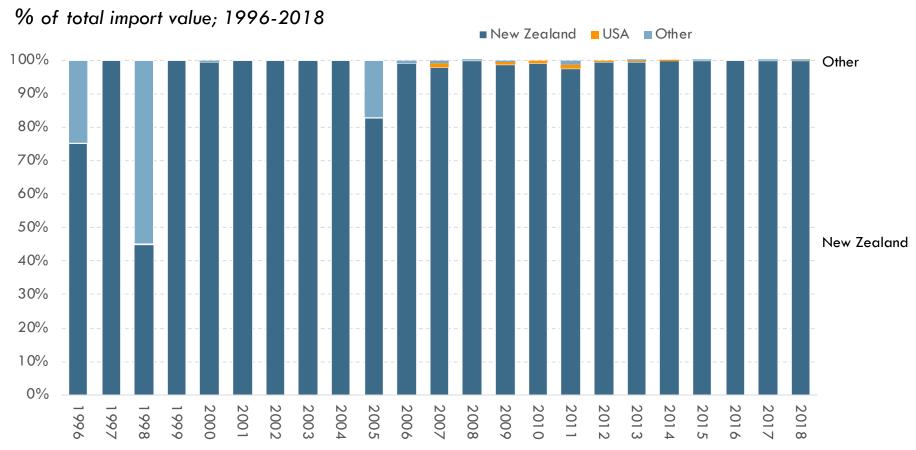
New Zealand blueberry exports have shown strong growth over the past two decades driven by demand from Australia

NEW ZEALAND BLUEBERRY EXPORT VALUE BY DESTINATION



New Zealand is effectively the only blueberry supplier currently able to penetrate Australian biosecurity

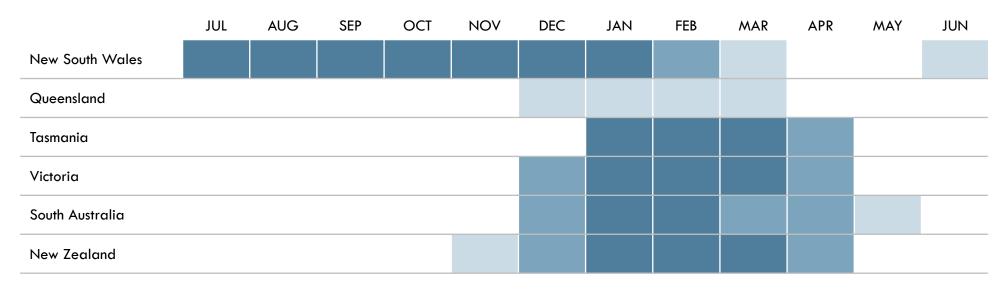
TOTAL BLUEBERRY SUPPLY IN AUSTRALIAN MARKET BY SOURCE

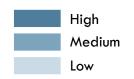


New Zealand blueberry exports supply the Australian market counter-seasonally to NSW, but at a similar time to other states

FRESH BLUEBERRY AVAILABILITY IN AUSTRALIA BY ORIGIN

Presence/availability; 2017/18

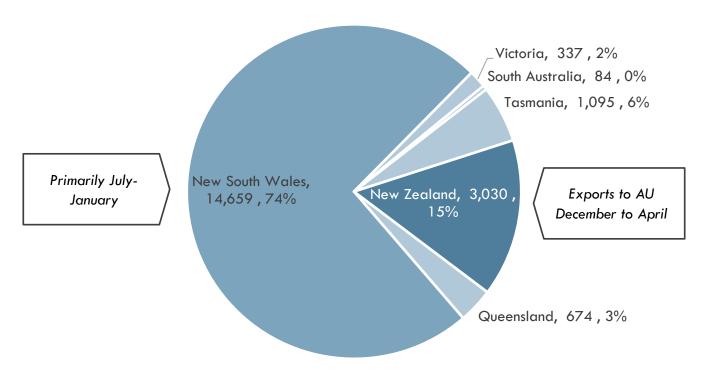




New South Wales (74%) is the largest blueberry producing region in Australasia, followed by New Zealand (15%)

AUSTRALASIAN BLUEBERRY PRODUCTION BY STATE

Tonnes; 2017/18



TOTAL = 19,879t of blueberries produced in 2017/18

Australian imports of New Zealand blueberries are growing faster (23%) than domestic Australian production (14%)



There are opportunities for growth in select East and South East Asian markets

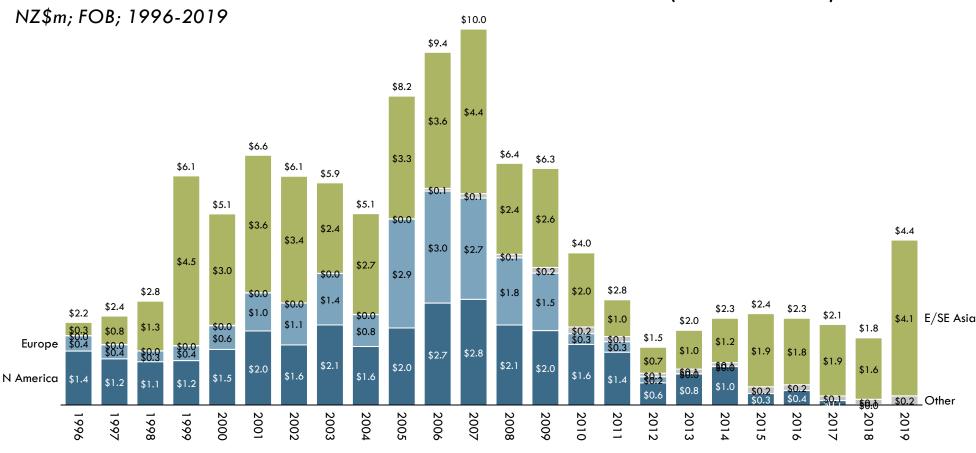






New Zealand's blueberry exports are currently modest beyond Australia and now predominantly go to East/South East Asia

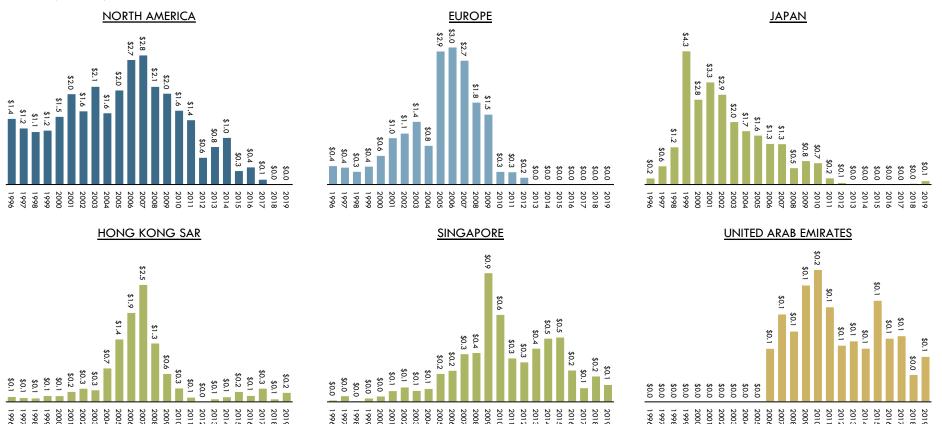
NEW ZEALAND BLUEBERRY EXPORT VALUE BY DESTINATION (EX AUSTRALIA)



In many export markets, New Zealand's blueberry exports appear to go through a "boom-and-bust" cycle

