



NEW ZEALAND WINE
PURE DISCOVERY

Sustainable Winegrowing New Zealand: A world leading certification programme


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New Zealand Winegrowers Environment Strategy

NZW Sustainability Focus Areas

FOCUS AREAS	FOCUS AREA GOALS
 Climate Change	NZ wine industry is carbon neutral by 2050
 Water	Be a world leader in efficient water use and the protection of water quality
 Waste	Zero waste to landfill by 2050
 Soil	Protect and enhance soil health
 Pest and Disease	Understand reduce and mitigate impacts of existing and potential pest and disease. Be a world leader in sustainable alternatives.
 People	Be an industry of choice for workers



Voluntary sustainability accreditation programme – objectives:

- Provide **standards** and **guidance** for members to ensure **stewardship** across key focus areas of sustainability.
- Provide members with a regular set of **benchmarks** enabling them to make informed business decisions across key focus areas with the aim of **continuous improvement**.
- Protect and enhance the **reputation** of the New Zealand wine industry nationally and abroad by ensuring the industry's **social license** to operate.



Timeline

In 1995 SWNZ established for vineyard certification

In 2002 SWNZ certification widened to include wineries

Currently 96% of vineyard area in New Zealand certified with SWNZ; and

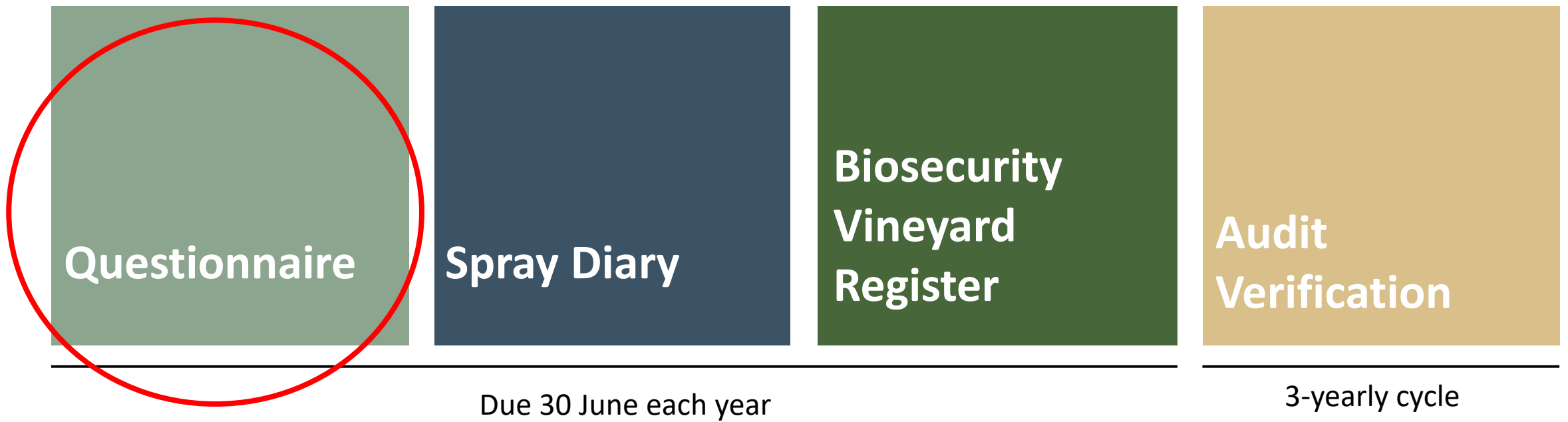
90% of wine produced made in SWNZ-certified facilities

Globally recognised and world leading

Scorecard review process began in 2019 – first step in reviewing/refining SWNZ



SWNZ Certification for Vineyards





2020/21 Questionnaire requirements

Water

- Irrigation & frost protection
- Regulatory requirements
- Water optimisation & efficiency

Soil

- Soil makeup and health
- Under-vine & inter-row management
- Nutritional/biological inputs

Pest & Disease

- Monitoring procedures
- Spray management & certifications
- Biosecurity

Waste

- Waste management
- Waste reduction initiatives
- Vineyard posts & grape marc

Climate Change

- Carbon certification
- Energy inputs (diesel, electricity, petrol)
- Carbon footprint minimisation

People

- Key documents (H&S plan, site map, SOPs)
- Employment agreements
- Agrichemical & fuel storage



Quantitative reporting

Water

- Total water used for irrigation and frost protection
- Total area irrigated

Soil

- Nutritional inputs recorded in GrapeLink spray diary
- Area contributed for biodiversity

