European Brewery Convention

BARLEY & MALT COMMITTEE

Results Field Trials, Crop 2005

Executive Summary

The present report summarizes the EBC Barley Field Trials for Crop 2005. It is based on the comments of the 4 regional chairmen, and is intended to highlight tested varieties that may be of interest to the malting and brewing industry.

Standard Varieties

For harvest 2005 trials, Scarlett and Barke varieties have been used as common standards for spring varieties, and Esterel and Regina for winter varieties.

Results

Winter varieties

– For year 2 varieties, REGALIA shows the highest agronomical yield in all regions, but has a high glucan content. NECTARIA and SUNBEAM show high extract, the latter having also high diastatic power and good grading. AQUARELLE has the lowest viscosity, glucan, and high final attenuation.

– For year 1 varieties, ARTURIO shows the highest agronomical yield in all regions, but the lowest extract. JONATHAN has the highest extract in all regions, and DOROTHEA the highest final attenuation.

Spring varieties

Comments are relative to a specific region.

– In region West, all varieties are equal to or better than standards regarding agronomical yield, viscosity and friability. Of year 2 varieties, HENLEY and WESTMINSTER also show higher extract. NFC TIPPLE combines the highest agronomical yield with lowest protein content. Year 1 varieties share medium to good characteristics, POKER and MASSILIA having the highest yield and grading, BELGRANO the highest Kolbach and KUBURAS the highest extract.

– In region central, all varieties have higher yield and friability than standards. Of year 2 varieties CARAFE has the best quality characteristics (extract, viscosity, glucan, final attenuation and diastatic power). XANADU is almost equivalent, with a better grading but the lowest final attenuation. Of year 1 varieties, WESTMINSTER has highest extract and Kolbach, whereas MAURITIA and GERMINA show high extract, very good cell wall modification and high diastatic power.

– In region North, all varieties have an agronomical yield at least equal to standards. All year 2 varieties are also better than standards regarding viscosity and friability, except MAAREN, which has the highest extract. TROON and NFC TIPPLE have the highest grading and high extract. For year 1 trials, ISOTTA is noticeable for its high grading, kernel weight and diastatic power but may show dormancy problems. WESTMINSTER and POET combine highest extract with low viscosity.

– In region South, all varieties are better than standards regarding viscosity and Kolbach index. For year 2 varieties, MARGRET shows a better yield than standards with good grading and low protein content. Regarding malting parameters, all varieties are good but do not show significant improvement compared to standards. Of year 1 varieties, there is no improvement in agronomical yield except for TOCADA. MAAREN and XANADU have the best extract, HENLEY and MARNIE share good grading and high extract. Other malting evaluations do not give significant improvement; CHRISTINA may nevertheless be mentioned for its highest Kolbach, friability and final attenuation.

Further Information

For more detailed barley and malt data on the above named varieties please refer to the publication 'Results Field Trials Harvest 2005'. Available on request through the national members of the EBC Barley & Malt Committee or from the EBC Secretariat,

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