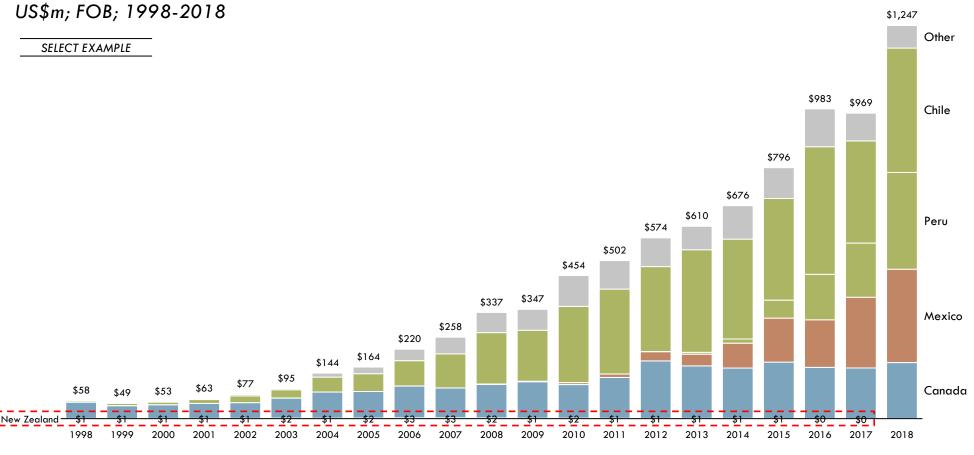
NEW ZEALAND BLUEBERRY EXPORT VALUE BY SELECT DESTINATION

NZ\$m; FOB; 1996-2019

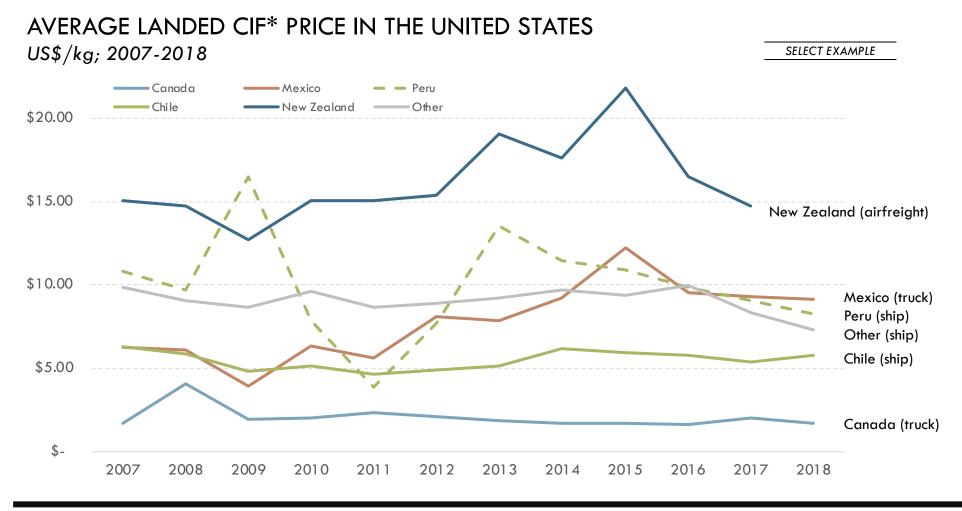


In "in-and-out" markets, key competitors such as Chile, Peru and Mexico have achieved growth, while New Zealand has not

UNITED STATES BLUEBERRY IMPORT VALUE BY DESTINATION (EX AUSTRALIA)



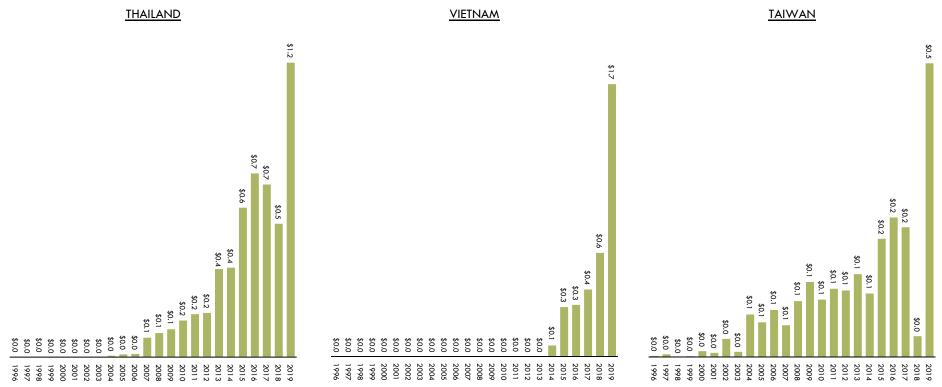
The challenge in "in-and-out" markets is the high current landed price of New Zealand blueberries (+50%)



Three markets – Thailand, Vietnam and Taiwan – stand out for creating solid growth to date

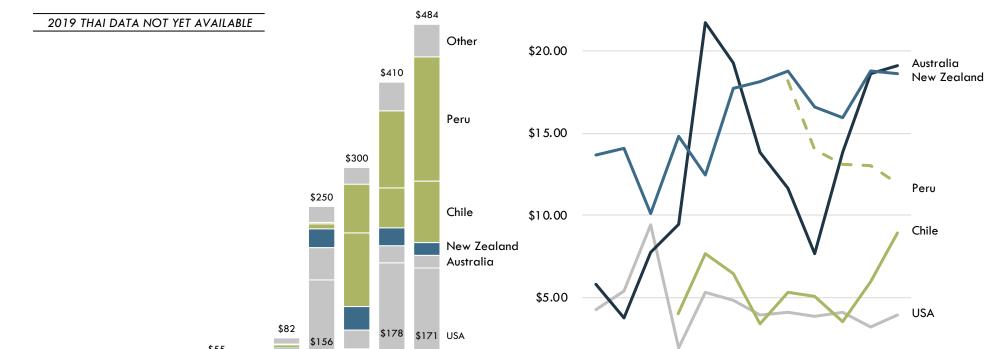
NEW ZEALAND BLUEBERRY EXPORT VALUE BY SELECT DESTINATION

NZ\$m; FOB; 1996-2019



However, even in these growth markets, New Zealand is under pressure from low cost suppliers

