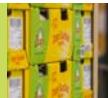


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Uncertainty Is Here To Stay

James Trevelyan – Managing Director


Well, here we are again in level 4 lockdown. It all seems a little easier this time around, except for your glasses getting fogged up due to the face mask.

However, the bar has been lifted with the knowledge that it is the Delta variant we are dealing with. One thing we have learnt from last time is that lockdown drives us to change some of our normal behaviour i.e. working from home and shopping online, to mention just two.

Due to these changed habits, according to a McKinsey and Company report, one in 16 of the workforce will need to change their careers. The world needs more photographers to support online material, and with a

predicted reduction in business travel by 20 per cent, there will be fewer involved in this sector.

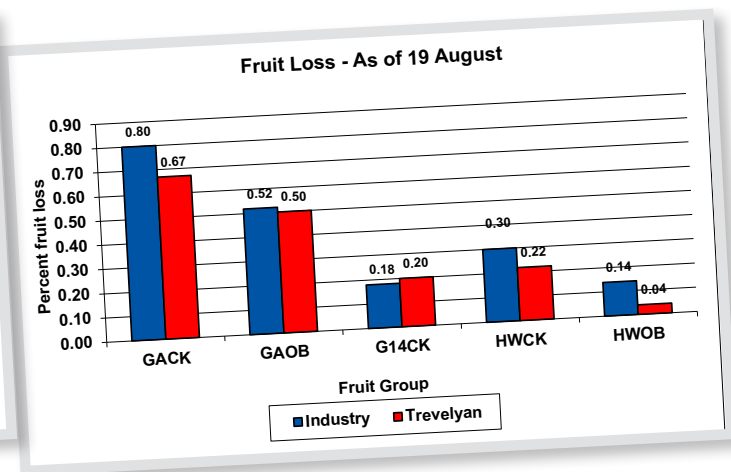
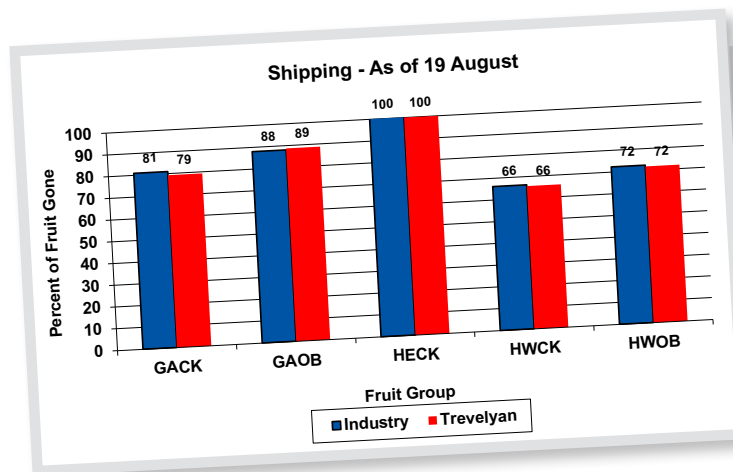
I was also interested to learn that Indevin New Zealand has purchased Villa Maria wines. I understand that Indevin does limited bottling of wine in New Zealand and instead exports wine in bulk bladders via containers, to be bottled for specific orders offshore.

We are currently putting together a business model to build a fifth export packhouse at Trevelyan's. Due to the current business environment, the lead

time for a decision for a packhouse in two years' time needs to be made in the next few months. Should we be building a packhouse that caters for the current Zespri mix of pack types in the market, or is the new normal point of sale going to challenge that? It is never hard to spend money, but to spend it wisely in the current climate becomes more of a challenge. One thing I do know is, over these next few years we will need to be flexible and light on our feet to cater for the new business environment.

Operations Update

Phil Allison – Information Systems Manager



Shipping and Fruit Loss

During the season to date, we have shipped 12,515,357 trays of kiwifruit (68.6% of what was packed) and have 5,733,224 trays left to ship.

The details by fruit group are in the chart. The impact of advance movement is no longer there, with our shipped percentage now close to the industry ship percentage.

After a pause on the first morning of lockdown, repacking operations are in full swing again. The pause was taken to make sure all COVID-19 protocols were put in place to allow Trevelyan's to continue operations as an essential business.

