2017 Ring Test Results

Submitted by: Australian Wine Research Institute
2017 Ring Test Results

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Ring Test Program

- The program is an opportunity for laboratories from different economies to compare the results for typical wine analysis between different laboratories.
- As part of a larger wine proficiency testing program it also allows economies to compare their laboratories results to those typically achieved for the wine tested.
- This year there are 23 nominated laboratories from 14 different economies.
- There are still significant difficulties being encountered shipping wine samples to a number of economies which will need resolution going forward.
## Participants

<table>
<thead>
<tr>
<th>Economy</th>
<th>Labs</th>
<th>Samples delivered</th>
<th>Results Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>x2</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>x2</td>
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</tr>
<tr>
<td>Russia</td>
<td>x2</td>
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<td></td>
</tr>
<tr>
<td>Hong Kong</td>
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<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Indonesia</td>
<td>x2</td>
<td>1 of 2</td>
<td>yes</td>
</tr>
<tr>
<td>Vietnam</td>
<td>x2</td>
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<td>yes</td>
</tr>
<tr>
<td>PNG</td>
<td>x2</td>
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<td>no</td>
</tr>
<tr>
<td>Chile</td>
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<td></td>
</tr>
<tr>
<td>USA</td>
<td>x2</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Japan</td>
<td>x1</td>
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</tr>
<tr>
<td>China</td>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>Mexico</td>
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<td>Next round</td>
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<tr>
<td>Argentina (SF)</td>
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</table>

## This years program

- For 2017 the APEC ring test program was fully integrated into the Interwinery Analysis Group Proficiency program.
- This is a large wine specific program with over 200 participating laboratories.
- It consists of 6 separate rounds of testing, 2 red wines, 2 white wine and 2 rose wine rounds.
- Laboratories can submit analytical results for any of the common wine analysis that is done.
- All data is entered online and collated anonymously.
- Within 2 weeks of the closure of each testing window an online report is available.
- Currently only the first 2 rounds of testing have been completed.
Total Sulfur Dioxide

Titratable Acidity pH 8.2
Reducing Sugar

![Graph showing glucose and fructose levels in samples A and B.]

Glucose + Fructose

![Graph showing glucose and fructose levels in samples A and B.]

APEC Wine Regulatory Forum | May 11-12, 2017 | Ha Noi, Viet Nam
Copper

Iron
Results to date

- There have been significant improvements in laboratories performance compared to previous rounds.
- Still however significant outliers demonstrating the need to continue the program.
- It is significant that laboratories which have participated in the wine program long term are performing more consistently than those new to wine ring testing.
- The impact of different analytical methods being used is apparent and leads to varied results between laboratories.
- Also need to increase the participation rate going forward.
Program going forward

- Completion of the next 4 rounds of testing.
- The provision of a consolidated report for participants and WRF members.
- A series of 3 virtual workshops to allow participants to discuss results and ways to improve laboratory performance.
- A discussion on the value of the program and means to continue it forward post 2018.