THAILAND BLUEBERRY IMPORT VALUE US\$000; 2007-2018



\$67

AVERAGE LANDED CIF PRICE IN THAILAND

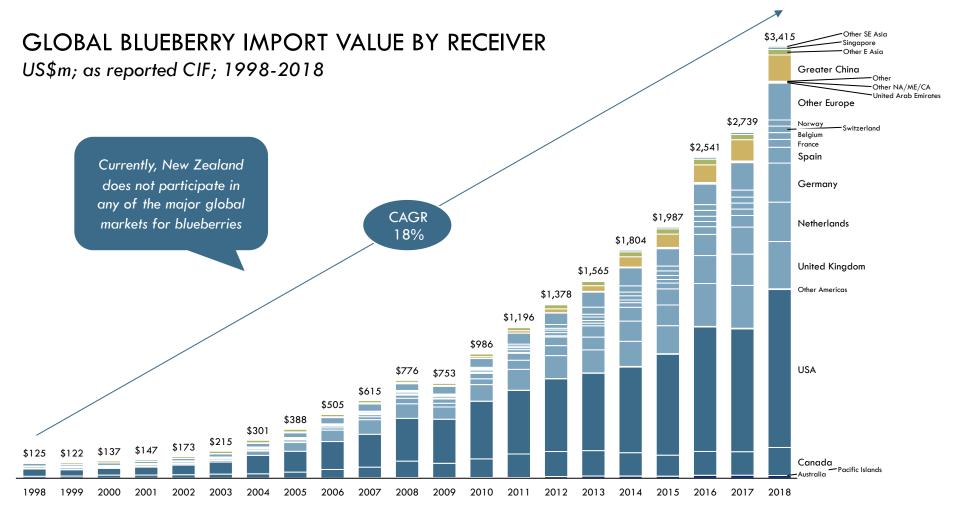
US\$/kg; 2007-2018

Competitive Situation

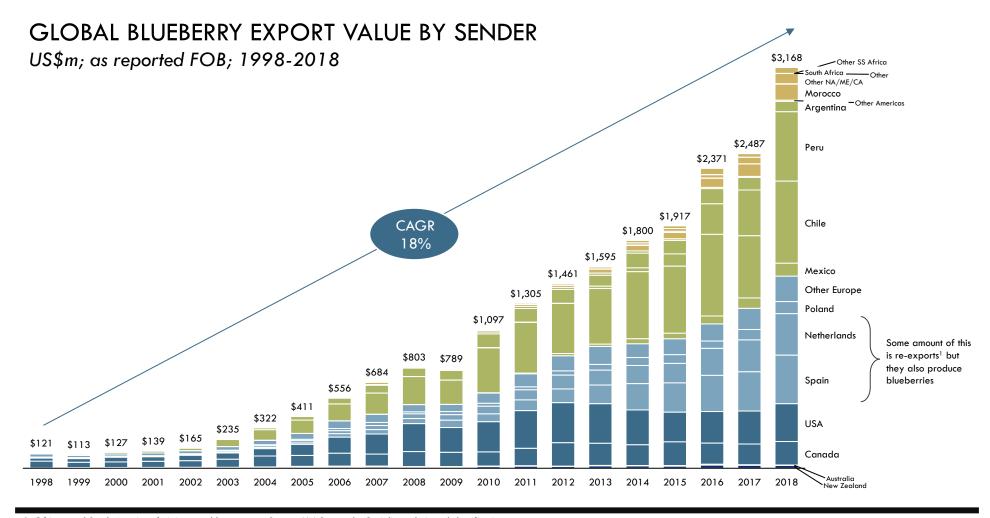
- Global situation
- Key competitors
- Peru
- Chile

04

The global market for blueberry imports is dominated by North America and Europe, with China as a major growth region¹



Global blueberry exports are growing (20y CAGR 18%), driven in particular by Chile and Peru



This section looks at the two largest blueberry exporters for lessons for New Zealand; first, Peru...





Peru – a country that has grown rapidly over the past decade to become the largest blueberry exporter in the world – has clear lessons for New Zealand

- 1. Six major factors are driving Peru's strong growth in blueberries; does New Zealand have all of these?
- 2. To point out the obvious, growing exports requires growing area and growing yields
- Peru has rapidly growing blueberry area and yields, leading to rapidly growing production
- Peru has translated growing blueberry production into growing blueberry exports
- Peru's blueberry exports peak in October, earlier than Chile (or New Zealand)
- Peru's growing blueberry exports have gone to North America, Europe and China/Hong Kong
- 3. New Zealand needs fewer, larger operators achieving much higher yields
- Peru has a highly consolidated industry made up of large operators at scale
- An examination of the financial results of Camposol shows that Peru's growth is being driven by economies of scale and profit
- Comparing Camposol with the New Zealand blueberry industry, highlights the lack of scale and low yields currently

Six major factors are driving Peru's strong growth in blueberries





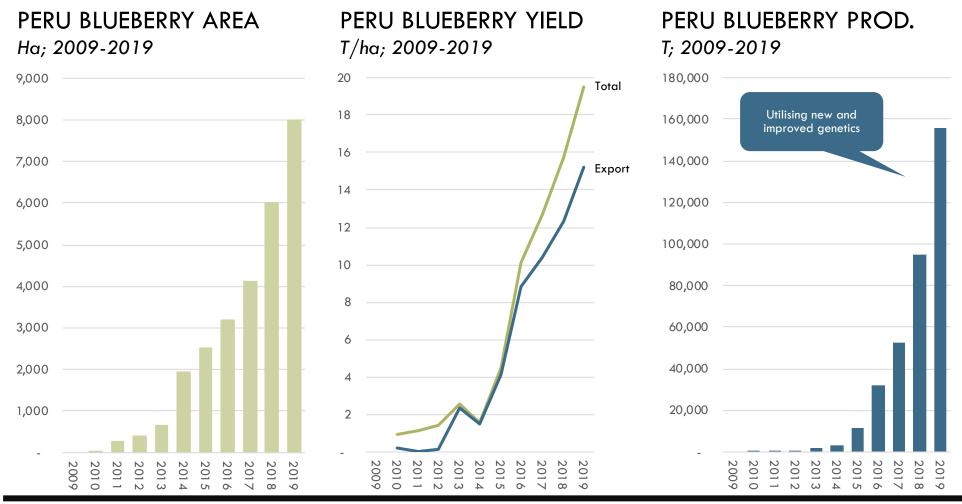




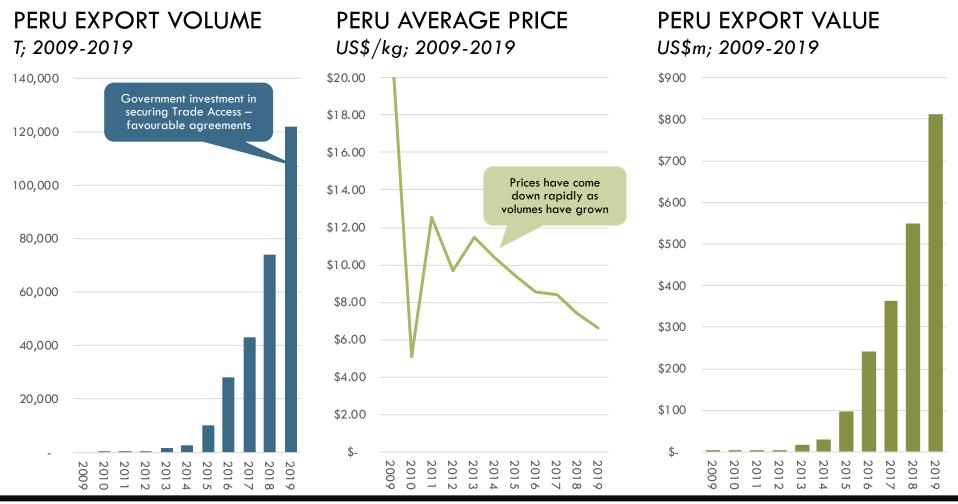




Peru has rapidly growing blueberry area and yields, leading to rapidly growing production



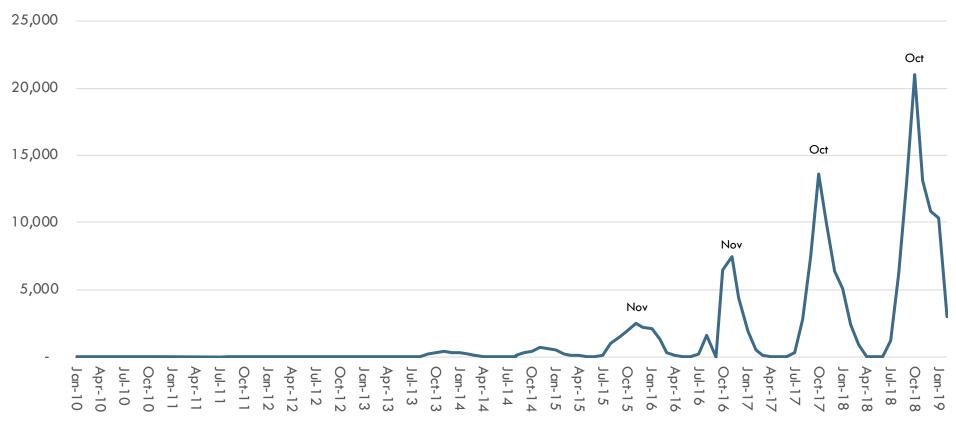
Peru has translated growing blueberry production into growing blueberry exports



