3-11-1973

Letter to Dr. Konstantin Frank from Arnulf Esterer, 1973

Arnulf Esterer

Markko Vineyard

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March 11, 1973

Dear Dr. Frank:

It was nice to have a short visit with you after the Penn Yan Conference. The conference was a good time to see your movie.

Enclosed is a short summary of our 1972 growth, for both Riesling and Chardonnay. Also included is a chart comparing the benefits of trenching with vines near-by on untrenched soil. All rootstocks made better growth on the trenched rows. Second year growth was more variable.

There are three more acres to prune. With all the warm weather sap has started to run. I need to know more about pruning. I leave about 30 buds for first pound of wood pruned off and 10 buds for each subsequent pound. So far all are on four arm Kniffin. Is this what you feel is good?

We are still planning to plant two acres this spring. Which rootstocks do you feel will do the best for our soil?

My best regards to your wife and Walter.

Sincerely,

[Signature]

Arnulf Esterer
## Two Year Comparison of Trenching

### Markko Trial Plot -

<table>
<thead>
<tr>
<th>Variety</th>
<th>1971 % More Growth</th>
<th>1972 % More Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chard. /143A</td>
<td>24</td>
<td>54 + ?</td>
</tr>
<tr>
<td>1676</td>
<td>16</td>
<td>100</td>
</tr>
<tr>
<td>26G</td>
<td>30</td>
<td>26 -</td>
</tr>
<tr>
<td>5A</td>
<td>46</td>
<td>19 -</td>
</tr>
<tr>
<td>5BB</td>
<td>17</td>
<td>36 +</td>
</tr>
<tr>
<td>58-59</td>
<td>9</td>
<td>84 +</td>
</tr>
<tr>
<td>Ries /143A</td>
<td>?</td>
<td>80%</td>
</tr>
</tbody>
</table>

**Total**

1971 measure growth in inches
1972 - pounds of new wood

(visual estimate)
**RIESLING**

**GROWTH RECORD 1972 SEASON**

<table>
<thead>
<tr>
<th>Variety</th>
<th># Ave.</th>
<th>Location</th>
<th>E. # Wood</th>
<th>Sample Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>90/143A</td>
<td>.785</td>
<td>TEST</td>
<td>17.8</td>
<td>23</td>
</tr>
<tr>
<td>90/143A</td>
<td>.66</td>
<td>All Bottom</td>
<td>22.1</td>
<td>33</td>
</tr>
<tr>
<td>3309</td>
<td>.61</td>
<td>No Trench</td>
<td>38.4</td>
<td>63</td>
</tr>
<tr>
<td>90/RPG</td>
<td>.48</td>
<td>MID HILL</td>
<td>16.3</td>
<td>34</td>
</tr>
<tr>
<td>101-14</td>
<td>.49</td>
<td>MID HILL</td>
<td>19.6</td>
<td>40</td>
</tr>
<tr>
<td>580</td>
<td>.49</td>
<td>MID HILL</td>
<td>17.6</td>
<td>38</td>
</tr>
<tr>
<td>3309</td>
<td>.46</td>
<td>MID HILL</td>
<td>4.0</td>
<td>15</td>
</tr>
<tr>
<td>90/RPG</td>
<td>.37</td>
<td>TOP</td>
<td>43.4</td>
<td>55</td>
</tr>
<tr>
<td>101-14</td>
<td>.79</td>
<td>TOP 3yr.</td>
<td>4.0</td>
<td>7</td>
</tr>
<tr>
<td>3309</td>
<td>.57</td>
<td>TOP 3yr. (all)</td>
<td></td>
<td></td>
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</tbody>
</table>

**Growth measure - Pounds of wood (visual estimate)**

- May 16/16: 0.9 (no wet area values)
- 10/14: 12.1 14
- 7: 14.0 20
<table>
<thead>
<tr>
<th>Variety</th>
<th>#</th>
<th>Ave</th>
<th>Location</th>
<th>Wood</th>
<th>Sample Size</th>
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</thead>
<tbody>
<tr>
<td>Chardonnay</td>
<td>1</td>
<td>.67</td>
<td>2yr Midhill</td>
<td>40.6</td>
<td>61</td>
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<tr>
<td></td>
<td>1616</td>
<td>.49</td>
<td>&quot;</td>
<td>29.8</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>143A</td>
<td>.73</td>
<td>&quot;</td>
<td>28.8</td>
<td>39</td>
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<tr>
<td></td>
<td>26G</td>
<td>1.1</td>
<td>&quot; too small</td>
<td>3.2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>58-59</td>
<td>.5</td>
<td>&quot; too small!</td>
<td>.5</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>BACO</td>
<td>.72</td>
<td>&quot;</td>
<td>13.6</td>
<td>19</td>
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<td></td>
<td>SBB</td>
<td>.46</td>
<td>&quot;</td>
<td>9.6</td>
<td>21</td>
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<tr>
<td></td>
<td>TORIP</td>
<td>.45</td>
<td>&quot;</td>
<td>4.5</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>3309</td>
<td>.53</td>
<td>&quot;</td>
<td>17.5</td>
<td>33</td>
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<td></td>
<td>5A</td>
<td>.74</td>
<td>TEST Bottom</td>
<td>14.9</td>
<td>24</td>
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<tr>
<td></td>
<td>58-59</td>
<td>.92</td>
<td>TEST Bottom</td>
<td>14.9</td>
<td>24</td>
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<td>1616</td>
<td>.50</td>
<td>TEST</td>
<td>14.7</td>
<td>24</td>
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<td>143A</td>
<td>.74</td>
<td>TEST</td>
<td>13.7</td>
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<tr>
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<td>TEST</td>
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<td>TORIP</td>
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<td>3yr TOP</td>
<td>20.3</td>
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<td>&quot;</td>
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<td>17</td>
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<tr>
<td></td>
<td>26G</td>
<td>1.03</td>
<td>&quot;</td>
<td>19.6</td>
<td>19</td>
</tr>
</tbody>
</table>

Growth measure - pounds of wood (Visual estimate)