Pest & Disease

- Spray inputs recorded in GrapeLink spray diary

Waste

- Total waste sent to landfill
- Amount of grape marc spread & vineyard area

Climate Change

- Annual emissions (if verified)
- Total amount of diesel, petrol and electricity used

People



Benchmarking

Vineyard Irrigation Report

Vineyard Summary

Season	2018/2019
Vineyard name	Sample Vineyard
Vineyard ID	HBXXX
Region	Hawkes Bay
Vineyard area	33.16 ha
Irrigation area	0 ha
Soil type	Very light - Stony

1 Quantity of Irrigation Applied

Total water volume applied for irrigation **24,320 m³**
 Irrigated area **0 ha**
 Irrigation use: **- mm**
256 l/plant



Water use provided in WISE:

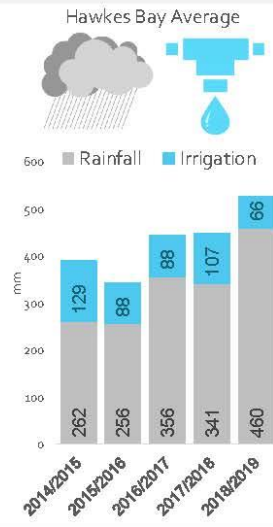
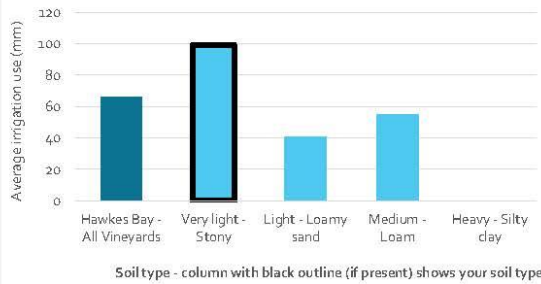
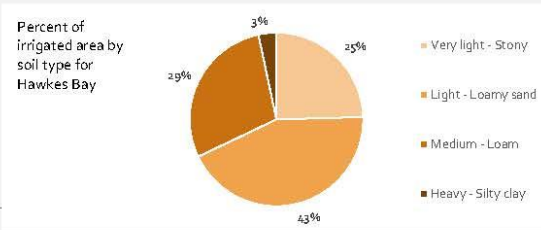
How does this affect me?

This is the third year of incorporating regional soil types, which has further enhanced the information available to members.

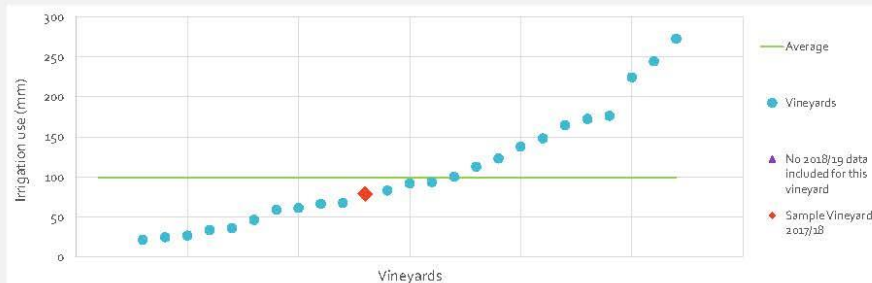
SMART Irrigation - Irrigation NZ: <http://smartirrigation.co.nz/>

Rainfall data can be accessed on the NZ Wine Online Tools page: <http://tirvurl.com/vrk57s4e>

2 Regional and Soil Type Irrigation Summary



Hawkes Bay Vineyard Irrigation Distribution: Very light - Stony



3 Regional Rainfall Summary - Crownthorpe, HB

Crownthorpe, HB is the closest weather station to your vineyard. The coordinates for the station are -39.626502 176.577179

Total rainfall (mm)	Jul	Aug	Sep	Oct	Nov	Dec
Long term average	117	75	81	61	60	72
2018/2019	44	64	132	17	106	174

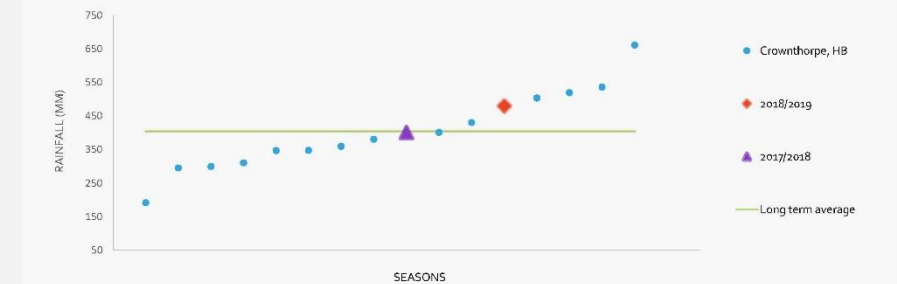
	Jan	Feb	Mar	Apr	May	Jun	Annual	Oct - Mar
Long term average	89	51	81	102	66	96	911	404
2018/2019	138	29	15	43	18	85	866	480

Rainfall figures are taken from a combination of HortPlus and NIWA weather stations. Long term averages are from the 2003/2004 season to present. Note the LTA totals are an average of the totals so do not equal the sum of the average months.