Fruit quality continues to be a challenge this season, with fruit loss levels well above where they have been for the last few seasons. For the main four fruit groups, fruit loss at Trevelyan's is still lower than the industry average.

The main reasons for fruit loss continue to be physical damage that has turned into a rot, other fruit rots, and soft fruit. Remember you can check your individual fruit loss on the Trevelyan's grower portal. Data here is updated every night.

COVID Level 4 Requirements

Work on orchard can continue during the level 4 lockdown.

However, growers must adhere to the protocols

available on the KGI website (www.nzkgi.org.nz). These protocols change often so growers need to ensure they keep checking the website for the most up-to-date information. The main requirements are around physical distancing and mask wearing. WorkSafe New Zealand and the Police are doing workplace inspections to make sure the rules are being followed.

TMO Employment Opportunities

Adam Franklin

Winter work is going well on the Trevelyan's managed orchards.

In addition to winter pruning we are attending to all the details such as new plantings, young vine training, finishing off grafting, and getting set for spring.

Our minds are focused on the requirements for staff through the spring and summer. There is lots of work to do in the coming busy part of the growing season to ensure we set the crops up for harvest in 2022.

At TMO we have lots of opportunities for people to gain employment directly within our teams. We pride ourselves on being good employers and managers and we know from the feedback we get that it's a great team to be part of. It has come to my attention in the past few weeks that some people are after flexible work hours, rather than full time work. Also, some people who want that flexibility do



Growing A Better Future By Taking Action On Climate Change

Sarah Lei – Sustainability Manager

Following on from last month's article about the importance of keeping climate change high on our agenda, recent developments mean that we now have even more to consider on this front.

The UN Intergovernmental Panel on Climate Change (IPCC) recently released its update on global warming. The report's conclusions, while not unexpected, are stated starkly and for the first time, leave absolutely no doubt that we are unequivocally headed into a decade of now or never efforts to take action on the climate emergency.

The report says we still have choices to make. If we drastically cut emissions in the next decade, average temperatures could still rise 1.5°C by 2040 and possibly 1.6°C by 2060 before stabilising.

As New Zealanders we may feel isolated from the effects of the climate emergency, but this is likely to change in the near future. So if you are one of the many who have been reflecting on the future and are keen to prepare for a changing climate, here are some ideas to consider:

1. **Set your alarm for 2030** - The next 10 years will define the future for generations to come. The new temperature-rise scenarios defined in the IPCC report mean that the New Zealand kiwifruit industry must be prepared to adapt rapidly and stay the course. Start educating yourself about what climate change means for our industry, for your orchard and for your own lifestyle.

A good place to start is Zespri's recently released Climate Change – Risks and Opportunities Report ([https://www.zespri.com/content/dam/zespri/nz/sustainability/Zespri-Climate-Risk-Opportunities-\(TCFD\)-Report.pdf](https://www.zespri.com/content/dam/zespri/nz/sustainability/Zespri-Climate-Risk-Opportunities-(TCFD)-Report.pdf)). This considers the likelihood and impact of physical risks (such

not think it is available to them. Some people are parents who have kids in school but would like some part-time work between school hours. Some people just want part-time work or fewer hours for whatever reasons. I want to be clear that at TMO we can embrace this with no issue. Also, if you have family members who are students coming back from uni for summer break and want work, or know of any other people returning for summer and may want work, we are keen to take them on. All training will be provided.

Please if you know of anyone who would like work with TMO this spring and summer and beyond, there are lots of opportunities in various parts of the business that we would welcome them in to. Feel free to contact me directly at adam.franklin@trevelyan.co.nz or call 027 537 0016.

GAP Update

Christine Draffin

Zespri GAP audits will begin in late September. This is an early reminder to all growers that they need a copy of all current CAVs (Compliance Certificates for Contractors) for all agrichemical applicators, fertiliser spreaders and harvest contractors that worked on your orchards in the last growing season.

Zespri will not accept CAVs from SGS or AsureQuality. They will only accept contractor audits completed by Zespri-approved contract auditors (e.g. CME consulting - Chris Mason).

This year it is compulsory that all fertiliser inputs are recorded in the spray diary, and this will be a key focus for GAP auditors. To add a fertiliser to your diary, login to the spray diary and select "Fertiliser Diary" from the top line of buttons. Once the fertiliser diary loads, click on the "Add New" button.