Peru's blueberry exports peak in October, earlier than Chile (or New Zealand)

PERU BLUEBERRY EXPORT VOLUME BY MONTH

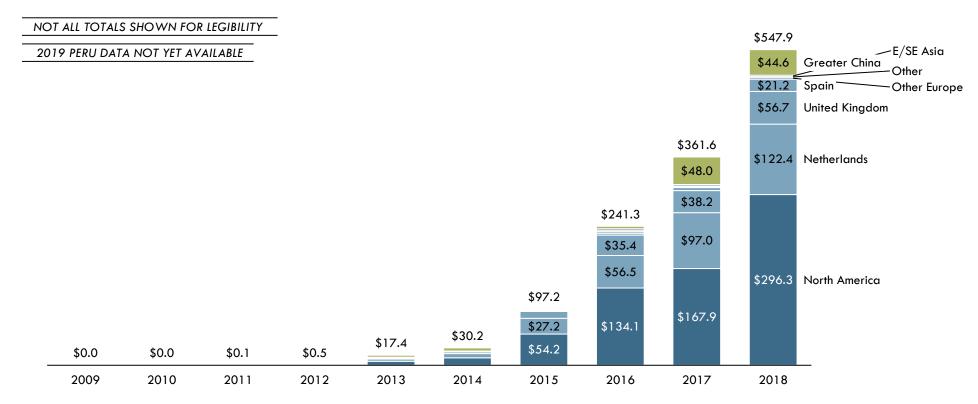
Tonnes; Jan 2012 - Jan 2020



Peru's growing blueberry exports have gone to North America, Europe and China/Hong Kong

PERU BLUEBERRY EXPORT VALUE BY DESTINATION

US\$m; 2009-2018



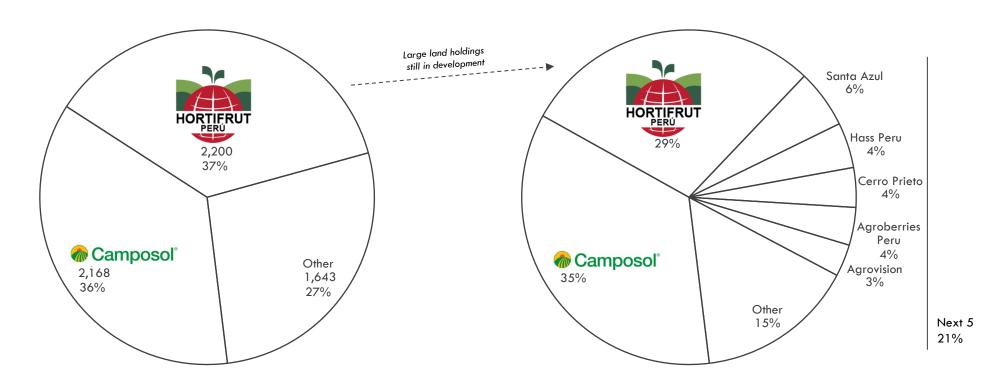
Peru has a highly consolidated industry made up of large operators at scale

PERU BLUEBERRY AREA BY FIRM

Hectares; 2018

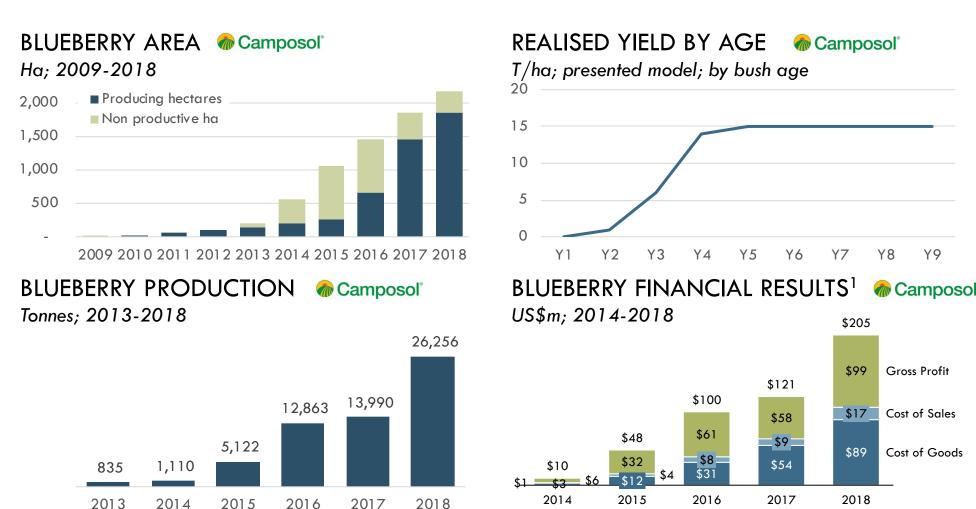
PERU BLUEBERRY EXPORT SHARE BY FIRM

% of export value in US\$; 2018





An examination of the financial results of Camposol show that Peru's growth is being driven by economies of scale and profit

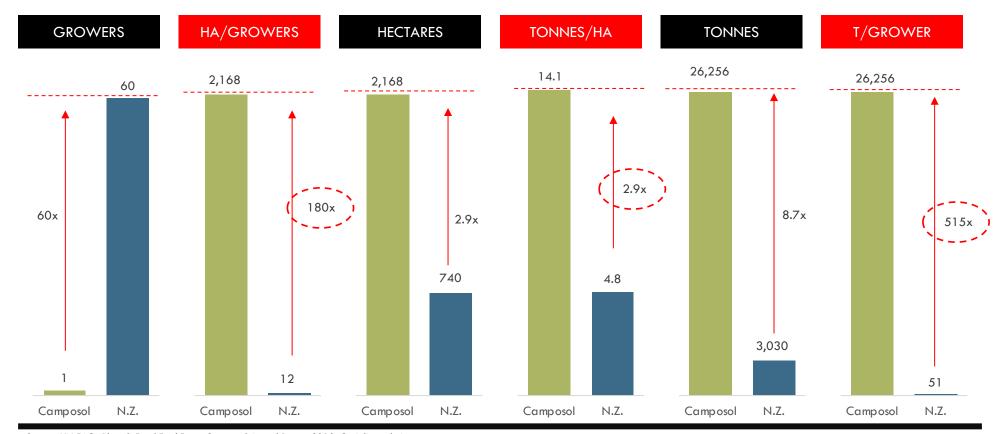




Comparing Camposol with the New Zealand blueberry industry highlights the lack of scale and low yields currently

INDUSTRY SIZE AND PERFORMANCE METRICS: CAMPOSOL VS. NEW ZEALAND

Select variables as given; 2018 or as available



This section looks at the two largest blueberry exporters for lessons for New Zealand; second, Chile...