Hawkes Bay - Crownthorpe, HB Monthly Rainfall (mm) July 2018 - June 2019



Hawkes Bay - Crownthorpe, HB Oct - Mar. Rainfall Compared to Previous Seasons



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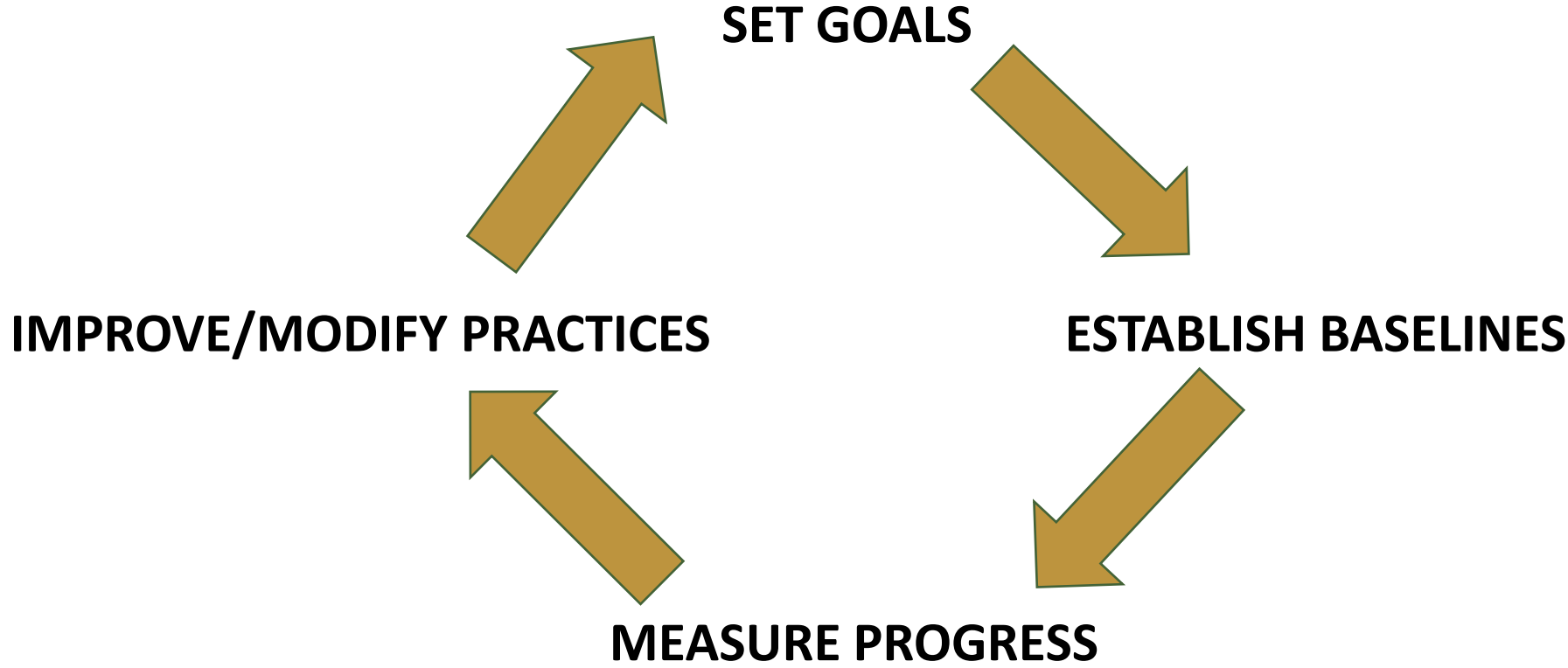


Creating a Sustainable Legacy





Financial sustainability through benchmarking: If you can measure it you can manage it





Learnings: To be successful a sustainability programme should:

01

Create value for members:

02

Be verified through independent audit

03

Be supported by good technology and communication

04

Be open to review, refresh and change



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Thank You!

