

Kiwifruit POINTERS

PART ONE:

**ORCHARD BASICS FOR NEW
ORCHARD WORKERS**





WELCOME!

We've made this book to help you get started on the orchard. Your supervisor should work through this book with you and let you know anything specific about the orchard you are working on.

**IT'S IMPORTANT YOU ARE FAMILIAR
WITH THE ORCHARD FACILITIES AND
LAYOUT AND KNOW WHAT TO DO
AND NOT TO DO AT WORK**

**YOU ARE AN IMPORTANT PART OF
THE KIWIFRUIT SUPPLY CHAIN**

Kiwifruit is grown here on the orchard, we thin and harvest it, it heads to the packhouse to be graded, weighed, counted, labelled and packed, then it is exported around the world.



IT'S IMPORTANT TO KEEP HEALTHY AND SAFE AT WORK

HEALTH AND SAFETY IS ALL ABOUT MAKING SURE WE ALL GO HOME SAFE AT THE END OF THE DAY

- Health and Safety is a top priority in the kiwifruit industry.
- We all have a part to play in staying healthy and safe.
- In New Zealand, health and safety is regulated by Worksafe NZ.

THE FIRST STEP TO KEEPING YOURSELF AND OTHERS SAFE IS TO ARRIVE PHYSICALLY AND MENTALLY FIT FOR WORK

- Fatigue, some medication, alcohol and drugs can cause impairment which can put yourselves and others at harm.

**IF SOMEONE YOU'RE WORKING WITH LOOKS A BIT OFF, HAVE
A CHAT WITH THEM OR LET YOUR SUPERVISOR KNOW.**



HERE'S WHAT TO WEAR ON THE ORCHARD

**BE SURE TO DRESS FOR THE WEATHER
CONDITIONS AND WEAR APPROPRIATE
CLOTHING AND FOOTWEAR. WEAR CLEAN,
CLOSED SHOES & CLOTHES**

- Make sure all shoes are closed and clean, and the clothing you've worn on other orchards is washed. It could carry dirt, disease, or pests.
- If you've just arrived in New Zealand, it is important to thoroughly wash all clothing and footwear.
- Also clean all bags, luggage, camera cases or anything that could have plant fragments or pests hiding in pockets or folds.

PROTECT YOURSELF FROM THE SUN

- The sun is hot in New Zealand, so wear clothing to cover yourself up if you need to. This can be a hat, long sleeve shirt, and pants.
- Wear sunscreen with an SPF30 or higher and reapply frequently during the day.



AND HERE'S WHAT NOT TO WEAR ON THE ORCHARD

DON'T WEAR ANYTHING THAT COULD DAMAGE OR CONTAMINATE THE KIWIFRUIT

- Don't wear any jewellery.
- Avoid wearing any clothing with sharp bits like sequins or studs.
- If you have long hair, be sure to tie it back.
- Keep your fingernails short and clean, with no nail polish or false nails.



GETTING TO WORK & ARRIVING AT THE ORCHARD

KNOW AND FOLLOW NZ ROAD RULES

- Make sure you are familiar with New Zealand road rules before you drive a vehicle.
- In NZ, we drive on the left, stick to the speed limits, and always indicate early before turning.

DRIVE SAFELY

- Roads to the orchards may be narrow, so it is important to watch for oncoming traffic.
- If you are not a confident driver, see if you can get a ride to the orchard with an experienced driver.

PARKING

- The orchard usually has a sign at the gate.
- Only park in designated areas, like a specific loading area or along the road. Don't park in the orchard operating area or under the vines.
- Be careful when getting in and out of your car and watch for other vehicles.



KIWIFRUIT'S MOST UNWANTED

Kiwifruit Vine Health (KVH) undertakes readiness and response planning to minimise the impact of future biosecurity incursions to the kiwifruit industry.

The following organisms are considered the highest risk to the kiwifruit industry, based on the likelihood of them getting here and establishing; and the potential production and market access implications should this occur.

Our next incursion won't necessarily be an organism on this list however. We all need to be on alert for any unusual pests or plant symptoms and maintain on-orchard biosecurity best practice ALL the time.

FRUIT FLIES

Queensland, Oriental, Mediterranean

- High likelihood of entry – have crossed our borders many times.
- Production impacts for a range of horticultural crops, but considered low for kiwifruit.
- Severe market access restrictions, particularly for Queensland Fruit Fly which is not present in most major kiwifruit markets.



High biosecurity risk - see fact sheet for more info

BRAZILIAN WILT

Ceratocystis fimbriata

- Soil-borne pathogen causing damage to kiwifruit in Brazil – reports of up to 50% vine loss.
- Vine death can occur extremely rapidly after expression of symptoms. Hayward on Bruno rootstock also affected.
- No known effective treatments.
- May be eradicable with good biosecurity practices and if detected early.