If you have more than one KPIN, select the one you are entering the diary for from the dropdown box, select the blocks the fertiliser was applied to, and enter all details of the application. Any field with an '*' must be filled in.

Name	Variety	Grower	Incidents
1	GA	OK	1.02
2	GA	OK	0.98
3	GA	OK	0.2

as temperature and rainfall changes) and transitional risks (such as changes in environmental regulations and customer perceptions) associated with climate change.

2. Start measuring your impacts – The kiwifruit industry, as part of the wider New Zealand horticulture sector and primary industries, will come under increasing scrutiny to demonstrate meaningful progress to mitigate the effects of climate change. We will all be expected to measure our carbon impacts as part of our efforts to reduce emissions.

"If you can't measure it, you can't manage it" – Peter Drucker

It is likely that kiwifruit growers will be required to provide information on fuel and fertiliser use as well as areas of complementary plantings in the near future, to help quantify their carbon impacts. Start collecting the information now so that you can provide clear targeted data that will contribute to meaningful outcomes for our industry.

3. Develop initiatives with intent – Start thinking about what you and your organisation can do to make a meaningful difference and help support others to do the same.

- Could you provide shared transport options to reduce employee travel?
- How can you reduce your chemical inputs on the orchard?
- Are there options for complementary planting or could you support a community initiative that carries out these activities?
- Can you implement better systems for managing your orchard waste?

Small steps can have a bigger impact than you expect when you bring other stakeholders on board.

4. Share your wins (and losses) – We need to adapt quickly to the changing environment we find ourselves in, just as we have had to do during the COVID-19 pandemic. Sharing information and collaboration are the key to achieving a better future for our people, our environment and our industry. If you find something that helps reduce carbon emissions on your orchard, connect with others so that they can move in the same direction. If you know something doesn't work, tell that story too so that others don't have to make the same mistake.

"If you want to go fast, go alone. If you want to go far, go together" – African proverb

Industry fieldays are a great way to share knowledge. Talk to your grower rep if you have something to share or if there is something you would like to know more about.

5. Opt for optimism – Research tells us that hope propels more action than fear. Let's make our industry a key part of the solution. As the impacts of climate change become clearer and clearer with rampant wildfires, droughts, heat waves and more, let's choose to do more rather than give up. Personally, I'm looking more closely at what I buy new, what I drive and what I throw away. With a more decisive focus we can all make a positive difference.

If you have any comments or questions on this article, please feel free to get in touch sarah.lei@trevelyan.co.nz.

Zespri's Climate Risks and Opportunities ([https://www.zespri.com/content/dam/zespri/nz/sustainability/Zespri-Climate-Risk-Opportunities-\(TCFD\)-Report.pdf](https://www.zespri.com/content/dam/zespri/nz/sustainability/Zespri-Climate-Risk-Opportunities-(TCFD)-Report.pdf))



A Cup Of Compost Tea

Nicola Roderick – Grower Liaison / Organic Manager

These days compost application on kiwifruit orchards is pretty mainstream, with conventional growers now catching on to the craze, particularly on development orchards.

But what about compost tea? Some growers brew it up themselves as a matter of course, others buy it in, and some aren't interested. But what is the science or "non-science" behind it?

Compost tea, by definition from the Zespri Tech Tip N102, is the liquid solution extracted from compost and fermented (or brewed) aerobically with nutrients to increase the levels of microbiological (bacteria, fungi, protozoa, and nematodes etc) population, which can then be applied to the soil or foliage.

In theory, compost tea's main benefits include aiding in nutrient recycling, protection from disease and improving soil structure, all primarily by providing a larger diversity of microorganisms to the environment. The Soil Food Web also states that compost tea provides nutrients to the soil in a soluble form for both plants and microorganisms, helps with foliar uptake, and water retention of the soil as well as negating the impact that any chemical-based pesticides, herbicides, and fertilisers have on micro-organisms in the ecosystem.