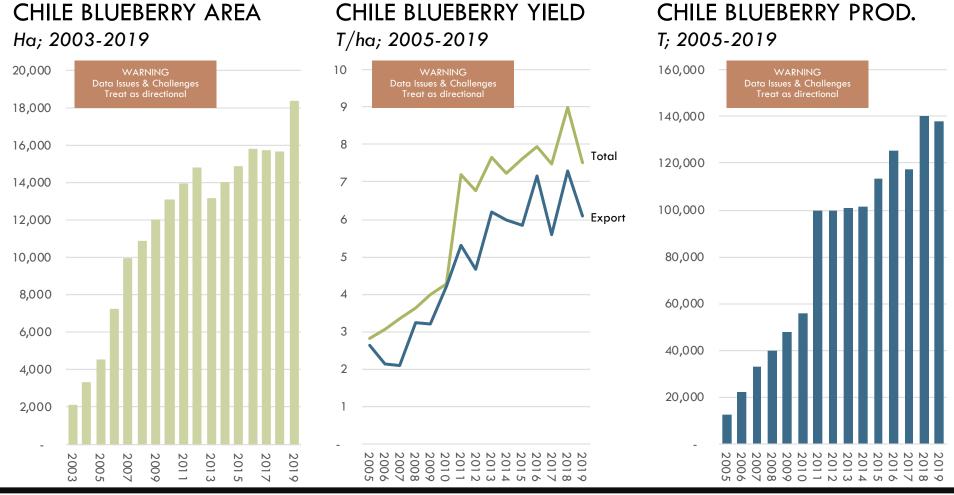




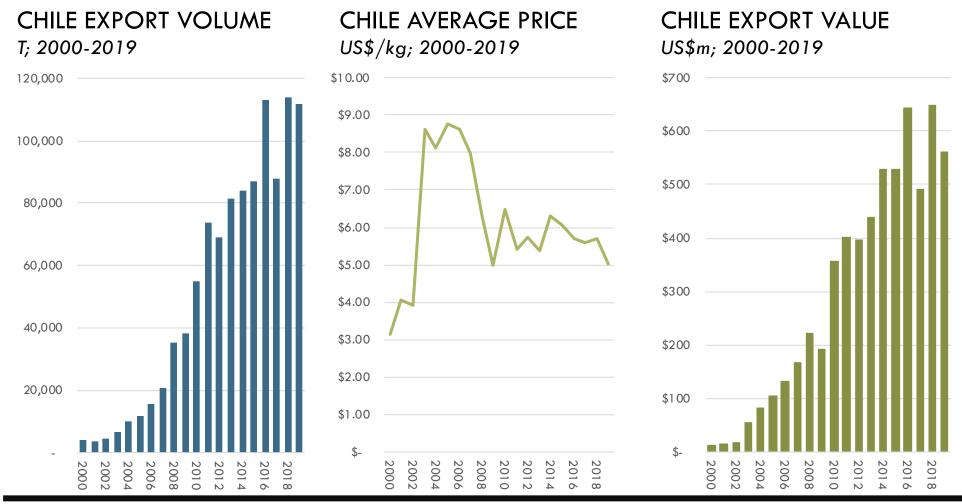
Chile is a growing producer and exporter that has put pressure on New Zealand in many Asian blueberry markets

- Chile is growing blueberry area, yields and production
- Chile has growing blueberry export volumes and values
- However, the growth of Peru has put pressure on prices
- Similar to New Zealand, Chile's blueberry exports peak in the Southern Hemisphere mid-summer (Jan)
- Chile's growing fresh blueberry exports have gone to North America, Europe and China/Hong Kong
- Chile has a relatively consolidated blueberry industry

Chile is growing blueberry area, yields and production



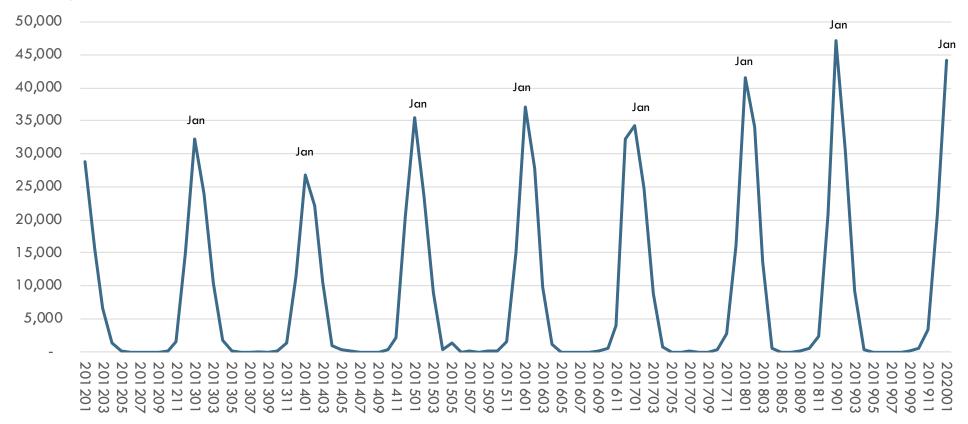
Chile has growing blueberry export volumes and values; however, the growth of Peru has put pressure on prices



Similar to New Zealand, Chile's blueberry exports peak in the Southern Hemisphere mid-summer (Jan)

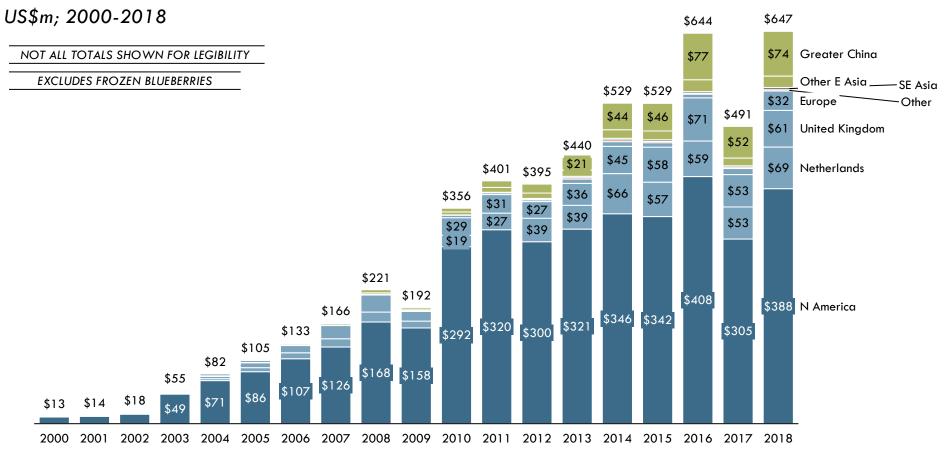
CHILE BLUEBERRY EXPORT VOLUME BY MONTH

Tonnes; Jan 2012 - Jan 2020



Chile's growing fresh blueberry exports have gone to North America, Europe and, more recently, Asia

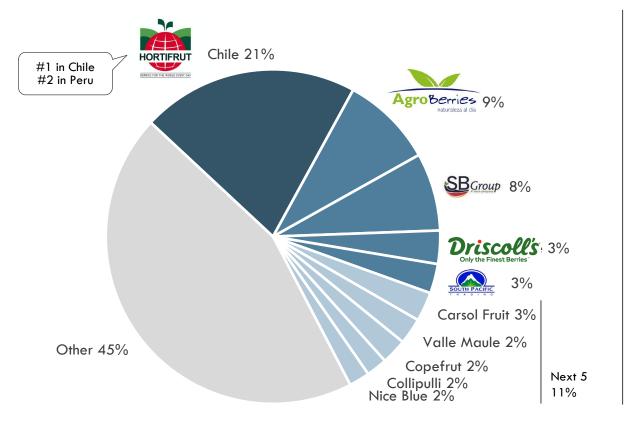
CHILE FRESH BLUEBERRY EXPORT VALUE BY DESTINATION