High biosecurity risk - see fact sheet for more info

BROWN MARMORATED STINK BUG

- Pierces kiwifruit resulting in fruit drop and rot. Fruit loss is typically 5-10% but up to 30% on worst blocks.
- Extremely difficult to eradicate – early detection is essential.
- Major nuisance pest overwintering inside houses in huge numbers.
- High likelihood of entry as a hitchhiker on shipping containers, cars, machinery and luggage.



High biosecurity risk - see fact sheet for more info

SPOTTED LANTERNFLY

- Attacks over 70 host species, including kiwifruit - eradication efforts overseas have been unsuccessful.
- Production impacts from extensive feeding resulting in oozing wounds, wilting, and especially sooty mould growth which prolific.
- Hitchhiker pest that is hard to control – tends to fly out of orchards when sprayed and return later.



High biosecurity risk - see fact sheet for more info

PSA NON NZ STRAINS

- NZ has one form of *Psa* - others exist internationally and could cause severe impacts if they get here.
- *Psa* in Japan and Korea appears to be more virulent to Hayward than the NZ form of *Psa*.
- New *Psa* strains could be more virulent to 'Psa tolerant' cultivars.
- May be difficult to distinguish from 'common' *Psa* so best practice is not to spread any form.



High biosecurity risk - see fact sheet for more info

WHITE PEACH SCALE

- Regularly intercepted on imported fruit. Therefore no imported fruit should be taken on to orchards as a precaution.
- Up to 20% production losses reported on Italian orchards.
- NZ environment considered favourable for establishment.



High biosecurity risk - see fact sheet for more info

VERTICILLIUM WILT

- In susceptible kiwifruit cultivars infection always leads to plant death, which occurs suddenly.
- Many strains worldwide – only Chile has reported a strain virulent against kiwifruit.
- Good biosecurity hygiene practices are essential to prevent spread of this soil-borne pathogen.



High biosecurity risk - see fact sheet for more info

INVASIVE PHYTOPHTHORAS

- Known as the plant killers – a group of significant plant pathogens and a major threat to all plant sectors.
- Species have caused significant impacts to kiwifruit offshore. Many other known and unknown species could also cause impacts under certain conditions.
- Easily spread, particularly with plant material movements.
- Can spread in plants showing no symptoms.



High biosecurity risk - see fact sheet for more info

PROTECTING OUR ORCHARDS FROM PEST AND DISEASES

BIOSECURITY IS REALLY IMPORTANT

- Everyone needs to help prevent the introduction or spread of pests and diseases that could damage New Zealand.
- If we don't take biosecurity seriously, it could spell disaster for the crop and you may be out of a job.
- Use footbaths or sprays to clean boots at the start of the day and between orchards.

REPORT ANYTHING UNUSUAL

- If you see anything unusual, or people or animals that shouldn't be on the orchard, tell your supervisor immediately.



For more information on organisms and other industry, see the fact sheet at www.kvh.org.nz

CATCH IT
SNAP IT
REPORT IT

TO REPORT UNUSUAL PESTS OR DISEASES
CALL THE MPI HOTLINE 0800 80 99 66 OR KVH 0800 665 825

BE SURE YOU KNOW WHAT TO DO ON THE ORCHARD YOU'RE WORKING ON

EVERY ORCHARD IS DIFFERENT

- Each orchard has its own risks and set of requirements you must meet.

YOUR SUPERVISOR SHOULD TAKE YOU THROUGH THESE REQUIREMENTS WHEN YOU ARRIVE ON SITE

- You should also be shown where they are displayed so you can refer to them if needed.
- Your supervisor will also tell you where the toilets are, where you can eat, rest and put rubbish and recycling.
- Always ask your supervisor if you have any questions.



WE ALL HAVE AN IMPORTANT ROLE IN PRODUCING FRUIT THAT IS SAFE TO EAT

NEVER EAT OR SMOKE NEAR FRUIT OR THE FRUIT-HANDLING EQUIPMENT E.G. PICKING BAGS, BINS, GLOVES. WASH YOUR HANDS OFTEN

- It is extremely important to always wash your hands before starting work, after breaks, eating or smoking and especially after using the toilet.
- You must wash your hands after eating because allergens contained in some foods can cause serious harm to our consumers.

DON'T COUGH OR SNEEZE OVER THE FRUIT. DON'T PICK YOUR NOSE. USE THE TOILETS PROVIDED

- Everyone must use the designated toilets. Going anywhere else is prohibited. Orchard owners will provide toilets nearby. Be sure to dispose of toilet paper and towels in the correct way.