Global research has been done in labs and greenhouses on the foliar benefits of compost tea with results showing a benefit when dealing with plant diseases being recorded. However, the one study done in New Zealand applying compost tea to soil to assess the benefits of kiwifruit orchard health in terms of soil, leaves, and fruit (weight, brix and dry matter) over three seasons was inconclusive. However, there are kiwifruit growers that use compost tea, and the concept behind it makes sense, especially in a situation where the biological make-up of the environment is out of balance, as may be indicated by sub-optimal plant health and fruit production, or by a result from the Soil Food Web or similar test looking at the balance of microbial life.

The application rate of compost tea is recommended at 100-400L/ha with up to four applications a season. As compost tea is a living product, it pays to use it within a few hours of production to minimise its loss of effectiveness. It is easier to apply than compost due to its liquid form,



however, it lacks the organic matter component of compost, so it is recommended that it should be used in conjunction with compost rather than as a stand-alone product.

For those who thrive on challenges you can make your own compost tea and we have some growers who have done so at certain times in their orcharding careers. The key ingredients are a compost tea brewing kit (home-made, or ready-made bought from somewhere such as the Soil Food Web), some good quality compost, a high oxygen environment and food for the microbes. Kelp, fish hydrolysate, and humic acids can be used in conjunction with the compost tea to help feed the biological life on application. If you're keen to give it a go but want to take the easy option, Ecologic Solutions sells a ready-made BioGro certified solution for those who want to try it without the time commitment involved.

I guess with all products, it's just another string to the bow that may help the health or productivity of the plant, but it's up to you to decide if you want to carry on with the status quo or try something different. Remember to check the BioGro online inputs list and Zespri's Crop Protection Standard to ensure that you can use these products. If you brew your own compost tea, you can apply to BioGro for approval in the inputs section and they will assess your request.

References:

N102 Compost and Compost Tea story - KiwiTech Bulletin

<https://canopy.zespri.com/EN/industry/pubs/kiwitech/Documents/N102.pdf>

The Soil Food Web: <https://www.soilfoodweb.com.au/about-our-organisation/actively-aerated-compost-tea-information>

Ecologic Concepts, for compost tea solutions and advice;

<https://www.ecologicconcepts.co.nz/our-products>.

Industry Update

Phil Allison – Information Systems Manager



FRUIT GROUP	AUGUST/TRAY	AUGUST/HA	2020/TRAY	2020/HA	CHANGE/TRAY	CHANGE/HA
GACK	\$10.92	\$167,167	\$12.46	\$177,846	-\$1.54	-\$10,679
GAOB	\$12.86	\$146,662	\$15.36	\$158,599	-\$2.50	-\$11,937
HECK	\$8.27	\$57,739	\$10.14	\$56,853	-\$1.87	+\$866
HWCK	\$6.34	\$75,564	\$7.51	\$76,722	-\$1.17	-\$1,158
HWOB	\$9.80	\$68,256	\$10.53	\$66,453	-\$0.73	+\$1,803

August Forecasts

Zespri have released their August forecast.

This is the first forecast for the year that has a tray value for each fruit group (previous forecasts give ranges). The forecasts by fruit group are shown above.

The main reasons for the decrease are:

- Increased offshore fruit loss and customer quality claims
- Adverse foreign exchange rates
- Increased freight costs and global supply chain issues
- Increased in-market costs for repacking, transport, and cool storage
- Increased post-harvest costs

Debbie and Kelly are working to get your individual grower forecasts to you as soon as possible.

Updated KiwiStart/Time Rates

As part of calculating the August forecast, Zespri also recalculate the KiwiStart and time payments for the season. Inputs that are updated in the model include:

- Fruit value being updated to the August forecast
- Taste payments being updated to the August forecast
- Payment ratios being updated to the August forecast

For 2021 these changes have resulted in final KiwiStart incentives that are lower than the indicative incentives.