Chile has a relatively consolidated blueberry industry

SHARE OF CHILEAN BLUEBERRY EXPORTS BY FIRM

Share of tonnes; 2014



Top 10 55%

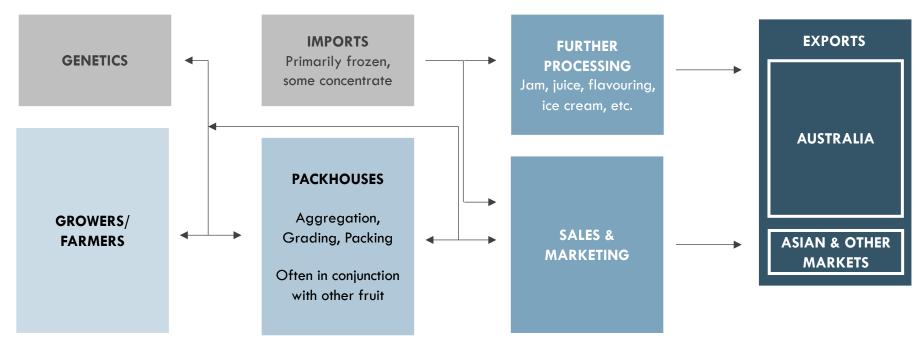
Firm Activity & Profiles

- Firm Themes
- Key Firm Profiles

As the industry develops, firms are integrating across and between the supply chain

INVESTMENT ACROSS THE BLUEBERRY SUPPLY CHAIN

Model; 2020



Firms are investing in growth across the supply chain

BLUEBERRY INVESTMENTS: EXAMPLE

ORGANISATION

DETAILS



- Developing 220 ha farm in Southland orchard, over time land being developed and production increasing; in 2019 40% acreage in grass
- Adding to existing 160ha acreage in North Island



- 2011-2013 planted 30ha of blueberries in Kerikeri, 55,000 plants will produce +300 tonnes of fruit when in full production in 2021; invested in dedicated packhouse facility, planted four new varieties and launched ENZABlue Brand
- 2017 license holder of 16 proprietary blueberry varieties in Australia; agreement between T&G and P&F Research
- 2020 new partnership with P&F Research to breed new blueberry varieties
- 2020 new JV relationship with CarSol (worlds largest berry producer), enabling year-round supply into Asia under "Orchard Rd" brand



- 2015 began investing in hydroponic berryfruit (raspberries, blackberries)
- 2019 invested in 4ha of hydroponic blueberries in Northland
- Received Provincial Growth Fund funding (\$2.37m) to further develop hydroponic berryfruit opportunities in Northland, and develop training resources in Northland. Looking to expand orchard a further 20ha.



- Investing in new plant varieties to: improve yield, disease resistance, taste, early and late season fruit

Large firms like T&G are developing blueberries as a strategic category

BACKING BILIFBERRIES

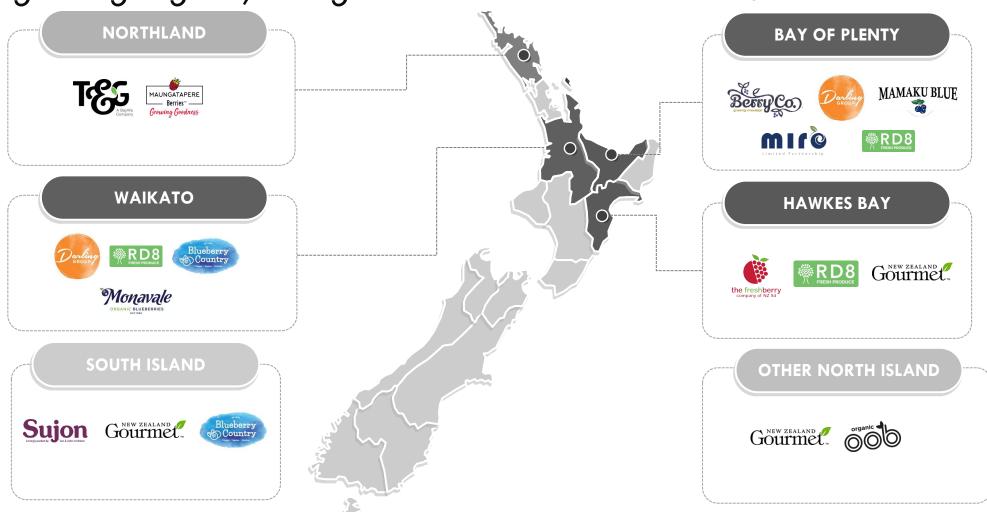
"Emerging categories have a strong future, with the strategic goal of maintaining an advantage over global competitors and supplying high quality, premium blueberries and grapes 365 days of the year in key markets around the world... This year, the Company made great progress with its emerging blueberry category, bringing together genetics, growing, partnerships and the aggregation of its markets and brands. Discussions commenced with potential grower partners in the United States, Australia and South America, with the view to establishing strategic sourcing partnerships. The Company's Orchard Rd brand was successfully rolled out to new markets across Asia, including Singapore and China. And in June 2019, T&G was one of the first companies to service the newly opened Vietnamese market out of the United States, with its Orchard Rd blueberries. The Company has continued to commercialise its blueberry genetics as part of its partnership with Oregon-based Fall Creek Farm & Nursery, and Plant & Food Research in New Zealand. This programme is looking to provide Australian consumers with high quality, locally-produced blueberries at different times of the year – thereby helping extend the availability of blueberries in Australia. In 2020, T&G will continue to build- out its blueberry category with further partnerships throughout its supply chain." T&G Annual Report, 2019, pg20



"Harnessing our vertical model strengths to develop two new categories – blueberries and grapes...We see a strong future for these emerging categories."

Gareth Edgecombe (CEO) T&G

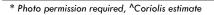
Bay of Plenty, Hawke's Bay and Waikato are the primary growing regions, with growth in Northland and the South Island



BERRYCO Berry Co. General Manager	DARLING GROUP Andrew Darling Managing Director	THE FRESH BERRY COMPANY/RD8 FRESH PRODUCE GROUP the freshberry company of NZ ltd Craig Hall* Managing Director	MIRO LP Liz Te Amo Chief Executive Officer
DESCRIPTION: Blueberry company, JV between Southern Produce (BOP) and Valleyfresh (VIC) own IP for Mountain Blue Orchard (AU), large early market fruit, packers and marketing; 11 varieties	DESCRIPTION: Growing, packing, marketing and distribution of fresh fruit globally; Global Fresh Australia trading as JH Leavy & Co, Just Avocados 3rd largest avocado exporter in NZ; Blueberries grown in Waikato and BOP; supplying Dec-Apr	DESCRIPTION: Integrated global supply company, trading berries; exclusive agent for Driscoll's in New Zealand; Berry Farms NZ grows berries in Hawkes Bay plus contract growers; owned by RD8 a fresh fruit export company	DESCRIPTION: Collective of Maori food producers, plans to develop berry orchards, plus post-harvest operations. Partnership with BerryCo NZ
KEY PRODUCTS: Blueberries. Brands: Eurkea and iLuv	KEY PRODUCTS: Kiwifruit, avocados, berries, apples, citrus, mangoes, tomatoes, vegetables	KEY PRODUCTS: raspberries, blackberries, strawberries, blueberries (brands: Driscoll's, Blue Pearl, Oakberry Farms, Monavale (organic))	KEY PRODUCTS: Berries
OWNERSHIP: JV Southern Produce 50%, Valleyfresh (VIC) 50%	OWNERSHIP: Darling Family	OWNERSHIP: RD8 Fresh Produce Group Ltd	OWNERSHIP: 20 Maori trusts, iwi and collectives (27 shareholders)
COMPANY NUMBER: 5547685	COMPANY NUMBER: 5798616	COMPANY NUMBER: 5100061	COMPANY NUMBER:
ADDRESS: 37 Newnham Road, RD4, Tauranga, Bay of Plenty	ADDRESS: 54 Woodland Road, Katikati, Bay of Plenty	ADDRESS: Unit 2/2 Picton Street, Ponsonby Auckland	ADDRESS: PO Box 7051 Tauranga, Bay of Plenty
PHONE: +64 7 552 6878	PHONE: +64 7 549 3027	PHONE: +64 9 969 1522	PHONE: +64 7 571 1551
WEBSITE: www.berryco.co	WEBSITE: www.darlinggroup.co.nz	WEBSITE: www.freshberrycompany.co.nz, www.rd8.co.nz	WEBSITE: www.miroberries.com
YEAR FORMED: 2019	YEAR FORMED: 2000	YEAR FORMED: 2014	YEAR FORMED: 2017
STAFF EMPLOYED: N/A	STAFF EMPLOYED: 30	STAFF EMPLOYED: N/A	STAFF EMPLOYED: N/A
REVENUE: N/A	REVENUE: \$80-\$90m^	REVENUE: N/A	REVENUE: N/A
COMPANY HIGHLIGHTS: Partnership with Miro Ltd (based in Tauranga) collaboration of Maori businesses and horticultural leadership. Establishing orchard in BOP with orchard training	COMPANY HIGHLIGHTS: Acquired Brisbane based J.H. Leavy & Co, produce wholesaler and distributor, in 2016; investment in new facilities for Just Avocados	COMPANY HIGHLIGHTS: Changed name from BerryFresh. Partnership with Driscoll's 2016; Berry Farms NZ growers started planting Driscoll's blueberry varieties; new genetics into NZ every 12-18 months	COMPANY HIGHLIGHTS: Orchard development, tunnel houses. Indicate a 5ha crop in tunnels could return \$104,000/ha over the first eight years from an investment of \$300,000/ha.

