



Hāpi-Brewing Success

July to September 2019 Executive Summary

Summary of progress during this quarter

The programme's focus this past quarter has been on preparatory work for the coming growing season with growing and precision farming trials a priority so planned results can be achieved.

Hop Breeding

Research partner Lincoln University has made good progress with gardens built and hops planted for starting planned research projects and agronomic data gathering from this new Canterbury location.

The project is planning to plant out 3,000 seedlings this season and will grow-on six advanced selections from last year as part of its traditional crossing breeding work. Preparatory work is underway for both harvesting and screening this year's seedlings as well as making crosses for the following harvest. Sensory feedback on the advanced selections from last season has showed promising results. As a result of those findings, one of the advanced selections has been fast-tracked for a more rapid scale-up to a large scale plot trial.

Sensory Feedback

Chemistry analysis from the first year of the harvest-timing trial has been completed and that project will now move forward with the collection of sensory feedback from participating breweries. Additional years of data will be required before definitive conclusions can be reached. Initial results indicate that actionable correlations between measurable compounds and cone 'ripeness' may exist. The next step is linking the levels of those compounds to sensory analysis of finished beer.

Symposium

Planning for the 2020 Hāpi Symposium is well underway. This event is to be held in Wellington on Friday, 3 April, followed by the Garage Project Hāpi International Beer Festival on Saturday, 4 April. The symposium will cover a wide range of topics, from beer and hop science, to the latest market trends. The focus will remain on connecting New Zealand and international hop breeders, growers and brewers.

Market Research

The programme has continued with its market research and development efforts, making trips to the northern hemisphere hop harvest and visiting craft brewers. Networking and learning from overseas hop

research and growing peers has yielded valuable insights and lessons that can be applied to operations in New Zealand. Strong demand for hops grown in New Zealand continues.

Communications

The Hāpi website is developing as an information sharing platform for hop growers. Recently added resources include a Fertility Guide for Hops which gives general information about hops fertility, soils, tissue sampling, fertilising etc. This guide is similar to the Industry Guide, but focuses solely on hop fertility. In addition a link is provided to an academic article on the influence of nitrogen fertility practices on hop cone quality, from the Journal of the American Society of Brewing Chemists. Other links connect the reader with information about hop programmes at academic institutions, industry organisations, academic papers, You Tube videos etc.

Key highlights and achievements

Publication of our first of many industry resources and the beginning of sensory analysis on advanced selections.

Upcoming

Brewing trials of advanced selections.

Investment

Investment period	Co-investor contribution	MPI contribution	Total investment
During this Quarter	\$0.157 m	\$0.105 m	\$0.262 m
Programme To Date	\$0.550 m	\$0.367 m	\$0.917 m



Left. Hops growing up coir string, trialling the use of sustainable materials as part of the precision agriculture project.

Right. Seedlings from the breeding programme.