Details of the changes are in the tables below and on the following page:

HWCK ISO WEEK	INDICATIVE PAYMENT	PAYMENT RATIO CHANGE	TASTE & FRUIT VALUE CHANGE	FINAL PAYMENT
11/12	\$3.67	-\$0.11	-\$0.19	\$3.37
12/13	\$2.69	-\$0.09	-\$0.15	\$2.45
13/14	\$2.18	-\$0.07	-\$0.11	\$2.00
14/15	\$1.83	-\$0.04	-\$0.08	\$1.70
15/16	\$1.49	-\$0.02	-\$0.05	\$1.42
16/17	\$0.83	\$0.00	-\$0.03	\$0.80
17/18	\$0.68	\$0.01	\$0.00	\$0.69
19	\$0.40	\$0.00	\$0.00	\$0.40

HWOB ISO WEEK	INDICATIVE PAYMENT	PAYMENT RATIO CHANGE	TASTE & FRUIT VALUE CHANGE	FINAL PAYMENT
12/13	\$4.65	\$0.09	-\$0.04	\$4.69
13/14	\$3.76	\$0.03	-\$0.03	\$3.76
14/15	\$3.09	\$0.00	-\$0.02	\$3.08
15/16	\$2.45	-\$0.01	-\$0.01	\$2.43
16/17	\$1.55	-\$0.01	-\$0.01	\$1.53
17/18	\$0.92	\$0.00	\$0.00	\$0.92

GACK ISO WEEK	INDICATIVE PAYMENT	PAYMENT RATIO CHANGE	TASTE & FRUIT VALUE CHANGE	FINAL PAYMENT
10/11	\$4.71	-\$0.25	-\$0.13	\$4.33
11	\$3.65	-\$0.19	-\$0.09	\$3.38
11/12	\$3.23	-\$0.15	-\$0.05	\$3.04
12	\$3.07	-\$0.13	-\$0.03	\$2.91
12/13	\$2.55	-\$0.10	-\$0.01	\$2.44
13/14	\$1.66	-\$0.04	\$0.00	\$1.62
14/15	\$0.80	\$0.00	\$0.00	\$0.80

GAOB ISO WEEK	INDICATIVE PAYMENT	PAYMENT RATIO CHANGE	TASTE & FRUIT VALUE CHANGE	FINAL PAYMENT
11	\$3.55	\$0.00	-\$0.39	\$3.15
11/12	\$2.75	\$0.00	-\$0.28	\$2.47
12/13	\$2.01	\$0.00	-\$0.13	\$1.87
13/14	\$1.49	\$0.00	-\$0.03	\$1.46
14/15	\$1.05	\$0.00	-\$0.01	\$1.04

For time payments, fruit value, taste payments and payment ratios are also updated in the models to produce the final time rates for the season. As with KiwiStart, all time rates have been decreased from the indicative rates published. A summary of the decreases are in the table below left:

Maximum Taste Payments

Maximum Taste Payments (MTP) are also updated to final values for the season with the August forecast. To get your individual taste payment for a maturity area you multiply your TZG value by the MTP.

FRUIT GROUP	AVERAGE REDUCTION
HWCK	-2.5% (\$0.02 cents/tray)
HWOB	-\$0.07% (\$0.00 cents/tray)
GACK	-2.8% (\$0.02 cents/tray)
GAOB	-5.7% (\$0.06 cents/tray)

	GACK	GAOB	HECK	HWCK	HWOB
Forecast fruit + taste payment	\$12.98	\$14.47	\$11.15	\$7.74	\$10.97
Percent payable as taste	70%	70%	60%	60%	60%
Maximum Taste Payment (MTP)	\$9.09	\$10.13	\$6.69	\$4.65	\$6.58
Average TZG	0.64	0.74	0.57	0.70	0.69
Average taste payment	\$5.81	\$7.53	\$3.81	\$3.13	\$4.62

Technical Information

Gordon Skipage – Kiwifruit Technical Manager



2021 - 2022 Zespri Crop Protection Standard Published

Zespri has published the 2021 Crop Protection Standard (CPS) and Allowed Other Compound (AOC) list – the documents that set out what products may be applied to fruit intended for submission to Zespri for export.

Growers should reference these documents before any application of agrichemical or foliar products to ensure they are permitted for use as per Zespri's requirements.