JP EXPORTS / J&P TURNER JP EXPORTS	NEW ZEALAND GOURMET GOURMET	MAUNGATAPERE BERRIES MAUNGATAPERE Berries* Growing Goodness	Blueberry Country Blueberry Country
Peter Turner* Managing Director	Paul Martin Chief Executive	Dermott Malley Managing Director	Jerem Wylie* Chief Executive Officer
DESCRIPTION: JP Exports partner with growers and buyers to market fresh produce domestically and globally; source blueberries from North and South Islands; 5 varieties November to March; own produce farms via J & P Turner	DESCRIPTION: Blueberry farms in Hawkes Bay (Gourmet Blueberries Ltd), grow fruit over 79ha producing 600t (Nov-May); expanded into Auckland and Otago; grows and markets produce from 6 key operations across NZ; multiple farms across USA, Mexico and Peru	DESCRIPTION: Kiwifruit & Berryfruit growers. 37ha operation in Maungatapere, Northland. Also owns Onyx Horticulture - horticultural contracting, orchard management and consulting company. Cofounders of Dataphyll Ltd - horticulture software development company.	DESCRIPTION: NZ largest blueberry grower; Blueberry farms located across three locations in Ngatea (40ha), Ohaupo (120ha) and Otautau (220ha); firm operations: grow, harvest, process and pack
KEY PRODUCTS: Fruit, vegetables (5 blueberry varieties)	KEY PRODUCTS: Strawberries, blueberries, tomatoes, capsicums, chillies, cherries	KEY PRODUCTS: Raspberries, Blackberries, Solberries (Own brand), Blueberries (Eureka	KEY PRODUCTS: blueberries (commercial and retail) fresh and frozen, puree, mince, jam, chutney
OWNERSHIP: Private; NZ (Turner Family)	OWNERSHIP: Gourmet Group (Lawler, Martin, Lineen, others) 73%; NZSF Horticulture 27%	brand), Kiwifruit (Zespri brand), Frozen berryfruit (Own brand)	OWNERSHIP: Private NZ; Furniss and MacDonald
COMPANY NUMBER: 671446 / 643531	COMPANY NUMBER: 489762/1522263	OWNERSHIP: Onyx Capital Limited (Owned by Malley family trusts)	COMPANY NUMBER: 200213
ADDRESS: 27 Clemow Drive, Mount Wellington,	ADDRESS: 83 Pukaki Road, Mangere,	COMPANY NUMBER: 398167	ADDRESS: 397 Jary Road, RD 1, Ohaupo
Auckland	Auckland	ADDRESS: 162 Pukeatua Road, RD9, Maungatapere, Whangarei, Northland	Waikato
PHONE: +64 9 5734 100	PHONE: +64 9 275 3415	PHONE: +64 9 434 7438	PHONE: +64 7 823 6923
WEBSITE: www.jpexports.co.nz; www.jpt.co.nz	WEBSITE: www.nzgourmet.net www.gourmettrading.net	WEBSITE: www.maungatapereberries.co.nz	WEBSITE: www.blueberry.co.nz
YEAR FORMED: 1994	YEAR FORMED: 1983		YEAR FORMED: 1981
STAFF EMPLOYED: 500 + 500 seasonal (group)	STAFF EMPLOYED: N/A	YEAR FORMED: 2011 (2015 for berry fruit)	STAFF EMPLOYED: 45-180
REVENUE: \$200-220m (parent)	REVENUE: \$20-50m^	STAFF EMPLOYED: 45 (180 peak) REVENUE: N/A	REVENUE: N/A
COMPANY HIGHLIGHTS:	COMPANY HIGHLIGHTS: Often JV and partner with other companies and organisations; NZ Superfund acquires 27% stake, Jun 2018	COMPANY HIGHLIGHTS: Supreme winners '19 of NLD Ballance Farm Environment Awards & NLD Westpac Business Excellence Awards Use technology growing solutions like Dataphyll (employee performance management and product traceability) and Autogrow (hydroponics fertigation and mngt). PGF awarded to help develop NLD into soft berryfruit growing capital of NZ '19	COMPANY HIGHLIGHTS: Currently developing 220ha orchard in Southland (Otautau); developed BBC Technologies to test and sort fruit and pack by weight; 70-80 commercial seasonal workers needed for Southland

