

FINAL REPORT

BA00007

Pilot Brewing for Malting Barley Lines

PROJECT DETAILS

PROJECT CODE: BA00007

PROJECT TITLE: PILOT BREWING FOR MALTING BARLEY LINES

START DATE: 01.07.2012

END DATE: 30.06.2015

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Summary

Pilot Brewing Australia (PBA) has over the course of this three year project made detailed assessments of 18 different malts plus control varieties for benchmarking quality. This has led to the accreditation of GrangeR[®], Henley[®], Scope[®] and Westminster[®] in 2013, Macquarie[®] and Wimmera[®] in 2014 and Flinders[®] and La Trobe[®] in 2015. Three malts sourced from overseas markets to provide competitor benchmarking were included.

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Conclusions

From the three years of data produced by this program, it was concluded that all commercial malt samples submitted to PBA through the Barley Australia (BA) accreditation protocol received triplicate malt analysis by industry laboratories and consistent respective brewing evaluations as outlined under the procedures set down in the PBA handbook. During the project term, the data generated by PBA served to assist in the accreditation of GrangeR[®], Henley[®], Scope[®], Westminster[®], Macquarie[®], Wimmera[®], Flinders[®] and La Trobe[®] barley varieties.

Outcomes

The PBA brewing evaluations have assisted the Malting and Brewing Industry Barley Technical Committee (MBIBTC) to make recommendations to BA as to which varieties to progress in the accreditation system in each year of the project term.

The PBA project requires smaller amounts of malt for assessment which significantly reduces the loading upon the supply chain. With a dedicated brewing platform, it allows early assessment and an increased number of trial brews relative to commercial brewing.

The standardised approach of the PBA protocol discriminates differences between malt samples without the requirements and pressures to produce saleable and in specification products.

The information generated by both PBA and the MBIBTC has been of value to grain marketers and barley breeders and given them a better understanding of the new varieties coming through the pipeline. It has also focused their understanding of the quality requirements further along the value chain.

The uptake of these new varieties is adding value for Australian growers by providing options for achieving higher crop yields using varieties that are industry tested and recommended.

Achievements/Benefits

This project has set out to support the BA variety accreditation protocol through pilot brewing evaluation of new malting barley varieties submitted to BA by breeding companies and to benchmark these evaluations against some of the best material available overseas in Australia's competing malt markets. This objective has been fully achieved and BA and the MBIBTC have made full use of the project data generated over the three year period of the project.

In total, 44 brews were conducted during the project. There were 15 new variety evaluation brews, three overseas competitor variety brews and the remainder being analytical brews to verify the brewing protocols and analysis methods.

This has led to the accreditation of GrangeR[®], Henley[®], Scope[®] and Westminster[®] in 2013, Macquarie[®] and Wimmera[®] in 2014 and Flinders[®] and La Trobe[®] in 2015.

Additional information

Attachments

1. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Flinders 2012.

2. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Grange 2012.
3. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Henley 2012.
4. PBA Varietal Accreditation Evaluation - Sugar Adjunct Brew - Henley 2012.
5. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - IGB1101 2012.
6. Market comparison overseas varieties - Starch Adjunct Brew - Marthe 2012.
7. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Scope 2012.
8. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Westminster 2012.
9. PBA Varietal Accreditation Evaluation - Sugar Adjunct Brew - Westminster 2012.
10. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Wimmera 2012.
11. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Admiral 2012.
12. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Admiral 2013.
13. Market comparison overseas varieties - Starch Adjunct Brew - Copeland 2013.
14. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Flinders 2013.
15. PBA Varietal Accreditation Evaluation - Sugar Adjunct Brew - Macquarie 2013.
16. PBA Varietal Accreditation Evaluation - Sugar Adjunct Brew - Skipper 2012.
17. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Wimmera 2013.
18. PBA Varietal Accreditation Evaluation - Sugar Adjunct Brew - Compass 2014.
19. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - Flinders 2014.
20. PBA Varietal Accreditation Evaluation - Starch Adjunct Brew - La Trobe 2014.
21. Market comparison overseas varieties - Starch Adjunct Brew - Sebastian 2014.
22. PBA Varietal Control Evaluation - Sugar Adjunct Brew - Westminster 2014.