There are no significant changes to the new 2021 season's version. However, minor changes include:

- Section 5.4 - APPLICATORS MUST UNDERTAKE A RISK ASSESSMENT FOR THE APPLICATION SITE prior to commencing the application of Hydrogen Cyanamide.
 - The risk assessment is an opportunity to consider whether the job can be done safely and effectively given the conditions on-site at the time.
- Section 7.7 - GLYPHOSATE PRODUCTS: All weed sprays should be recorded in spray diary. To simplify this, ANY STANDARD/GENERIC GLYPHOSATE PRODUCT is allowed to be used, even if not listed in the CPS.
 - If a glyphosate product cannot be found in the Zespri Spray Diary, please choose 'Glyphosate' from the drop down and select the relevant active ingredient level.
- CPPU (Ambitious/Gro-tech) is not permitted for use on Red varieties.
- KiwiGuard – use is currently “under review” – is currently permitted for use up until the start of flowering ONLY (i.e. as a bird repellent ONLY).
- Luna Privilege - Do not tank mix with Methoxyfenozide (Prodigy, Talent).
- Inclusion of “Ironmax Pro” in the AOC list - organic snail/slug bait option.

If you have not received a copy of the 2021 Zespri Crop Protection Standard, it is available to download on the Zespri Canopy (Canopy > Growing Kiwifruit > Pre Harvest Assurance > Crop Protection Standard).

Trevelyan's 2021 Spring Spray Guides – Conventional and Organic

The Trevelyan's 2021 Spring Spray Guides for conventional and organic growers have been updated and reflect changes made to the Zespri CPS.

The Trevelyan's Spray Guides are intended to give guidance on the types of sprays available and a suggested timeframe of when to apply. However, the decision of what and when to spray ultimately falls with the GlobalGAP Management System Owner (MSO) of the orchard. Note that not all sprays listed in the Zespri CPS are listed in the Trevelyan's Spray Guides and growers should always refer to the CPS for a comprehensive list of all allowed products.

The guides are available now on the Trevelyan's Grower website (<https://trevelyan.co.nz/spray-guides/>) – feel free to give me a call if you want to discuss further.



Planning For Spring

Spring is a critical time for spraying, with plenty happening on the orchard and not much time to get it done. Using tools such as the Trevelyan's Spring Spray Guides and the Zespri CPS will help plan out what your spray programme may look like through this period.

When developing this plan, it is important to identify critical events such as the start of flowering and recommended intervals you must leave between specific sprays. Having a plan allows you to adapt more easily when unforeseen events (such as weather events) occur.

Some of the early spring actions to consider on orchard include:

Copper

Copper is considered the "backbone" of a Psa programme and spring is no exception. There are numerous copper products listed in the CPS for use during spring, but with the plant rapidly growing and under stress, it is important not to "overdo it". Spring is the one time of the year where there are multiple spray and cultural options available for growers, so consider all of the Psa tools available to you, alternating or replacing copper where possible.

It is important to apply copper just prior to budbreak, reducing Psa inoculum and protecting the new season's growth.

Aureo Gold®

Aureo Gold® gives both conventional and organic growers the opportunity to replace or alternate copper with Aureo Gold® through spring. With efficacy claimed to be similar to that of copper, using Aureo Gold® allows you to effectively manage Psa while reducing copper inputs on the orchard.

Interestingly, trial work (Integrated Use of Aureobasidium pullulans Strain CG163 and Acibenzolar-S-Methyl for Management of Bacterial Canker in Kiwifruit - de Jong, Reglinski, et al) indicates that Aureo Gold® and Actigard® have complimentary modes of action resulting in better Psa control when tank mixed. Remember however, Aureo Gold® must not be applied within 14 days of copper.

Actigard®

When using Actigard® it is always important to consider the level of stress the vines have been subjected to last season – the label states not to apply to plants that are stressed due to drought, excessive moisture, cold weather or disease.

Monitor your early spring growth and budbreak results carefully, comparing what you see this season against what is typical in previous years. A high number of buds that don't break and/or early growth that stalls may indicate a plant suffering stress. If you have concerns, my suggestion is to avoid Actigard® and consider applying foliar fertilisers to improve vine health instead.

If using Actigard® it is essential that leaves are at least 25mm in diameter (Figure 1). If applied earlier than this, the active ingredient will not be absorbed efficiently into the leaf, resulting in poor control and poor value for money.



Figure 1. Leaf size 25mm – ideal for early Actigard® application during budphase (photo courtesy of Syngenta)

Scale

If scale was a problem last harvest, I recommend conventional growers applying two scale sprays before the start of flowering.