T&G	ValleyFresh Global	Southern Produce	Fresh Produce NZ FTEST DTOCUCE
TES Constant	reshmax	southernproduce Fresh Transition Fresh Groupe Group	produce.
Gareth Edgecombe Chief Executive Officer	Anton Masutti	Tony Ponder* CEO	Russell Faulkner* Managing Director
DESCRIPTION: Global grower, seller, marketer and distributor of quality fresh produce; 1,100ha farmed; 32 global locations. Blueberries grown in Northland, Waikato and Hawkes Bay; 11ha and 73t of owned and leased land, grown globally	DESCRIPTION: Produce company sourcing fruit globally; trading, packaging, fumigation and ripening services; part of the Freshmax Group (one of 6 units)	DESCRIPTION: Produce marketer; domestic and export; based in Bay of Plenty; JV partner in BerryCo with Valleyfresh (AU); Exports blueberries direct to Australia and across Asia; Supply Nov-May	DESCRIPTION: Sourcing and exporting New Zealand produce and seafood; Source organic and conventional blueberries from Hawkes Bay and Waikato, 6 varieties available from Nov-May
KEY PRODUCTS: Pipfruit, table grapes, asparagus, citrus, tomatoes, kiwifruit, cherries, berries (Orchard Road brand) and other fresh fruit and vegetables	KEY PRODUCTS: NZ Blueberries (4 varieties, Oct-May)	KEY PRODUCTS: avocados, blueberries, apples, kiwifruit, kiwiberries	KEY PRODUCTS: Berries, vegetables, seafood
OWNERSHIP: (TGG:NZX) BayWa Aktiengesellschaft (FWB:BYW6) 74%, Wo Yang Limited 20%, others	OWNERSHIP: Freshmax Group	OWNERSHIP: Fresh Produce Group Holdings (AU) 30%, Young 30%, Ponder family 30%, Young 10%	OWNERSHIP: Private NZ: Faulkner, Moffatt, Tavendale, Dineen
COMPANY NUMBER: 41406	COMPANY NUMBER: 1842723	COMPANY NUMBER: 827509	COMPANY NUMBER: 2383256
ADDRESS:1 Clemow Drive, Mt Wellington, Auckland	ADDRESS: PO Box 41533 St Lukes, Auckland	ADDRESS: 37 Newnham Road, Te Puna, Bay of Plenty	ADDRESS: 114 Grace Road, Tauranga, Bay of Plenty
PHONE: +64 9 573 8700	PHONE: +64 9 436 0713	PHONE: +64 7 552 6880	PHONE: +64 7 543 2839
WEBSITE: https://tandg.global	WEBSITE: www.valleyfresh.group	WEBSITE: www.southernproduce.co.nz	WEBSITE: www.freshproducegroup.co.nz
YEAR FORMED: 1897	YEAR FORMED: 1997	YEAR FORMED: 1996	YEAR FORMED: 2009
STAFF EMPLOYED: 2000 + 2,500 seasonal	STAFF EMPLOYED: 700 worldwide	STAFF EMPLOYED: N/A	STAFF EMPLOYED: 4
REVENUE: \$1,188 (FY19)	REVENUE: N/A	REVENUE: N/A	REVENUE: N/A
COMPANY HIGHLIGHTS: Positioning itself for growth in blueberries with it's own farms (11ha, 73t); recent acquisition of domestic horticulture of Freshmax for \$30m; investing in genetics; 16 proprietary varieties in Australia (Fall Creek,(USA) and Plant & Food (NZ) varieties); JV with CarSol Fruit (one of the worlds largest berry firms)	COMPANY HIGHLIGHTS: Freshmax NZ sold to T&G (did not include Freshmax plant IP (Innovar))	COMPANY HIGHLIGHTS: JV partner in Avanza; AVOCO; Team Avocado; part owners in Southern Apples, Prendo Prepack, others	COMPANY HIGHLIGHTS:



SUJON MARKETING Sujon Lingstypidatis June 10th milder	MAMAKU BLUE	OOB FOODS organic OO	MONAVALE BLUEBERRIES Monavale ORGANIC BLUEBERRIES ESTABLE ORGANIC BLUEBERRIES
John Molyneux Chief Executive Officer	Harry and Anne Frost Owners	Robert Auton Chief Executive Officer	Marco de Groot* General Manager
DESCRIPTION: Supply and marketing of quick- frozen berries, frozen fruit and powdered berry products to retail and food service channels; Importer and exporter	DESCRIPTION: Blueberry and gooseberry farm, orchard and winery with function centre; first established orchard in 1980's; producing blueberry wine	DESCRIPTION: Grower of organic blueberries, processor of organic frozen fruit, manufacturer of organic ice cream; domestic and export markets; processed berry products; 15 blueberry varieties grown on Omaha orchard (Oct-Mar)	DESCRIPTION: Organic blueberry farm over 44 hectares supplying fresh, powdered and processed blueberry food products, cafe onsite; 30 varieties harvest November to May
KEY PRODUCTS: Frozen berries, berry powder supplements, smoothie mixes, and frozen fruit	KEY PRODUCTS: Blueberry juice, wine, sauce, jam, fresh, frozen, dried, powder, chocolate bar	KEY PRODUCTS: Fresh and frozen organic berries and fruit; ice cream, sorbet, ice blocks, juice, smoothie mixes, organic vegetables	KEY PRODUCTS: Fresh organic blueberries, pure juice, beverages, powder, jam, chutney, sauce, wine
OWNERSHIP: Private (NZ); Gibb Holdings	OWNERSHIP: Private (NZ); Frost family	OWNERSHIP: Chuck Investments LP 60%, Omaha Blueberries (Auton family) 40%	OWNERSHIP: Private (NZ) Banks and DeGroot
COMPANY NUMBER: 2210354	COMPANY NUMBER: 1054606	COMPANY NUMBER: 5888090	COMPANY NUMBER: 1241909
ADDRESS:17 Bullen Street, Tahunanui, Nelson	ADDRESS: 311 Maraeroa Road, RD 1, Rotorua	ADDRESS: 89 Jones Road, Omaha, Auckland	ADDRESS: 178 Turkington Road, Monavale, Cambridge, Waikato
PHONE: +64 3 546 4101	PHONE: +64 7 332 5840	PHONE: +64 9 974 3242	PHONE: +64 0800 4 23774
WEBSITE: www.sujon.co.nz	WEBSITE: www.mamakublue.co.nz	WEBSITE: www.ooborganic.com	WEBSITE: www.monavaleblueberries.co.nz
YEAR FORMED: 1969	YEAR FORMED: 2000	YEAR FORMED: 2016	YEAR FORMED: 2002
STAFF EMPLOYED: 25	STAFF EMPLOYED: N/A	STAFF EMPLOYED: 25	STAFF EMPLOYED: 12 (+150 seasonal)
REVENUE: \$10-20m^	REVENUE: N/A	REVENUE: \$20-25m^	REVENUE: \$10-20m^
COMPANY HIGHLIGHTS: Won 'Best New Individual Brand Award' at the Asian Branding & Franchising Association Awards (ABFA Awards), in Hong Kong Oct 2018	COMPANY HIGHLIGHTS:	COMPANY HIGHLIGHTS: 20% ownership in NZ Ice cream products (with Chuck and CLY NZ (Yuan, Hou, Huang)	COMPANY HIGHLIGHTS: Australasia's largest certified organic blueberry grower

A broad range of organisations support the blueberry industry









- Represent the entire supply chain from seed producer to consumer on pan-produce issues
- Funding from voluntary membership fees, 5+ A Day logo user fees and sponsorship

- Represent 5,000 growers
- Commodity Levy (FruitFed and VegFed) Order 2007
- 21 product groups pay levy (including blueberries)
- Annual Industry Conference

www.hortnz.co.nz

- Represent the blueberry industry (60 growers, 4 propagators, 9/13 registered exporters
- Primarily fees funded
- BBNZ exclusive licensee in NZ for 12 P&F owned varieties
- www.blueberriesnz.co.nz

Blueberry Industry
Direction & Advocacy

- Science company providing research and development that adds value to fruit, vegetable, crop and food products
- NZ government owned,
 Crown Research Institute
- Blueberry breeding programme
- www.plantandfood.co.nz

Industry Science & Research

- www.unitedfresh.co.nz

Industry Advocacy & Advisory

Grower Support & Advocacy

GLOSSARY OF TERMS

A\$/AUD	Australian dollar
ABS	Absolute change
ANZSIC	AU/NZ Standard Industry Classification
AU	Australia
Australasia	Australia and New Zealand
b	Billion
CAGR	Compound Annual Growth Rate
CN	China
CRI	Crown Research Institute
E Asia	East Asia
FAO	Food and Agriculture Organisation of the United Nations
FY	Financial year (of firm in question)
HK	Hong Kong
JV	Joint venture
m	Million

n/a	Not available/not applicable
N. America	North America (USA, Canada)
Nec/nes	Not elsewhere classified/not elsewhere specified
NZ	New Zealand
NZ\$/NZD	New Zealand dollar
Pac Isl or PI	Pacific Islands
R&D	Research and Development
S Asia	South Asia (Indian Subcontinent)
SE Asia	South East Asia
S.H	Southern Hemisphere
Tort	Tonne
US/USA	United States of America
US\$/USD	United States dollar

