



Hāpi-Brewing Success

October to December 2019 Executive Summary

Summary of progress during this quarter

The Programme's focus this past quarter has been on plant breeding and precision farming and preparatory work for the coming hop harvest data collection efforts.

Hop Breeding

Research partner Lincoln University has been growing hops planted for planned precision farming and agronomy research projects. This first season, limited data analysis from the Canterbury location is occurring because first year hops do not behave agronomically like mature plants.

The mutational breeding projects continue at Lincoln as before with progress towards efficiently generating plantlets at their facilities. Genomics work to facilitate better understanding of the effectiveness of the mutational breeding is being completed by the research group headed by Dr Chris Winefield.

Select Breeding Solutions Ltd, the Programme's traditional cross-breeding provider, has planted out 3,000 seedlings this season and will grow-on six advanced selections from last year, with one fast-tracked to a 2,000 plant trial. Select has developed an efficient trialling system for new crosses and continue into future years. Preparatory work for screening this year's seedlings as well as making crosses for the following year's seedlings continued. Harvest activities will take place during the month of March 2020.

Symposium

The 2020 Hāpi Symposium will be held at the Wellington Opera House on Friday, April 3rd, followed by the Garage Project Hāpi International Beer Festival on Saturday, April 4th at Te Whaea. The Symposium is a full day programme to share the latest thinking, developments, techniques, and research efforts around brewing hop forward, expressive beers.

This year's programme is focused on hop forward beer and all the elements that make these styles so exciting. The symposium has speakers representing a wide range of leading scientific and industry thought leadership. The symposium will continue with its goal of connecting New Zealand and international hop breeders, growers and brewers with each other to foster knowledge-sharing, build commercial relationships and contribute to New Zealand's industry development.

Market Development

The Programme continues to engage in market development efforts through activities in key international markets. Outreach to craft brewers and industry events continues to build interest in New Zealand grown hops generally and Hāpi Research efforts specifically. The Programme pursued networking and collaboration opportunities with overseas hop research to generate valuable insights and lessons that can be applied to the operations in New Zealand. The Programme's assessment is that strong demand for high quality hops grown in New Zealand continues.

Communications

The Programme is continuing to increase the content available on the Hāpi website for hop growers and other industry participants. We have added a variety of new resources for growers, including a Weed Management Guide for Hops and a Guide to Analysing Your Site for Hops. We have continued to add useful links, including to a variety of weed identification and information websites that offer valuable resources and tools. Another link directs growers to information on the use of hops in brewing. Lastly, we have added an article on hop vernalization and dormancy that challenges the conventional wisdom on this topic.

Key highlights and achievements

The Hāpi Website is offering a growing library of publications and resources, helping hop growers and others to increase their knowledge and improve their practice. In hop breeding, the planting of 3,000 seedlings from the traditional crossing breeding efforts and the fast tracking of one advanced selection to a full grower trial quantity is a significant step for the breeding project.

Upcoming

Harvest data gathering.

2020 Hāpi Symposium at the Wellington Opera House on Friday, 3 April.

Investment

<i>Investment period</i>	<i>Co-investor contribution</i>	<i>MPI contribution</i>	<i>Total investment</i>
<i>During this Quarter</i>	\$0.163 m	\$0.109 m	\$0.272 m
<i>Programme To Date</i>	\$0.713 m	\$0.476 m	\$1.189 m



Above: New seedlings in the field from the traditional crossing component of our breeding programme.



Above: Event banner for the 2020 Hāpi Symposium to be held in Wellington on April 3rd.