IF THERE'S AN INJURY OR ILLNESS, BE SURE TO ADDRESS IT

PROTECT CUTS AND WOUNDS

- If you have a cut or wound on your body, always cover it with a new, waterproof band-aid or bandage before you come to work. Some orchards may require you to wear gloves if you have a cut on your hand.

SPEAK UP IF YOU ARE INJURED OR DON'T FEEL WELL

- If you get a cut or are not feeling well (showing symptoms of nausea, vomiting or abdominal cramps), report it to your supervisor immediately.
- There should be a first aid kit on site for any injuries.
- If you or someone else has an accident, make sure they get first aid care, and then make sure the accident is reported.

RING 111 IN AN EMERGENCY

- If there is an emergency - ring 111 immediately for emergency services and get help from your supervisor or orchard manager.
- It's important you can tell someone your location if needed – your supervisor should let you know where you're working each day.

A photograph of two men standing in an orchard. The man on the left is wearing a high-visibility yellow and black shirt and sunglasses. The man on the right is wearing a light blue button-down shirt and dark pants. They are both looking at each other and gesturing with their hands as if in conversation. The background shows green foliage and a white fence.

THE ORCHARD IS A BUSY PLACE, BE SURE TO STAY AWARE

WATCH FOR MACHINERY & EQUIPMENT

- There may be a lot of equipment, tractors, trailers and vehicles moving in and around the orchard, so always pay attention to what is going on around you.
- Do not use machinery and equipment if you are not trained. If you are trained, wear a seatbelt if there is one, drive to the conditions, and follow all speed limits.

MAKE SURE YOU STAY AWARE OF WHAT IS GOING ON

- Avoid using a mobile phone when you are driving, walking to and from your car, and walking to the toilets.
- Always be aware of what is happening.
- Pay attention to your surroundings, watch for equipment and people.

REPORT ANYTHING UNUSUAL

- If you see something you're worried about, talk to your supervisor.

A man in a light blue button-down shirt, safety glasses, and white gloves is standing in a kiwifruit orchard. He is carrying a black bag with a purple patch that says "COPPO 2000". The background shows kiwifruit vines and leaves.

STAY SAFE IN THE ORCHARD

SAFETY EQUIPMENT

- Whatever job we're doing on the orchard, we have to be sure to wear the appropriate safety equipment. This may include things like high vis vests, safety boots and safety glasses.
- You'll be made aware of the requirements as part of your training and site induction.

KEEP AN EYE OUT FOR HAZARDS IN THE ORCHARD

- They may be below you, like uneven or sloping surfaces or holes, or above, like loose wires and low beams that you can easily bang your head on.
- Low hanging kiwifruit vines can also be dangerous, so please be careful when moving through the orchard.
- Spraying shouldn't take place in blocks where people are working. Signage should detail any recent spraying and when it's safe to re-enter those areas

REPORT ANYTHING UNUSUAL

- If you see something you're worried about, talk to your supervisor.



COME PREPARED WITH WATER AND FOOD

DRINK LOTS OF WATER

- It's very important to stay well-hydrated. Drink lots of water and come prepared, some orchards may not have easy access to drinking water, so be sure to bring a lot for the day.

BRING YOUR LUNCH

- You will most likely need to bring your own lunch, so plan in advance.
- Eat nutritious food to make sure you are well fuelled for the days work.

BREAKS

- Your supervisor will give you regular rest and meal breaks, as required by law.
- Your break times are determined by the number of hours you work in a day.

A man in a high-visibility vest is speaking to a group of workers outdoors. The workers are standing in a line, listening to the man. The background shows a dirt path and some greenery.

YOUR EMPLOYER HAS RESPONSIBILITIES TO YOU AS WELL

YOUR RIGHTS ARE PROTECTED IN NZ

- Workers must be provided with a safe and healthy work environment and be paid at least the minimum wage which is set by the NZ government.
- There should be no discrimination in the workplace.
- All workers must be treated with fairness, respect and dignity. We must also treat each other each other this way.

CONCERNS ARE TAKEN SERIOUSLY

- If you have been treated unfairly or unlawfully, you have a right to lodge a complaint without discrimination. To lodge a complaint, contact NZ Kiwifruit Growers (info@nzkgi.org.nz).
- For more about your rights, go to the Employment New Zealand website: www.employment.govt.nz.

Kiwi's POINTERS

IT'S UP TO US TO WORK TOGETHER TO
KEEP THESE ORCHARDS HEALTHY,

MAKING SURE NO ONE GETS HURT
AND WE ALL GO HOME SAFE AT THE
END OF THE WORK DAY.