Applying Calypso® plus DuWett® when leaves are 25mm in diameter (or when shoot length reaches 100mm) is an effective control option that will decrease the scale numbers leading before applying a Movento® (plus DuWett®) application around 7-10 days prior to the start of flowering. The Calypso® application can be swapped out for a 1% mineral oil or Movento® if Calypso® supply is short – both are effective scale management tools in the early spring period.

Birds

Bird strike on orchards can occur rapidly and without warning, with significant damage occurring within a short amount of time. It is suggested that a variety of tools are used to repel birds (such as noise cannons, bird scarers, lasers and sprays).

Flock-Off® is a bird repellent spray listed in the Zespri CPS and works by irritating the bird's sense of taste and smell but causes no harm. It is important that Flock Off® is applied just prior to budbreak (so birds learn to avoid the area) and reapplied every 7-10 days through the risk period. Use a superspreader such as DuWett® to ensure coverage or consider using DuWett WeatherMax® if rain is expected.

Some growers report success using KiwiGuard® as an alternative to Flock-Off®. Containing a bittering agent, birds are repelled by the taste and move on. Apply KiwiGuard® in good drying conditions and not within five days of copper (pre or post) as there is a risk of phytotoxicity occurring. Orchards high in boron should also avoid the use of KiwiGuard®.

KiwiGuard® is not permitted for use past the start of flowering.

Nutrition

As we get close to budbreak, now is the time to apply compost and nitrogen-based fertilisers to ensure the rapidly growing canopy is sufficiently fed during this period. If your soils are waterlogged however, you may want to delay this application to avoid compaction of the soil.

Frost

Spring is a critical period for production and growers with frost-prone blocks must be proactive to protect the vines. With budbreak just around the corner, now is the time to ensure frost fans are operational, frost sensors are ideally positioned, and water sprinklers are working (make sure you lift them above the vines!!).

Growers without frost fans or sprinklers are limited by what frost control measures they can take, however, there are a few spray options that may be of help:

- **ThermoMax** (by BdMax)
 - o Is a BioGro certified option for growers that do not have a frost system installed – BdMax claim a 95% efficacy of frost protection at -2°C in kiwifruit
 - o Marketing material states it raises the plant's internal temperature by 0.7°C to 2°C by "...increasing the phosphorous metabolism of the plant..."
 - Apply at 250ml/ha two days before frost if possible
 - Re-apply 7 days later, then every 2-3 weeks
 - Can be applied with copper
- **Horti-Tech** Foliar Protect by Biologix NZ
 - o A group of bacteria called "ice nucleation active"

bacteria (*Pseudomonas syringae*, *Erwinia herbicola* and *Pseudomonas fluorescens*) causes ice formation on plant surfaces which leads to frost damage

- o Widely used in the avocado industry, Biologix NZ claims that Horti-Tech Foliar Protect contains a beneficial group of organisms that out compete these ice nucleating bacteria providing what they claim is a very effective method of "...reducing virtually all frost damage from crops" and claim "It has proven more effective than wind, water or frost cloth as these rely on altering the temperature not the cause of the frost damage."

• Copper

While Psa-V is not an "ice nucleation active bacteria", there may be other *Pseudomonas* bacteria present on orchard which could lead to frost damage.

Maintaining a strong copper programme through the frost period to keep the bacterial population low may therefore provide protection against light frost. Refer to copper product labels (such as Kocide®Opti™ and ChampION®) for more information.

Poorly-Girdled Vines

Now is the time to assess summer girdles from last season and determine how well they have healed. Vines with open or slow-healing girdles will not have stored much carbohydrate over autumn/winter and may be stressed this spring. As tough as it may seem, stripping the flowers/fruit from these vines is the best long-term option. Trying to carry a crop on these vines will likely result in ongoing productivity issues or even death of the vine – it's best to remove the fruit and apply foliar fertilisers instead to improve vine health.



Let us manage your orchard
Grow a better future with us

Trevelyan's
Managed Orchards

Colin's Chatter

Colin Olesen – TGL Chair



Meetings – Where Would We Be Without Them?

Your Directors have not met this month, leaving space to attend all the Annual General Meetings within our industry that are usually held in August.

With most aspects of our industry in good shape, these meetings were strongly procedural and predictable. The major elephant in the room appears to be around labour supply throughout the whole industry, with sustainability issues also well up there.

Our 2020 Sustainability Report – 10 Years Growing Our Sustainable Future (www.trevelyan.co.nz/wp-content/uploads/2021/06/GRI-Report-2020-Final-Web-Version-1.pdf), is a good read, as well as a great chapter in the journey that Trevelyan's is committed to. There are many contributors to the progress that has been made, large and small, but each one moves the company in the right direction. One person's

very simple comment sums it up so well – “there is no planet B.”

Nominations will soon be called for three Grower Director positions on the TGL Board. We have nine Grower Directors and three of the nine must retire each year, but they can stand for re-election. This year Simon Cook and I complete our three-year terms. Stacey Beer's three-year term was also about to be completed, but Stacey resigned as a Director back in June. A formal notice will soon be issued outlining the situation more fully and the timeline for the election process. Now is the time to start thinking about these elections.

Keep safe and healthy.

General News »

Staff Profile: Jaskarn Singh

What is your role and how long have you worked at Trevelyan's?

I started with Trevelyan's as the Coolstore Locations Assistant in mid-August. I will be assisting with the operations and maintenance of our coolstores by supporting the coolstore team and providing technical support with best practice techniques. I will also help deliver preventative maintenance, service and repair scanners and tablets, and carry out pallet location checking and auditing.



What's your favourite thing about working at Trevelyan's?

The people have been so friendly and accommodating.

What are your main interests/hobbies outside of work?

Cars, gaming and shooting hoops with friends.

What would you like people to know about you?

I'm awful at remembering names.

Who has been the biggest inspiration in your life?

Mainly my parents but also Steve Wozniak.



Staff Profile: Georgia Guy-Williams

What is your role and how long have you worked at Trevelyan's?

I am the Laboratory Manager and I started with Trevelyan's at the beginning of August.

What's your favourite thing about working at Trevelyan's?

So far, I've really enjoyed the physical environment around the house office being so green. It's nice being able to walk outside the door and see the piwakawakas playing on the lawn. I've also really enjoyed getting to know the team. Everyone has been really friendly so far.

What are your main interests/hobbies outside of work?

I currently play the flute in the Katikati concert band. I picked up the flute after not having played since I was 11 and have been slowly relearning it. I love playing boardgames. My partner and I have a decent boardgame collection including titles such as Gloomhaven, Dominion, Clank in Space, Battle for Grayport, Nar and Far, and Pandemic. I occasionally dabble in Aikido – a Japanese defensive martial art.

What would you like people to know about you?

That I am human. No robotic parts are attached yet – though sometimes I feel that would help.

Who has been the biggest inspiration in your life?

Excluding my family, Dennis Williams – my boss at my first full time job. Dennis owned a berry farm in Prebbleton on the outskirts of Lincoln in Canterbury. The farm at the time was the second largest berry exporter in the country. About 90 people were employed on the farm. I first rang asking for a job picking fruit and he offered me a job as a shop assistant. He only omitted the fact the job was also running all the orders for both the domestic and export markets. He constantly pushed me and everyone there to do their best. You weren't allowed to let Dennis, whom we lovingly called the "old man", beat you at anything. Everything was a competition and a giant game to him. You had to make everything fun for both yourself and those around you. If you didn't see someone laughing around Dennis it was unusual. Dennis would let me stay overnight with his family when things were busy or if I didn't feel like biking home. He constantly taught everyone around him everything he knew, if you were willing to listen. He would explain the spraying cycles and crop rotations and the harvest points of all the different berry fruits and cherries. He explained the financial troubles that running such a large berry farm sometimes accrued. Nothing was hidden. He inspired me to make the switch from medicine into plant science and is the reason I'm working in horticulture now.



Key Contacts



James Trevelyan
MANAGING DIRECTOR
027 648 8878



Stephen Butler
GENERAL MANAGER
027 517 7999



Mike Perrett
GROWER SERVICES
MANAGER
027 359 5960



Debbie Robinson
SUPPLY MANAGER
027 530 0559



Adam Franklin
ORCHARD DIVISION
MANAGER
027 537 0016



Donna Atkinson
INVENTORY
MANAGER
021 246 1321

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Trevelyan's
Growing a better future

310 No. 1 Road R.D.2, Te Puke 3182. New Zealand.

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